

STUDY TITLE

Magnitude of Residues of Dicamba in Soybean Raw Agricultural and Processed
Commodities after Application to MON 87708

DATA REQUIREMENTS

Canada Pest Management Regulatory Agency Directive DIR98-02, Residue Chemistry
Guidelines, Section 9 – Crop Field Trials

OPPTS 860.1500 Crop Field Trials
OPPTS 860.1520 Processed Food/Feed

PMRA DACO 7.4.1, 7.4.2, 7.4.5, 7.4.6

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STUDY COMPLETION DATE

September 14, 2010

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AMENDED REPORT NUMBER

MSL0023061

(Amendment 2 to MSL0021313)

(Amendment 1: MSL0022660)

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RD 1729

STATEMENT OF NO DATA CONFIDENTIALITY CLAIM

The text below applies only to use of the data by the United States Environmental Protection Agency (U.S. EPA) in connection with the provisions of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

The inclusion of this page in all studies is for quality assurance purposes and does not necessarily indicate that this study has been submitted to the U.S. EPA.

No claim of confidentiality is made for any information contained in this study on the basis of its falling within the scope of FIFRA 10 (d) (1) (A), (B), or (C).

We submit this material to the U.S. EPA specifically under the requirements set forth in FIFRA as amended, and consent to the use and disclosure of this material by the EPA strictly in accordance with FIFRA. By submitting this material to the EPA in accordance with the method and format requirements contained in PR Notice 86-5, we reserve and do not waive any rights involving this material that are or can be claimed by the company notwithstanding this submission to the EPA.

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COMPLIANCE STATEMENT

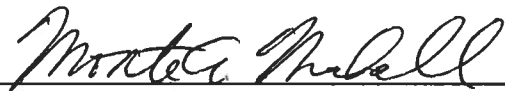
This study meets the U.S. EPA Good Laboratory Practice requirements as specified in 40 CFR Part 160 with the following exceptions:

From the field phase of the study:

1. Historical and in-life meteorological data are not considered to be in compliance with GLPs.
2. Some data were not collected or recorded in complete compliance with 160.130(e). The raw data contain some late entries, which were recorded after the initial entries. In addition, some e-mails were not initialed and dated on the day they were printed.
3. Plot histories, site preparation, fertilization, maintenance, and seeding were not performed in compliance with GLPs.
4. Site elevation, slope, soil series, and water table information were not collected according to GLPs.
5. The GPS units used to determine latitude and longitude of the permanent reference markers at each site were not GLP instruments.

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QUALITY ASSURANCE STATEMENT

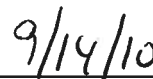
Reviews conducted by the Quality Assurance Unit confirm that the final report for study REG-08-096 accurately describes the methods and standard operating procedures followed, and accurately reflects the raw data of the study.

Following is a list of reviews conducted by the Monsanto Regulatory Quality Assurance Unit on study REG-08-096.

Dates of Inspection / Audit	Phase	Date Reported To:	
		Study Director	Management
12/02/2009	Chromatographic Analysis	12/16/2008	12/16/2008
03/05/2009	Field Report Audit	04/15/2009	04/15/2009
07/09/2009	Data Audit	07/16/2009	07/16/2009
07/30/2009	Field Report Audit	08/04/2009	08/04/2009
08/19/2009	Statistical Report Review	08/19/2009	08/19/2009
09/23/2009	Final Report Review	09/25/2009	09/25/2009
03/29/2010	Amended Report Review	03/29/2010	03/29/2010
09/13/2010	Amended Report Review	09/13/2010	09/13/2010



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CERTIFICATION OF AUTHENTICITY

This report is an accurate and complete representation of the study activities conducted in study REG-08-096.

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ABBREVIATIONS AND ACRONYMS

5-OH	5-hydroxydicamba (2,5-dichloro-3-hydroxy-6-methoxybenzoic acid)
AMS	Ammonium sulfate
Conc.	Concentration
DCSA	Dichlorosalicylic acid (3,6-dichloro-2-hydroxybenzoic acid)
DCGA	Dichlorogentisic acid (2,5-dichloro-3,6-dihydroxybenzoic acid)
FRMC	Field Research Management Contractor
GPA	Gallons per acre
HPDE	High density polyethylene
lb a.e./A	Pounds of acid equivalent per acre
LC/MS/MS	HPLC/Tandem Mass Spectrometer
LLMV	Lower limit of method validation
LOD	Limit of detection
LOQ	Limit of quantitation
NIS	Non-ionic surfactant
PHI	Pre-harvest interval
ppm	Parts per million
RAC	Raw agricultural commodity
RBD oil	Refined, bleached, deodorized oil
RIMS III	Residue Information Management System, 3 rd generation, a system developed within Monsanto to track samples and perform calculations within residue studies
rpm	Revolutions per minute
RSD	Relative standard deviation
SAS	SAS Institute software for statistical applications
Trt. No.	Treatment Number

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STUDY INFORMATION

Study Title	Magnitude of Residues of Dicamba in Soybean Raw Agricultural and Processed Commodities after Application to MON 87708
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Archiving of Records:

The protocol, all study data and records and the amended and final reports are retained in the Monsanto Regulatory Archives.

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1 SUMMARY / ABSTRACT

A study was conducted to determine the residues of dicamba in soybean raw agricultural commodities after application of dicamba formulations to dicamba-tolerant soybean MON 87708. The primary objective of this study was to obtain residue data to support pesticide label registration for applications of dicamba-based herbicides to dicamba-tolerant soybean in the United States and Canada.

The field study was conducted at twenty-two sites in fifteen soybean-growing states with an emphasis on selection of several sites in Region 5 across the northern tier of states to provide data under conditions consistent with those in soybean-growing regions in Canada. There were two sites in Region 2 (GA and SC), and three sites in Region 4 (AR, LA and MO). The remaining seventeen sites were distributed across Region 5 as follows: IL-1 and IL-2, IN, IA-1 and IA-2, KS-1 and KS-2, MI, MN-1 and MN-2, NE-1 and NE-2, ND-1, SD-1 and SD-2 and WI-1 and WI-2. Decline sampling of forage and seed was conducted at the IA-1 and MN-1 sites. An exaggerated rate of dicamba was applied at the NE-1 and WI-1 sites for the collection of seed for processing.

A total of eight treatments were included in the study – one untreated control (Treatment 1) and seven treatments including various split applications of three different dicamba formulations. Samples from all treatments were collected and analyzed. In this report, the results from Treatments 4, 6 and 8, and results from six sites from Treatment 5 are reported. Results from analyses of Treatment 1 controls are provided in the raw data in Appendices 7 to 9, but are not reported in the tables and text of the report. Treatment 4 represents the maximum anticipated labeled rate and timing for applications in the United States. The results from four bridging sites of Treatment 5 (AR, IL-2, KS-1 and MN-2) are presented to match the sites at which bridging from the formulation MON 11955 to the formulation MON 54140 was conducted in Treatment 6. The residues from the decline sampling at two locations (IA-1, MN-1) of Treatment 5 are also presented in this report to provide information on decline of residues in forage and seed. Residues from Treatments 5 and 6 are intended for bridging and decline purposes only, and not for the setting of tolerances. Treatment 8 was an exaggerated rate treatment conducted to generate seed with residues sufficient for determining whether concentration of residues occurred in processed fractions. Reporting of results from Treatments 2, 3, 7 and the portions of Treatment 5 not included in the decline and bridging portions of the study was removed by protocol amendment. The treatments not reported contained application rates and/or application timing not consistent with proposed label recommendations for use of dicamba on dicamba-tolerant soybean, and as such, the results were not relevant to the submission.

The target application timings and rates for Treatments 1, 4, 6 and 8, and the decline and bridging sites of Treatment 5, are summarized in the following table.

Applications of Dicamba Formulations to Dicamba-Tolerant Soybean MON 87708

Treatment	Sites	Formulation	Application Rate lb acid equivalent/acre (kg acid equivalent/hectare)		
			Pre-emergence	V3	R1/R2
1	All	None	-	-	-
4	All	MON 11955	1.0 lb/a (1.12 kg/ha)	0.50 lb/a (0.56 kg/ha)	0.50 lb/a (0.56 kg/ha)
5 ^a	AR, IL-2, IA-1, KS-1, MN-1, MN-2	MON 11955	-	1.0 lb/a (1.12 kg/ha)	1.0 lb/a (1.12 kg/ha)
6	AR, IL-2, KS-1, MN-2	MON 54140	-	1.0 lb/a (1.12 kg/ha)	1.0 lb/a (1.12 kg/ha)
8	NE-1, WI-1	MON 54140	1.0 lb/a (1.12 kg/ha)	-	2.0 lb/a (2.24 kg/ha)

^a Bridging sites in this treatment were at AR, IL-2, KS-1 and MN-2, with two sites (IA-1 and MN-1) also included for determination of residue decline.

There were two formulations used in the treatments described in this report, as listed in the table above. MON 11955 is a soluble concentrate formulation under development at Monsanto. MON 54140¹ is a different soluble concentrate formulation. Treatment 4 reflects the maximum anticipated labeled use for dicamba in dicamba-tolerant soybean in the United States. The residue and processing data will be used to support the pesticide label registration under the U.S. Environmental Protection Agency Residue Chemistry Test Guidelines, OPPTS 860.1500 Crop Field Trials and 860.1520 Processed Food/Feed and is in agreement with requirements in Canada Pest Management Regulatory Agency Directive Dir 98-02, Residue Chemistry Guidelines, Section 9 – Crop Field Trials.

The test system in the study was dicamba-tolerant seed MON 87708. The seed used in the study was also glyphosate-tolerant and was provided by the sponsor.

The analytes in this study were chosen based on the results of a study of the metabolism of dicamba in dicamba-tolerant soybean (Miller and Mierkowski, 2010) in which it was shown that the major metabolite in dicamba-tolerant soybean is a glucose conjugate of 3,6-dichlorosalicylic acid (DCSA, 3,6-dichloro-2-hydroxybenzoic acid). Minor metabolites included another glucose conjugate of DCSA and two glucose conjugates of 3,6-dichlorogentisic acid (DCGA, 2,5-dichloro-3,6-dihydroxybenzoic acid). The method used for the analysis hydrolyzes the conjugates to DCSA and DCGA which are quantified along with dicamba and 5-hydroxydicamba (2,5-dichloro-3-hydroxy-6-methoxybenzoic acid). The LOD and LOQ were statistically determined for each analyte in seed, forage and hay. The LODs ranged from 0.004 to 0.015 ppm for the different analytes and matrices, and the LOQs ranged from 0.005 to 0.021 ppm. The method was validated to 0.010 ppm for the analytes in the processed fractions, but LOQs were not determined.

¹ The composition of MON 54140 is identical to Clarity Herbicide (US registered product, EPA Reg. No. 7969-137) and Banvel II (Canadian registered product, Registration No. 23957). Clarity® and Banvel II® are registered trademarks of BASF Corporation.

The following table summarizes the median and range of residues in seed for each analyte and the total residue according to the current US residue definition for soybean seed (dicamba, DCSA and 5-hydroxydicamba, 40 CFR 180.227). Treatment 4 reflects the planned label-recommended rate and timing for applications in the U.S. Residues from four bridging sites of Treatment 5 (AR, IL-2, KS-1 and MN-2) are presented to match the sites from Treatment 6 and to provide a basis for bridging from MON 11955 (Treatment 5) to MON 54140 (Treatment 6). Individual residues are expressed as the concentration of the analyte per se. Total residues are expressed as dicamba equivalents. None of the residues are corrected for background or recovery.

	Seed Residues, ppm					
	Treatment 4 (MON 11955)		Treatment 5 (MON 11955)		Treatment 6 (MON 54140)	
Analyte	Median ^{a,e}	Range ^b	Median ^c	Range ^d	Median ^a	Range ^b
DCSA	0.031	0.009-0.411	0.089	0.022-0.153	0.082	0.046-0.191
Dicamba	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
5-Hydroxy-dicamba	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021
DCGA	0.017	<0.011-0.136	0.041	0.015-0.123	0.041	0.021-0.139
Total EPA DoR ^{f,g}	<0.065	<0.041-0.471	0.127	<0.055-0.195	0.120	<0.081-0.236

^a Median of residues across all sites in this treatment

^b Range of residues across all sites in this treatment

^c Median of residues across the bridging sites (AR, IL-2, KS-1, MN-2) in this treatment

^d Range of residues across the bridging sites (AR, IL-2, KS-1, MN-2) in this treatment

^e Individual analyte residues are expressed as each analyte per se

^f Total residues are expressed as dicamba acid equivalents

^g Current EPA Definition of the Residue in soybean seed per 40 CFR §180.227

As shown in the above table, the residues in soybean seed resulting from application to dicamba-tolerant soybeans in Treatment 4 are low, with the median total residue at <0.065 ppm and the maximum total residue at 0.471 ppm dicamba acid equivalents, compared to the established tolerance for dicamba at 10 ppm. The residues in seed from the Treatment 6 sites are comparable to those from the same four sites from Treatment 5 in these trials bridging between the two soluble concentrate formulations, thereby showing that residue data supporting MON 11955 are also representative for the MON 54140² formulation.

A summary of the residues in forage cut seven days after the R1/R2 stage is provided in the table below. Median total residues for forage from Treatment 4 were 15.2 ppm, with a range up to 51.2 ppm dicamba acid equivalents. The majority of the residue was attributable to DCSA residues; residues of DCGA were considerably lower than residues

² The composition of MON 54140 is identical to Clarity Herbicide (US registered product, EPA Reg. No. 7969-137) and Banvel II (Canadian registered product, Registration No. 23957). Clarity® and Banvel II® are registered trademarks of BASF Corporation.

of DCSA. Residues of dicamba were fairly low, at a median of 0.068 ppm, while the median residue of 5-hydroxydicamba was below the LOQ. Residues in forage from Treatment 6 and the comparable plots from Treatment 5 were similar, showing that the two formulations, MON 11955 and MON 54140, produce comparable residues in forage.

	Forage Residues, ppm					
	Treatment 4 (MON 11955)		Treatment 5 (MON 11955)		Treatment 6 (MON 54140)	
Analyte	Median ^{a,e}	Range ^b	Median ^c	Range ^d	Median ^a	Range ^b
DCSA	14.0	8.34-47.9	33.7	26.1-54.1	35.9	19.1-49.3
Dicamba	0.068	<0.021-2.62	0.075	<0.021-0.799	0.080	<0.021-1.15
5-Hydroxy- dicamba	<0.005	<0.005- 0.010	0.007	<0.005-0.019	0.006	<0.005-0.022
DCGA	1.95	0.359-5.95	1.82	0.912-4.08	1.90	0.897-5.26
Total EPA DoR ^{f,g}	15.2	10.0-51.2	36.0	28.4-57.8	38.9	20.4-52.7

^a Median of residues across all sites in this treatment

^b Range of residues across all sites in this treatment

^c Median of residues across the bridging sites (AR, IL-2, KS-1, MN-2) in this treatment

^d Range of residues across the bridging sites (AR, IL-2, KS-1, MN-2) in this treatment

^e Individual analyte residues are expressed as each analyte per se

^f Total residues are expressed as dicamba acid equivalents

^g Consistent with the current EPA Definition of the Residue in soybean seed per 40 CFR §180.227

The hay was cut at approximately 14 days after the R1/R2 growth stage. The median total residue of DCSA, dicamba and 5-hydroxydicamba from Treatment 4 for hay was 31.9 ppm dicamba acid equivalents, most of which was attributable to DCSA residues. Residues of DCGA were considerably lower than residues of DCSA in hay. Residues of dicamba were low at a median of 0.051 ppm while all residue detections of 5-hydroxydicamba were below the LOQ. Residues in hay from the bridging sites in Treatments 5 and 6 were comparable, demonstrating that the residues resulting from application in Treatment 4 of MON 11955 are representative of residues resulting from the same application rate and timing of MON 54140. A summary of the residues is provided in the table below.

	Hay Residues, ppm					
	Treatment 4 (MON 11955)		Treatment 5 (MON 11955)		Treatment 6 (MON 54140)	
Analyte	Median ^{a,e}	Range ^b	Median ^c	Range ^d	Median ^a	Range ^b
DCSA	29.8	11.4-57.1	84.6	34.0-128	93.5	23.4-134
Dicamba	0.051	<0.014-1.16	0.076	0.016-0.291	0.090	<0.014-0.322
5-Hydroxy-dicamba	<0.014	<0.014	<0.014	<0.014-0.033	<0.014	<0.014-0.034
DCGA	2.02	0.169-7.33	3.72	1.97-5.97	4.25	2.19-6.81
Total EPA DoR ^{f,g}	31.9	12.2-61.1	90.6	36.3-137	100	25.0-143

^a Median of residues across all sites in this treatment

^b Range of residues across all sites in this treatment

^c Median of residues across the bridging sites (AR, IL-2, KS-1, MN-2) in this treatment

^d Range of residues across the bridging sites (AR, IL-2, KS-1, MN-2) in this treatment

^e Individual analyte residues are expressed as the each analyte per se

^f Total residues are expressed as dicamba acid equivalents

^g Consistent with the current EPA Definition of the Residue in soybean seed per 40 CFR §180.227

In summary, the residues in the soybean seed from dicamba applications to dicamba-tolerant soybean MON 87708 were low. The majority of the residue was comprised of DCSA and DCGA, with the ratio of DCSA to DCGA being generally approximately 2:1. Residues of dicamba and 5-hydroxydicamba in soybean seed were below the LOQ for all samples in all treatments. In forage and hay, the major residues were those related to DCSA, with much lower residues attributable to the DCGA class of metabolites. Residues of dicamba in forage and hay were low with median residues below 0.1 ppm for all treatments. Residues of 5-hydroxydicamba were near or below the LOQ in forage and hay from all treatments.

Decline sampling for forage was conducted at the IA-1 and MN-1 sites in Treatment 5. The forage samples were taken at 3, 7, 10 and 14 days after application. The average residue in forage from each of the analytes is provided in the table below, and the total of the DCSA, dicamba and 5-hydroxydicamba residues is also provided. The table below shows a clear decline in forage residues with increasing time after application at both sites.

		Average Residues of Dicamba in Soybean Forage from Decline Sampling				
Site Code	Pre-Harvest Interval (days)	DCGA (ppm)^b	DCSA (ppm)^b	Dicamba (ppm)	5-Hydroxy-dicamba (ppm)^b	Total EPA DoR^a (ppm)
IA-1	3	5.44	44.3	0.082	0.007	47.4
IA-1	7	2.86	26.1	<0.021	<0.005	27.8
IA-1	10	2.58	24.2	<0.021	<0.005	25.8
IA-1	14	1.88	13.7	<0.021	<0.005	14.7
MN-1	3	2.95	32.2	0.919	0.008	35.3
MN-1	7	3.12	23.8	0.411	<0.006	25.8
MN-1	10	1.81	20.7	0.046	<0.005	22.2
MN-1	14	1.66	16.9	<0.021	<0.005	18.0

^a Current EPA Definition of the Residue in soybean seed per 40 CFR §180.227 expressed as dicamba acid equivalents

^b Residues are expressed as each analyte per se

Decline sampling was conducted for soybean seed at nominal times of 7 days prior to normal harvest, normal seed harvest, and at 7 days and 14 days after normal seed harvest. The residues in seed were low, and consequently the decline in residues was not noticeable in seed, as is shown in the data in the table below.

		Average Residues of Dicamba in Soybean Seed from Decline Sampling				
Site Code	Pre-Harvest Interval (days)	DCGA (ppm)^b	DCSA (ppm)^b	Dicamba (ppm)	5-Hydroxy-dicamba (ppm)^b	Total EPA DoR^a (ppm)
IA-1	73	0.024	0.019	<0.013	<0.021	<0.052
IA-1	80	0.017	0.019	<0.013	<0.021	<0.052
IA-1	87	0.022	0.019	<0.013	<0.021	<0.052
IA-1	94	0.023	0.018	<0.013	<0.021	<0.051
MN-1	78	0.081	0.075	<0.013	<0.021	0.113
MN-1	88	0.058	0.070	<0.013	<0.021	0.107
MN-1	92	0.081	0.074	<0.013	<0.021	0.111
MN-1	100	0.072	0.067	<0.013	<0.021	0.104

^a Current EPA Definition of the Residue in soybean seed per 40 CFR §180.227 expressed as dicamba acid equivalents

^b Residues are expressed as each analyte per se

Separate bulk samples of seed from two sites (NE-1 and WI-1) were generated in Treatment 1 (control) and in Treatment 8 which used a rate 50% higher than the maximum yearly application of dicamba in order to generate seed with residues sufficient to discern any concentration or reduction in residues in the processed fractions. The

residues of dicamba and 5-hydroxydicamba were below the LOQ in all seed samples from Treatment 4 and in the seed from the exaggerated rate application in Treatment 8; therefore, the processing factors were calculated based only on the residues of DCSA or DCGA. The average processing factors based on DCSA or DCGA are summarized in the table below.

Fraction	Average DCSA Concentration Factor	Average DCGA Concentration Factor
Hulls	1.40	0.99
Toasted Defatted Meal	1.35	1.30
Degummed Oil	<0.11	<0.13
RBD Oil	<0.11	<0.13
Crude Lecithin	<0.18	<0.13
Defatted Flour	1.26	1.25
Protein Isolate	<0.16	<0.15
Protein Concentrate	<0.12	<0.14
Soymilk	<0.12	<0.13
Tofu	<0.12	<0.13

Most processed fractions showed extremely low residues, including the degummed oil, RBD oil, crude lecithin, protein isolate, protein concentrate, soymilk and tofu fractions, all of which were below the LLMV. Because the LOQ could not be determined based on the limited number of samples for processed fractions, the LLMV of 0.01 ppm was used in the calculation of the processing factors in those cases where the processing fraction residues of DCSA or DCGA were below the LLMV. Of the ten processed fractions generated in this study, only the hulls, toasted defatted meal and defatted flour showed residues higher than the seed from which these commodities were generated. The concentration factor for the hulls and meal from each site was well below the theoretical concentration factors of 11.3 and 2.2 for hulls and meal, respectively (US EPA OPPTS Test Guideline 860.1520 Processed Food/Feed).

2 INTRODUCTION / BACKGROUND

Dicamba (3,6-dichloro-2-methoxybenzoic acid) is a selective benzoic acid herbicide registered for the postemergence control of certain broadleaf weeds and woody plants. It was first registered in the United States in 1967, and is widely used in agricultural, industrial and residential settings. Dicamba is an acid which forms salts in aqueous solutions. Various dicamba salts are formulated for herbicidal use, including the dimethylamine, sodium and diglycolamine salts. Dicamba salts are registered for use on corn, pasture and rangeland grasses, oats, sorghum, soybean, sugarcane, wheat, barley right-of-way areas, and asparagus.

The current registration for use of dicamba on soybean is as a preemergence application at least 14-28 days prior to planting depending upon the application rate and the rainfall after application. The other registered use of dicamba on soybean is as a pre-harvest application, i.e., after plants have reached maturity, at least fourteen days prior to harvest.

This study is being conducted on soybean genetically modified to be tolerant of postemergence and preemergence (at planting) dicamba applications. This study provides data on the residue levels of dicamba and three other analytes representing dicamba residues in or on soybean raw agricultural commodities and processing fractions following application of formulations of dicamba at the preemergence, V3 and R1/R2 growth stages. An exaggerated application rate was used for the soybean seed produced for processing in order to maximize the potential for measurable residues.

The study followed U.S. EPA OPPTS Residue Chemistry Test Guidelines, Section 860.1500 Crop Field Trials and Section 860.1520 Processed Food/Feed, and was in agreement with Canada Pest Management Regulatory Agency Directive DIR 98-02, Residue Chemistry Guidelines, Section 9 – Crop Field Trials. Field and analytical work was conducted under the U.S. EPA FIFRA Good Laboratory Practice Standards.

3 PURPOSE

The purpose of this study was to determine the residues of dicamba and its principal metabolites resulting from application of dicamba herbicide formulations to dicamba-tolerant soybean MON 87708. This report presents only the results of the analyses of the treatment consistent with the timing and rates to be recommended on the label, and the results of bridging trials to compare the residues resulting from use of a newly developed dicamba formulation to those of MON 54140³. Results of the analyses of the samples from the two decline sites are also presented to show the effect of increasing time after application on the residues in forage and seed.

Treatment 8 was conducted at two sites for the purpose of generating seed to be used in simulated commercial processing to generate matrices for analysis to evaluate the concentration or reduction of residues in processed fractions. Extensive processing was conducted, resulting in the generation of the following processed fractions: hulls, toasted defatted meal, defatted flour, degummed oil, refined bleached deodorized (RBD) oil, crude lecithin, soymilk, tofu, protein concentrate and protein isolate.

These data will be used for the purpose of proposing tolerances in soybean commodities to support pesticide label registration under the U.S. Environmental Protection Agency Residue Chemistry Test Guidelines, OPPTS 860.1500, Crop Field Trials, and OPPTS 860.1520, Processed Food/Feed and Canada Pest Management Regulatory Agency Directive Dir 98-02, Residue Chemistry Guidelines, Section 9 – Crop Field Trials.

³ The composition of MON 54140 is identical to Clarity Herbicide (US registered product, EPA Reg. No. 7969-137) and Banvel II (Canadian registered product, Registration No. 23957). Clarity® and Banvel II® are registered trademarks of BASF Corporation.

4 MATERIALS

4.1 Identification of the Test Substances

4.1.1 Test Substance 1

Test Substance 1 was MON 54140, a water soluble formulation. The active ingredient is dicamba, formulated as the diglycolamine salt. The nominal concentration of dicamba acid equivalent is 480 g /L or 4 lb /gal.

Monsanto Code Number:	MON 54140
EPA Registration Number:	7969-137
Registration Number (Canada):	PCP#23957
Trade Name:	Clarity®, or Banvel II Herbicide in Canada
Lot Number:	GLP-0804-19315-F
Formulation Type:	Soluble concentrate

Active Ingredient

Common Name:	dicamba
Chemical Name:	3,6-dichloro-2-methoxybenzoic acid, diglycolamine salt
CAS Registry Number:	104040-79-1

4.1.2 Test Substance 2

Test substance 2 was a water soluble formulation. The active ingredient is dicamba, formulated as the monoethanolamine salt. The nominal concentration of dicamba acid equivalent is 4 lb dicamba acid equivalent per gallon.

Monsanto Code Number:	MON 11955
EPA Registration Number:	n/a
Trade Name:	n/a
Lot Number:	GLP-0803-19268-F
Formulation Type:	Soluble concentrate

Active Ingredient

Common Name:	dicamba
Chemical Name:	3,6-dichloro-2-methoxybenzoic acid, monoethanolamine salt
CAS Registry Number:	n/a

4.2 Characterization of the Test Substances

The test substances were characterized under GLP prior to their shipment for use in the study.

4.3 Stability of the Test Substances

MON 54140 has been demonstrated to be stable for 30 days at 54 ± 5 °C, and for one year at 25 ± 9 °C. No significant changes in pH and water dilutability were observed after storage in HDPE after one year at 25 ± 9 °C (MRID 43758504).

The stability of MON 11955 was determined concurrent with the residue study in ongoing stability studies. Analyses of MON 11955 were conducted at 3-month intervals for nine months for samples stored at 30 °C and through three months for samples stored at 40 °C. MON 11955 was found to be stable for the storage periods evaluated based on the assays. In addition, there was no change in the appearance of the formulation during the course of the study (McMullan, 2009). The data demonstrate the stability of MON 11955 during the period of use of this test substance in the study.

4.4 Reference Substances

4.4.1 Identification of Reference Standards

Common Name:	Dicamba
Chemical Name:	3,6-dichloro-2-methoxybenzoic acid
CAS Registry Number:	1918-00-9
Monsanto Code Number:	MON 11900
Lot Number:	GLP-0605-17340-A
Molecular Weight:	221.04 g/mol
Common Name:	Dichlorosalicylic acid (DCSA)
Chemical Name:	3,6-dichloro-2-hydroxybenzoic acid
CAS Registry Number:	3401-80-7
Lot Number:	GLP-0605-17341-A
Molecular Weight:	207.01 g/mol
Common Name:	5-Hydroxydicamba
Chemical Name:	2,5-dichloro-3-hydroxy-6-methoxybenzoic acid
CAS Registry Number:	7600-50-2
Lot Number:	GLP-0704-18561-A
Molecular Weight:	237.04 g/mol
Common Name:	Dichlorogentisic acid (DCGA)
Chemical Name:	2,5-dichloro-3,6-dihydroxybenzoic acid
CAS Registry Number:	18688-01-2
Lot Number:	GLP-0708-18951-A
Molecular Weight:	223.01 g/mol

The structures of the reference standards are provided in Figure 1.

4.4.2 Identification of Internal Standards

Common Name: ^{13}C -Dicamba
Chemical Name: 3,6-dichloro-2-methoxybenzoic-1,2,3,4,5,6- $^{13}\text{C}_6$ acid
CAS Registry Number: 1173023-06-7
Lot Number: GLP-0609-17622-A
Molecular Weight: 227.04 g/mol

Common Name: ^{13}C -Dichlorosalicylic acid (DCSA)
Chemical Name: 3,6-dichloro-2-hydroxybenzoic-1,2,3,4,5,6- $^{13}\text{C}_6$ acid
CAS Registry Number: 1173019-34-5
Lot Number: GLP-0609-17623-A
Molecular Weight: 213.01 g/mol

Common Name: ^{13}C -5-Hydroxydicamba
Chemical Name: 2,5-dichloro-3-hydroxy-6-methoxybenzoic-1,2,3,4,5,6- $^{13}\text{C}_6$ acid
Lot Number: GLP-0804-19331-A
Molecular Weight: 242.99 g/mol

Common Name: ^{13}C -Dichlorogentisic acid (DCGA)
Chemical Name: 2,5-dichloro-3,6-dihydroxybenzoic-1,2,3,4,5,6- $^{13}\text{C}_6$ acid
Lot Number: GLP-0804-19332-A
Molecular Weight: 228.96 g/mol

5 METHODS

5.1 Field Procedures

5.1.1 Study Overview

The objective of this study was to provide data on the magnitude of the residues of dicamba in soybean raw agricultural commodities and processed fractions after split applications of dicamba formulations. The study was conducted at twenty-two sites across the soybean-growing areas of the United States with several sites situated across the northern tier of states to represent Canadian field trial conditions.

An untreated control plot (Treatment 1) and the Treatment 4 plot were situated at all twenty-two sites. Treatment 5 was conducted at all twenty-two sites, but the results from only the decline sampling (IA-1 and MN-1) and the bridging sampling (AR, IL-2, KS-1 and MN-2) are provided in this report. At four sites (AR, IL-2, KS-1 and MN-2) treated plots were included in Treatments 6 to bridge between MON 54140 used in Treatment 6 and MON 11955 used in Treatment 5. MON 11955 is a dicamba monoethanolamine salt formulation under development by Monsanto, and MON 54140 is Clarity®, a dicamba diglycolamine salt formulation marketed by BASF Corporation.

Treatment 8 included two sites (NE-1 and WI-1) at which an exaggerated rate of the test substance was applied with the objective of producing soybean seed with measurable residues for processing.

This report contains the results of analysis of RAC samples from Treatment 4, which represents the rate and timing for dicamba applications to be recommended on the proposed label. That treatment was conducted with MON 11955 with application of 1 lb a.e./acre preemergence and 0.5 lb a.e./acre at the V3 growth stage and 0.5 lb a.e./acre at the R1/R2 growth stage. Also included in this report are the results from four sites from Treatments 5 and 6 where the treatments bridge between MON 11955 and MON 54140, and were conducted with application of 1 lb a.e./acre at V3 and 1 lb a.e./acre at R1/R2. The results of analysis from the decline sampling of forage and seed at two sites in Treatment 5 are also presented in this report. The residues of dicamba in processed fractions generated from seed produced at two sites in Treatment 8 were quantified and the concentration factors were calculated.

While only the results of the residue analyses described in the previous paragraph are presented in this report, the field report contains all of the field data generated in the study.

5.1.2 Test System

The test system used in all control and treated plots was dicamba-tolerant soybean MON 87708; in addition to the dicamba tolerance trait, these seeds were stacked with the glyphosate-tolerance trait.

5.1.3 Trial Management and Locations

The field phase of the study was conducted at twenty-two sites, distributed according to requirements in OPPTS 860.1500, with two extra sites in Region 5. The sites were representative of commercial soybean-production areas, including soil types and pesticide use. A map of the locations is provided in Figure 1 of the Field Report in Appendix 2. The sites were chosen with the intent of including several sites in the northern states that would be representative of Canadian soybean-growing conditions.

The table below provides information on the distribution of the soybean field trials and the percent of the total US soybean acreage planted with soybean in the states in which the trials were located.

Distribution of Soybean Field Trials

EPA Region	Site Code(s)	State	Percent of Total US 2008 Soybean Acres Planted in This State*
2	GA	Georgia	0.57
2	SC	South Carolina	0.71
4	LA	Louisiana	1.39
4	AR	Arkansas	4.36
4	MO	Missouri	6.87
5	IL-1, IL-2	Illinois	12.15
5	IN	Indiana	7.20
5	IA-1, IA-2	Iowa	12.88
5	KS-1, KS-2	Kansas	4.36
5	MI	Michigan	2.51
5	MN-1, MN-2	Minnesota	9.31
5	NE-1, NE-2	Nebraska	6.47
5	ND-1	North Dakota	5.02
5	SD-1, SD-2	South Dakota	5.41
5	WI-1, WI-2	Wisconsin	2.13
		Total	81.34

* Source: http://www.nass.usda.gov/QuickStats/PullData_US.jsp

The states included in this field trial represented 81.34% of the total soybean acres planted in the U.S. in 2008, according to crop production acreage data from the USDA National Agricultural Statistics Service.

5.1.4 Site Preparation and Layout, and General Site Data

At each field site, five treated plots (Treatments 2, 3, 4, 5 and 7) and one untreated control plot (Treatment 1) were established using dicamba-tolerant soybean MON 87708. At four sites, an additional treated plot (Treatment 6) was established for use in bridging to Treatment 5. At two sites, an exaggerated rate of MON 54140 (Treatment 8) was applied to dicamba-tolerant soybean MON 87708 for use in generating seed for processing. Only the residue data from Treatments 1, 4, 6 and 8 and the bridging and decline sites from Treatment 5 are presented in this report. After analysis, treatments which were not representative of the proposed label uses of dicamba were removed from the study by protocol amendment.

The field histories, including crops grown and pesticides used, were obtained for the previous two years (2006-2007) at each test site. Maintenance chemicals used during the conduct of the study were recorded in the field notebook. Detailed information on field history and maintenance chemicals is provided in the Field History Section of Tables I - XXII of the Field Report in Appendix 2 of this report.

The soil types ranged from loamy sand to clay loam, and were typical of the soils in the major soybean-growing regions of North America. The size of the treated plots ranged from 1000 to 3600 square feet, with the typical size for the conventional (not decline or processing) control and treated plots at 1000 to 1200 square feet. The minimum distance between the control plot and the nearest treated plot was 100 feet. All plots were

appropriately staked and labeled. Detailed information on soil type and plot size is located in Tables I to XXII of the Field Report in Appendix 2. Plot diagrams are located in Figures A through V of the Field Report in Appendix 2 of this report.

5.2 Test Substance Application

5.2.1 Treatment Method, Rate and Time of Application

Prior to each application, sprayers were calibrated by the time/volume method. An example of the test substance concentration calculation is provided in the Field Report under the heading “Example Test Substance Concentration Calculation”. Test substance application calculations were verified by the Field Management Research Contractor after each application. All treatments were done by broadcast application. The treatment number, rate and timing of test substance applications described in this report are shown in the table below.

Treatment	Sites	Formulation	Application Rate lb acid equivalent/acre (kg acid equivalent/hectare)		
			Pre-emergence	V3	R1/R2
1	All	None	-	-	-
4	All	MON 11955 ^a	1.0 lb/a (1.12 kg/ha)	0.50 lb/a (0.56 kg/ha)	0.50 lb/a (0.56 kg/ha)
5 ^a	AR, IL-2, IA-1, KS-1, MN-1, MN-2	MON 11955 ^a	-	1.0 lb/a (1.12 kg/ha)	1.0 lb/a (1.12 kg/ha)
6	AR, IL-2, KS-1, MN-2	MON 54140 ^a	-	1.0 lb/a (1.12 kg/ha)	1.0 lb/a (1.12 kg/ha)
8	NE-1, WI-1	MON 54140 ^a	1.0 lb/a (1.12 kg/ha)	-	2.0 lb/a (2.24 kg/ha)

^a Contains 4 lb. dicamba acid equivalents per gallon or 480 grams per liter

^b Two sites (IA-1 and MN-1) represent residue decline sites, and the remaining four sites bridge to Treatment 6.

At the NE-1 and WI-1 sites, an exaggerated rate of dicamba was applied at the times shown for Treatment 8 in the above table to generate seed for processing. The exaggerated rate was used with the intent that the seed residue would be high enough to provide reliable data to determine whether residues concentrated in the commodities generated in the processing.

Each of the application solutions contained a nonionic surfactant (NIS) (80% minimum active) added at a rate of 1 pint per 100 gallons of spray solution, except at the IA-1 and IA-2 sites where NIS was added to all preemergence treatments at the rate of 0.5 pint per 100 gallons, and at site WI-2 where NIS was added to all preemergence application solutions at a rate of 2.0 pints per 100 gallons. Additionally, “spray grade” ammonium sulfate (AMS) was added to the spray solution for the postemergence applications at a rate of 17 lb per 100 gallons of spray solution.

5.2.2 Types of Applications

The **preemergence** applications were conventional broadcast spray applications that were made after planting but prior to crop emergence.

The **V3 postemergence** applications were made when the soybean plants had trifoliate leaves at three nodes.

The **R1/R2 postemergence** applications were made when the soybean plants were between beginning flower (open flower at any node on the main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

All postemergence applications made at the above vegetative and reproductive growth stages were made when at least 50% of the plants were at the specified growth stage.

5.2.3 Application Procedures

The equipment used was typical of small plot research equipment that closely simulated commercial equipment. Backpack, hand-held or tractor-mounted sprayers were used to make all applications. Application equipment was calibrated before application of the test substance on the same day as the application or the day before application. If calibration was conducted on the day preceding application, a calibration check was conducted prior to application. Details of the application equipment are provided in Tables I to XXII of the Field Report in Appendix 2 of this report. All applications were verified by the time/volume technique, which is based on the output per time and travel speed.

All test substance applications were within $\pm 5\%$ of the target rate, except at the IA-1 and WI-1 sites where some test substance application rates exceeded the $\pm 5\%$ target range. Application information is provided for each site in Tables I through XXII in the Field Report in Appendix 2. A summary of the treatments and application rate for each test site is provided in Summary Table 1 of the Field Report.

Included in the application information in Tables I to XXII are the target and actual application rates, spray volume, growth stage, date and weather details. There were no environmental problems that would affect the rate, distribution or application of the test substance.

5.2.4 Crop Growth and Development

There were no reports of adverse effects noted in the development of the crops.

5.2.5 Sampling Procedures

The following soybean raw agricultural commodities were collected in this study:

Soybean seed is the mature seed without the pod.

Soybean forage is the whole aerial portion of the plant cut 7 ± 1 days after the R1/R2 growth stage. This harvest was at least seven days after the last application in each treatment.

Soybean hay is the whole aerial portion of the plant cut 14 ± 1 days after the R1/R2 growth stage. The hay was field-dried to a moisture content of 10 to 20 percent.

Soybean raw agricultural commodities were collected at a typical commercial harvest stage. In addition, at the IA-1 and MN-1 sites, forage samples from Treatment 5 were also collected at the following times:

- 3 days after the final application

- 7 days after the final application
- 10 days after the final application
- 14 days after the final application

Seed samples were collected from the same two sites from Treatment 5 at the following nominal times:

- 7 days before normal seed harvest
- Normal seed harvest
- 7 days after normal seed harvest
- 14 days after normal seed harvest

The target sampling times were achieved except that the “normal” seed harvest was ten days after the first seed sampling and only four days before the third seed sampling at one site. At each sampling, two replicate samples were collected from each treated plot and one sample from each control plot. Samples were collected first from the untreated control plots, and then from the treated plots. Each sample was composited from at least twelve separate sub-samples collected from different locations in the plot. Sampling equipment included hand pruners, shears, sickles and hedge trimmers for forage and hay collection. Seed samples were collected using a combine. Control and treated plots sampled at the same site were harvested on the same day, and samples were placed into sample bags with bar-coded labels supplied by the sponsor. The only exception is that only one control sample was harvested for forage and seed at the sites collecting decline samples although decline samples were harvested on four separate days. The treated plots were sampled in the order: Treatment 2, Treatment 3, Treatment 4, Treatment 5, Treatment 6 (at bridging sites), Treatment 8 (at processing sites), and finally, Treatment 7. Sampling equipment was inspected and cleaned before leaving the plots. Remaining soybean plants and seeds were destroyed according to APHIS regulations. Detailed sample collection information is in Tables I to XXII of the Field Report in Appendix 2.

Control and treated samples were transported from the field in coolers with blue ice, dry ice or wet ice (encased in plastic), or in transport freezers. At some sites, hay samples were brought to the field facility for drying on racks, and were placed directly into freezers when they reached the appropriate dryness. Samples remained frozen prior to and during shipment to the analytical facility at Monsanto Company. The bulk soybean seed for processing was shipped frozen to the processing facility, GLP Technologies.

RAC samples were stored frozen at the field until shipping by freezer truck to the Monsanto analytical facility in St. Louis, Missouri. All RAC samples were received frozen and in good condition at the sponsor facility.

5.3 Processing Procedures

Processing was conducted at GLP Technologies, Inc., under small-scale conditions which simulated commercial soybean processing methods. Details of the processing, including the material balance of the processed fractions, are provided in the Processing Report which is located in Appendix 3. All processed fractions were shipped to the analytical lab on dry ice via Federal Express. They were received frozen and in good condition at the sponsor facility.

5.4 Analytical Methods

5.4.1 Justification for the Analytical Method

The study of the nature of the residue (Miller and Mierkowski, 2010) demonstrated that, in dicamba-tolerant soybean, dicamba is metabolized mainly to a glucose conjugate of 3,6-dichloro-2-hydroxybenzoic acid (DCSA), with smaller amounts of conjugates of 2,5-dichloro-3,6-dihydroxybenzoic acid (DCGA) and another glucose conjugate of DCSA. Dicamba was present at very low levels. Another metabolite, 2,5-dichloro-3-hydroxy-6-methoxybenzoic acid (5-hydroxydicamba), which is observed in corn, was not found as a metabolite of dicamba in dicamba-tolerant soybean. The conjugates are very complex molecules which are not readily synthesized to produce analytical reference standards. Because of the difficulty in synthesizing and quantifying the conjugates, a method was developed in which the conjugates are converted by hydrolysis to DCSA and DCGA for residue analysis.

The suitability of the method for quantifying the residues of dicamba was evaluated in an analytical method validation which included both radiovalidation and validation by fortification of the matrices with analytical reference standards (Foster, Mierkowski and Miller, 2010). The radiovalidation was conducted on pre- and post-emergence hay and postemergence seed samples, and the results demonstrated that the extractability of the radioactive residues was comparable to the extractability found in the dicamba soybean metabolism study (Miller and Mierkowski, 2010), and that there was generally good agreement between the LC/MS/MS quantitation results and actual residue levels. Discussion of the validation of the method using exogenous fortification is described in Section 5.4.3.

5.4.2 Analytical Method

As stated in Section 5.4.1, the residue method for quantitation of residues of dicamba and its metabolites converted the conjugates to DCSA and DCGA. The method also quantified residues of dicamba and 5-hydroxydicamba. The soybean matrices were extracted using 40:60 acetonitrile:water. An aliquot of the extract was hydrolyzed in 1N HCl at 95 °C in a water bath. The hydrolysate was then partitioned with 40:60 ethyl acetate:isooctane, and the organic phase was partially concentrated. Water was added to the organic phase, and each sample was concentrated until only the aqueous solution remained. The samples were then filtered, acidified, and quantitated by LC/MS/MS with turbo ion spray ionization in negative ion mode. The method used ¹³C-labeled internal standards to correct for matrix effects which were observed in matrices tested during method development.

Some modifications to the method, mainly in the sample preparation step, were necessary to achieve acceptable results in the analysis of processed fractions. These modifications are detailed in Appendix B of the method, which is found in Appendix 4 of this report.

The method was validated prior to use in the analysis of treated samples, and continued evaluation of the method performance was obtained by the analysis of procedural recovery samples with every analysis set.

5.4.3 Method Precision and Accuracy

During validation, very good precision and accuracy were obtained at the 0.01 ppm LLMV for all analytes in soybean forage and hay with accuracy ranging from 80 to 110%, and RSDs from 3 to 9.5%. In soybean seed, the accuracy and precision for dicamba, DCSA and DCGA at the 0.01 ppm LLMV ranged from 96 to 106%, with RSDs of 3 to 6%. The acceptance criterion for accuracy (average of 70-120%) was not consistently met for 5-hydroxydicamba at the 0.01 ppm level in soybean seed, but was met at the 0.02 ppm fortification level during the validation. The average recovery from fortification with 5-hydroxydicamba at 0.01 ppm during the analysis of treated samples was greater than 70%; however, the RSD was high (39%). Validation results may be found in Appendix D of the analytical method which is provided in Appendix 4 of this report.

The precision and accuracy for determination of dicamba, 5-hydroxydicamba, DCSA and DCGA were verified in soybean processed fractions, including soybean hulls, defatted flour, toasted defatted meal, protein isolate, protein concentrate, crude lecithin, degummed oil, RBD oil, soymilk and tofu. The precision and accuracy were very good at all tested concentration levels of DCSA, DCGA and dicamba. Acceptable accuracy for 5-hydroxydicamba in defatted flour was only achieved at fortifications of 0.050 ppm and above during validation, but during analysis of the actual processing samples, the accuracies (recoveries) from the fortified samples of defatted flour were excellent. Very good recoveries of 5-hydroxydicamba were obtained in validation with the other processed fraction matrices. Full results of the verification of recoveries in soybean processed fractions are provided in Appendix E of the analytical method which is located in Appendix 4 of this report.

5.4.4 Method Accuracy

Fortifications for the purpose of determining procedural recoveries were conducted during the analytical phase of the study for all four analytes at concentrations ranging from 0.01 to 5.0 ppm in seed and from 0.01 to 150 ppm in forage. In hay, fortifications of DCSA and DCGA were conducted at concentrations ranging from 0.01 to 150 ppm, while fortifications of dicamba and 5-hydroxydicamba were conducted at concentrations of 0.01 to 50 ppm and 0.01 to 0.4 ppm, respectively. Additional fortified samples at levels of 0.0005 and 0.001 ppm were prepared and analyzed at the request of the Monsanto Regulatory statistician for use in the determination of the LOD and LOQ. These fortification levels were well below the lower limit of method validation and were conducted only for use in the statistical analysis. As such, these data were not used to determine acceptability of residue analyses and are reported only in the statistical analysis, which may be found in Appendix 5 and in the detailed recovery data which is provided in Appendix 6.

The results of the analyses of fortified seed, forage and hay to determine procedural recoveries are summarized in Table 24, Table 25, and Table 26, respectively. The data in Tables 24 to 26 and the complete detailed recovery data provided in Appendix 6 represent the results of all fortified samples analyzed in the study. These data provide extensive information on the reliability of the analytical method.

The recovery of the method varied depending upon the matrix and the fortification level. As shown in Table 24, the average percent recovery for DCSA in seed ranged from 96.5 to 112%. Except at the lowest fortification level of 0.01 ppm, the relative standard deviation (RSD) was less than 10%. Recoveries of DCGA in seed ranged from 81.6 to 102% in the 0.01 to 0.4 ppm fortification range, providing acceptable accuracy. The recoveries were more variable than had been observed for DCSA in seed, with RSDs generally above 10%. Recoveries at the 1.0 and 5.0 ppm fortification levels were slightly high at 121 and 124 %, respectively, although these fortification levels are far above the observed levels of DCGA in treated seed.

Average recoveries of dicamba in seed were generally in the 90-110% range, except at the 0.01 ppm fortification level, where the average recovery for seed was 82.2%, with a 22.9% RSD. The RSD for dicamba recoveries at the 0.02 ppm level was 12.2%, but the RSDs at other fortification levels were below 10%. The average recovery of 5-hydroxydicamba in seed from fortification at 0.01 ppm was 73.6% with an RSD of 39.3%. Better accuracy (average of 92 to 94%) was obtained from fortification at 0.02 ppm and 0.05 ppm, although the RSDs were high at 19.4 and 11.3%, respectively. At other fortification levels, recoveries of 5-hydroxydicamba in seed averaged 90 to 111%, with RSDs below 10% from fortifications at 0.10 to 0.4 ppm.

Recoveries from fortification of forage samples with DCSA and DCGA were generally very good, ranging from approximately 85 to 110%, as shown in Table 25. The RSDs were generally at or below 10%, except for the fortifications with DCGA at the 0.05 and 0.20 ppm levels, where the RSDs were 13.7 and 17.1%, respectively. As had been noted for seed, the fortifications with dicamba and 5-hydroxydicamba in forage at the 0.01 ppm level resulted in considerable variation in results, as shown by the higher RSD for samples fortified at 0.01 ppm. In the range of 0.02 to 50 ppm, dicamba recoveries generally averaged 90 to 110%. Recoveries of 5-hydroxydicamba at fortification levels of 0.02 to 0.50 ppm ranged from approximately 94 to 110%, with RSDs in the range of 5 to 11%.

Recoveries in the analyses of fortified hay controls were generally very good for DCSA, where the average percent recovery ranged from 91.0 to 111%, as reported in Table 26. The precision was good at fortifications from 0.05 to 0.4 ppm, with RSDs under 6%. More variability was seen in the fortifications of DCSA at 0.01 and 0.02 ppm, with RSDs of 16.6 and 10.6%, respectively. At higher fortification levels of DCSA ranging from 5 to 150 ppm, recoveries were very good, but only two samples were fortified at each of these levels. Procedural recoveries for DCGA in hay were good, with averages ranging from 77.6 to 115%, although the higher RSDs at many of the fortification levels showed that there was lower precision. The RSDs ranged from 6.73% for the 50 ppm fortification to 18.8% for the 0.4 ppm fortification. The accuracy in the analyses of hay samples fortified with dicamba ranged from 94.7% to 116%. More variability was seen in these analyses, with RSDs exceeding 10% in the fortifications at 0.01, 0.02, 0.05 and 0.2%. The precision was especially poor at the 0.01 ppm fortification level where the RSD was 28.6%. In the fortification of hay at 0.01 ppm with 5-hydroxydicamba, the mean recovery was 64.5%, with an RSD of 30.3%. Accuracy was better in analyses of samples fortified at 0.02 to 0.40 ppm, ranging from mean values of 86 to 104%, although the RSD from the 0.02 ppm fortifications was 13%. Acceptable precision was obtained

in the analyses of fortifications with 5-hydroxydicamba at 0.05 and 0.1 ppm. Only two samples and one sample were fortified at 0.20 and 0.40 ppm, respectively, but the accuracy was very good in the limited analyses at these fortification levels.

Recoveries for the processed fractions were generally very good. Detailed results from determination of recovery in the fortified processed fractions are provided in Table 27.

5.4.5 LOD and LOQ of the Analytical Method

The results of the analyses of control and fortified samples were used in the statistical analysis to determine the LOD and LOQ of the method. This analysis was conducted by Changjian Jiang, Senior Statistician in the Statistics Technology Center of Monsanto Regulatory using SAS Software Release 9.2. For this analysis, fortifications were conducted at concentrations below the limit of method validation to provide data for the statistician that would improve the quality of the LOD and LOQ determination. The recoveries used were not corrected for background. The statistician's report is provided in full in Appendix 5. The LOD and LOQ of the analyses were determined for each of the analytes in forage, hay and seed, and are provided in Table 28. For the purpose of presenting residues below the LOQ in the tables, the LOQs were rounded to three decimal places, and residues below the LOQ were presented as '<0.nnn', where '0.nnn' is the respective LOQ. The LOD and LOQ of the analytes in the processed fractions were not determined because there were not sufficient numbers of fortified and control samples for the statistical analysis. The lower limit of method validation for processed fractions was 0.01 ppm; excellent recoveries were obtained from the analyses of fortified samples conducted concurrently with the analysis of treated samples.

5.4.6 Sample Analysis

Samples from all eight treatments were analyzed, but the complete results of the residue determinations are presented only for Treatment 4, which represents the proposed recommended label rate and timing, Treatment 6 and Treatment 8. Results of analyses of samples from the four sites from Treatment 5 corresponding to those in the bridging sites at Treatment 6 are also presented in this report to demonstrate the comparability of the residues from these bridging plots. These data from Treatments 5 and 6 are not intended to be used for establishment of tolerances because the rates are higher than the proposed labeled use rate for dicamba on dicamba-tolerant soybean. The results of the analyses of forage and seed decline samples from Treatment 5 are also presented in this report. The analyses of seed samples and processed fractions from Treatment 8 were conducted and the concentration factors for processing were determined. Forage and hay were not sampled in Treatment 8.

Raw data for analyses of RACs from Treatments 1 and 4 are provided in Appendix 7. Raw data for analyses of the RACs from bridging sites of Treatment 5 and 6, and the decline sites from Treatment 5, along with the corresponding control samples, are provided in Appendix 8. Raw data for the processed fractions are provided in Appendix 9. The raw data tables also contain the sampling, extraction and analysis dates. The curve constants and other data required to manually calculate the residues using the formulas supplied in Section 5.6 are provided in the raw data tables. Calculations of residues were conducted by the LC/MS/MS Analyst® software and the data were imported into RIMS III, the Monsanto Residue Information System, where the recoveries

were calculated. Calculations of total residues and average and median residues were conducted in Microsoft Excel spreadsheets using the raw data output from RIMS III and verified formulas. Concentrations of individual analytes are reported as the analyte per se. The total residue based on the existing definition of the residue⁴ was determined by a formula in the Excel spreadsheet which summed and converted the residues of DCSA, dicamba and 5-hydroxydicamba to dicamba equivalents, as described in Section 5.6. Determination of the minimum and maximum residues to provide the range of residues was also conducted in spreadsheets within Microsoft Excel using verified formulas.

Sample chromatograms are provided in Appendix 10.

Seed, forage and hay samples were extracted and analyzed between November 18, 2008 and May 6, 2009, except for a few forage samples which were re-extracted on August 13, 2009 and analyzed to resolve discrepancies between field replicates. Processed fractions were extracted and analyzed between January 8, 2009 and March 5, 2009.

5.5 Storage Conditions and Intervals between Sampling and Analysis

Raw agricultural commodity samples were received frozen via ACDS freezer truck, processed or ground using dry ice, and were maintained frozen at approximately -20 °C except when a sample was removed for analysis.

Seed for processing was shipped frozen to the processing lab via ACDS freezer truck and was stored frozen until being thawed for processing. Processed fractions were shipped from the processing lab on dry ice via Federal Express, and were placed into freezer storage upon arrival at Monsanto. These samples were maintained frozen except when samples were withdrawn for extraction and analysis. All extractions of soybean processed fractions were completed in less than thirty days after the samples were processed.

See Appendix 7, for sampling, extraction and analysis dates for all samples from Treatments 1 and 4. Raw data from Treatments 5 and 6, and the corresponding control samples may be found in Appendix 8, while raw data for processed fractions is provided in Appendix 9.

The analysis date reported is the date of the first valid analysis. The analysis of samples was conducted within three days of extraction. Stability of the samples in the refrigerated autosampler for at least three days was demonstrated in the method validation (Foster, Mierkowski and Miller, 2010). When the concentration of samples exceeded the concentration of the highest calibration standard, the samples were re-extracted and diluted prior to analysis. Because of the considerable difference in the concentration of DCSA and DCGA in forage and hay compared to dicamba and 5-hydroxydicamba, these analytes were often quantitated in separate analyses.

The intervals between sampling and analysis ranged from 29 to 177 days for soybean seed, from 119 to 292 days for soybean forage and from 143 to 283 days for soybean hay. As stated in Section 5.4.6, a few forage samples were re-extracted and analyzed in

⁴ Current EPA Definition of the Residue in soybean seed per 40 CFR §180.227

August 2009 to resolve discrepancies between field replicates. The storage interval for those samples was a maximum of 400 days.

5.5.1 Storage Stability

Storage stability data for DCSA, dicamba and 5-hydroxydicamba in soybean matrices (MRID 43814102) supported residue studies in which soybeans and soybean processed fractions from field and processing studies were stored for 4 to 10 months prior to analysis (C. Olinger, EPA, 2005). Stability of DCGA conjugates in soybean commodities was demonstrated in the study of the metabolism of dicamba in dicamba-tolerant soybean (Miller and Mierkowski, 2010).

All of the processed fractions were analyzed within 30 days of their processing; therefore no storage stability data were required.

5.5.2 Stability of Reference Standards and Reference Standard Solutions

Reference standards were obtained from the Monsanto Analytical Reference Standards Officer and were stored under the conditions recommended on the corresponding certificate of analysis. Stability of the neat reference standards was monitored as part of the Analytical Reference Standards Program, and standards were certified according to the SOP for the program.

Stock and working solutions were stored in a monitored refrigerator at $<10^{\circ}\text{C}$, and were not used beyond the period for which storage stability was established. See the analytical method for specifications for preparation, storage and use of the fortification solutions. The stability of the reference standards in solution was tested in stock solutions, calibration standard solutions and in the final sample extracts (Foster, Mierkowski and Miller, 2010). Stock solutions prepared in absolute ethanol and stored at approx. 4°C were stable for at least 201 days. Calibration standards prepared in acetonitrile and stored at approx. 4°C were also shown to be stable for at least 201 days. No stock or calibration solutions were used beyond their established period of stability. The final sample extracts were stable in the refrigerated autosampler for at least 72 hours.

As described in the analytical method, spiked recovery experiments conducted during method development revealed an issue for DCGA and $^{13}\text{C}_6$ -DCGA. The recoveries for these two analytes were poor when the analytes were spiked directly onto hay and forage, or when the analytes were spiked into a vessel containing matrix and extraction solution. This issue was circumvented by spiking DCSA, dicamba and 5-hydroxydicamba, and their corresponding ^{13}C -analogs, directly into the matrix prior to extraction, and spiking DCGA and its ^{13}C -analog into the 10-mL extraction aliquot. Further details regarding the preparation of fortification and calibration solutions may be found in the analytical method in Appendix 4.

5.6 Calculations

Most of the calculations associated with the LC/MS/MS quantitation of the residues in this study were conducted within the LC/MS/MS data system. Recoveries were calculated within RIMS III, the Monsanto Residue Information Management System. RIMS also provided a system for assignment of sample numbers and tracking of the samples from their receipt at the analytical laboratory, through processing and analysis. For the calculation of sums, averages and median values, the data were exported from

RIMS into Microsoft Excel 2007. Calculations within Excel were conducted using verified formulas. Results calculated manually may differ slightly from the results calculated within the data system or Excel due to differences in rounding.

Calibration Curve

The LC/MS/MS Analyst™ software automatically derived the calibration curve using the area ratio (AR_{analyte}) versus the concentration of the standards ($\mu\text{g/mL}$ analyte) from all standards injected with the chromatographic set. A weighted quadratic curve ($1/\text{analyte conc.}$) was used. The resulting equation defining the standard curve is shown below:

$$A (\mu\text{g/mL analyte})^2 + B (\mu\text{g/mL analyte}) + C = AR_{\text{analyte}}$$

where:

AR_{analyte} is the detector response (area ratio)

A, B and C are curve constants

The results were calculated automatically by the Analyst™ software. The calculation may be checked manually by applying the solution for quadratic equations as shown below. (**Note:** Subtract the response AR_{analyte} from C first.)

$$\text{Injected Concentration } (\mu\text{g/mL analyte}) = \frac{-B \pm \sqrt{B^2 - 4AC}}{2A}$$

Analyte Concentrations

The analytical method contains sample dilution and the resulting concentration value ($\mu\text{g/mL}$ analyte) derived from the regression curve must be multiplied by an appropriate dilution factor (also known as the quantitation factor) to calculate the analyte concentration in the raw sample. The dilution factor was entered into the Analyst® “dilution factor” column to automatically calculate the analyte concentration in the raw sample. The dilution factor to be entered into the Analyst™ software is determined manually using the following equation:

$$\text{dilution factor (mL/g)} = \frac{\text{final volume (mL)}}{\text{sample weight (g)}} \times \frac{\text{extract volume (mL)}}{\text{extract aliquot volume (mL)}}$$

where:

- final volume is the volume of the standard solutions (5 mL)
- sample weight is the raw sample weight (10 g)
- extract volume is the volume of extraction solvent (100 mL)
- extract aliquot volume is the volume of the extract aliquot carried through the method (normally 10 mL, but will be lower for samples requiring additional dilution)

Using the sample weights and volume (above) dictated by the method, the calculated dilution factor for a normal sample that does not require additional dilution is “5”. The raw sample concentration was calculated by the Analyst™ software from the

concentration in the injected solution (derived from the calibration curve) and the dilution factor as shown in the equation below:

$$\mu\text{g/g (ppm) analyte found} = (\mu\text{g/mL analyte found}) \times (\text{dilution factor})$$

Using this method, the raw sample concentration results (ppm analyte found) generated by the Analyst™ software are individual analyte concentrations, not parent equivalents. To express the concentration as dicamba acid equivalents, the analyte concentration must be multiplied by the appropriate conversion factors accounting for the differences in molecular weight between parent dicamba and the analytes. Based on molecular weights of 221.04, 207.01, 223.01 and 237.04 for dicamba, DCSA, DCGA and 5-hydroxydicamba, respectively, the conversion factors are 1.068, 0.991, and 0.933 for DCSA, DCGA, and 5-hydroxydicamba, respectively.

Example Analyte Calculation

For the quantitation of **DCSA** in sample **REG08096-00395** from **Treatment 4 forage** at the **York, NE** site (**NE-1**) the following curve constants and analyte response ratio were determined:

$$A = -1.8$$

$$B = 7.96$$

$$C = 0.00253$$

$$AR_{\text{analyte}} (\text{Area response ratio}) = 1.80$$

$$C-AR = -1.79747$$

Quantitation (dilution) factor: 50.0 (10-fold sample dilution)

Solving the quadratic equation in the 'Calibration Curve' section above, one obtains an injected analyte concentration of 0.239 $\mu\text{g/mL}$, which when multiplied by the dilution factor of 50.0 mL/g equals 12.0 ppm which is equivalent to the analyte amount of 11.9 ppm output by the Analyst™ software given possible differences in rounding in the sample calculation compared to the data system calculation.

Analytical Recovery Calculations

Successful method performance for each analytical set was assessed by the determination of percent recovery of known amounts of the analytes fortified into control samples. After the ppm level in a fortified sample is found, that amount (after subtracting any amount found in the unfortified check or control sample) is divided by the ppm value with which the sample was fortified. The result is the percent recovery of that individual fortified sample.

The percent recovery of each analyte was calculated as shown below.

$$\% \text{ recovery} = (100) \times \frac{(\mu\text{g/g analyte found}) - (\mu\text{g/g analyte in control})}{\mu\text{g/g analyte added}}$$

Correction for background and determination of recovery in the fortified control samples were conducted in RIMS III. A sample calculation using an actual crop sample for the DCSA analyte is provided below.

Example Recovery Calculation

Sample calculation for the DCSA-fortified sample of soybean hay from York, NE (NE-1) (RIMS ID REG08096-00390)

$$94.80\% \text{ recovery} = (100) \times \frac{(0.020800 \mu\text{g/g found}) - (0.001840 \mu\text{g/g in control})}{0.0200 \mu\text{g/g analyte added}}$$

Recoveries were determined without background subtraction for use in the statistical analysis to determine the LOD and LOQ for each analyte.

Conversion of Residues to Dicamba Acid Equivalents

Residues of each analyte are reported in the tables and the raw data in Appendix 7, Appendix 8 and Appendix 9 as the concentration of the analyte per se. To convert the concentrations of individual analytes to total residues, the ratio of the molecular weight of dicamba to each of the analytes was used. Calculation of total residues to dicamba acid equivalents was conducted in Excel using data exported from RIMS III. A verified formula combined the conversion and the sum of the residues of DCSA, dicamba and 5-hydroxydicamba using the following factors for conversion to dicamba acid equivalents:

Dicamba: MW 221.04

DCSA: MW 207.01

Conversion factor = 221.04/207.01 = 1.068

5-hydroxydicamba: MW 237.04

Conversion factor = 221.04/237.04 = 0.933

Using these conversion factors, the total residues were expressed as dicamba acid equivalents using the following equation.

$$\text{Total Residue (dicamba acid equiv.)} = 1.068(\text{DCSA ppm}) + (\text{dicamba ppm}) + 0.933(5\text{-OH ppm})$$

Example Total Residue Calculation

Following is an example of the calculation of the total residue expressed as dicamba acid equivalents for the forage sample from NE-1 (York, NE):

$$13.065 \text{ ppm dicamba acid equiv. Total Res.} = 1.068(11.9 \text{ ppm}) + (0.350 \text{ ppm}) + 0.933(0.006 \text{ ppm})$$

The calculated 13.065 ppm total residue is the result obtained in Excel using the formula and shown in Table 4 (where it is rounded to 13.1 ppm).

Calculations from Raw Data

Appendix 7 of this report contains the raw data for each of the control and treated samples analyzed for Treatments 1 and 4. Raw data for Treatment 6 and the bridging and decline sites of Treatment 5 are provided in Appendix 8; raw data for processed fractions are provided in Appendix 9. Using the calculations specified above, along with the curve constants provided for each sample in the raw data tables, one may manually calculate the residues. Slight differences in the results may be attributed to differences in rounding in manual calculations vs. the calculations conducted by the data system. Sample

chromatograms obtained from the LC/MS/MS system may be found in Appendix 10; the chromatograms matching the sample calculations may be found in Appendix 10. The representative chromatograms are provided to show the response and the lack of interference in the analyses. The text output by the data system in the chromatograms is difficult to read and the information on these sample chromatograms is not sufficient to calculate the residues. It is recommended that raw data for calculations be obtained from Appendix 7, Appendix 8 or Appendix 9, as appropriate.

5.7 Statistical Methods

In addition to the calculation of averages and relative standard deviations, statistical analyses were performed using SAS to determine the LOD and LOQ for DCSA, DCGA, dicamba and 5-hydroxydicamba in seed, forage and hay. The report on the statistical analyses for determination of the LOD and LOQ of the analytes is found in Appendix 5.

6 PROTOCOL AMENDMENTS AND DEVIATIONS

The study protocol and all amendments are provided in Appendix 1. There were eight amendments to the protocol which are summarized as follows, but may be read in their entirety in Appendix 1. The first amendment specified that ammonium sulfate would be added to all spray solutions from Treatments 2 to 8 rather than only to the postemergence application spray solutions. Amendments 2 and 3 were written to exclude three sites (AR, GA and SC) from the use of glyphosate for weed control because of concerns that the seed provided to those sites was not completely tolerant to glyphosate. Amendment 4 added the processing annex and eliminated the need for a subsample of seed from processing sites. Amendment 5 added the analytical annex to the protocol, and Amendment 6 modified the analytical annex to reflect the fact that the acceptance criteria for the analyses were provided in the analytical method. Amendment 7 was written to define those fortified samples being analyzed only for use in the statistical analysis to determine the LOD and LOQ as to not be included in the acceptance criteria for analytical sets. Amendment 8 was written to re-open the study to prepare an amended report in which the treatments not relevant to the proposed label rate and timing were removed from the study, the presentation of the residues was modified so that those residues below the LOQ were stated as <0.nnn, where 0.nnn is the LOQ for that analyte in the given matrix, and the total residues were corrected to be expressed as dicamba acid equivalents. Additionally, the analytical method number was corrected in the analytical annex and two protocol amendments by Amendment 8. Other changes in the amended report are listed in Appendix 11 of this report. Amendment 9 was written to re-open the study to amend the report, primarily to add missing raw data tables for 5-hydroxydicamba in forage to Appendix 7. A new study director was assigned because the original study director was no longer available. Changes in the second amended report are described in Appendix 12.

Most of the deviations occurred in the field phase of the study and are documented in detail in the field report in Appendix 2. They are briefly summarized here. Deviations 1, 3 and 5 documented the failure of personnel at some field sites to submit test substance treatment information to the FRMC within 48 hours of the application as specified in the protocol. Deviation 2 was written because the spray volume at the IL-1 site exceeded the

maximum allowance by 0.2 GPA, and because the amount of nonionic surfactant added to the spray solution at three sites differed from what was specified in the protocol.

Deviations 4 and 6 enumerated several issues including spray volumes below the minimum or exceeding the maximum allowance, soil temperature taken at a depth of 4 inches instead of 2 inches at one site, and wind speeds slightly in excess of the 5 mph maximum during applications at two sites in Deviation 4 and one site in Deviation 6. Additionally, Deviation 4 documented four applications at the V3 stage that were slightly below the target application rate. Deviation 4 also documented that the V3 application at SD-2 was made at V4 for all treatments.

In Deviation 7 at the NE-1 site, all treated hay samples weighed less than the protocol required 0.5 kg. At site KS-1, all hay samples weighed less than the 0.5 kg requirement. At site SD-1, one treated hay sample from Treatment 3, which is not a subject of this report, weighed less than the minimum 0.5 kg requirement.

Deviation 8 covered several minor field issues, most of which were related to the pre-harvest application in Treatment 7 which is not a subject of this report; details relating to Treatment 7 deviations are provided in the Field Report in Appendix 2. Treatment 5 (decline plot) seed intended for "normal seed harvest" was collected 10 days after the first seed sampling event rather than 7 ± 1 days. At site WI-1, the seed containers were destroyed without prior approval by the FRMC. At site IA-2, rainfall data was collected from a NOAA weather station located approximately 11 miles from the test site, instead of on-site collection.

Deviation 9 was prepared because the volume of degummed oil from processing of soybeans from the WI-1 site was below the amount specified in the protocol.

In Deviation 10 at the GA site, calibration of the application equipment occurred the day before the V3 application instead of within 12 hours of the application. In addition, at the ND-1 site, a rain gauge was located on-site, but the data was not available due to malfunctioning equipment. Rainfall was recorded at a weather station located 4.5 miles from the test site. At the SD-1 site, the seed container was incinerated without approval from the FRMC.

Deviation 11 documented that the amount of the defatted flour fraction from both sites, and the protein isolate fraction from WI-1 failed to meet the requirements specified in the protocol.

None of these deviations had a negative impact on the results or conclusions of the study.

7 RESULTS

Soybean raw agricultural commodities were collected from twenty-two field sites in major soybean growing regions in EPA Regions 2, 4 and 5 to evaluate the residues resulting from use of dicamba on dicamba-tolerant soybean MON 87708. Several of these sites were located in the northern tier of states in order to provide data for residues in dicamba-tolerant soybean grown in climates typical for Canadian soybean-growing regions. The field cooperators did not report any unusual weather events that would have affected the results of the study. At some sites, rainy weather resulted in a delay in

planting or a slight delay in harvest, but none of these events had a significant impact on the study.

Samples were analyzed from all treatments, but the results of the analyses are provided in this report from only Treatments 4 and 6, from the decline sites of Treatment 5, and from those sites of Treatment 5 matching the sites at which the bridging plots were established for Treatment 6 (AR, IL-2, KS-1 and MN-2). Treatment 4 represents the application rates and timing which will be recommended on the proposed label for uses in the United States. The data from Treatment 6 and the comparable sites from Treatment 5 are included only to bridge between the MON 54140 and MON 11955 formulations. The analyses of the seed and processed fractions from Treatment 8, and the concentration factors for processed fractions are also provided. Those treatments not reported were removed from the study by protocol amendment.

The analyses were conducted by a newly developed method which provides quantification of dicamba, 5-hydroxydicamba, DCSA and DCGA. DCSA and DCGA are the hydrolysis products of the conjugate metabolites identified in dicamba-tolerant soybean after pre- or postemergence application of dicamba. The quantitation was by LC/MS/MS with turbo ion spray ionization in negative ion mode. To correct for matrix effects the $^{13}\text{C}_6$ -analogs of each of the analytes were spiked into the samples as internal standards.

The complete results of the analyses of the Treatment 4 samples for DCSA, DCGA, dicamba and 5-hydroxydicamba are shown in Table 1, Table 4 and Table 7 for seed, forage and hay, respectively. A summary of the residues is provided in the table below. The total residue in seed, forage and hay is based on the current EPA definition of the residue in soybean seed per CFR §180.227, and is expressed as ppm dicamba acid equivalents. Residues of individual analytes are expressed as ppm of that analyte.

	Treatment 4 Soybean Commodity Residues, ppm^a					
	Seed		Forage		Hay	
Analyte	Median^b	Range^c	Median	Range	Median	Range
DCSA	0.031	0.009-0.411	14.0	8.34-47.9	29.8	11.4-57.1
Dicamba	<0.013	<0.013	0.068	<0.021-2.62	0.051	<0.014-1.16
5-Hydroxy-dicamba	<0.021	<0.021	<0.005	<0.005-0.010	<0.014	<0.014
DCGA	0.017	<0.011-0.136	1.95	0.359-5.95	2.02	0.169-7.33
Total EPA DoR ^d	<0.065	<0.041-0.471	15.2	10.0-51.2	31.9	12.2-61.1

^a Residues are expressed as each analyte per se; the total residues are expressed as dicamba acid equivalents.

^b Median of residues across all sites in this treatment

^c Range of residues across all sites in this treatment

^d Current EPA Definition of the Residue in soybean seed per 40 CFR §180.227

Residues in soybean seed were generally low, as summarized above and as shown in detail in Table 1. The average total residue based on the current EPA definition of the

residue in soybean seed per 40 CFR §180.227 from the twenty-two sites in Treatment 4 was <0.091 ppm while the median total residue was <0.065 ppm. Of the four analytes, the highest residues were of the DCSA class. The ratio of DCSA to DCGA residues was generally about 2:1 or 3:1 in seed. Residues of dicamba and 5-hydroxydicamba were below the LOQ in all seed samples from Treatment 4. Seed from the Georgia site had unusually high average total residues of 0.469 ppm, more than three times higher than the average total residue in seed at any other site in this treatment. No explanation for the unusually high residues from that one site was found.

Total residues in forage with a typical PHI of 7-8 days from Treatment 4 averaged 17.3 ppm, with a median of 15.2 ppm and a maximum of 51.2 ppm based on DCSA, dicamba and 5-hydroxydicamba, and expressed as dicamba acid equivalents. The detailed results of the Treatment 4 forage analyses are provided in Table 4. As in seed, the highest residues in forage were of the DCSA class. In the forage, the ratio of median DCSA to DCGA residues in Treatment 4 was approximately 7:1, much higher than was observed in seed. Residues of dicamba in forage from Treatment 4 ranged from <0.021 to 2.62 ppm, showing that dicamba was rapidly metabolized in dicamba-tolerant soybean, since forage was cut only 7 to 8 days after application at most sites. Residues of 5-hydroxydicamba averaged <0.006 ppm for Treatment 4 forage residues. As had been observed for the seed, the residues in forage from the Georgia site were unusually high.

Total residues of dicamba, based on DCSA, 5-hydroxydicamba and dicamba, in hay from Treatment 4 ranged from 12.2 to 61.1 ppm, with a median total residue of 31.9 ppm and an average total residue of 32.3 ppm, all expressed as dicamba acid equivalents. The detailed results from the analyses of Treatment 4 hay are provided in Table 7. The ratio of residues of DCSA to DCGA varied among the sites in the treatment, and generally was at least 10:1 DCSA to DCGA, although there were a few cases where the ratio was around 4:1. Residues of 5-hydroxydicamba were all below the LOQ in hay from Treatment 4, and median residues of dicamba were low at 0.051 ppm.

Bridging plots were included in Treatment 6 to bridge the residues resulting from application of MON 54140 to the residues from application of MON 11955 as conducted in Treatment 5. The detailed residues from Treatment 5 are provided in Table 2, Table 5 and Table 8 for seed, forage and hay, respectively. The detailed data on residues in Treatment 6 are provided in Table 3, Table 6 and Table 9 for soybean seed, forage and hay, respectively. There were no significant differences between the average total residues in these bridging plots. A summary of the average total residues at each site is provided below. While there were some slight differences in residues, especially in the forage and hay, there are no significant trends toward higher residues resulting from either formulation.

		Average Total EPA DoR^a Residues of Dicamba in RACs from Bridging Plots		
Site Code	Treatment	Seed (ppm)	Forage (ppm)	Hay (ppm)
AR	5	0.101	41.2	83.1
AR	6	0.107	41.0	87.8
IL-2	5	0.147	33.1	36.4
IL-2	6	0.136	23.3	29.4
KS-1	5	<0.066	55.4	127
KS-1	6	<0.083	49.3	139
MN-2	5	0.195	30.0	94.1
MN-2	6	0.223	37.5	101

^a Based on the current EPA Definition of the Residue in soybean seed per 40 CFR §180.227 and expressed as dicamba acid equivalents. No residue definition has been established by EPA for forage and hay because tolerances were not established for those RACs.

Decline sampling for forage and seed was conducted at two sites in Treatment 5. Those sites (IA-1 and MN-1) were different from those used for bridging of the formulations and the residues, and the detailed results of the analyses of the decline samples of forage and seed are provided in Table 10 and Table 11, respectively. The protocol specifications for forage sampling were that samples were to be taken at a nominal 3, 7, 10 and 14 days after application. The table below shows a clear decline in forage residues with increasing time after application at both sites. The total residues for the decline sampling of forage are plotted in Figure 2.

		Average Residues of Dicamba in Soybean Forage from Decline Sampling				
Site Code	Pre-Harvest Interval (days)	DCGA (ppm)^a	DCSA (ppm)^a	Dicamba (ppm)	5-Hydroxy-dicamba (ppm)^a	Total EPA DoR (ppm)^b
IA-1	3	5.44	44.3	0.082	0.007	47.4
IA-1	7	2.86	26.1	<0.021	<0.005	27.8
IA-1	10	2.58	24.2	<0.021	<0.005	25.8
IA-1	14	1.88	13.7	<0.021	<0.005	14.7
MN-1	3	2.95	32.2	0.919	0.008	35.3
MN-1	7	3.12	23.8	0.411	<0.006	25.8
MN-1	10	1.81	20.7	0.046	<0.005	22.2
MN-1	14	1.66	16.9	<0.021	<0.005	18.0

^a Residues are expressed as each analyte per se

^b Based on the current EPA Definition of the Residue in soybean seed per 40 CFR §180.227 and are expressed as dicamba acid equivalents

Decline sampling was also conducted for soybean seed at nominal times of 7 days prior to normal harvest, normal seed harvest, 7 days and 14 days after normal seed harvest.

The residues in seed were low and consequently the decline in residues was not noticeable in seed collected over the sampling period. The graphs presented in Figure 3 show the residues plotted against the sampling time for each site sampled.

Site Code	Pre-Harvest Interval (days)	Average Residues of Dicamba in Soybean Seed from Decline Sampling				
		DCGA (ppm) ^a	DCSA (ppm) ^a	Dicamba (ppm)	5-Hydroxy-dicamba (ppm) ^a	Total EPA DoR (ppm) ^b
IA-1	73	0.024	0.019	<0.013	<0.021	<0.052
IA-1	80	0.017	0.019	<0.013	<0.021	<0.052
IA-1	87	0.022	0.019	<0.013	<0.021	<0.052
IA-1	94	0.023	0.018	<0.013	<0.021	<0.051
MN-1	78	0.081	0.075	<0.013	<0.021	0.113
MN-1	88	0.058	0.070	<0.013	<0.021	0.107
MN-1	92	0.081	0.074	<0.013	<0.021	0.111
MN-1	100	0.072	0.067	<0.013	<0.021	0.104

^a Residues are expressed as each analyte per se

^b Current EPA Definition of the Residue in soybean seed per 40 CFR §180.227 expressed as dicamba acid equivalents

Separate bulk samples of seed from two sites (NE-1 and WI-1) were generated in Treatment 8 which used a rate 50% higher than the maximum yearly application of dicamba in order to generate seed with residues sufficient to discern any concentration or reduction in residues in the processed fractions. Bulk seed samples from Treatments 1 and 8 from both sites were separately processed into the following fractions: cleaned seed (Table 12), hulls (Table 13), toasted defatted meal (Table 14), degummed oil (Table 15), RBD (refined, bleached deodorized) oil (Table 16), crude lecithin (Table 17), defatted flour (Table 18), protein isolate (Table 19), protein concentrate (Table 20), soymilk (Table 21) and tofu (Table 22). These processed fractions were analyzed to evaluate whether residues of dicamba are concentrated or reduced in processed fractions. Dicamba and 5-hydroxydicamba residues in the whole seed from Treatment 8 were below the LOQ, and in all processed fractions were <0.01 ppm; therefore, these analytes were not used in the calculation of the concentration factors. Concentration factors were determined separately for DCSA, a component of the definition of the residue for dicamba and the most significant residue in soybean seed, and for DCGA, the other detectable residue in soybean seed. The complete results of the residue analyses of the processed fractions are provided in Tables 12 to 22, and the data are summarized in the tables below for fractions from each site and in Table 23.

Processed Fraction	Average Residue (ppm) ^a		Concentration Factor ^b	
	DCSA	DCGA	DCSA	DCGA
NE-1 York site				
Seed for processing	0.065	0.055	---	---
Hulls	0.082	0.054	1.27	0.99
Toasted defatted meal	0.076	0.069	1.18	1.26
Degummed oil	<0.010	<0.010	<0.16	<0.18
RBD oil	<0.010	<0.010	<0.16	<0.18
Crude lecithin	<0.010	<0.010	<0.16	<0.18
Defatted flour	0.071	0.067	1.10	1.23
Protein isolate	<0.010	<0.010	<0.16	<0.18
Protein concentrate	<0.010	<0.010	<0.16	<0.18
Soymilk	<0.010	<0.010	<0.16	<0.18
Tofu	<0.010	<0.010	<0.16	<0.18

^a Residues are expressed as each analyte per se

^b Concentration factor = residue in processed fraction / residue in corresponding seed

As shown in the table above for the processed fractions from seed grown at the York Nebraska site, the residues of DCSA were similar or slightly greater than the residues of DCGA in the seed used for processing and in the processed fractions. The concentration factors are very similar whether calculated based on DCSA or DCGA residues. The table below for the processed fractions from seed grown at the Delavan Wisconsin site shows concentration factors comparable to those obtained from the other site.

Processed Fraction	Average Residue (ppm) ^a		Concentration Factor ^b	
	DCSA	DCGA	DCSA	DCGA
WI-1 Delavan site				
Seed for processing	0.173	0.142	---	---
Hulls	0.263	0.142	1.52	1.00
Toasted defatted meal	0.260	0.191	1.51	1.34
Degummed oil	<0.010	<0.010	<0.06	<0.07
RBD oil	<0.010	<0.010	<0.06	<0.07
Crude lecithin	0.037	<0.010	0.21	<0.07
Defatted flour	0.244	0.182	1.41	1.28
Protein isolate	0.028	0.017	0.16	0.12
Protein concentrate	0.015	0.015	0.08	0.11
Soymilk	0.016	0.010	0.09	0.07
Tofu	0.015	<0.010	0.09	<0.07

^a Residues are expressed as each analyte per se

^b Concentration factor = residue in processed fraction / residue in corresponding seed

Most processed fractions showed extremely low residues, including the degummed oil, RBD oil, crude lecithin, protein isolate, protein concentrate, soymilk and tofu fractions, and consequently their concentration factors were very low. The average concentration factors are provided in the table below and in Table 23.

Fraction	Average DCSA Concentration Factor^a	Average DCGA Concentration Factor
Hulls	1.40	0.99
Toasted Defatted Meal	1.35	1.30
Degummed Oil	<0.11	<0.13
RBD Oil	<0.11	<0.13
Crude Lecithin	<0.18	<0.13
Defatted Flour	1.26	1.25
Protein Isolate	<0.16	<0.15
Protein Concentrate	<0.12	<0.14
Soymilk	<0.12	<0.13
Tofu	<0.12	<0.13

^a The LOQ was not determined for processed fractions; concentration factors were calculated based on the LLMV of 0.01 ppm. Because the residues of dicamba and 5-hydroxydicamba in the seed prior to processing were well below the LOQ, the concentration factors in processed fractions were calculated based on residues of DCSA or DCGA.

Of the ten processed fractions generated in this study, only the hulls, toasted defatted meal and defatted flour showed residues higher than the seed from which these commodities were generated. The concentration factors for the hulls and meal from each site were well below the theoretical concentration factors of 11.3 and 2.2 for hulls and meal, respectively (US EPA OPPTS Test Guideline 860.1520 Processed Food/Feed).

8 CONCLUSIONS

Treatment of dicamba-tolerant soybean MON 87708 with dicamba at 1.0 lb a.e./acre preemergence, followed by 0.5 lb a.e./acre postemergence treatments at both V3 and R1/R2 in Treatment 4 resulted in very low total residues in soybean seed. Residues of DCSA, dicamba and 5-hydroxydicamba were summed to obtain a maximum total seed residue of 0.471 ppm dicamba acid equivalents according to the EPA Definition of the Residue in soybean seed per 40 CFR §180.227, while the median total residue in seed was <0.065 ppm dicamba acid equivalents. The residues in seed from the decline sampling were low, and consequently there was no noticeable pattern of decline over the sampling period.

Residues in forage cut at about 7 to 8 days after application of dicamba at the R1/R2 stage in Treatment 4 had median total residues of 15.2 ppm dicamba acid equivalents, with maximum residues as high as 51.2 ppm dicamba acid equivalents based on the U.S. EPA Definition of the Residue in soybean seed. Forage decline sampling showed that dicamba residues declined fairly rapidly, dropping approximately 50% or more in

samples taken three days after the last application to samples taken fourteen days after the last application.

The median total residue in hay from Treatment 4 was 31.9 ppm dicamba acid equivalents, while the range was from 12.2 to 61.1 ppm based on the sum of the residues of DCSA, dicamba and 5-hydroxydicamba converted to dicamba acid equivalents, which is consistent with the EPA Definition of the Residue in soybean seed per 40 CFR §180.227.

DCSA residues were the major residues in seed, forage and hay with DCGA residues being the second most prominent residues. The ratio of DCSA to DCGA in seed was approximately 2:1, but was much higher in forage and hay, with DCSA residues 5 or 10 times higher compared to DCGA. Residues of 5-hydroxydicamba were all <LOQ in seed and hay from Treatment 4, and were below or just slightly above the LOQ in forage from Treatment 4. Residues of dicamba were below the LOQ in seed and were very low in forage and hay.

Bridging plots conducted to compare the residues from application of MON 54140 and MON 11955 showed that there were no significant differences in the residues resulting from the application of these dicamba formulations. Therefore, residues from Treatment 4 using MON 11955 are representative of the same application use pattern for MON 54140.

Dicamba residues did not concentrate to any significant level in any processed fractions. Residues of dicamba and 5-hydroxydicamba were below the LOQ in the seed used for processing, therefore, the residues of these analytes were not used in the calculation of the concentration factors. The residues for DCSA and DCGA were also below the LLMV of the method for many of the processed fractions, and concentration factors for those fractions were therefore based on the LLMV. Average concentration factors in oil were extremely low at <0.11 for both degummed oil and RBD oil using the processing factors based on DCSA residues. Average processing factors for protein concentrate, soymilk and tofu were similarly low with each at <0.12 based on concentrations of DCSA residues. Concentration factors for DCSA in crude lecithin and protein isolate were <0.18 and <0.16 ppm, respectively. Similar concentration factors were determined based on the DCGA residues in the processed fractions. Of the ten processed commodities generated from two sites in this study, the average concentration factor was greater than one only in hulls, toasted defatted meal and defatted flour. These factors are below the published theoretical processing factors for hulls and meal.

9 RETENTION OF RECORDS AND SAMPLES

All raw data, associated documents, and the original and amended final reports are retained in the Monsanto Company regulatory archives. Samples of reference substances have been retained at Monsanto Company according to the requirements of Good Laboratory Practice standards. Study specimens will be retained frozen until a time when a study director or team representative determines that they no longer afford evaluation, or after quality assurance verification that specimen retention is no longer necessary.

10 REFERENCES

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USDA National Agricultural Statistics Service / Crop Data by State:
http://www.nass.usda.gov/QuickStats/PullData_US.jsp

TABLES

Table 1. Residues of Dicamba in Soybean Seed from Treatment 4

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
AR, Proctor	2.000	89	<0.011	0.032	<0.013	<0.021	<0.066	<0.072
AR, Proctor		89	<0.011	0.044	<0.013	<0.021	<0.079	
GA, Montezuma	1.984	77	0.127	0.408	<0.013	<0.021	0.468	
GA, Montezuma		77	0.136	0.411	<0.013	<0.021	0.471	0.469
IA-1, Richland	1.966	80	0.012	0.011	<0.013	<0.021	<0.044	<0.045
IA-1, Richland		80	0.013	0.013	<0.013	<0.021	<0.046	
IA-2, Hedrick	2.012	95	0.018	0.011	<0.013	<0.021	<0.043	<0.043
IA-2, Hedrick		95	0.014	0.010	<0.013	<0.021	<0.043	
IL-1, Wyoming	2.004	95	0.018	0.016	<0.013	<0.021	<0.049	<0.045
IL-1, Wyoming		95	<0.011	0.009	<0.013	<0.021	<0.042	
IL-2, Carlyle	2.035	74	0.026	0.045	<0.013	<0.021	<0.080	<0.081
IL-2, Carlyle		74	0.024	0.047	<0.013	<0.021	<0.082	
IN, Rockville	1.990	73	0.038	0.042	<0.013	<0.021	<0.077	<0.075
IN, Rockville		73	0.051	0.039	<0.013	<0.021	<0.073	
KS-1, Cunningham	1.984	95	<0.011	0.022	<0.013	<0.021	<0.056	<0.054
KS-1, Cunningham		95	<0.011	0.019	<0.013	<0.021	<0.052	
KS-2, Hudson	2.030	77	0.016	0.012	<0.013	<0.021	<0.045	<0.046
KS-2, Hudson		77	0.016	0.015	<0.013	<0.021	<0.048	
LA, Washington	1.993	85	<0.011	0.019	<0.013	<0.021	<0.053	<0.051
LA, Washington		85	<0.011	0.016	<0.013	<0.021	<0.049	
MI, Conklin	1.996	88	0.062	0.089	<0.013	<0.021	0.127	0.124
MI, Conklin		88	0.056	0.084	<0.013	<0.021	0.122	
MN-1, Campbell	2.001	78	0.043	0.050	<0.013	<0.021	<0.086	<0.087
MN-1, Campbell		78	0.045	0.052	<0.013	<0.021	<0.088	

Table 1 (continued). Residues of Dicamba in Soybean Seed from Treatment 4

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
MN-2, Fergus Falls	2.004	78	0.048	0.066	<0.013	<0.021	0.103	
MN-2, Fergus Falls		78	0.054	0.069	<0.013	<0.021	0.105	0.104
MO, Fisk	2.005	81	0.014	0.019	<0.013	<0.021	<0.052	
MO, Fisk		81	0.016	0.024	<0.013	<0.021	<0.057	<0.055
ND-1, Carrington	2.005	87	0.048	0.055	<0.013	<0.021	<0.091	
ND-1, Carrington		87	0.041	0.048	<0.013	<0.021	<0.083	<0.087
NE-1, York	2.009	87	0.030	0.027	<0.013	<0.021	<0.060	
NE-1, York		87	0.029	0.024	<0.013	<0.021	<0.057	<0.059
NE-2, Osceola	1.984	86	0.015	0.027	<0.013	<0.021	<0.061	
NE-2, Osceola		86	0.016	0.030	<0.013	<0.021	<0.064	<0.063
SC, Elko	1.998	88	<0.011	0.018	<0.013	<0.021	<0.052	
SC, Elko		88	<0.011	0.020	<0.013	<0.021	<0.054	<0.053
SD-1, Centerville	1.964	76	0.057	0.114	<0.013	<0.021	0.154	
SD-1, Centerville		76	0.051	0.108	<0.013	<0.021	0.147	0.151
SD-2, Britton	1.999	88	<0.011	0.043	<0.013	<0.021	<0.078	
SD-2, Britton		88	<0.011	0.047	<0.013	<0.021	<0.082	<0.080
WI-1, Delavan	1.955	85	0.072	0.074	<0.013	<0.021	0.111	
WI-1, Delavan		85	0.065	0.070	<0.013	<0.021	0.107	0.109
WI-2, Fitchburg	2.019	98	<0.011	0.012	<0.013	<0.021	<0.044	
WI-2, Fitchburg		98	<0.011	0.009	<0.013	<0.021	<0.041	<0.043

^aThe dicamba applied is the total applied preemergence, at V3 and at R1/R2.

^bResidues are expressed as each analyte per se.

^cTotal residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Average of all sites	0.032	0.055	<0.013	<0.021	<0.091
Median of all sites	0.017	0.031	<0.013	<0.021	<0.065
Maximum of all sites	0.136	0.411	<0.013	<0.021	0.471

Table 2. Residues of Dicamba in Soybean Seed from Bridging Sites of Treatment 5

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
AR, Proctor	1.997	89	0.015	0.071	<0.013	<0.021	0.108	
AR, Proctor		89	0.018	0.058	<0.013	<0.021	<0.094	0.101
IL-2, Carlyle	1.978	74	0.063	0.106	<0.013	<0.021	0.145	
IL-2, Carlyle		74	0.067	0.109	<0.013	<0.021	0.148	0.147
KS-1, Cunningham	2.009	95	0.017	0.022	<0.013	<0.021	<0.055	
KS-1, Cunningham		95	0.020	0.042	<0.013	<0.021	<0.077	<0.066
MN-2, Fergus Falls	2.003	78	0.117	0.152	<0.013	<0.021	0.194	
MN-2, Fergus Falls		78	0.123	0.153	<0.013	<0.021	0.195	0.195

^a The dicamba applied is the total of the applications at V3 and R1/R2.

^b Residues are expressed as each analyte per se.

^c Total residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Average of the above sites	0.055	0.089	<0.013	<0.021	0.127
Median of the above sites	0.041	0.089	<0.013	<0.021	0.127
Maximum of the above sites	0.123	0.153	<0.013	<0.021	0.195

Table 3. Residues of Dicamba in Soybean Seed from Treatment 6

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
AR, Proctor	2.000	89	0.023	0.072	<0.013	<0.021	0.108	
AR, Proctor		89	0.022	0.068	<0.013	<0.021	0.105	0.107
IL-2, Carlyle	2.022	74	0.058	0.093	<0.013	<0.021	0.131	
IL-2, Carlyle		74	0.064	0.103	<0.013	<0.021	0.142	0.136
KS-1, Cunningham	2.037	95	0.021	0.046	<0.013	<0.021	<0.081	
KS-1, Cunningham		95	0.021	0.049	<0.013	<0.021	<0.085	<0.083
MN-2, Fergus Falls	2.003	78	0.139	0.191	<0.013	<0.021	0.236	
MN-2, Fergus Falls		78	0.118	0.167	<0.013	<0.021	0.210	0.223

^a The dicamba applied is the total of the applications at V3 and R1/R2.

^b Residues are expressed as each analyte per se.

^c Total residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Average of all sites	0.058	0.099	<0.013	<0.021	0.137
Median of all sites	0.041	0.082	<0.013	<0.021	0.120
Maximum of all sites	0.139	0.191	<0.013	<0.021	0.236

Table 4. Residues of Dicamba in Soybean Forage from Treatment 4

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
AR, Proctor	2.000	7	1.97	20.2	0.051	0.007	21.6	20.1
AR, Proctor		7	1.78	17.4	0.058	0.009	18.6	
GA, Montezuma	1.984	8	4.67	47.9	<0.021	0.009	51.2	50.3
GA, Montezuma		8	5.95	46.2	<0.021	0.006	49.4	
IA-1, Richland	1.966	7	1.55	13.2	<0.021	<0.005	14.1	14.2
IA-1, Richland		7	1.96	13.3	<0.021	<0.005	14.2	
IA-2, Hedrick	2.012	8	1.62	9.45	0.025	<0.005	10.1	10.2
IA-2, Hedrick		8	1.74	9.54	0.030	<0.005	10.2	
IL-1, Wyoming	2.004	7	1.78	13.0	<0.021	<0.005	13.9	13.6
IL-1, Wyoming		7	1.81	12.5	0.029	<0.005	13.4	
IL-2, Carlyle	2.035	8	1.97	12.6	<0.021	<0.005	13.5	13.8
IL-2, Carlyle		8	2.21	13.2	<0.021	<0.005	14.1	
IN, Rockville	1.990	7	2.22	16.0	1.11	0.009	18.2	17.2
IN, Rockville		7	2.24	14.0	1.30	0.010	16.3	
KS-1, Cunningham	1.984	8	1.22	17.8	<0.021	<0.005	19.0	19.3
KS-1, Cunningham		8	1.10	18.3	<0.021	0.005	19.6	
KS-2, Hudson	2.030	7	2.20	19.3	<0.021	<0.005	20.6	21.0
KS-2, Hudson		7	2.18	19.9	<0.021	<0.005	21.3	
LA, Washington	1.993	7	2.23	17.9	0.095	<0.005	19.2	19.4
LA, Washington		7	2.11	18.3	0.097	0.006	19.6	
MI, Conklin	1.996	7	1.30	9.52	0.925	0.006	11.1	10.6
MI, Conklin		7	1.37	8.34	1.09	0.007	10.0	
MN-1, Campbell	2.001	7	1.96	12.9	0.282	<0.005	14.1	14.3
MN-1, Campbell		7	1.97	13.4	0.156	<0.005	14.5	

Table 4 (continued). Residues of Dicamba in Soybean Forage from Treatment 4

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
MN-2, Fergus Falls	2.004	7	2.58	13.9	0.275	<0.005	15.1	
MN-2, Fergus Falls		7	2.45	13.4	0.368	<0.005	14.7	14.9
MO, Fisk	2.005	7	0.359	17.0	0.063	0.006	18.2	
MO, Fisk		7	0.384	15.2	0.063	<0.005	16.3	17.3
ND-1, Carrington	2.005	7	0.621	11.3	0.302	<0.005	12.4	
ND-1, Carrington		7	0.852	11.9	0.288	<0.005	13.0	12.7
NE-1, York	2.009	7	1.53	11.9	0.350	0.006	13.1	
NE-1, York		7	1.40	11.5	0.262	<0.005	12.5	12.8
NE-2, Osceola	1.984	8	1.54	13.0	0.043	0.008	13.9	
NE-2, Osceola		8	1.66	13.0	0.059	0.006	13.9	13.9
SC, Elko	1.998	7	2.31	18.5	0.068	0.006	19.8	
SC, Elko		7	2.11	18.0	0.068	<0.005	19.3	19.6
SD-1, Centerville	1.964	7	1.65	12.0	2.32	0.006	15.1	
SD-1, Centerville		7	2.94	14.0	2.62	0.006	17.6	16.4
SD-2, Britton	1.999	7	2.76	15.8	0.423	0.006	17.3	
SD-2, Britton		7	1.85	15.2	0.437	0.006	16.7	17.0
WI-1, Delavan	1.955	7	4.01	13.7	0.555	<0.005	15.2	
WI-1, Delavan		7	3.98	14.7	0.864	<0.005	16.6	15.9
WI-2, Fitchburg	2.019	10	1.70	14.7	0.070	<0.005	15.8	
WI-2, Fitchburg		10	1.94	14.2	0.057	0.006	15.2	15.5

^a The dicamba applied is the total applied preemergence, at V3 and at R1/R2.

^b Residues are expressed as each analyte per se.

^c Total residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Average of all sites
Median of all sites
Maximum of all sites

2.04 15.8 0.342 <0.006 17.3
1.95 14.0 0.068 <0.005 15.2
5.95 47.9 2.62 0.010 51.2

Table 5. Residues of Dicamba in Soybean Forage from Bridging Sites of Treatment 5

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
AR, Proctor	1.997	7	2.26	40.6	0.174	0.019	43.6	
AR, Proctor		7	2.91	36.2	0.118	0.017	38.8	41.2
IL-2, Carlyle	1.978	8	1.33	30.9	0.030	0.007	33.0	
IL-2, Carlyle		8	1.37	31.1	0.032	0.007	33.3	33.1
KS-1, Cunningham	2.009	8	1.12	49.6	0.024	<0.005	53.0	
KS-1, Cunningham		8	0.912	54.1	<0.021	0.007	57.8	55.4
MN-2, Fergus Falls	2.003	7	4.04	26.1	0.544	<0.005	28.4	
MN-2, Fergus Falls		7	4.08	28.9	0.799	0.005	31.7	30.0

^a The dicamba applied is the total of the applications at V3 and R1/R2.

^b Residues are expressed as each analyte per se.

^c Total residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Average of the above sites	2.25	37.2	0.218	0.009	39.9
Median of the above sites	1.82	33.7	0.075	0.007	36.0
Maximum at the above sites	4.08	54.1	0.799	0.019	57.8

Table 6. Residues of Dicamba in Soybean Forage from Treatment 6

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
AR, Proctor	2.000	7	3.04	39.5	0.158	0.022	42.4	
AR, Proctor		7	2.79	36.9	0.133	0.018	39.6	41.0
IL-2, Carlyle	2.022	8	0.897	19.1	0.027	<0.005	20.4	
IL-2, Carlyle		8	0.976	24.4	<0.021	0.006	26.1	23.3
KS-1, Cunningham	2.037	8	0.970	49.3	<0.021	<0.005	52.7	
KS-1, Cunningham		8	1.01	42.9	<0.021	<0.005	45.8	49.3
MN-2, Fergus Falls	2.003	7	4.82	33.3	1.15	0.007	36.7	
MN-2, Fergus Falls		7	5.26	34.8	1.11	0.006	38.3	37.5

^a The dicamba applied is the total of the applications at V3 and R1/R2.

^b Residues are expressed as each analyte per se.

^c Total residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Average of all sites	2.47	35.0	0.330	0.009	37.7
Median of all sites	1.90	35.9	0.080	0.006	38.9
Maximum of all sites	5.26	49.3	1.15	0.022	52.7

Table 7. Residues of Dicamba in Soybean Hay from Treatment 4

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
AR, Proctor	2.000	15	1.95	28.2	0.049	<0.014	30.2	
AR, Proctor		15	2.48	37.1	0.052	<0.014	39.7	34.9
GA, Montezuma	1.984	24	0.432	11.4	<0.014	<0.014	12.2	
GA, Montezuma		24	0.377	12.5	<0.014	<0.014	13.4	12.8
IA-1, Richland	1.966	17	3.77	33.6	<0.014	<0.014	35.9	
IA-1, Richland		17	3.65	30.0	0.014	<0.014	32.1	34.0
IA-2, Hedrick	2.012	18	6.26	22.0	0.026	<0.014	23.5	
IA-2, Hedrick		18	5.83	22.7	0.021	<0.014	24.3	23.9
IL-1, Wyoming	2.004	21	0.420	19.2	0.027	<0.014	20.5	
IL-1, Wyoming		21	0.768	20.4	0.032	<0.014	21.8	21.2
IL-2, Carlyle	2.035	18	1.34	13.1	<0.014	<0.014	14.0	
IL-2, Carlyle		18	1.42	14.9	<0.014	<0.014	15.9	15.0
IN, Rockville	1.990	15	6.47	30.3	0.283	<0.014	32.7	
IN, Rockville		15	4.66	25.1	0.296	<0.014	27.1	29.9
KS-1, Cunningham	1.984	21	1.12	45.3	0.021	<0.014	48.4	
KS-1, Cunningham		21	1.49	42.0	0.017	<0.014	44.9	46.6
KS-2, Hudson	2.030	18	1.41	29.6	0.021	<0.014	31.6	
KS-2, Hudson		18	1.32	34.5	0.027	<0.014	36.9	34.3
LA, Washington	1.993	20	2.02	42.7	0.092	<0.014	45.7	
LA, Washington		20	1.95	44.4	0.108	<0.014	47.5	46.6
MI, Conklin	1.996	14	3.49	20.3	1.16	<0.014	22.9	
MI, Conklin		14	2.41	16.9	0.858	<0.014	18.9	20.9
MN-1, Campbell	2.001	17	2.33	32.1	0.021	<0.014	34.3	
MN-1, Campbell		17	1.98	27.7	<0.014	<0.014	29.6	32.0

Table 7 (continued) Residues of Dicamba in Soybean Hay from Treatment 4

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
MN-2, Fergus Falls	2.004	18	2.02	38.0	0.096	<0.014	40.7	
MN-2, Fergus Falls		18	4.15	44.2	0.128	<0.014	47.3	44.0
MO, Fisk	2.005	19	0.772	20.2	<0.014	<0.014	21.6	
MO, Fisk		19	0.706	20.9	<0.014	<0.014	22.3	22.0
ND-1, Carrington	2.005	16	4.76	24.9	0.201	<0.014	26.8	
ND-1, Carrington		16	4.74	24.5	0.125	<0.014	26.3	26.6
NE-1, York	2.009	14	1.32	31.2	0.285	<0.014	33.6	
NE-1, York		14	1.50	35.0	0.288	<0.014	37.7	35.6
NE-2, Osceola	1.984	14	3.37	35.3	<0.014	<0.014	37.7	
NE-2, Osceola		14	3.64	36.0	0.014	<0.014	38.5	38.1
SC, Elko	1.998	20	0.169	27.5	0.057	<0.014	29.4	
SC, Elko		20	0.181	32.9	0.065	<0.014	35.2	32.3
SD-1, Centerville	1.964	18	4.47	34.5	0.180	<0.014	37.0	
SD-1, Centerville		18	3.77	32.9	0.196	<0.014	35.3	36.2
SD-2, Britton	1.999	14	2.00	28.9	0.063	<0.014	30.9	
SD-2, Britton		14	1.69	27.9	0.034	<0.014	29.8	30.4
WI-1, Delavan	1.955	18	2.39	29.4	0.156	<0.014	31.6	
WI-1, Delavan		18	2.45	30.4	0.214	<0.014	32.7	32.1
WI-2, Fitchburg	2.019	22	7.18	56.4	0.218	<0.014	60.5	
WI-2, Fitchburg		22	7.33	57.1	0.153	<0.014	61.1	60.8

^a The dicamba applied is the total applied preemergence, at V3 and at R1/R2.

^b Residues are expressed as each analyte per se.

^c Total residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Average of all sites
Median of all sites
Maximum of all sites

2.68 30.1 0.130 <0.014 32.3
2.02 29.8 0.051 <0.014 31.9
7.33 57.1 1.16 <0.014 61.1

Table 8. Residues of Dicamba in Soybean Hay from Bridging Sites of Treatment 5

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
AR, Proctor	1.997	15	5.30	84.0	0.153	0.029	89.9	
AR, Proctor		15	4.33	71.3	0.112	0.033	76.3	83.1
IL-2, Carlyle	1.978	18	1.97	34.2	0.018	<0.014	36.6	
IL-2, Carlyle		18	2.33	34.0	0.016	<0.014	36.3	36.4
KS-1, Cunningham	2.009	21	2.81	128	0.040	<0.014	137	
KS-1, Cunningham		21	3.11	109	0.038	<0.014	116	127
MN-2, Fergus Falls	2.003	18	5.94	85.2	0.250	<0.014	91.3	
MN-2, Fergus Falls		18	5.97	90.5	0.291	<0.014	97.0	94.1

^a The dicamba applied is the total of the applications at V3 and R1/R2.

^b Residues are expressed as each analyte per se.

^c Total residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Average of the above sites	3.97	79.5	0.115	<0.018	85.1
Median of the above sites	3.72	84.6	0.076	<0.014	90.6
Maximum at the above sites	5.97	128	0.291	0.033	137

Table 9. Residues of Dicamba in Soybean Hay from Treatment 6

Site Code, Location	Dicamba Applied ^a (lb a.e./A)	PHI (days)	DCGA, ppm ^b	DCSA, ppm ^b	Dicamba, ppm	5-Hydroxy- dicamba, ppm ^b	Total DCSA, Dicamba and 5-OH, ppm ^c	Site Average, ppm ^c
AR, Proctor	2.000	15	4.09	71.4	0.138	0.025	76.4	
AR, Proctor		15	5.42	92.7	0.170	0.034	99.2	87.8
IL-2, Carlyle	2.022	18	4.40	23.4	<0.014	<0.014	25.0	
IL-2, Carlyle		18	2.19	31.7	<0.014	<0.014	33.9	29.4
KS-1, Cunningham	2.037	21	3.67	134	0.042	<0.014	143	
KS-1, Cunningham		21	3.69	127	0.037	<0.014	136	139
MN-2, Fergus Falls	2.003	18	6.40	95.2	0.309	<0.014	102	
MN-2, Fergus Falls		18	6.81	94.2	0.322	<0.014	101	101

^a The dicamba applied is the total of the applications at V3 and R1/R2.

^b Residues are expressed as each analyte per se.

^c Total residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Average of the above sites	4.58	83.7	0.131	<0.018	89.5
Median of the above sites	4.25	93.5	0.090	<0.014	100
Maximum at the above sites	6.81	134	0.322	0.034	143

Table 10. Decline of Residues of Dicamba in Forage from Treatment 5

Site Code, Location	Pre-Harvest Interval (days)	DCGA (ppm) ^a	DCSA (ppm) ^a	Dicamba (ppm)	5-Hydroxy- dicamba, ppm ^a	Total DCSA, Dicamba and 5-OH, ppm ^b	Average Total Residue (ppm) ^b
IA-1, Richland	3	5.93	45.9	0.091	0.008	49.1	
IA-1, Richland	3	4.94	42.7	0.073	0.007	45.7	47.4
IA-1, Richland	7	2.86	25.9	<0.021	0.005	27.7	
IA-1, Richland	7	2.86	26.2	<0.021	<0.005	28.0	27.8
IA-1, Richland	10	2.58	22.3	<0.021	<0.005	23.8	
IA-1, Richland	10	2.58	26.0	<0.021	<0.005	27.8	25.8
IA-1, Richland	14	1.88	13.4	<0.021	<0.005	14.3	
IA-1, Richland	14	1.87	14.0	<0.021	<0.005	15.0	14.7
MN-1, Campbell	3	2.94	34.4	1.08	0.007	37.8	
MN-1, Campbell	3	2.95	30.0	0.758	0.009	32.8	35.3
MN-1, Campbell	7	3.44	24.8	0.448	0.007	26.9	
MN-1, Campbell	7	2.80	22.7	0.373	<0.005	24.6	25.8
MN-1, Campbell	10	2.03	20.9	0.045	<0.005	22.4	
MN-1, Campbell	10	1.59	20.5	0.046	<0.005	21.9	22.2
MN-1, Campbell	14	1.55	15.4	<0.021	<0.005	16.5	
MN-1, Campbell	14	1.77	18.3	<0.021	<0.005	19.6	18.0

^a Residues are expressed as each analyte per se

^b Total residues are based on the EPA Definition of the Residue per 40 CFR § 180.227 and are expressed as dicamba acid equivalents

Table 11. Decline of Residues of Dicamba in Seed from Treatment 5

	Pre-Harvest Interval (days)	DCGA (ppm) ^a	DCSA (ppm) ^a	Dicamba (ppm)	5-Hydroxy- dicamba, ppm ^a	Total DCSA, Dicamba and 5- OH, ppm ^b	Average Total Residue (ppm) ^b
IA-1, Richland	73	0.024	0.019	<0.013	<0.021	<0.052	
IA-1, Richland	73	0.023	0.018	<0.013	<0.021	<0.051	<0.052
IA-1, Richland	80	0.017	0.018	<0.013	<0.021	<0.051	
IA-1, Richland	80	0.017	0.019	<0.013	<0.021	<0.052	<0.052
IA-1, Richland	87	0.022	0.018	<0.013	<0.021	<0.051	
IA-1, Richland	87	0.023	0.019	<0.013	<0.021	<0.052	<0.052
IA-1, Richland	94	0.020	0.016	<0.013	<0.021	<0.049	
IA-1, Richland	94	0.026	0.019	<0.013	<0.021	<0.053	<0.051
MN-1, Campbell	78	0.082	0.077	<0.013	<0.021	0.114	
MN-1, Campbell	78	0.080	0.074	<0.013	<0.021	0.111	0.113
MN-1, Campbell	88	0.061	0.071	<0.013	<0.021	0.108	
MN-1, Campbell	88	0.055	0.069	<0.013	<0.021	0.106	0.107
MN-1, Campbell	92	0.082	0.077	<0.013	<0.021	0.114	
MN-1, Campbell	92	0.081	0.071	<0.013	<0.021	0.108	0.111
MN-1, Campbell	100	0.073	0.068	<0.013	<0.021	0.105	
MN-1, Campbell	100	0.072	0.066	<0.013	<0.021	0.103	0.104

^a Residues are expressed as each analyte per se ^b Total residues are based on the EPA Definition of the Residue per 40 CFR §180.227 and are expressed as dicamba acid equivalents.

Table 12. Dicamba Residues in Seed Prior to Processing

Site Code, Location	Trt Number	Days from Processing to Extraction	DCGA (ppm)	DCSA (ppm)	Dicamba (ppm)	5-Hydroxy- dicamba (ppm)
NE-1, York	8	19	0.055	0.062	<0.013	<0.021
NE-1, York	8	19	0.053	0.064	<0.013	<0.021
NE-1, York	8	19	0.056	0.062	<0.013	<0.021
NE-1, York	8	19	0.055	0.071	<0.013	<0.021
		Average	0.055	0.065	<0.013	<0.021
WI-1, Delavan	8	29	0.139	0.168	<0.013	<0.021
WI-1, Delavan	8	29	0.148	0.172	<0.013	<0.021
WI-1, Delavan	8	29	0.138	0.167	<0.013	<0.021
WI-1, Delavan	8	29	0.144	0.183	<0.013	<0.021
		Average	0.142	0.173	<0.013	<0.021

Residues are expressed as each analyte per se.

Table 13. Dicamba Residues and Concentration Factors in Soybean Hulls

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	19	0.052	0.082		
NE-1, York	8	19	0.055	0.082		
NE-1, York	8	19	0.056	0.081		
NE-1, York	8	19	0.054	0.082		
		Average	0.054	0.082	0.99	1.27
WI-1, Delavan	8	28	0.136	0.251		
WI-1, Delavan	8	28	0.144	0.254		
WI-1, Delavan	8	28	0.146	0.271		
WI-1, Delavan	8	28	0.143	0.276		
		Average	0.142	0.263	1.00	1.52
Overall Average					0.99	1.40

Residues are expressed as each analyte per se.

Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 14. Dicamba Residues and Concentration Factors in Toasted Defatted Meal

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	13	0.067	0.076		
NE-1, York	8	13	0.068	0.079		
NE-1, York	8	13	0.070	0.074		
NE-1, York	8	13	0.072	0.076		
		Average	0.069	0.076	1.26	1.18
WI-1, Delavan	8	14	0.185	0.254		
WI-1, Delavan	8	14	0.198	0.268		
WI-1, Delavan	8	14	0.189	0.253		
WI-1, Delavan	8	14	0.193	0.266		
		Average	0.191	0.260	1.34	1.51
Overall Average					1.30	1.35

Residues are expressed as each analyte per se.

Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 15. Dicamba Residues and Concentration Factors in Degummed Oil

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	13	<0.010	<0.010		
NE-1, York	8	13	<0.010	<0.010		
NE-1, York	8	13	<0.010	<0.010		
NE-1, York	8	13	<0.010	<0.010		
		Average	<0.010	<0.010	<0.18	<0.16
WI-1, Delavan	8	18	<0.010	<0.010		
WI-1, Delavan	8	18	<0.010	<0.010		
WI-1, Delavan	8	18	<0.010	<0.010		
WI-1, Delavan	8	18	<0.010	<0.010		
		Average	<0.010	<0.010	<0.07	<0.06
Overall Average					<0.13	<0.11

Residues are expressed as each analyte per se.

Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 16. Dicamba Residues and Concentration Factors in Refined Bleached Deodorized Oil

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	12	<0.010	<0.010		
NE-1, York	8	12	<0.010	<0.010		
NE-1, York	8	12	<0.010	<0.010		
NE-1, York	8	12	<0.010	<0.010		
		Average	<0.010	<0.010	<0.18	<0.16
WI-1, Delavan	8	17	<0.010	<0.010		
WI-1, Delavan	8	17	<0.010	<0.010		
WI-1, Delavan	8	17	<0.010	<0.010		
WI-1, Delavan	8	17	<0.010	<0.010		
		Average	<0.010	<0.010	<0.07	<0.06
Overall Average					<0.13	<0.11

Residues are expressed as each analyte per se
Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 17. Dicamba Residues and Concentration Factors in Crude Lecithin

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	22	<0.010	<0.010		
NE-1, York	8	22	<0.010	<0.010		
NE-1, York	8	22	<0.010	<0.010		
NE-1, York	8	22	<0.010	<0.010		
		Average	<0.010	<0.010	<0.18	<0.16
WI-1, Delavan	8	21	<0.010	0.040		
WI-1, Delavan	8	21	<0.010	0.044		
WI-1, Delavan	8	21	<0.010	0.031		
WI-1, Delavan	8	21	<0.010	0.033		
		Average	<0.010	0.037	<0.07	0.21
Overall Average					<0.13	<0.18

Residues are expressed as each analyte per se
Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 18. Dicamba Residues and Concentration Factors in Defatted Flour

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	30	0.068	0.074		
NE-1, York	8	30	0.067	0.070		
NE-1, York	8	30	0.067	0.071		
NE-1, York	8	30	0.066	0.069		
		Average	0.067	0.071	1.23	1.10
WI-1, Delavan	8	18	0.187	0.242		
WI-1, Delavan	8	18	0.180	0.243		
WI-1, Delavan	8	18	0.181	0.239		
WI-1, Delavan	8	18	0.178	0.251		
		Average	0.182	0.244	1.28	1.41
Overall Average					1.25	1.26

Residues are expressed as each analyte per se

Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 19. Dicamba Residues and Concentration Factors in Protein Isolate

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	21	<0.010	0.010		
NE-1, York	8	21	<0.010	<0.010		
NE-1, York	8	21	<0.010	<0.010		
NE-1, York	8	21	<0.010	<0.010		
		Average	<0.010	<0.010	<0.18	<0.16
WI-1, Delavan	8	12	0.018	0.029		
WI-1, Delavan	8	12	0.017	0.028		
		Average	0.017	0.028	0.12	0.16
Overall Average					<0.15	<0.16

Residues are expressed as each analyte per se

Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 20. Dicamba Residues and Concentration Factors in Protein Concentrate

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	20	<0.010	<0.010		
NE-1, York	8	20	<0.010	<0.010		
NE-1, York	8	20	<0.010	<0.010		
NE-1, York	8	20	<0.010	<0.010		
		Average	<0.010	<0.010	<0.18	<0.16
WI-1, Delavan	8	11	0.015	0.014		
WI-1, Delavan	8	11	0.014	0.015		
WI-1, Delavan	8	11	0.015	0.014		
WI-1, Delavan	8	11	0.016	0.015		
		Average	0.015	0.015	0.11	0.08
Overall Average					<0.14	<0.12

Residues are expressed as each analyte per se
Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 21. Dicamba Residues and Concentration Factors in Soymilk

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	23	<0.010	<0.010		
NE-1, York	8	23	<0.010	<0.010		
NE-1, York	8	23	<0.010	<0.010		
NE-1, York	8	23	<0.010	<0.010		
		Average	<0.010	<0.010	<0.18	<0.16
WI-1, Delavan	8	15	0.010	0.015		
WI-1, Delavan	8	15	0.010	0.016		
WI-1, Delavan	8	15	0.011	0.016		
WI-1, Delavan	8	15	0.010	0.016		
		Average	0.010	0.016	0.07	0.09
Overall Average					<0.13	<0.12

Residues are expressed as each analyte per se
Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 22. Dicamba Residues and Concentration Factors in Tofu

Site Code, Location	Trt No.	Days from Processing to Extraction	Residues (ppm)		Concentration Factor	
			DCGA	DCSA	DCGA	DCSA
NE-1, York	8	22	<0.010	<0.010		
NE-1, York	8	22	<0.010	<0.010		
NE-1, York	8	22	<0.010	<0.010		
NE-1, York	8	22	<0.010	<0.010		
		Average	<0.010	<0.010	<0.18	<0.16
WI-1, Delavan	8	15	0.010	0.015		
WI-1, Delavan	8	15	<0.010	0.015		
WI-1, Delavan	8	15	<0.010	0.015		
WI-1, Delavan	8	15	0.010	0.015		
		Average	<0.010	0.015	<0.07	0.09
Overall Average					<0.13	<0.12

Residues are expressed as each analyte per se

Dicamba and 5-OH dicamba residues in whole seed were <LOQ and in all processed fractions were <0.01 ppm.

Table 23. Summary of Soybean Processing Concentration Factors

Fraction	DCGA Concentration Factor	DCSA Concentration Factor
Hulls	0.99	1.40
Toasted Defatted Meal	1.30	1.35
Degummed Oil	<0.13	<0.11
Refined Bleached Deodorized Oil	<0.13	<0.11
Crude Lecithin	<0.13	<0.18
Defatted Flour	1.25	1.26
Protein Isolate	<0.15	<0.16
Protein Concentrate	<0.14	<0.12
Soymilk	<0.13	<0.12
Tofu	<0.13	<0.12

Table 24. Recovery of Dicamba Analytes from Fortified Soybean Seed

Analyte	Matrix	Number of Fortified Samples	Level, ppm ^a	Average Percent Recovery	RSD (%)
DCSA	Seed ^b	15	0.01	99.31	13.07
		14	0.02	104.12	9.13
		14	0.05	104.97	5.50
		4	0.10	112.18	1.84
		6	0.20	103.24	7.14
		5	0.40	105.23	7.47
		2	1.0	105.46	n/a
		3	5.0	96.46	6.33
DCGA	Seed	15	0.01	81.59	11.83
		15	0.02	93.18	12.96
		13	0.05	95.03	14.14
		4	0.10	90.66	6.01
		6	0.20	96.83	19.15
		5	0.40	101.68	14.27
		2	1.0	121.39	n/a ^c
		3	5.0	123.93	10.72
Dicamba	Seed	15	0.01	82.17	22.86
		14	0.02	94.10	12.19
		14	0.05	98.30	9.44
		4	0.10	102.45	4.96
		5	0.20	99.09	5.47
		4	0.40	97.15	5.95
		2	1.0	107.18	n/a
		2	5.0	99.00	n/a
5-Hydroxy-dicamba	Seed	16	0.01	73.63	39.29
		15	0.02	92.25	19.43
		15	0.05	93.46	11.25
		4	0.10	110.53	4.66
		7	0.20	98.53	9.34
		5	0.40	96.25	4.83
		1	1.0	104.00	n/a
		3	5.0	104.00	10.74

^a The ppm level is expressed as each analyte per se. Fortifications conducted only for use in the statistical analysis to determine the LOD and LOQ are not listed, but may be found in Appendix 5.

^b Seed fortified samples include the fortification of cleaned seed from the processing.

^c n/a = not applicable

Table 25. Recovery of Dicamba Analytes from Fortified Soybean Forage

Analyte	Matrix	Number of Fortified Samples	Level, ppm ^a	Average Percent Recovery	RSD (%)
DCSA	Forage	13	0.01	90.88	10.46
		16	0.02	95.72	8.74
		11	0.05	97.90	7.05
		7	0.1	106.03	10.17
		10	0.2	102.92	2.30
		4	0.4	104.31	4.49
		1	5	85.80	n/a ^b
		1	10	89.18	n/a
		2	25	88.80	n/a
		4	50	93.85	4.09
		2	150	103.33	n/a
DCGA	Forage	15	0.01	83.83	10.18
		15	0.02	93.16	8.20
		7	0.05	96.78	13.69
		5	0.1	91.84	10.27
		10	0.2	88.42	17.07
		4	0.4	93.13	4.67
		1	5	110.80	n/a
		1	10	108.00	n/a
		2	25	97.60	n/a
		4	50	109.30	8.64
		2	150	125.00	n/a
Dicamba	Forage	14	0.01	87.07	32.91
		15	0.02	93.15	18.08
		10	0.05	97.96	10.88
		7	0.1	106.76	10.97
		9	0.2	100.74	8.79
		4	0.4	109.27	13.07
		1	5	89.19	n/a
		1	10	90.30	n/a
		2	25	89.40	n/a
		4	50	99.45	13.76
		2	150	119.67	n/a

^a The ppm level is expressed as each analyte per se. Fortifications conducted only for use in the statistical analysis to determine the LOD and LOQ are not listed, but may be found in Appendix 5.

^b n/a = not applicable

Table 25 (continued). Recovery of Dicamba Analytes from Fortified Soybean Forage

Analyte	Matrix	Number of Fortified Samples	Level, ppm ^a	Average Percent Recovery	RSD (%)
5-Hydroxy-dicamba	Forage	16	0.01	84.54	15.21
		19	0.02	93.76	8.30
		10	0.05	100.52	8.02
		7	0.10	103.50	5.39
		4	0.20	101.50	10.69
		2	0.40	105.25	n/a ^b
		2	50	109.00	n/a
		2	150	118.00	n/a

^aThe ppm level is expressed as each analyte per se.

^bn/a = not applicable

Table 26. Recovery of Dicamba Analytes from Fortified Soybean Hay

Analyte	Matrix	Number of Fortified Samples	Level, ppm ^a	Average Percent Recovery	RSD (%)
DCSA	Hay	12	0.01	96.10	16.55
		13	0.02	96.93	10.58
		10	0.05	101.47	5.70
		5	0.1	111.39	4.41
		8	0.2	104.26	5.36
		8	0.4	105.84	4.36
		1	5	91.96	n/a ^b
		2	10	98.72	n/a
		2	50	106.59	n/a
		2	100	107.00	n/a
		2	150	91.00	n/a
DCGA	Hay	12	0.01	81.23	13.57
		13	0.02	89.15	10.74
		10	0.05	94.15	9.75
		5	0.1	79.41	8.93
		7	0.2	89.67	15.37
		7	0.4	89.30	18.80
		1	0.8	114.69	n/a
		2	10	77.60	n/a
		3	50	99.53	6.73
		2	100	92.70	n/a
		2	150	98.00	n/a
Dicamba	Hay	12	0.01	94.76	28.60
		13	0.02	94.73	13.64
		10	0.05	103.74	10.13
		5	0.1	102.96	4.82
		3	0.2	111.11	11.22
		3	0.4	115.79	1.96
		2	50	112.60	n/a
5-Hydroxy-dicamba	Hay	13	0.01	64.53	30.25
		14	0.02	86.05	13.02
		11	0.05	99.29	5.66
		6	0.1	103.33	2.26
		2	0.2	104.00	n/a
		1	0.4	102.25	n/a

^a The ppm level is expressed as each analyte per se. Fortifications conducted only for use in the statistical analysis to determine the LOD and LOQ are not listed, but may be found in Appendix 5.

Table 27. Recovery of Dicamba Analytes from Fortified Soybean Processed Fractions

Matrix ^a	Analyte	Number of Fortified Samples	Amount Fortified ^b	Percent Recovery	RSD (%)
Soybean Hulls	DCSA	2	0.01	79.15	n/a ^c
		1	0.02	108.5	
		1	0.05	101.00	
		1	0.4	98.75	
		1	2.0	98.00	
	DCGA	2	0.01	72.20	
		1	0.02	97.00	
		1	0.05	89.40	
		1	0.4	105.65	
		1	2	116.48	
	Dicamba	2	0.01	78.30	
		1	0.02	87.65	
		1	0.05	100.06	
		1	0.4	96.75	
		1	2.0	95.50	
	5-Hydroxy-dicamba	2	0.01	80.85	
		1	0.02	82.00	
		1	0.05	105.20	
		1	0.4	102.25	
		1	2.0	101.50	
Toasted Defatted Meal	DCSA	3	0.01	104.33	3.64
		1	0.2	98.35	n/a
		1	0.4	93.25	
		1	2.0	92.00	
	DCGA	3	0.01	71.88	1.26
		1	0.2	78.83	n/a
		1	0.4	80.14	
		1	2.0	104.88	
	Dicamba	3	0.01	75.87	3.99
		1	0.2	102.00	n/a
		1	0.4	98.25	
		1	2.0	83.50	
	5-Hydroxy-dicamba	3	0.01	66.23	10.15
		1	0.2	102.00	n/a
		1	0.4	90.25	
		1	2.0	96.00	

^a The recoveries from the fortification of the seed cleaned prior to processing were combined with the recoveries from the soybean seed RAC samples, and are not presented separately.

^b The ppm level is expressed as each analyte per se.

^c n/a = not applicable

Table 27 (continued). Recovery of Dicamba Analytes from Fortified Processed Fractions

Matrix	Analyte	Number of Fortified Samples	Amount Fortified	Percent Recovery	RSD (%)
Degummed Oil	DCSA	3	0.01	88.55	8.82
		2	0.2	97.77	n/a ^c
	DCGA	3	0.01	69.05	1.91
		2	0.2	83.37	n/a
	Dicamba	3	0.01	82.95	11.34
		2	0.2	101.00	n/a
	5-Hydroxy-dicamba	3	0.01	84.17	15.06
		2	0.2	95.26	n/a
Refined, Bleached, Deodorized (RBD) Oil	DCSA	3	0.01	95.41	8.15
		1	0.2	101.58	n/a
		1	0.4	97.43	
	DCGA	3	0.01	73.64	7.98
		1	0.2	82.82	n/a
		1	0.4	110.50	
	Dicamba	3	0.01	85.70	8.69
		1	0.2	95.00	n/a
		1	0.4	94.25	
	5-Hydroxy-dicamba	3	0.01	75.70	15.69
		1	0.2	90.31	n/a
		1	0.4	95.96	n/a
Crude Lecithin	DCSA	3	0.01	93.58	4.90
		3	0.2	96.72	8.16
		2	0.4	107.25	n/a
		2	2.0	107.75	
	DCGA	3	0.01	70.38	8.77
		3	0.2	78.79	2.06
		2	0.4	90.75	n/a
		2	2.0	101.00	
	Dicamba	3	0.01	83.43	18.13
		3	0.2	86.06	10.71
		2	0.4	106.69	n/a
		2	2.0	106.99	
	5-Hydroxy-dicamba	3	0.01	84.06	7.93
		3	0.2	98.95	4.04
		2	0.4	106.92	n/a
		2	2.0	102.98	

^a The recoveries from the fortification of the seed cleaned prior to processing were combined with the recoveries from the soybean seed RAC samples, and are not presented separately.

^b The ppm level is expressed as each analyte per se.

^c n/a = not applicable

Table 27 (continued). Recovery of Dicamba Analytes from Soybean Processed Fractions

Matrix	Analyte	Number of Fortified Samples	Amount Fortified ^a	Percent Recovery	RSD (%)
Defatted Flour	DCSA	3	0.01	106.30	14.90
		2	0.02	99.30	n/a ^b
		2	0.05	100.02	
		1	0.4	92.25	
		1	2	89.50	
	DCGA	1	0.01	85.70	n/a
		2	0.02	95.04	
		2	0.05	88.02	
	Dicamba	3	0.01	104.60	13.65
		2	0.02	94.75	n/a
		2	0.05	103.80	
		1	0.4	97.75	
		1	2	85.00	
	5-Hydroxy-dicamba	3	0.01	77.25	5.39
		2	0.02	77.00	n/a
		2	0.05	91.80	
		1	0.4	90.48	
		1	2	99.00	
Protein Isolate	DCSA	4	0.01	98.00	9.53
		1	0.02	110.00	n/a
		1	0.05	107.00	
		3	0.2	97.65	3.75
	DCGA	2	0.01	84.93	n/a
		1	0.02	98.68	
		1	0.05	105.47	
		1	0.2	87.00	
	Dicamba	4	0.01	87.90	14.69
		1	0.02	85.00	n/a
		1	0.05	102.80	
		3	0.2	92.81	11.36
	5-Hydroxy-dicamba	4	0.01	86.78	4.44
		1	0.02	103.29	n/a
		1	0.05	97.71	
		3	0.2	92.43	7.91

^a The ppm level is expressed as each analyte per se.

^b n/a = not applicable

Table 27 (continued). Recovery of Dicamba Analytes from Soybean Processed Fractions

Matrix	Analyte	Number of Fortified Samples	Amount Fortified ^a	Average Percent Recovery	RSD (%)
Protein Concentrate	DCSA	4	0.01	100.60	4.88
		1	0.02	108.00	n/a ^b
		2	0.05	100.90	
		2	0.2	94.21	
	DCGA	2	0.01	84.64	
		1	0.02	101.04	
		2	0.05	92.21	
	Dicamba	4	0.01	83.73	17.48
		1	0.02	107.00	n/a
		2	0.05	94.51	
		2	0.20	98.25	
	5-Hydroxy-dicamba	4	0.01	86.48	4.43
		1	0.02	104.37	n/a
		2	0.05	102.55	
		2	0.20	91.25	
Soymilk	DCSA	3	0.01	99.00	0.93
		1	0.02	104.50	n/a
		1	0.05	109.80	
		3	0.2	95.00	6.59
	DCGA	2	0.01	84.77	n/a
		1	0.02	101.42	
		1	0.05	102.17	
		1	0.20	92.50	
	Dicamba	3	0.01	90.27	8.29
		1	0.02	83.00	n/a
		1	0.05	106.00	
		3	0.20	94.33	7.45
	5-Hydroxy-dicamba	3	0.01	75.70	15.69
		1	0.02	104.49	n/a
		1	0.05	100.20	
		3	0.2	93.00	9.83
Tofu	DCSA	3	0.01	96.04	9.48
		3	0.2	97.17	8.73
	DCGA	3	0.01	67.66	5.10
		3	0.2	80.47	7.02
	Dicamba	3	0.01	82.88	5.19
		3	0.2	92.69	5.12
	5-Hydroxy-dicamba	3	0.01	95.08	3.15
		3	0.2	99.38	4.99

^a The ppm level is expressed as each analyte per se.

^b n/a = not applicable

Table 28. LOD and LOQ of the Analyses of Soybean Forage, Hay and Seed for Dicamba Residues

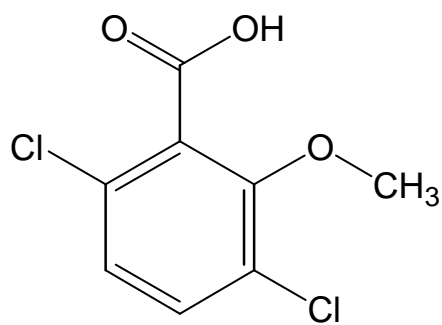
		LOD and LOQ ^a (ppm ^b)			
Matrix	Parameter	DCGA	DCSA	Dicamba	5-Hydroxy-dicamba
Forage	LOD	0.004	0.012	0.015	0.004
	LOQ	0.006	0.013	0.021	0.005
Hay	LOD	0.006	0.006	0.011	0.010
	LOQ	0.013	0.007	0.014	0.014
Seed	LOD	0.006	0.004	0.010	0.014
	LOQ	0.011	0.005	0.013	0.021

^a The LOQ is the LOQ_{20%}, corresponding to a coefficient of variation of 20%.

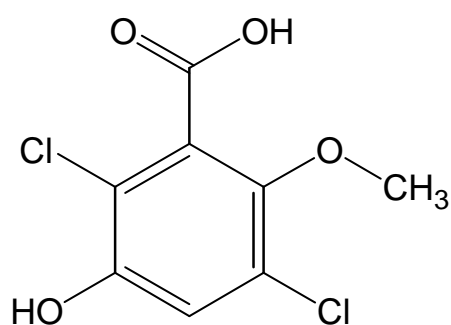
^b The LOD and LOQ are expressed as each analyte per se. The LOQ values were adjusted to three significant figures prior to converting residues below the LOQ to read <0.nnn in the report tables (where 0.nnn is the LOQ for that analyte).

FIGURES

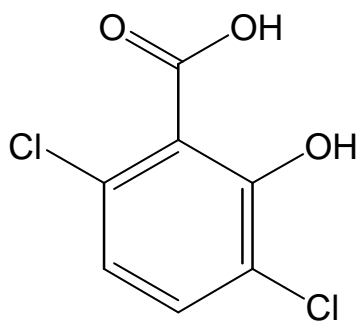
Figure 1. Analyte Structures



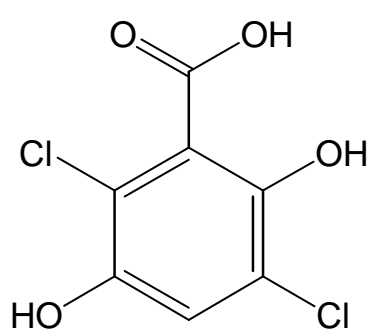
Dicamba



5-Hydroxydicamba



3,6-Dichlorosalicylic Acid



3,6-Dichlorogentisic Acid

Figure 2. Decline of Dicamba Residues in Soybean Forage

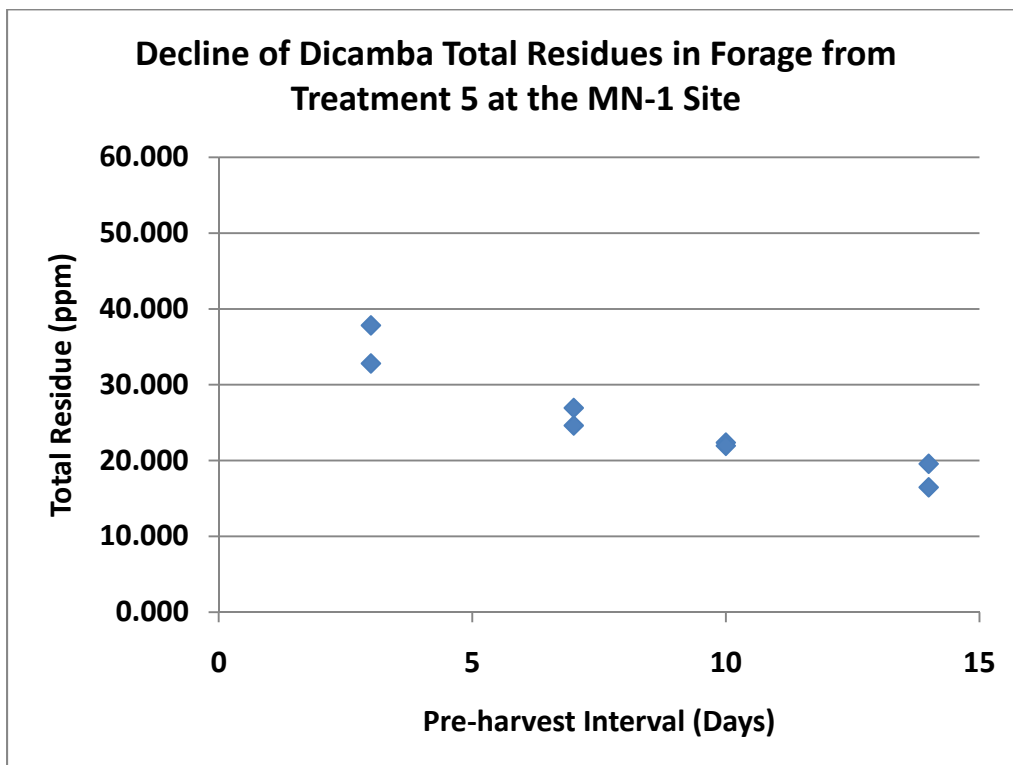
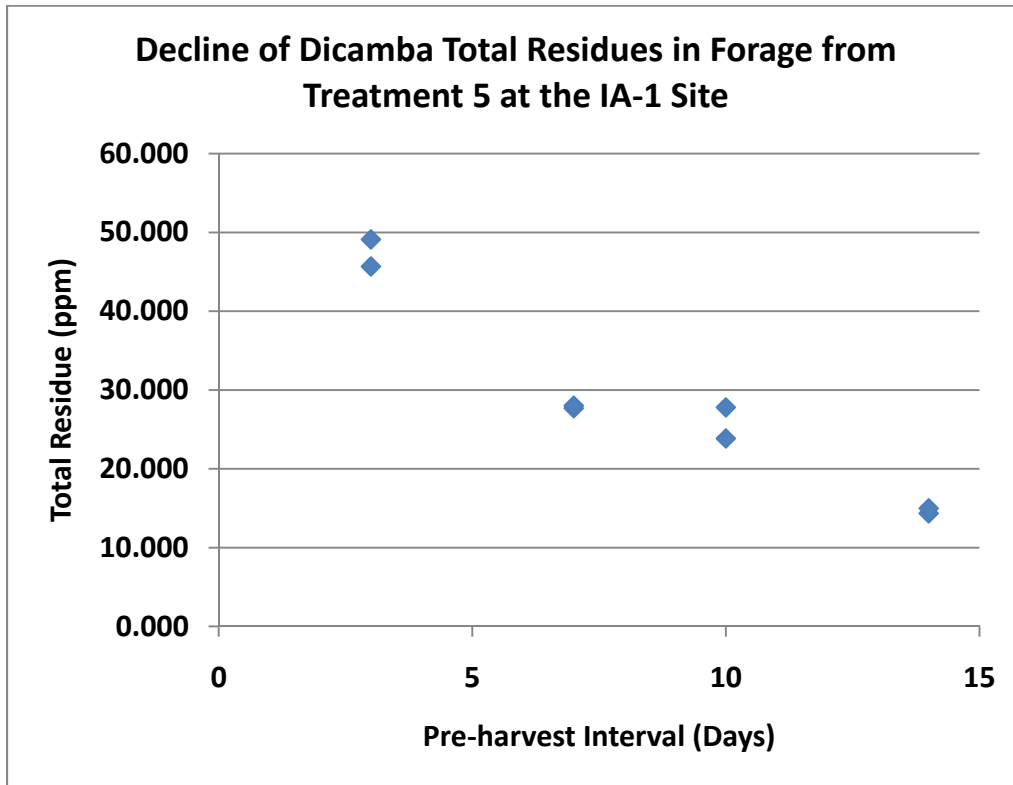
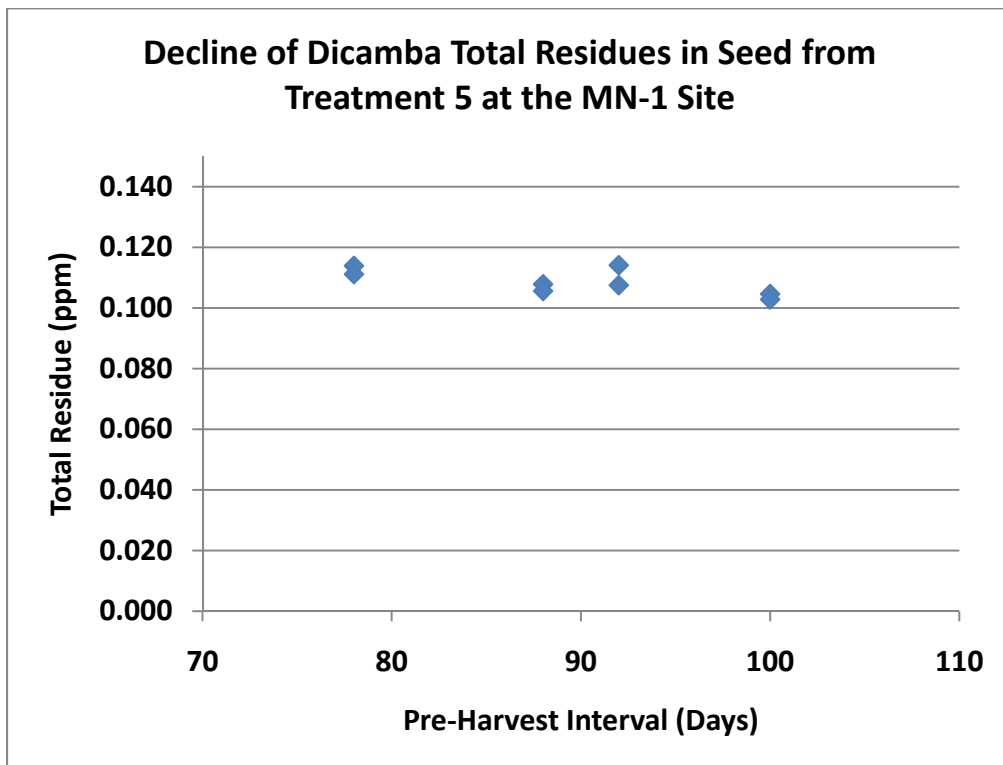
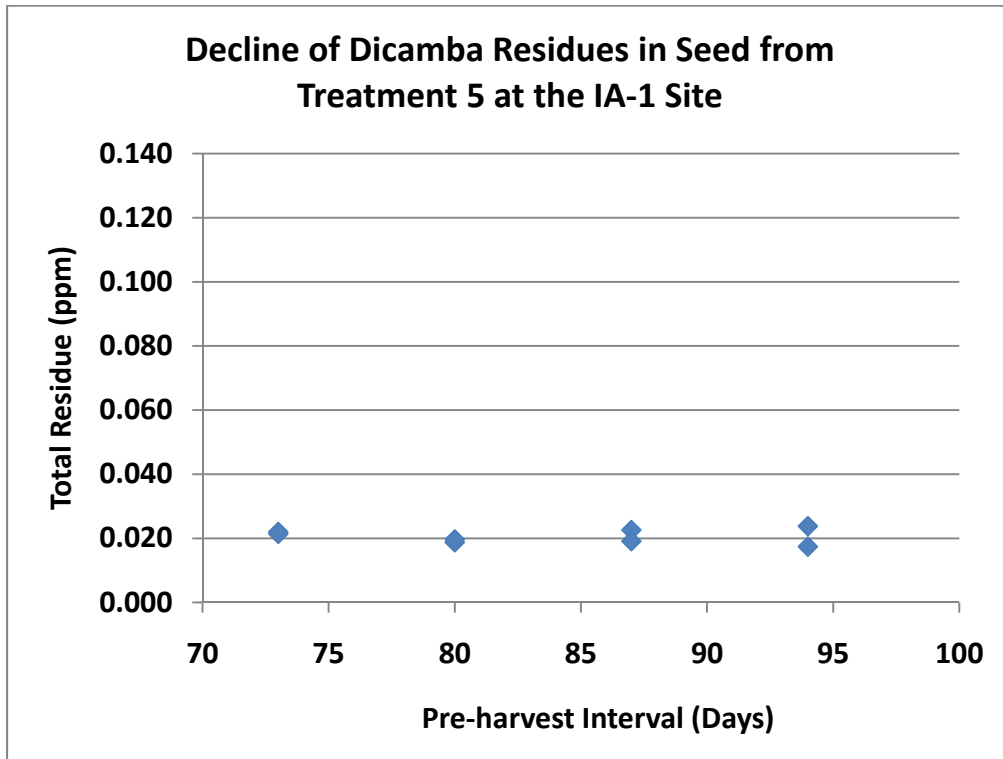


Figure 3. Decline of Dicamba Residues in Soybean Seed



APPENDICES

Appendix 1. Protocol and Amendments

RESIDUE CHEMISTRY PROTOCOL

Study Number: REG-08-096

TITLE

Determination of Dicamba Residues in Soybean Commodities after Preemergence and
Postemergence Application to Dicamba-Tolerant Soybean MON 87708

YEAR

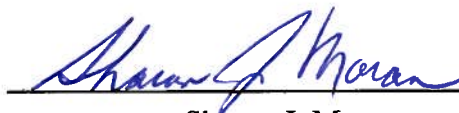
2008

BY

Monsanto Company
800 North Lindbergh Blvd.
St. Louis, Missouri 63167

APPROVED BY:

Study Director:

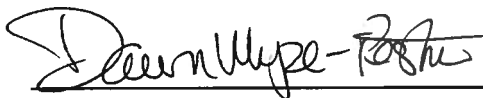


Sharon J. Moran
V2B, (314) 694-8615

Date:

4/16/2008

Sponsor
Representative:



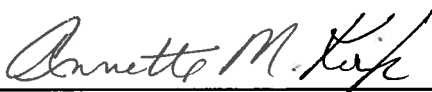
Dawn Wyse-Pester
C3NE, (314) 694-4092

Date:

4/16/2008

REVIEWED BY:

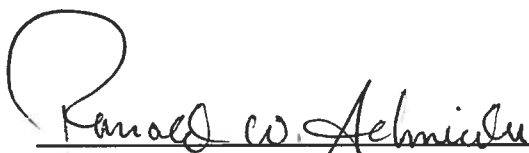
Chemical
Registration
Manager:



Annette M. Kirk
A2ND, (314) 694-8890

Date: 4/14/2008

BRS Registration
Manager



Ronald W. Schneider
E3NB, (314) 694-3263

Date: 4/14/08

Quality Assurance:

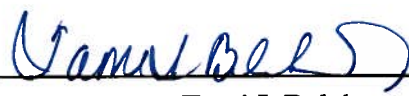


Carrie L. Logan
V2A, (314) 694-8803

Date: 4/10/08

ACCEPTED BY:

Field Research
Management
Contractor:



Tami I. Belcher
Grayson Research
(919) 528-5508

Date: 15 Apr 2008

1 TITLE

Determination of Dicamba Residues in Soybean after Preemergence and Postemergence Application to Dicamba-Tolerant Soybean MON 87708

2 PURPOSE

The purpose of this residue study is to determine residue levels of dicamba and its major metabolites in dicamba-tolerant MON 88708 soybean commodities following applications of formulations of dicamba herbicide. These data may be used to support the pesticide label registration under the U.S. Environmental Protection Agency Residue Chemistry Test Guidelines, OPPTS 860.1500 - Crop Field Trials and OPPTS 860.1520 Processed Food /Feed.

3 SPONSOR

Monsanto Company
800 North Lindbergh Blvd.
St. Louis, Missouri 63167
(314) 694-1000

4 TESTING FACILITY

Monsanto Company
Environmental Sciences Technology Center
800 North Lindbergh Blvd.
St. Louis, Missouri 63167
(314) 694-1000

5 TESTING FACILITY MANAGEMENT

Monte A. Marshall
Monsanto Company O3D
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Phone: (314) 694-8299
Fax: (314) 694-5925

6 STUDY DIRECTOR

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7 FIELD RESEARCH MANAGEMENT CONTRACTOR

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211 N. Main St. (Courier)
Creedmoor, NC 27522
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FAX: (919) 528-5509
Email: TBelcher@graysonfarm.com

8 CONFIDENTIALITY

All information regarding the identity of the dicamba-tolerant soybeans, test substance, samples, test plots, and data must be kept strictly confidential.

Test plots are to be considered as restricted access areas with measures taken to exclude unauthorized persons from the test area. No plot designations in or around the test area will be made that identify the test substance or the Sponsor.

No raw data, worksheets, data or information summaries, reports, or other information related to this protocol may be revealed or released to any third party without prior notification and authorization of Monsanto.

9 STUDY DATES

9.1 Proposed Experimental Start Date:

April 2008

9.2 Proposed Experimental Termination Date:

June 2009

9.3 Projected Study Completion Date:

August 2009

10 TEST SUBSTANCE

10.1 Identification

10.1.1 Test Substance 1

Test Substance 1 is MON 54140, a water-soluble formulation. The active ingredient is dicamba, formulated as the diglycolamine salt. The nominal concentration of dicamba acid equivalent is 480 g /L or 4 lb /gal.

Monsanto Code Number:	MON 54140
EPA Registration Number:	7969-137
Trade Name:	Clarity
Lot Number:	GLP-0804-19315-F

Active Ingredient

Common Name:	dicamba
Chemical Name:	3,6-dichloro-2-methoxybenzoic acid, diglycolamine salt
CAS Registry Number:	104040-79-1

10.1.2 Test Substance 2

Test substance 2 is a water soluble formulation. The active ingredient is dicamba, formulated as the monoethanolamine salt. The nominal concentration of dicamba acid equivalent is 4 lb dicamba acid equivalent per gallon.

Monsanto Code Number:	MON 11955
EPA Registration Number:	n/a
Trade Name:	n/a
Lot Number:	GLP-0803-19268-F

Active Ingredient

Common Name:	dicamba
Chemical Name:	3,6-dichloro-2-methoxybenzoic acid, monoethanolamine salt
CAS Registry Number:	n/a

10.1.3 Test Substance 3

Test substance 3 is a microencapsulated formulation in which the active ingredient is formulated as the 1-dodecyl-2-pyrrolidinone salt.

Monsanto Code Number:	MON 11958
EPA Registration Number:	n/a
Trade Name:	n/a
Lot Number:	GLP-0803-19294-F

Active Ingredient

Common Name:	dicamba
Chemical Name:	3,6-dichloro-2-methoxybenzoic acid, 1-dodecyl-2-pyrrolidinone salt
CAS Registry Number:	n/a

10.2 Characterization

The test substances will be characterized under GLP prior to their shipment for use in this study. Standard Operating Procedures shall govern analysis of the test substances. The results of the test substance analysis will be communicated to the Study Director prior to shipment of any test substance for use in this study.

All test substance analysis raw data for Test Substances 2 and 3, and a sample of each of the test substances shall be archived by the Sponsor. The test substance analysis raw data

for Test Substance 1 will be retained at BASF Corporation, which provided a GLP-compliant COA for Test Substance 1.

10.3 Stability

The test substance must be stored under the conditions stated on the container label.

MON 54140 has been demonstrated to be stable for 30 days at 54 ± 5 °C and for one year at 25 ± 9 °C. No significant changes in pH and water dilutability were observed in HDPE after one year at 25 ± 9 °C (MRID 43758504).

The stability of MON 11955 and of MON 11958 will be determined concurrent with the study.

10.4 Solubility

The test substances are water-soluble liquid formulations.

10.5 Safety Precautions

No special safety precautions, other than those on the label for MON 54140, are required for the test substances. MON 11955 and MON 11958 are formulations under development; safety precautions for those test substances are consistent with those for MON 54140. Always use due caution in the handling and use of any test substance. Do not take internally, and avoid contact with eyes or clothing. A Material Safety Data Sheet will be provided with each test substance.

11 CONTROL SUBSTANCES

None

12 REFERENCE SUBSTANCES

Refer to Annex D (to be added by amendment) for information regarding reference substances.

13 TEST SYSTEM

13.1 Description

The test system used in all control and treated plots will be dicamba-tolerant soybean MON 87708; in addition to the dicamba tolerance trait, these seeds will be stacked with a glyphosate-tolerance trait. Seed for the test plots are USDA-APHIS regulated and will be supplied by the sponsor. The seed identification and the lot number of the seed received by the Field Principal Investigator (FPI) will be recorded in the field notebook, or a copy of the seed container label(s) must be retained in the field data.

13.2 Justification

Use of dicamba-tolerant soybean MON 88708 in this study is required to generate data that may be used to support pesticide label registration for preemergence or postemergence (in-crop) applications of dicamba-based herbicides over the top of dicamba-tolerant soybean MON 87708.

13.3 Compliance with and Documentation of APHIS Requirements

The dicamba-tolerant soybean seed used in this study is currently regulated by the U.S. Animal and Plant Health Inspection Service (APHIS). **Study participants must follow all relevant APHIS regulations and Monsanto Soybean Field Release Design Protocol to meet USDA Performance Standards.** For emphasis, this protocol includes key APHIS requirements, but study participants must refer to the separate Compliance Packet for the full detailed handling and documentation requirements. Data collected solely to meet APHIS requirements will be retained separately from the study file and will not be included in the final report.

14 EXPERIMENTAL DESIGN

14.1 Site Selection

The 22 test site locations in the fifteen states shown in the following table represent major soybean growing regions in the U.S and the northern states represent major soybean growing regions in Canada. In 2007, these fifteen states accounted for 82% of the planted soybean acres in the U.S. (USDA National Agricultural Statistics Service¹).

<u>Number and Location of U.S. Crop Field Trials</u>		
U.S. EPA Region	State	Number of Trials
2	GA	1
2	SC	1
4	LA	1
4	AR	1
4	MO	1
5	IL	2
5	IN	1
5	IA	2
5	KS	2
5	MI	1
5	MN	2
5	NE	2
5	ND	1
5	SD	2
5	WI	2

14.2 Field Phase

Refer to Annex A of this protocol for details on the field phase of the study, and Annex B for the list of field principal investigators and field sites.

¹ http://www.nass.usda.gov/QuickStats/PullData_US.jsp (downloaded US and States data in csv format).

14.3 Processing Phase

Refer to Annex C of this protocol (to be added by amendment) for details on the processing phase of the study.

14.4 Analysis Phase

Refer to Annex D of this protocol (to be added by amendment) for details on the sample analysis phase of the study.

14.5 Standard Operating Procedures

Standard Operating Procedures shall govern all phases of this study, except where superseded by this protocol.

14.6 Protocol Amendments

All changes to this approved protocol and annexes must be documented along with the reason for the change, signed by the Study Director and a Sponsor Representative, dated, and maintained with the protocol.

14.7 Deviations to the Protocol and Standard Operating Procedures

The Study Director shall be informed of all deviations from procedures specified in this protocol and from SOPs in use in the study. FPIs must communicate any protocol or SOP deviations occurring in the field phase of the study to the Field Research Management Contractor (FRMC). Major deviations that could possibly affect the results or conduct of the study should be communicated to the Study Director immediately. All deviations must be documented in writing and signed by the Study Director.

14.8 Deviations from the Field Release Design Protocol

Any APHIS compliance incident must be reported to the Monsanto Compliance Specialist (identified in the Compliance Packet) immediately (no later than 24 hours).

14.9 Data Analysis and Statistical Methods

Statistical analyses of the data will include regression analysis of calibration standards, and determination of the LOD and LOQ in the residue analysis, and may include calculation of average residue levels from appropriate samples. The determination of the LOD and LOQ will be conducted using the SAS statistical program by a statistician within the Monsanto Center for Regulatory and Research Statistics in Agriculture.

15 RECORDS AND DATA RETENTION REQUIREMENTS

15.1 Records – General

All data and information generated during the conduct of this study must be recorded directly and promptly, either electronically or on paper. Entries on paper must be made legibly in indelible ink. Data and information shall never be recorded in pencil. All paper entries must be dated on the day of entry and signed (or initialed) by the person entering the data. Computer printouts that are considered to be raw data must be signed (or initialed) and dated after review. Any change in entries must be made so as not to

obscure the original entry, must indicate the reason for such change, and must be signed (or initialed) and dated at the time of the change.

For this study, “raw data” is defined as any paper laboratory or field worksheets, computer printouts, records, memoranda, notes, or exact copies thereof, which are the result of original observations and activities of a study and are necessary for the reconstruction and evaluation of the study. Any electronic data specified by SOP as raw data is included. In the event that exact transcripts or copies of raw data have been prepared, the certified exact copy or exact transcript may be substituted for the original source as raw data. An exact copy must be certified by stamping, “This is an exact copy of the original document” or an equivalent statement on each page, and must be signed (or initialed) and dated by the person making the copy.

15.2 Signatures

The names, signatures, and initials of all individuals recording data and/or observations for this study must be supplied in the data package.

15.3 Study Final Report

A final report with a GLP Compliance and QAU Statements for this study will be prepared in accordance with FIFRA GLP guidelines. A signed and dated report of the field phase of the study with GLP Compliance and QAU Statements will be prepared by the FRMC, and included in the final report.

15.4 Retention of Data and Records

Records will be retained of all field and analytical raw data, the protocol and all amendments and deviations thereto, the field sub-report, the final report and copies of all letters, memoranda, and other correspondence related to this study. Original field site facility records will be maintained at the respective field site; however copies related to this study may be retained with the study file by the Sponsor. Upon study completion, all study specific original documentation, records, and raw data will be transferred to the Monsanto Regulatory Archives.

16 REGULATORY COMPLIANCE AND QUALITY ASSURANCE

This study will be performed in compliance with the United States EPA Good Laboratory Practice Standards as specified in 40 CFR Part 160.

Monsanto Quality Assurance Unit (QAU) will have overall responsibility for ensuring management that the study is conducted in conformance with the specified regulations. Monsanto QAU will conduct inspections/audits for the analytical phase, analytical data and final report and review the field report. Written reports of inspection/audit findings [per 40 CFR 160.35(b)(3)] will be reported to the Study Director and Monsanto Testing Facility Management (at a minimum). QA oversight for the field phase is detailed in Annex A. The Testing Facility, each field test site, and any other subcontractors used for the conduct of this study will provide a Quality Assurance statement for their respective portion of the study.

17 PROTOCOL ANNEXES

The following annexes are a part of this protocol and contain information relevant to the performance of a specific phase of the study. A copy of this protocol and relevant annexes will be provided to study participants.

- Annex A: Field Phase
- Annex B: Field Principal Investigators
- Annex C: Processing Phase (to be added later)
- Annex D: Analysis Phase (to be added later)

**Determination of Dicamba Residues in Soybean Commodities after Preemergence
and Postemergence Applications to Dicamba Tolerant Soybean MON 87708**

ANNEX A: FIELD PHASE

1 FIELD RESEARCH MANAGEMENT CONTRACTOR

Tami I. Belcher
Grayson Research, LLC
P.O. Box 706 (mail)
211 N. Main Street (courier)
Creedmoor, NC 27522
Phone: (919) 528-5508
FAX: (919) 528-5509
Email: TBelcher@graysonfarm.com

**2 FIELD PRINCIPAL INVESTIGATORS, FIELD TEST SITE LOCATIONS,
AND SITE CODES**

The Field Research Management Contractor (FRMC) and Field Principal Investigators (FPIs) shall assure that all applicable Good Laboratory Practice Standards (per 40 CFR 160) are followed during the conduct of the field phase of this study. FPIs are authorized and encouraged to communicate questions and information to the FRMC who will be responsible for relaying such questions and information to the Study Director in an appropriate and timely manner. FPIs may also communicate questions directly to the Study Director when the FRMC is unavailable.

The names and addresses of the FPIs and locations of the field test sites are shown in Appendix B.

3 PROPOSED FIELD PHASE DATES

3.1 Experimental Start Date

April 2008

3.2 Experimental Termination Date

November 2008

4 TEST SUBSTANCE INFORMATION

4.1 Identification, Characterization and Stability

Refer to Section 10 of the main protocol for information on the identification, characterization and stability of each test substance.

4.2 Test Substance Shipping/Storage

The Sponsor will provide the test substances for this study. Only these materials are to be used for this study. It is essential that the lot number of each test substance used be recorded in the field notebook and submitted with the field data.

Each test substance must be stored under the conditions stated on its container label. Storage conditions of each test substance must be recorded in the field notebook and a copy of the field site storage facility temperature log must be included with the field data.

4.3 Handling of Excess Test Substance

4.3.1 Test Substance 1

Any excess MON 54140 test substance may be used according to label restrictions by the FPI (record amount removed in field notebook), or else returned to the Sponsor in the original test substance container.

4.3.2 Test Substance 2

Any excess MON 11955 test substance must be returned to the Sponsor in its original test substance container.

4.3.3 Test Substance 3

Any excess MON 11958 test substance must be returned to the Sponsor in its original test substance container.

4.4 Test Substance Containers

The original storage container for each dicamba test substance shall be used only for this material for the duration of the study and shall be retained at the test site until the last specified application has been completed. The test substance containers must be returned to the Sponsor. The FRMC must ensure that proper chain-of-custody records are maintained and forwarded to the Sponsor. The containers will be shipped to:

Monsanto Company
800 North Lindbergh Blvd.
S-Dock Receiving
St. Louis, Missouri 63141
Attention: Don Fabellar – S2F

The shipment containers must be clearly marked with the following information:

Residue Test Substance Containers
Monsanto Study Number: REG-08-096
Site Code (as provided in Annex B):

5 TEST SYSTEM

5.1 Description

The test system used in all test plots will be dicamba-tolerant soybean MON 87708. Seed for the trials will be supplied by the Sponsor. Dicamba-tolerant soybean MON 87708 will be grown under agronomic practices normal for the trial locations. The identity and the lot number of the seed received by the FPI will be recorded in the field notebook.

5.2 Compliance with and Documentation of USDA-APHIS Requirements

The dicamba-tolerant soybean MON 87708 seed used in this study is currently regulated by USDA- APHIS. **Study participants must follow all relevant APHIS regulations and Monsanto Soybean Field Release Design Protocol to Meet USDA Performance Standards.** For emphasis, the protocol includes key APHIS requirements, but study participants must refer to the separate Compliance Packet for the full detailed handling and documentation requirements. Data collected solely to meet APHIS requirements will be retained separately from the study file and will not be included in the final report.

5.3 Shipment and Handling of Seed – APHIS Requirements

All dicamba-tolerant soybean MON 87708 seed used in the study is regulated under USDA-APHIS and will be provided to the FPIs by the Sponsor. An overview of APHIS requirements is provided in this protocol; see the compliance packet for a complete listing of requirements and for instructions on documentation. Seed will be shipped under double containment to prevent accidental release. Store regulated seed in a secured facility (e.g., locked file or storage cabinet) separate from non-regulated seed, until planting. At least one sign must be posted on the secured facility stating that a regulated genetically modified organism (transgenic seed) is being stored and that unauthorized access is denied. **Any regulated seed remaining after establishment of the plots must be devitalized on site or returned to the Sponsor, after approval by the FRMC.** All seed shipping containers (or a clear photograph of the containers) are to be saved for possible APHIS inspection for the duration of the field trial. All seed containers will be incinerated or otherwise properly disposed of after approval by the FRMC.

6 PLOT INFORMATION

6.1 APHIS Isolation Requirements

All regulated soybean plots must have an isolation distance of 15 feet to prevent mechanical mixing with neighboring crops. The 15 foot isolation may be a combination of fallow ground, grass that is not harvested, and/or road.

To prevent inadvertent mixing, leave unplanted alleys or other easily distinguishable zones between the regulated plots and any other neighboring plant material. These alleys should be wide enough to allow for movement of harvesters or any other machinery that will be in the field.

6.2 Plot Requirements

The plot area must not have been treated with any dicamba or 2,4-D-containing products for six months preceding the planting date. No products containing either dicamba or 2,4-D should be used within 50 feet of the treated plots or 100 feet of the control plot during the study. The pesticide history for two years preceding the planting date should be recorded in the field notebook.

Sixteen sites will contain five treated plots and one untreated plot, with two of these sites having a plot designated for collection of decline samples. Four sites will contain six treated plots (including one bridging plot) and one untreated plot. Two sites will contain

five treated plots treated for collection of raw agricultural commodities plus an additional plot treated at an exaggerated rate for production of seed to be used for processing.

The recommended plot sizes are 1000 square feet for the treated and the untreated plots. The untreated plot will be at least 100 feet from each treated plot, and will be located upslope and upwind of the prevailing wind direction, as practical.

Each treated plot will be located at least 50 feet from any other treated plot to minimize the occurrence of contamination by offsite movement of dicamba. All plot layouts must have documented approval from the FRMC prior to planting. Deviations from the plot size and location recommendations are allowed with advance approval documented by the FRMC.

Decline sites

At the decline sites, the plot size for Treatment 5 at the sites designated for collection of decline samples (IA-1 and MN-1) will be a minimum of 3000 sq. ft. to allow sufficient harvest of the various decline samples these plots. The minimum distance between treated plots should be 50 feet. The untreated plot (Treatment 1) will be at least 100 feet from each treated plot. The untreated plot should be situated upslope and upwind from the treated plots, as practical.

Processing sites

At each processing site, the plot size for Treatments 1 and 8 will be sufficient to produce at least 100 lb of soybeans for processing. The recommended area for the processing plots is a minimum of 3500 sq. ft.

6.3 Plot Identification

Each corner of the test plots must be properly staked to completely identify its geometry, and at least one corner will be labeled to indicate coded study number, treatment number, and other parameters required to uniquely identify the plot. Labeling information may be coded on the plot stakes or labels and a complete cross-reference list of the codes to the unique plot identity maintained with the raw data.

6.4 Seed Planting Rate

The seed supply is limited, and it is therefore necessary to specify the recommended planting rate to ensure that the seed supply is sufficient for the intended plot size. The recommended planting rate for the dicamba-tolerant soybean MON 87708 seed is approximately 125,000 seeds/acre. This rate is intended to conserve the seed while still allowing production of sufficient amounts of the RACs specified for collection.

6.5 Planting of Plots

Document in the field notebook a detailed description of planting. The planting description should include, but is not limited to: planting density, number of rows per plot, length of row and row spacing. The identity of the dicamba-tolerant MON 87708 seed provided by the Sponsor and planted in each plot must be documented in the field notebook. Any seed remaining after planting should be returned to the Sponsor or devitalized by burying in the plot, incinerating or grinding.

It is an APHIS requirement that all planting equipment that may retain seeds must be inspected and any remnant seed removed prior to moving equipment from the test area, in order to avoid inadvertent release of regulated seed. All handling, packaging, and planting must be done in a way that avoids inadvertent release, and the planting equipment must be cleaned in the plot area prior to moving the equipment out of the plot area.

6.6 Replications

There will be no replication of the field plots at the sites.

6.7 Agronomic Practices

Crops are to be cultivated using normal agronomic practice. The entire test area may receive any maintenance chemical that is labeled for use in soybeans. No products containing dicamba or 2,4-D shall be used within at least 50 ft of the treated plots or 100 ft of the control plots in the study. Because the seed is also glyphosate tolerant, use of glyphosate for weed control is recommended. **All plots** must receive the same treatment of any maintenance product used. Use products safely and follow label directions. Make applications first in the untreated plot and then in the treated plot. The maintenance pesticides must be approved in advance by the FRMC. The date, pesticide used and rate of application must be recorded in the field notebook.

No dicamba containing products may be used within 50 feet of the treated plots or 100 feet of the untreated plot.

The plot area must be irrigated (if irrigation is normal agronomic practice) to an extent normal for crop in the region of each site. All plots at a given site must be irrigated to the same extent. The date, amount and source of each irrigation event must be recorded in the field notebook.

6.8 Crop Destruction and APHIS Volunteer Monitoring

After completion of all sampling, the FRMC will approve crop destruction and the crop destruction method for each site. All crop plants or plant parts in the trial plots remaining after sampling and shipping is complete must be disposed of or devitalized in accordance with APHIS regulations. Approved methods include burial into the soil, grinding, and incineration. Refer to the **Monsanto Soybean Field Release Design Protocol to meet USDA Performance Standards** for more information on devitalization methods. Document the method used and date of crop devitalization in the field notebook. Refer to the compliance packet and the APHIS guidelines for the requirement that test plots must be monitored for volunteers within the plots for 12 months after crop destruction.

7 TEST SUBSTANCE TREATMENT INFORMATION

7.1 Treatment Method, Rate and Time of Application

All treatments will be done by broadcast application. The plot number, rate and timing of test substance applications are shown below. The actual applied rate must be within $\pm 5\%$ of the target rate shown in the table below.

Treat- ment	Number of Sites	Formulation	Non-ionic Surfactant and AMS (See 7.5.2)	Application Rate (lb acid equivalent/acre)			
				Pre- emergence	V3	R1/R2	14-day Pre- harvest
1	All	None	No	-	-	-	-
2	All	MON 54140 ¹	Yes	0.5	0.5	-	
3	All	MON 11958 ²	Yes	1.0	1.0		
4	All	MON 11955 ³	Yes	1.0	0.5	0.5	-
5*	All	MON 11955	Yes	-	1.0	1.0	-
6**	Four	MON 54140	Yes	-	1.0	1.0	-
7	All	MON 54140	Yes	0.5	0.5	-	1.0
8***	Two	MON 54140	Yes	1.0	-	2.0	-

¹ Contains 4 lb. dicamba acid equivalents per gallon or 480 grams per liter

² Contains 1.59 lb dicamba acid equivalents per gallon or 190 grams per liter

³ Contains 4 lb. dicamba acid equivalents per gallon or 480 grams per liter

* All sites will conduct this treatment with two sites (IA-1 and MN-1) also conducting additional sampling for determination of residue decline, as specified in Section 8.4.2.

** At four sites, this treatment will be made for use in bridging to MON 11955.

*** Two sites will be treated at an exaggerated rate for the processing study

7.2 Types of Applications

The preemergence application is a conventional broadcast spray application that will be made after planting but prior to crop emergence.

All applications made at the vegetative and reproductive growth stages will be made when at least 50% of the plants are at the specified growth stage.

The **V3 postemergence** application is a topical broadcast spray application that will be made when the soybean plants have trifoliate leaves at three nodes.

The **R1/R2 postemergence** application is a topical broadcast spray application that will be made when the soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem). Application earlier in the R1-R2 stage is preferred.

The **preharvest** application is a topical broadcast spray application that will be made after soybean pods have reached mature brown color and at least 75% leaf drop has occurred; this application should be 14 (\pm 2) days prior to the expected harvest date.

7.3 Application Conditions and Descriptions

Applications should be made with equipment that simulates typical agronomic practice of the region. Rainfall or irrigation occurring within four hours of application should be avoided; do not apply if rainfall is expected on the intended day of application. Avoid climatic conditions conducive to spray drift. A detailed description of the application equipment, data on its calibration for the protocol, and other pertinent data are required. Weather conditions and soil temperatures at a depth of 2 inches should be taken and recorded for each application.

Adjust boom height appropriately for proper coverage of target.

The growth stage and the height of the plants at each application must be documented in the notebook. Photographs would be helpful in the visualization of the crop stages.

Both the growth stage and the height of the soybean plants in treated and untreated plots at each application must be documented in the field notebook.

Any signs of phytotoxicity, crop damage, injury, or disease incidence, particularly related to any application, must be documented and communicated immediately to the FRMC. The extent of damage must be indicated and a comparison to untreated (or undamaged, if possible) plots must be made. Photographs are necessary in the event of extreme and severe crop damage.

7.4 Equipment Calibration

Calibration of pesticide application equipment, including flow rate and uniformity of nozzles, must be conducted within 12 hours prior to application of each test substance. If done the preceding day, a calibration check must be done the day of application and must be within $\pm 5\%$ of the calibrated value. All calibration information shall be recorded in the field notebook to ensure documentation of each test substance application rate.

7.5 Spray Composition and Volume

7.5.1 Spray Volume

Each test substance must be mixed with water to give a targeted total spray volume of approximately 20.0 gallons per acre. The actual applied volume must be within $\pm 5\%$ of the target volume range (19 - 21.0 gal/acre). A single spray solution may be prepared for plots receiving like application rates (e.g., one solution can be prepared for all plots treated at 1 lb a.e./acre).

Mix each test substance as close to the application time as practical, but not to exceed 12 hours prior to application. The specifications regarding the sequence of dissolution or addition of additives must be followed.

7.5.2 Additives

To improve postemergence weed control, a nonionic surfactant labeled for use with herbicides must be added to the spray solution. Use a nonionic surfactant (80% minimum active) at a rate of 1 pint per 100 gallons of spray solution. Read and observe surfactant cautionary statements carefully and other information on the surfactant label. Document in the field notebook the trade name of the surfactant used in the trial, the surfactant active ingredient (if available), and the amount added to the spray solution. Use this surfactant product consistently for all test substance applications in the study.

Ammonium sulfate (AMS) also must be added to the spray solution for the postemergent applications. Add "spray grade" ammonium sulfate (or the equivalent amount of AMS in an aqueous solution) at the rate of 17 lb. per 100 gallons of spray solution. No other additives besides the surfactant and ammonium sulfate may be added to the spray solutions.

Test substance treatment information must be recorded in the field notebook, including the amount and type of the surfactant and AMS. The calculation of the composition and amount of spray solution and the calibrated spray-rate must be explicitly documented. The total area to which the spray volume is applied must be recorded. Submit test substance treatment information to the FRMC in a timely manner (within 48 hours; typically by fax) after each application of test substance.

7.6 Application Instructions

Select nozzles that are designed to produce minimal amounts of fine spray particles (less than 200 microns). Nozzle recommendations are provided on the Clarity label in the section on application instructions.

Keep the spray pressure at or below 20 psi and the spray volume at approximately 20 gallons per acre, unless otherwise required by the manufacturer of drift-reducing nozzles.

To minimize the occurrence of off-site movement or long-range volatilization of the test substance, the FPI should carefully assess the environmental conditions before making an application. Application should be avoided if there are gusty winds or the wind speed exceeds 5 mph, or if the conditions are favorable for a temperature inversion.

7.7 Safety Precautions during Application

Each test substance must be applied in accordance with the label directions for MON 54140 (Clarity®) with an emphasis on any specified label requirements for protective clothing; safety precautions for all test substances are consistent with those specified on the Clarity label. Good agronomic safety practices should be followed regarding the use of long-sleeved shirt, long pants, waterproof gloves, and shoes plus socks. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. An MSDS will also be provided with each test substance.

8 SAMPLE COLLECTION, HANDLING, AND SHIPMENT

8.1 Raw Agricultural Commodity Definitions

Soybean forage is cut 7 ± 1 days after the R1-R2 growth stage; this harvest must be at least 7 days after the last application in that treatment.

Soybean hay is cut 14 ± 1 days after the R1-R2 growth stage. Hay should be field-dried to a moisture content of 10 to 20 percent. The sampling date recorded in the field notebook is the date on which the field-dried hay is collected, bagged and frozen.

Soybean seed is the seed without the pod.

8.2 Required Sample Number and Amount per Sampling Time

Sample Number – For samples of each commodity at all sites, obtain a single composited sample of each RAC from the untreated (control) plot, and two (2) independently composited samples from each treated plot.

RAC Sample Size and Description – The minimum sample amount of each commodity is as follows:

- **Forage** – 1 kg from at least twelve separate areas of the plot
- **Hay** – 0.5 kg from at least twelve separate areas of the plot
- **Seed** – 1 kg from at least twelve separate areas of the plot

If it is determined that it is not possible to collect sample types or quantities as described herein, this fact must be **communicated immediately to the Study Director and FRMC** to obtain further instructions.

Processing Plots: Soybean seed collected for processing should be at least 100 lbs. If harvest of this amount of seed is not possible, notify the FRMC immediately.

8.3 Collection Time and Amount –RAC Sites

The appropriate collection times and the minimum amount required for the samples from the RAC sites are given in the following table.

RAC	Treatment	Time of Collection	Minimum Amount for Collection
Forage	1, 2, 3, 4, 5, 6	7 ± 1 days after the R1/R2 stage (must be at least 7 days after the last application for that treatment)	1 kg
	7, 8	No forage collected	
Hay	1, 2, 3, 4, 5, 6	14 ± 1 days after the R1-R2 stage	0.5 kg
	7, 8	No hay collected	
Seed	1, 2, 3, 4, 5, 6, 7, 8	Normal harvest	1 kg

8.4 Sample Collection – Decline Sites

Samples are to be taken from the decline sites according to the schedule provided in the table below. Two replicate samples should be collected from each treated plot and one from the control plot. There will be no collection of hay decline samples. Only the normal hay sample will be collected.

Forage decline samples will be collected from Treatment 5 **only** at the following times:

- 3±1 days after final application
- 7±1 days after final application
- 10±1 days after final application
- 14±1 days after final application

Seed samples will be collected from Treatment 5 **only** at the following times:

- 7±1 days before normal seed harvest
- Normal seed harvest
- 7±1 days after normal seed harvest
- 14±1 days after normal seed harvest

8.5 Sampling Procedures

8.5.1 RAC Sites

At all normal RAC sites, samples of each commodity described above will be taken from the control and treated plots according to the table above in Section 8.3. Only mature seed will be collected from Treatment 7. Only the mature seed for processing will be collected from Treatment 8.

The field samples are to be collected using normal agronomic (or similar) practices to produce the raw agricultural commodity (RAC) samples as found in interstate commerce. No washing, stripping, brushing or trimming should be performed on the field samples once they have been collected.

All samples must be taken so that a representative sample of each plot is obtained. Samples are to be collected with hand tools or harvested with commercial type equipment that simulates commercial practices. Record sampling equipment used. All samples must be field composited from twelve separate representative sub-samples collected from different locations in the plot, or composited from at least twelve separate sub-samples from the harvester as it advances through the plot. The replicate treated samples must be independently composited from different sub-samples. Samples shall be taken from the interior of the plots. Do not sample plants from the outer rows, or from within one (1) foot of the end of any row without prior FRMC approval.

Samples from the untreated plot (Treatment 1) are to be taken first, followed by samples from the treated plots. The order of harvest of plots (after Treatment 1) should be Treatment 2, Treatment 3, Treatment 4, Treatment 5, Treatments 6 and 8 (for those sites at which these treatments were conducted), and finally, Treatment 7.

Sampling techniques should ensure that contamination of samples does not occur. Record sampling equipment used, and describe how the samples were taken to ensure that the sample is representative of the test plot.

Document both the growth stage (reproductive or vegetative, as appropriate) and the height of the plants in all plots at each sampling in the notebook.

8.5.2 Processing Samples

The plot designated for production of soybeans for processing will be treated with the dicamba formulation according to the rate specified in Treatment 8. Soybean seed for processing will be collected from both Treatment 1 and Treatment 8 at the NE-1 and WI-1 sites. A sub-sample of approximately 1 kg of seed from Treatments 1 and 8 at the processing sites will be sent to Monsanto by overnight delivery for analysis to select the

processing sample with the highest residue. The bulk sample of at least 100 lb of soybeans from each of Treatments 1 and 8 will be retained at the field site until determination of the seed to be processed. After authorization is received from the FRMC, the seed to be processed will be sent to the processing facility. The bulk seed sample not selected for processing will be destroyed or devitalized according to USDA APHIS regulations; the method of disposal will be documented in the study records. The seed with the highest residues, and the corresponding untreated seed will be processed according to Annex C.

8.6 Sample Coding

The Sponsor will provide bar-coded, preprinted labels for the crop samples that must be used on the tag of the canvas sample bags provided. These labels will contain unique sample identification codes referenced in the Sponsor's database.

8.7 Cleaning of Equipment

Clean sampling equipment thoroughly prior to sampling the plots, and between sampling of different treated plots. **It is an APHIS requirement** that all equipment that may retain any viable crop material be thoroughly cleaned prior to leaving the plot area to ensure that there is no accidental release of regulated crop material.

8.8 Sample Storage and Handling

The composite samples must be placed in frozen storage within 4 hours after collection and kept in frozen storage prior to and during shipment. Treated and control samples must be kept separate in storage and shipment to prevent contamination.

The storage freezer must be labeled with a sign stating that regulated genetically modified organisms (transgenic crops) are stored in this area.

8.9 Sample Shipping

All APHIS regulations, as outlined in Section 8.8, regarding the labeling and shipping of the hay and seed samples are to be followed explicitly. Unless otherwise specified, all samples are to be shipped frozen to:

Monsanto Company
Attn: Andre Van Oyen V-141
V-Dock Receiving
800 N. Lindbergh Blvd.
St. Louis, MO 63141
Tel: (314) 694-7211

In addition to the requirement imposed by APHIS regulations, the shipment containers must be clearly marked:

Residue Test Samples
Monsanto Study Number: REG-08-096
Site Code: (as provided in Annex B)

Shipment of samples will be done by surface delivery, such as ACDS freezer truck, unless otherwise specifically instructed by the FRMC or Study Director.

Treated and control samples will be kept separate during shipment. All sample shipments shall include an inventory list identifying each sample or container in the shipment and shall be signed and dated by the person shipping the samples. This record will document sample transfer and chain-of-custody.

8.10 APHIS Storage and Shipping Regulations for Residue Samples

Movement of regulated samples must follow APHIS notification requirements by using chain-of-custody forms to document sample shipment. If regulated field samples are not shipped on the day of collection and are retained on site, store them frozen in a secured facility separate from non-regulated samples until shipment. At least one sign must be posted on the secured facility stating that a regulated genetically modified organism is being stored and that unauthorized access is denied. Both hay and seed samples will require a label on the outside of the regulated materials shipping container stating the contents of the container along with the appropriate APHIS notification number. Forage is not viable after frozen storage; therefore, it does not require APHIS labels for shipping.

The shipment of transgenic samples requires the use of **double containment** during shipping to prevent spillage or loss. Notification numbers must be shown along with the other information listed in Section 8.7, but are only required on the outside of the main shipping containers.

9 CONTROL OF BIAS

Bias in this study will be controlled by placement of sites in areas representative of normal soybean production, non-systematic selection of areas for control and treated plots, uniform application of all maintenance pesticides across all plots, detailed procedures for obtaining representative samples and avoiding contamination of control samples.

10 RECORDS AND DATA RETENTION REQUIREMENTS

10.1 Records – Field Data

The FRMC will provide field notebooks to the FPIs. The completed field notebook and all supplementary and supporting data must be sent by tracked expedited delivery (USPS Express Mail, Federal Express or equivalent) to the FRMC upon completion of the field work and documentation of the date and method of crop destruct by the FPI. All field notebooks and data sheets, and the signed field report will be transferred to the Study Director and must be archived in the Monsanto Regulatory Archives prior to the close of the study.

Photographs showing the test area, application, sampling, etc. would be helpful in documenting the testing procedures. Photographs are strongly recommended for illustrating any abnormal growth or event that could affect the results. Certify photographs by including protocol number, signature and date.

10.2 Records – Weather Data

The weather data required from each site for this study include daily on-site rainfall and irrigation events (date, amount and source). Maximum and minimum daily air temperatures can be collected on-site or from the nearest weather station. Historical weather data for a minimum of 10 years preceding this study that includes, but is not limited to, the average maximum and minimum monthly air temperatures and average monthly precipitation, obtained from the nearest national weather station, are also required for this study. Record the wind speed at the time of each test substance application. These data shall be submitted to the FRMC along with the field notebook upon completion of the fieldwork.

10.3 Records – Soil Characterization

Collection and analysis of soil cores is not required. Soil characterization information from each field test site must be obtained and included in the study file. The characterization information, including at a minimum the name/designation of the soil type, may be obtained from soil survey maps; if so, then include a clear photocopy of the map in the study file, or a reference to how and where the information was obtained. If the characterization information is from a soil core analysis, include a copy of the analysis results in the file.

10.4 Field Report

The FRMC will prepare a field report with GLP and Compliance Statements according to the guidelines found in Standard Operating Procedure ES-PO-0176 using the current version at the time of writing. A draft of the field report will be submitted to the Study Director for review before the final field report is signed.

11 FIELD SITE QUALITY ASSURANCE

Each field test site will provide Quality Assurance (QA) oversight for the field phase of the study, either as a part of their staff or under contract. The protocol and related annexes must be read and understood by all applicable QA personnel before performing QA activities. The field site QAU will conduct inspections/audits of the field phase and prepare written reports of its findings. Written reports of inspection/audit findings (per 40 CRF 160.35(b)(3)) will be reported to the FRMC, the Study Director, and Monsanto Testing Facility Management. The Quality Assurance Unit (QAU) at each field site will provide a Quality Assurance statement for the field phase of the protocol. A minimum of the following phases will be inspected/audited at each field site:

- At least one critical event
- Field notebook data

If a field test site cannot provide qualified QA oversight, protocol related QA oversight at that field site will be provided by the FRMC's QAU or by a qualified subcontractor chosen by the FRMC's QAU.

Determination of Dicamba Residues in Soybean Commodities after Preemergence and Postemergence Applications to Dicamba-Tolerant Soybean MON 87708

ANNEX B: FIELD PRINCIPAL INVESTIGATORS

Field Principal Investigator	Site ID Code Town Name and Zip Code County/State EPA Region	Trial Type/ Treatments
Anthony Burch Research Options, Inc. 4275 Drayton Road Montezuma, GA 31063 (478) 472-6288 abroi@earthlink.net	GA Montezuma, GA 31063 Macon/Georgia Region 2	RAC/ 1, 2, 3, 4, 5, 7
Dr. Michael T. McCarty Carolina Ag-Research Service, Inc. P.O Box 132 10124 Highway 37 Elko, SC 29826 Ph.: (803)266-7008 carolina-ag@tds.net	SC Elko, SC 29826 Barnwell/Georgia Region 2	RAC/ 1, 2, 3, 4, 5, 7
Nelson Prochaska R & D Research Farm Inc. 7033 Highway 103 Washington, LA 70589 (337) 585-7455 rdfarm@bellsouth.net	LA Washington, LA 70589 Saint Landry Parish /Louisiana Region 4	RAC/ 1, 2, 3, 4, 5, 7
Don Harlan Mid-South Ag Research, Inc. 2383 Hinkley Road Proctor, AR 72376 (870) 732-2981 msagri@aol.com	AR Proctor, AR 72376 Crittenden/Arkansas Region 4	RAC and Bridging/ 1, 2, 3, 4, 5, 6, 7
Nathan Goldschmidt Shoffner Farm Research, Inc. 4809 Hwy FF Fisk, MO 63940 (573) 967-2100 (office/fax) (870) 217-3838 (mobile) nvg@shoffneragresearch.com	MO Fisk, MO 63940 Butler/Missouri Region 4	RAC/ 1, 2, 3, 4, 5, 7
Justin Pollard Alvey Agricultural Research RR 2 Box 12 Wyoming, IL 61491 (309) 695-3004 justin.pollard@alveyagriculturalresearch.com	IL-1 Wyoming, IL 61491 Stark Co. Region 5	RAC/ 1, 2, 3, 4, 5, 7

Field Principal Investigator	Site ID Code Town Name and Zip Code County/State EPA Region	Trial Type/ Treatments
Tim Boeker Alvey Agricultural Research 19300 Marydale Road Carlyle, IL 62231 (618) 594-7645 tim.boeker@alveyagriculturalresearch.com	IL-2 Carlyle, IL 62231 Clinton Co. Region 5	RAC and Bridging/ 1, 2, 3, 4, 5, 6, 7
Bill Ray Alvey Agricultural Research 1365 North Seip Road Rockville, IN 47872 (317) 468-5252 bill.ray@alveyagriculturalresearch.com	IN Rockville, IN 47872 Parke Co. Region 5	RAC/ 1, 2, 3, 4, 5, 7
David Bennett Bennett Agricultural Research Corp. 1109 Ivy Ave Richland, IA 52585 (319) 456-3516 barc@iowatelecom.net	IA-1 Richland, IA 52585 Jefferson Co. Region 5	RAC and Decline/ 1, 2, 3, 4, 5, 7
David Bennett Bennett Agricultural Research Corp. 1109 Ivy Ave Richland, IA 52585 (319) 456-3516 barc@iowatelecom.net	IA-2 Hedrick, IA 52563 Wapello County Region 5	RAC/ 1, 2, 3, 4, 5, 7
Roger Musick Crop Guard Research, Inc. P.O. Box 547 (309 N. Broadway) Hinton, OK 73047 (405) 542-6060 cgri@itlnet.net	KS-1 Cunningham, KS 67035 Kingman Co. Region 5	RAC and Bridging/ 1, 2, 3, 4, 5, 6, 7
Douglas W. Nord Diamond Ag Research, Inc. 855 K19 Hwy S Larned, KS 67550-5220 (620) 285-3380 diamondag@gbta.net	KS-2 Hudson, KS 67545 Stafford Co. Region 5	RAC/ 1, 2, 3, 4, 5, 7

Field Principal Investigator	Site ID Code Town Name and Zip Code County/State EPA Region	Trial Type/ Treatments
Mark Waldecker	MI	RAC/

AGSEARCH Company 1705 Wilson Street Conklin, MI 49403-9708 (616) 899-2908 mwaldecker@agsearchcompany.com	Conklin, MI 49403 Ottawa Co. Region 5	1, 2, 3, 4, 5, 7
Paul Viger Viger Ag Research, Inc. 2575 460 th Street Campbell, MN 56522 (218) 630-5593 pviger@agwireless.net	MN-1 Campbell, MN 56522 Wilkin Co. Region 5	RAC and Decline/ 1, 2, 3, 4, 5, 7
Paul Viger Viger Ag Research, Inc. 2575 460 th Street Campbell, MN 56522 (218) 630-5593 pviger@agwireless.net	MN-2 Fergus Falls, MN 56537 Ottertail Co. Region 5	RAC and Bridging/ 1, 2, 3, 4, 5, 6, 7
Jess Spotanski Midwest Research Inc. 910 Road 15 York, NE 68467 (402) 362-2589 jess_spotanski@mainstaycomm.net	NE-1 York, NE 68467 York Co. Region 5	RAC and Processing/ 1, 2, 3, 4, 5, 7, 8
Jess Spotanski Midwest Research Inc. 910 Road 15 York, NE 68467 (402) 362-2589 jess_spotanski@mainstaycomm.net	NE-2 Osceola, NE 68651 Polk Co. Region 5	RAC/ 1, 2, 3, 4, 5, 7
Curt Lee Agro-Tech, Inc. 4489 Highway 41 North Velva, ND 58790 (701) 338-2589 agrotec@srt.com	ND-1 Carrington, ND 58421 Foster Co. Region 5	RAC/ 1, 2, 3, 4, 5, 7
Duane Auch South Dakota Ag Research, Inc. 29896 463 rd Ave Centerville, SD 57014 (605) 563-2092 duaneauch@afo.net	SD-1 Centerville, SD 57014 Clay Co. Region 5	RAC/ 1, 2, 3, 4, 5, 7

Site ID Code

Town Name and Zip Code

County/State

EPA Region

**Trial Type/
Treatments**

Field Principal Investigator

Roger Irwin Prairie Agricultural Research, Inc. P.O. Box 1075	SD-2 Britton, SD 57430 Marshall Co.	RAC/ 1, 2, 3, 4, 5, 7
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(42517 State Highway 10) Britton, SD 57430 (605) 448-5256 parinc@venturecomm.net	Region 5	
Sue Bellman Great Lakes Ag-Research Service, Inc. N6084 Johnson Road Delavan, WI 53115 (608) 883-6990 sbellman@greatlakesag.com	WI-1 Delavan, WI 53115 Walworth Co. Region 5	RAC and Processing/ 1, 2, 3, 4, 5, 7, 8
Alan Miller AGSTAT 6394 Grandview Road Verona, WI 53593 (608) 845-7993 amagstat@tds.net	WI-2 Fitchburg, WI 53711 Dane Co. Region 5	RAC/ 1, 2, 3, 4, 5, 7

PROTOCOL AMENDMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after Preemergence and Postemergence Application to Dicamba-Tolerant Soybean MON 87708

PROTOCOL NUMBER: REG-08-096

AMENDMENT NUMBER: 1


EFFECTIVE DATE: May 15, 2008

REASON FOR AMENDMENT: Clarification of the composition of the spray mixture for the preemergence and postemergence applications. The table in Section 7.1 indicated that non-ionic surfactant and AMS (ammonium sulfate) would be added to all treatments except Treatment 1 (the control), but Section 7.5.2 stated that the AMS would be added to the spray solution for the postemergent application. A decision was made that non-ionic surfactant and AMS will be added to all spray solutions for Treatments 2-8 to avoid confusion.

CHANGE: Annex A, Section 7.5.2 (second paragraph, first sentence): Ammonium sulfate (AMS) also must be added to the spray solution for all applications (preemergence and postemergence) for Treatments 2 through 8.

EFFECT ON STUDY: None

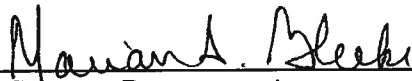
APPROVED BY:



Study Director

5/14/08

Date

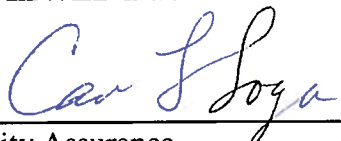


Sponsor Representative

5/14/08

Date

REVIEWED BY:



Quality Assurance

5/14/08

Date

PROTOCOL AMENDMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after Preemergence and Postemergence Application to Dicamba-Tolerant Soybean MON 87708

PROTOCOL NUMBER: REG-08-096

AMENDMENT NUMBER: 2

EFFECTIVE DATE: May 15, 2008

REASONS FOR AMENDMENT: To exclude the AR, GA and SC sites from the ability to use glyphosate as a maintenance chemical on the test plots, to clarify the identity of the active ingredient in Test Substance 3, and to correct a typographical error in the entry for the state in the listing for the SC site.

CHANGES:

1. In Annex A, Section 6.7 Agronomic Practices

Change the following sentence:

Because the seed is also glyphosate tolerant, use of glyphosate for weed control is recommended.

to:

Because the seed is also glyphosate tolerant, use of glyphosate for weed control is recommended except for the sites at GA, SC and LA, where glyphosate should not be used after planting because the seed in the maturity group provided for those sites is not fully glyphosate tolerant, and may be damaged by use of glyphosate over the crop.

2. In Protocol Section 10.1.3 Test Substance 3

Change the following sentence:

Test substance 3 is a microencapsulated formulation in which the active ingredient is formulated as the 1-dodecyl-2-pyrrolidinone salt.

to:

Test substance 3 is a microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt.

3. In Annex B: Field Principal Investigators

Correct a typographical error in the name of the county/state in the second column of the table for the SC site from Barnwell/Georgia to **Barnwell/South Carolina**.

4. In Section 2. Purpose:

Correct a typographical error in line 2 to change MON 88708 to **MON 87708**.

EFFECT ON STUDY: None

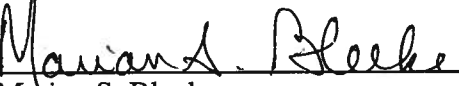
APPROVED BY:



Sharon J. Moran
Study Director

5/27/08

Date



Marian S. Bleeke
Sponsor Representative

5/27/08

Date

REVIEWED BY:



Carrie L. Logan
Quality Assurance

5/27/08

Date

PROTOCOL AMENDMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after Preemergence and Postemergence Application to Dicamba-Tolerant Soybean MON 87708

PROTOCOL NUMBER: REG-08-096

AMENDMENT NUMBER: 3

EFFECTIVE DATE: June 6, 2008

REASON FOR AMENDMENT: To correct an error in Amendment 2 in the designation of the sites which should not use glyphosate as a maintenance chemical on the test plots.

CHANGE:

1. In Annex A, Section 6.7 Agronomic Practices

Change the following sentence:

Because the seed is also glyphosate tolerant, use of glyphosate for weed control is recommended.


to:


Because the seed is also glyphosate tolerant, use of glyphosate for weed control is recommended except for the sites at AR, GA and SC, where glyphosate should not be used after planting because the seed in the maturity group provided for those sites is not fully glyphosate tolerant, and may be damaged by use of glyphosate over the crop.

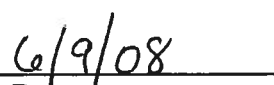
EFFECT ON STUDY: None

APPROVED BY:

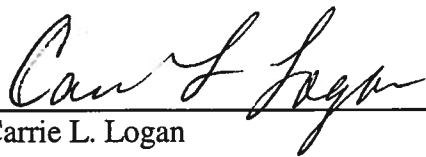

Sharon J. Moran
Study Director


Date

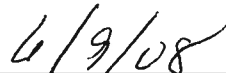

Marian S. Bleeke
Sponsor Representative


Date

REVIEWED BY:



Carrie L. Logan
Quality Assurance



Date

PROTOCOL AMENDMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after Preemergence and Postemergence Application to Dicamba-Tolerant Soybean MON 87708

PROTOCOL NUMBER: REG-08-096

AMENDMENT NUMBER: 4

EFFECTIVE DATE: October 8, 2008

REASON FOR AMENDMENT: To amend Section 8.5.2 of Annex A to reflect changes in the processing phase of the study, to add Annex C. Processing, to the study protocol, and to correct two typographical errors in Annex A.

PROTOCOL CHANGE: Section 8.5.2 of Annex A is changed to read as follows:

8.5.2 Processing Samples

The plot designated for production of soybeans for processing will be treated with the dicamba formulation according to the rate specified in Treatment 8. Soybean seed for processing will be collected from both Treatment 1 and Treatment 8 at the NE-1 and WI-1 sites. The bulk sample of at least 100 lb of soybeans from each of Treatments 1 and 8 will be shipped to the processing site to the following address:

GLP Technologies, Inc.
Attn: Dick Dusek
22723 State Highway 6 South
Navasota, TX 77868
Tel: 936-825-2184

The shipment container must be clearly marked with the following information:

Residue Test Samples
Monsanto Study Number: REG-08-096
Site Code: (as provided in Annex B)
APHIS Notification Number: (as found in the compliance packet)
Crop

The bulk seed intended for processing may be shipped to the processing facility frozen via ACDS or on dry ice via Federal Express. Seed must be placed in a freezer upon arrival at GLP Technologies, and maintained frozen until preparation for processing. During shipping and storage of the seed both at the field site and at the processing facility, the seed must be handled in compliance with USDA APHIS regulations. These requirements include the use of double

containment during shipping to prevent spillage or loss, and labeling on the outside of the container with the notification number and the crop, as listed above.

Clarification of the change:

This change eliminates the need for sending a sub-sample of the seed to the analytical lab prior to shipping the bulk seed to the processing facility.

EFFECT ON THE STUDY: The main effect on the study is to expand the number of samples to be processed to include the Treatment 1 and Treatment 8 seed from both the NE-1 and WI-1 sites. A side effect is to eliminate the need to send a sub-sample of the seed for processing to the analytical lab prior to shipping the bulk seed sample.

CHANGE: In Section 8.9 of Annex A, a section citation is corrected as follows:

The first sentence of this section is amended to read:

All APHIS regulations, as outlined in Section 8.10, regarding the labeling and shipping of hay and seed samples are to be followed explicitly.

CHANGE: In Section 8.10 of Annex A, a section citation is corrected as follows:

The last sentence of this section is amended to read:

Notification numbers must be shown along with the other information listed in Section 8.9, but are only required on the outside of the main shipping containers.

EFFECT ON THE STUDY: None

APPROVED BY:


Study Director

10/8/08
Date

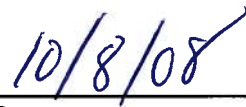

Sponsor Representative

10-8-08
Date

REVIEWED BY:



Quality Assurance



Date

**Determination of Dicamba Residues in Soybean Commodities after Preemergence
and Postemergence Application to Dicamba Tolerant Soybean MON 87708**

Annex C: Processing Phase

1. PRINCIPAL PROCESSING INVESTIGATOR AND FACILITY

Dick Dusek–Principal Processing Investigator
GLP Technologies
22723 State Highway 6 South
Navasota, TX 77868
Tel: 936-825-2184
Fax: 936-825-7929

2. PROCESSING

Bulk seed from Treatments 1 and 8 will be processed to generate the following commodities:

- Seed
- Hulls
- Defatted flour
- Toasted defatted meal
- Protein isolate
- Protein concentrate
- Crude lecithin
- Degummed oil
- Refined bleached deodorized oil (RBD oil)
- Soymilk
- Tofu

Seed received from sites NE-1 and WI-1 will be held in frozen (<0 °C) storage until processed after authorization for processing has been given by the Study Director.

A 2.0 kg sub-sample will be taken immediately prior to processing and maintained unprocessed in freezer (<0 °C) storage. The remainder of the bulk seed will be processed into the commodities listed above at the processor's facility after authorization is received from the Study Director. Seed will be processed according to current facility SOPs which simulate commercial practices. Any excess seed remaining after processing will be destroyed by incineration, grinding or other suitable means, according to USDA APHIS regulations; the study director will be informed of the method and date of destruction.

3. PROCESSED FRACTIONS

Samples to be collected at the processing facility include the following:

Treatment No.	Matrix	Rate lb a.i./A	Number of Replicates	Sample Size
1	Seed ¹	0	1	2.0 kg
1	Hulls	0	1	2 kg
1	Toasted Defatted Meal	0	1	2 kg
1	Defatted Flour	0	1	2 kg
1	Protein Isolate	0	1	62 g
1	Protein Concentrate	0	1	150 g
1	Crude Lecithin	0	1	250 g ²
1	Degummed Oil	0	1	1 L
1	RBD Oil	0	1	1 L
1	Soymilk	0	1	1 L
1	Tofu	0	1	250 g
8	Seed ¹	3	2	2.0 kg
8	Hulls	3	2	2 kg
8	Toasted Defatted Meal	3	2	2 kg
8	Defatted Flour	3	2	2 kg
8	Protein Isolate	3	2	62 g
8	Protein Concentrate	3	2	150 g
8	Crude Lecithin	3	2	250 g ²
8	Degummed Oil	3	2	1 L
8	RBD Oil	3	2	1 L
8	Soymilk	3	2	1 L
8	Tofu	3	2	250 g

¹Seed samples will be collected immediately prior to processing and placed in freezer storage.

²Lecithin sample size should be all available or 250 g.

Sample numbers and labels for the processed fractions will be provided by the Sponsor. Single samples will be collected from the untreated sample and duplicate samples will be collected from the treated samples. Sample sizes listed in the table above are minimum size/weight requirements to be collected. Sample sizes greater than the amounts listed above will not be considered as deviations to the study protocol.

4. SAMPLE STORAGE AND HANDLING

Samples collected at the processing facility will be maintained frozen (<0 °C) until they are shipped to the analytical facility.

5. SAMPLE SHIPPING INSTRUCTIONS

The soybean seed and processed fractions will be shipped frozen and under chain of custody via ACDS freezer truck(s) or on dry ice via overnight carrier (only if directed by the Study Director) to the analytical laboratory at the following address:

Monsanto Company
Attn: Andre' Van Oyen V-141
V-Dock Receiving
800 N. Lindbergh Blvd.
St. Louis, MO 63141
Tel: (314) 694-7211

The shipment containers for the processing fractions must be clearly marked:

Residue Test Samples
Monsanto Protocol: REG-08-096
Processing Fractions

The shipment containers for the seed must comply with USDA APHIS regulations for containment and labeling and must be clearly marked with the following information:

Residue Test Samples
Monsanto Study Number: REG-08-096
Site Code(s): (as provided in Annex B)
APHIS Notification Number: (as found in the compliance packet)
Crop

Processing personnel will notify the analytical laboratory by telephone, fax, or e-mail when samples are to be shipped. An exact copy of the sample shipping pages will also be faxed to the Study Director when samples are shipped.

6. PROCESSING REPORT

The Processing Contractor will prepare the draft processing report within one month of completion of the processing. The draft of the processing report will be submitted to the Study Director for review prior to the issuance of the final processing report. The processing report will include, but is not limited to the following:

- A title page
- A table of contents
- A GLP compliance statement
- QA Statement of Inspection
- A short description of sample handling, storage, etc.
- A description of the processing procedures and comparisons to commercial processes
- A material balance of the soybean seed processed and yield of fractions
- A description of any deviations that occurred

7. QUALITY ASSURANCE

This study will be performed in compliance with the Good Laboratory Practice Standards as specified in 40 CFR 160. The Processing Contractor Principal Investigator shall assure that all applicable Good Laboratory Practice Standards (40 CFR 160) are followed during the conduct of the processing phase of this study.

All deviations from this protocol and applicable standard operating procedures will be communicated promptly to the Study Director by mail, e-mail, or phone. Communicate major deviations that may affect the results of conduct of the study immediately to the Study Director. All deviations must be documented and signed by the Study Director.

The Processing Contractor will have a qualified Quality Assurance Unit (QAU) either as a part of their staff or under contract. Any change in the staffing of the Processing Contractor's QAU will be communicated immediately to the Sponsor's QAU.

The responsible QAU at the Processing Contractor will conduct at least one (1) inspection of the processing phase and will audit the processing data and the final report and prepare written reports of its findings [per 40 CFR 160.35(b)(3)]. The findings of these inspections will be reported promptly to the Study Director and Study Director's Testing Facility Management. The Processing Contractor will supply a Quality Assurance Statement [per 40 CFR 160.35(b)(7)] signed by the QAU, and a Statement of Compliance [per 40 CFR 160.12] signed by the Principal Investigator in its processing report.

8. RAW DATA RETENTION

The processing facility will maintain a copy of the signed processing report, protocol and amendments, and all documents (letters, memos, notes, etc.) pertaining to the study. Upon completion of the processing phase, the original or verified copy of relevant processing data will be transferred to the testing facility. Those data and records include, but are not limited to the following:

- Original laboratory notebooks and/or raw data forms
- Original receipt and chain of custody for samples
- Certified copies of sample storage records
- Original work sheets and calibration records
- List of applicable SOPs used during the processing phase

PROTOCOL AMENDMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after
Preemergence and Postemergence Application to Dicamba-Tolerant
Soybean MON 87708


PROTOCOL NUMBER: REG-08-096

AMENDMENT NUMBER: 5

EFFECTIVE DATE: November 3, 2008

REASON FOR THE AMENDMENT: To add the analytical annex to the protocol.

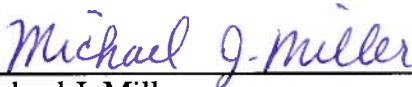
APPROVED BY:




Sharon J. Moran
Study Director



Date



Michael J. Miller
Sponsor Representative

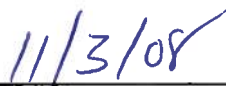


Date

REVIEWED BY:



Carrie L. Logan
Quality Assurance



Date

ANNEX D: ANALYSIS PHASE

Determination of Dicamba Residues in Soybean Commodities after Preemergence and
Postemergence Application to Dicamba-Tolerant Soybean MON 87708

Study Number: REG-08-096

1. PERFORMING LABORATORY

Monsanto Company
Environmental Sciences Technology Center
800 North Lindbergh Blvd.
St. Louis, Missouri 63167
(314) 694-1000

2. PRINCIPAL INVESTIGATOR/ANALYST

James E. Foster

3. REFERENCE SUBSTANCES

3.1. IDENTIFICATION OF REFERENCE STANDARDS

Common Name: Dicamba
Chemical Name: 3,6-dichloro-2-methoxybenzoic acid
CAS Registry Number: 1918-00-9
Monsanto Code Number: MON 11900
Molecular Weight: 221.04 g/mol

Common Name: Dichlorosalicylic acid (DCSA)
Chemical Name: 3,6-dichloro-2-hydroxybenzoic acid
CAS Registry Number: 3401-80-7
Molecular Weight: 207.01 g/mol

Common Name: 5-Hydroxy dicamba
Chemical Name: 2,5-dichloro-3-hydroxy-6-methoxybenzoic acid
CAS Registry Number: 7600-50-2
Molecular Weight: 237.04 g/mol

Common Name: Dichlorogentisic acid (DCGA)
Chemical Name: 2,5-dichloro-3,6-dihydroxybenzoic acid
CAS Registry Number: 18688-01-2
Molecular Weight: 223.01 g/mol

3.2. IDENTIFICATION OF INTERNAL STANDARDS

Common Name:	^{13}C -Dicamba
Chemical Name:	3,6-dichloro-2-methoxybenzoic-1,2,3,4,5,6- $^{13}\text{C}_6$ acid
Molecular Weight:	227.04 g/mol
Common Name:	Dichlorosalicylic acid (DCSA)
Chemical Name:	3,6-dichloro-2-hydroxybenzoic-1,2,3,4,5,6- $^{13}\text{C}_6$ acid
Molecular Weight:	213.01 g/mol
Common Name:	5-Hydroxy dicamba
Chemical Name:	2,5-dichloro-3-hydroxy-6-methoxybenzoic-1,2,3,4,5,6- $^{13}\text{C}_6$ acid
Molecular Weight:	242.99 g/mol
Common Name:	Dichlorogentisic acid (DCGA)
Chemical Name:	2,5-dichloro-3,6-dihydroxybenzoic-1,2,3,4,5,6- $^{13}\text{C}_6$ acid
Molecular Weight:	228.96 g/mol

3.3. CHARACTERIZATION

The Sponsor will characterize the reference substances under GLP prior to their use in the study. A sample of each of the reference substances will be archived by the Sponsor.

3.4. STABILITY

There are no known stability problems for dicamba and DCSA in the neat state for a period of at least two years. The stability of 5-hydroxydicamba and DCGA in the neat state has been determined for a period of at least one year. The data packages of reference standards are archived in the Monsanto Regulatory Archives.

The determination of the stability of the reference standards in solution has been initiated during method development and will be continued during the analysis phase.

4. PROPOSED ANALYSIS START DATE

November 2008

5. PROPOSED ANALYSIS TERMINATION DATE

May 2009

6. EXPERIMENTAL DESIGN

6.1. STANDARD OPERATING PROCEDURES

Standard Operating Procedures shall govern the analysis of the samples. Particular emphasis must be placed on strict compliance with these procedures, except where superseded by the protocol. All deviations from these procedures must be documented in writing and signed by the Study Director.

6.2. SAMPLE IDENTIFICATION

Each sample to be analyzed will have a unique sample code assigned to it by the Residue Information Management System. The encrypting/encoding key will be included in the raw data package.

6.3. CHEMICAL RESIDUE ANALYSIS

The samples will be analyzed for residues of dicamba and its metabolites by the current version of method ES-ME-1267, which employs acid hydrolysis to convert conjugates of DCSA and DCGA to the common chemophores DCSA or DCGA and LC/MS/MS analysis, with internal standardization, to quantify dicamba residues as dicamba, 5-hydroxy dicamba, DCSA and DCGA.

6.4. ANALYSIS OF TREATED SAMPLES

Requirements for the sample analyses include, but are not limited to:

1. Each individual control and treated sample will be analyzed at least once.
2. Each extraction set must contain at least one control and one fortified sample. The fortification levels will vary across the chromatography sets. For each matrix and analyte, the range of fortification levels over all the sets must bracket the range of concentrations from the LLMV to the highest concentration in the treated samples.
3. The average background-corrected analytical recovery of fortified samples for each matrix and analyte in each extraction set must be 70 - 120% of the amount fortified.
4. Instrument calibration must be performed on each chromatographic set using a multi-point calibration curve with a minimum of five (5) calibration levels. The lowest standard must be below the response corresponding to the LLMV. The range of calibration standards will be documented in each analytical set.
5. The minimum acceptable r^2 value for the fit of the calibration curve is 0.98. The data will generally be fitted to a quadratic or a linear curve, although other curve types may also be acceptable. Only one type of curve will be used for the calculation of results for all analyses within the study.
6. The complete chromatographic set containing calibration standards, control, treated, and fortified samples should be arranged such that:
 - a. The set begins and ends with a calibration standard (i.e., treated, control, and fortified samples are bracketed by calibration standards). An analyst may choose to run additional calibration standards at the beginning of the set to evaluate instrument performance or condition the column.

However, this must be done in a consistent manner for all sets and these standards must be excluded from the standard curve at the time of analysis. No more than seven (7) control, treated, or fortified samples are analyzed between calibration standards.

- b. The calibration standards are arranged in a non-systematic order, relative to standard concentration, throughout the chromatographic set.

7. RECORDS REQUIREMENTS

All raw data must be accurately and uniquely identified by study number. Chromatograms must indicate peak identification, sample identification, and be signed (or initialed) and dated. Chromatographic conditions for each sample must be included in the data set. For all analyses, raw data for sample weights, dilutions, manipulations, and measurements must be recorded, signed (or initialed), and dated. Computer-generated reports must be accurately and uniquely identified, signed (or initialed), and dated.

Reference to the written analytical method shall be made in the raw data. The source, identification and purity of the reference substances and preparation of reference substance solutions shall be documented in the raw data.

8. REGULATORY COMPLIANCE AND QUALITY ASSURANCE

All analyses will be performed in compliance with the Good Laboratory Practice Standards as specified in 40 CFR 160.

The Monsanto Regulatory Quality Assurance Unit (QAU) will conduct at least one (1) inspection of the sample analysis phase and prepare written reports of its findings [per 40 CFR 160.35(b)(3)]. The findings of these inspections will be reported to the Study Director and Testing Facility Management in a timely manner.

PROTOCOL AMENDMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after
Preemergence and Postemergence Application to Dicamba-Tolerant
Soybean MON 87708

PROTOCOL NUMBER: REG-08-096

AMENDMENT NUMBER: 6

EFFECTIVE DATE: November 20, 2008

REASON FOR THE AMENDMENT: To modify the analytical annex to eliminate
redundancies or inconsistencies with the analytical method used in the study.

Section 6.4 of the Analytical Annex is replaced with the following:

6.4 ANALYSIS OF TREATED SAMPLES

Each individual control and treated sample will be analyzed at least once.

The criteria governing analysis of the samples are those provided in the section "Mass Spectrometric Analysis" in the Sample Analysis section of the current version of the analytical method ES-ME-1267.

APPROVED BY:



Sharon J. Moran
Study Director

11/20/08

Date



Michael J. Miller
Sponsor Representative

11/20/08

Date

REVIEWED BY:



Carrie L. Logan
Quality Assurance

11/20/08

Date

PROTOCOL AMENDMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after
Preemergence and Postemergence Application to Dicamba-Tolerant Soybean
MON 87708

PROTOCOL NUMBER: REG-08-096

AMENDMENT NUMBER: 7

EFFECTIVE DATE: December 2, 2008

REASON FOR THE AMENDMENT: To amend Section 6.4 of Annex C to state the purpose for adding low level fortified samples to the analysis sets, and to exclude these low levels fortifications from the recovery criteria stated in the analytical method ES-ME-1267.

Addition to Section 6.4 ANALYSIS OF TREATED SAMPLES

In addition to the fortifications in ES-ME-1267, control samples will be fortified at 0.5 and 1 ppb to provide data for use in the statistical analysis to determine the LOD and LOQ of the analytical method. These fortified samples are analyzed only for use in the LOD/LOQ determination, and the recoveries will not be included in the acceptance criteria for the analytical sets, as it is understood that the fortifications may be at or below the limit of detection.

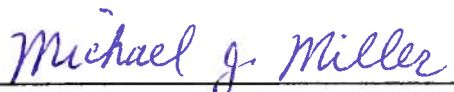
APPROVED BY:



Sharon J. Moran
Study Director

12/2/08

Date



Michael J. Miller
Sponsor Representative

12/02/08

Date

REVIEWED BY:



Bradley A. Comstock
Quality Assurance

12/2/08

Date

PROTOCOL AMENDMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after
Preemergence and Postemergence Application to Dicamba-Tolerant Soybean
MON 87708

PROTOCOL NUMBER: REG-08-096

AMENDMENT NUMBER: 8

EFFECTIVE DATE: March 8, 2010

REASONS FOR THE AMENDMENT:

To re-open the study to amend the report to exclude from the report analytical results for treatments not consisted with the proposed label application rate and timing, to correct residue results incorrectly reported as dicamba acid equivalents, to express residues below the LOQ in a more appropriate format, and to change the study title to better reflect the content of the report.

To correct the number of the analytical method in the protocol and previous amendments

CHANGE: The study will be re-opened to address the concerns stated in the reason for the amendment.

The title of the study will be changed to: “Magnitude of Residues of Dicamba in Soybean Raw Agricultural and Processed Commodities after Application to MON 87708”. The title is being changed to more accurately reflect the contents of the report.

Analytical results from treated samples Treatments 2, 3, and 7, and analytical results from treated samples from Treatment 5 not associated with the decline or bridging data will be excluded from the study report because the rates and timings in these treatments are not consistent with the proposed label rate and timing. The data for these analyses will be maintained in the study file. Control and fortified samples from associated with analysis of samples from these treatment groups will be reported as these data were valuable in the determination of the LOD and LOQ of the analytes in seed, forage and hay, and provided useful evidence of the accuracy of the method.

The residues which are below the statistically determined LOQ will be expressed in the report tables as <0.nnn where “0.nnn” is the LOQ of that analyte in the matrix. The total residues will be expressed as dicamba acid equivalents by summing the residues which have been LOQ-adjusted and corrected to dicamba acid equivalents by the following equation which converts the residues of DCSA and 5-hydroxydicamba to dicamba acid equivalents by using the ratio of the molecular weight of dicamba to the molecular weight of the analyte.

Total Residue (dicamba acid equiv.) = 1.068(DCSA ppm) + (dicamba ppm) + 0.933(5 – OH ppm)

OTHER CHANGES: In addition to the main objectives of this amendment as stated above, the number of the analytical method SOP documented in the Amendment 5 (Analytical Annex, Section 6.3), Amendment 6 and Amendment 7 (Section 6.4) will be changed to AG-ME-1321 to be consistent with the final method SOP number.

Changes to the Analytical Annex (Added in Amendment 5):

Section 6.3 CHEMICAL RESIDUE ANALYSIS

The samples will be analyzed for residues of dicamba and its metabolites by the current versions of method ES-ME-1267 ...

Changed to:

The samples will be analyzed for residues of dicamba and its metabolites by the current versions of method AG-ME-1321 ...

Change to Amendment 6 which modifies the Analytical Annex

Replace: 6.4 ANALYSIS OF TREATED SAMPLES

Each individual control and treated sample will be analyzed at least once.

The criteria governing analysis of the samples are those provided in the section “Mass Spectrometric Analysis” in the Sample Analysis section of the current version of the analytical method ES-ME-1267.

with: 6.4 ANALYSIS OF TREATED SAMPLES

Each individual control and treated sample will be analyzed at least once.

The criteria governing analysis of the samples are those provided in the section “Mass Spectrometric Analysis” in the Sample Analysis section of the current version of the analytical method AG-ME-1321.

Change to Amendment 7 which modifies a portion of Section 6.4:

6.4 ANALYSIS OF TREATED SAMPLES

In addition to the fortifications in ES-ME-1267, control samples will be fortified ...

Changed to:

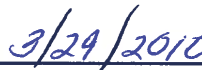
6.4 ANALYSIS OF TREATED SAMPLES

In addition to the fortifications in AG-ME-1321, control samples will be fortified ...

APPROVED BY:



Sharon J. Moran
Study Director



Date



Michael J. Miller
Sponsor Representative



Date

REVIEWED BY:



Steve C. Reale
Quality Assurance



Date

PROTOCOL AMENDMENT

TITLE: Magnitude of Residues of Dicamba in Soybean Raw Agricultural and Processed Commodities after Application to MON 87708

PROTOCOL NUMBER: REG-08-096

AMENDMENT NUMBER: 9

EFFECTIVE DATE: September 10, 2010

1) CHANGE:

The study will be re-opened to amend the final study report.

1) REASON:

The final study report is being amended to add missing raw data tables to Appendix 7 for the 5-hydroxydicamba analyte in forage, to clarify the reason for re-analysis of select forage samples, and to correct an error in the storage interval for forage.

2) CHANGE:

Section 6 STUDY DIRECTOR

Sharon J. Moran
Monsanto Company V2B
800 N. Lindbergh Blvd.
St. Louis, Missouri 63167
Phone: (314) 694-8299
Fax: (314) 694-5925
Email: sharon.j.moran@monsanto.com

Changed to:

Michael J. Miller
Monsanto Company V2C
800 N. Lindbergh Blvd.
St. Louis, Missouri 63167
Phone: (314) 694-8269
Fax: (314) 694-8774
Email: michael.j.miller@monsanto.com

2) REASON:

The original study director is no longer an employee of Monsanto Company.

APPROVED BY:

Michael J. Miller

Michael J. Miller
Study Director

9/10/2010

Date

Monte A. Marshall

Monte A. Marshall
Sponsor Representative

9/10/10

Date

REVIEWED BY:

Steve C. Reale

Steve C. Reale
Quality Assurance

9/10/10

Date

Appendix 2. Field Report

Summary Field Report for the Study Titled

Determination of Dicamba Residues in Soybean Commodities after Preemergence and
Postemergence Application to Dicamba-Tolerant Soybean MON 87708

Data Requirement

EPA Guideline Requirement OPPTS 860.1500 (Magnitude of the Residue -
Crop Field Trials) and OPPTS 860.1520 (Processed Food/Feed)

Performing Laboratory

Eurofins | Grayson
211 N. Main Street
Creedmoor, North Carolina 27522

Sponsor

Monsanto Company
800 North Lindbergh Blvd.
St. Louis, Missouri 63167

Study Numbers

REG-08-096
Monsanto Report No. MSL0021313

Authors

Tami I. Belcher
MaryEllen Riley

Report Date

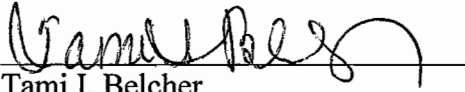
21 August 2009

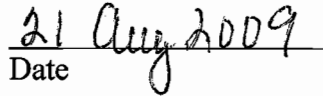
This report consists of 172 pages.

**STATEMENT OF COMPLIANCE WITH FIFRA GOOD
LABORATORY PRACTICES**

The field phase of this study was conducted according to the requirements of 40 CFR Part 160, FIFRA, Good Laboratory Practice Standards Final Rule, FR, August 17, 1989, except for the following:

1. Historical and in-life meteorological data are not considered to be in compliance with GLPs.
2. Some data were not collected or recorded in complete compliance with 160.130(e). The raw data contain some late entries, which were recorded after the initial entries. In addition, some emails were not initialed and dated on the day they were printed, and some raw data entries were not initialed and dated on the day they were recorded.
3. Plot histories, site preparation, fertilization, maintenance, and seeding were not performed in compliance with GLPs.
4. Site elevation, slope, soil series, and water table information were not collected according to GLPs.
5. GPS units used to determine latitude and longitude of the permanent reference markers were not GLP instruments.


Tami I. Belcher
Field Research
Management Contractor


Date

STATEMENT OF THE QUALITY ASSURANCE UNIT

Study Title:

Determination of Dicamba Residues in Soybean Commodities after Preemergence and Postemergence Application to Dicamba-Tolerant Soybean MON 87708

The Quality Assurance Unit of Eurofins | Grayson, or contracted QAU personnel, have audited phases of this study and reported their findings to the Study Director and Testing Facility Management on the following dates:

Phase of Study	Site	Date of Inspection	Date Reported to Study Director	Date Reported to Management
Application	GA	07/15-16-/08	07/21/08	07/21/08
Sampling	GA	10/22/08	02/04/09	02/04/09
Field Raw Data	GA	05/07/09	07/27/09	07/27/09
Application	SC	07/11/08	07/18/08	07/18/08
Sampling	SC	07/31/08	08/04/08	08/04/08
Field Logbook	SC	01/06/09	01/12/09	01/12/09
Field Raw Data	SC	05/07/09	07/27/09	07/27/09
Application	LA	06/09/08	06/09/08	06/09/08
Field Logbook	LA	12/18/08	12/18/08	12/18/08
Field Raw Data	LA	05/10/09	07/27/09	07/27/09
Application	AR	06/25/08	06/26/08	06/26/08
Sampling	AR	07/10/08	07/11/08	07/11/08
Field Logbook	AR	10/21/08	10/22/08	10/22/08
Field Raw Data	AR	05/11/09	07/27/09	07/27/09
Application	MO	09/16/08	09/19/08	09/19/08
Sampling	MO	09/30/08	10/13/08	10/13/08
Field Logbook	MO	12/07/08	12/09/08	12/09/08
Field Raw Data	MO	05/11/09	07/27/09	07/27/09
Application	IL-1	07/14/08	07/21/08	07/21/08
Sampling	IL-1	07/21/08	08/04/08	08/04/08
Field Logbook	IL-1	11/10/08	11/11/08	11/11/08
Field Raw Data	IL-1	05/12/09	07/27/09	07/27/09
Application	IL-2	06/20/08	06/30/08	06/30/08
Sampling	IL-2	08/05/08	08/12/08	08/12/08
Field Logbook	IL-2	01/13/09	01/13/09	01/13/09
Field Raw Data	IL-2	05/12/09	07/27/09	07/27/09
Application	IN	06/27/08	07/21/08	07/21/08
Sampling	IN	08/25/08	09/08/08	09/08/08
Field Logbook	IN	02/15/09	03/06/09	03/24/09
Field Raw Data	IN	05/13/09	07/27/09	07/27/09
Application	IA-1	09/29/08	10/01/08	10/01/08
Sampling	IA-1	10/13/08	10/20/08	10/20/08
Field Logbook	IA-1	11/18/08	12/17/08	12/17/08
Field Raw Data	IA-1	06/12/09	07/27/09	07/27/09
Application	IA-2	07/29/08	08/05/08	08/05/08
Sampling	IA-2	08/12/08	08/19/08	08/19/08
Field Logbook	IA-2	12/12/08	12/17/08	12/17/08
Field Raw Data	IA-2	06/12/09	07/27/09	07/27/09
Application	KS-1	10/08/08	10/09/08	10/09/08
Sampling	KS-1	08/07/08	08/08/08	08/08/08
Field Logbook	KS-1	01/21/09	01/22/09	01/22/09

STATEMENT OF THE QUALITY ASSURANCE UNIT (Continued)

Phase of Study	Site	Date of Inspection	Date Reported to Study Director	Date Reported to Management
Field Raw Data	KS-1	06/12/09	07/27/09	07/27/09
Application	KS-2	09/25/08	09/30/08	09/30/08
Sampling	KS-2	10/09/08	10/17/08	10/17/08
Field Logbook	KS-2	11/22/08	11/24/08	11/24/08
Field Raw Data	KS-2	06/12/09	07/27/09	07/27/09
Application	MI	06/27/08	06/27/08	06/27/08
Sampling	MI	07/30/08	07/30/08	07/30/08
Field Raw Data	MI	06/12/09	07/27/09	07/27/09
Application	MN-1	07/15/08	07/15/08	07/15/08
Sampling	MN-1	10/18/08	10/18/08	10/18/08
Field Logbook	MN-1	02/10/09	02/10/09	02/10/09
Field Raw Data	MN-1	06/13/09	07/27/09	07/27/09
Application	MN-2	08/01/08	08/01/08	08/01/08
Sampling	MN-2	10/18/08	10/18/08	10/18/08
Field Logbook	MN-2	02/10/09	02/10/09	02/10/09
Field Raw Data	MN-2	06/14/09	07/27/09	07/27/09
Application	NE-1	07/21/08	07/21/08	07/21/08
Sampling	NE-1	08/04-13/08	08/14/08	08/14/08
Field Logbook	NE-1	11/07/08	11/07/08	11/07/08
Field Raw Data	NE-1	06/23/09	07/27/09	07/27/09
Application	NE-2	10/09/08	10/10/08	10/10/08
Sampling	NE-2	08/07/08	08/09/08	08/09/08
Field Logbook	NE-2	11/21/08	11/22/08	11/22/08
Field Raw Data	NE-2	06/24/09	07/27/09	07/27/09
Application	ND-1	10/02/08	10/08/08	10/08/08
Sampling	ND-1	10/17/08	10/28/08	10/28/08
Field Logbook	ND-1	01/22/09	01/23/09	01/23/09
Field Raw Data	ND-1	05/06/09	07/27/09	07/27/09
Application	SD-1	10/01/08	12/31/08	12/31/08
Sampling	SD-1	10/16/08	12/24/08	12/24/08
Field Raw Data	SD-1	05/06/09	07/27/09	07/27/09
Application	SD-2	06/20/08	06/20/08	06/20/08
Sampling	SD-2	08/15/08	08/15/08	08/15/08
Field Logbook	SD-2	02/20/09	02/20/09	02/20/09
Field Raw Data	SD-2	06/24/09	07/27/09	07/27/09
Application	WI-1	07/09/08	07/30/08	07/30/08
Sampling	WI-1	08/07&11/08	08/25/08	08/25/08
Field Logbook	WI-1	12/30/08	12/31/08	12/31/08
Field Raw Data	WI-1	06/24/09	07/27/09	07/27/09
Application	WI-2	10/06/08	10/23/08	10/23/08
Sampling	WI-2	10/21/08	10/21/08	10/21/08
Field Logbook	WI-2	12/21/08 to 01/07/09	01/07/09	01/07/09
Field Raw Data	WI-2	06/24/09	07/27/09	07/27/09
Field Summary Report	All Sites	05/06-06/24/09 & 07/01/09	07/27/09	07/27/09
Field Summary Report (Added Data)	All Sites	07/27/09	07/28/09	07/28/09

All dates are in the mm-dd-yy format.

Vincella J. Erickson, 21 Aug. 2009
Vincella J. Erickson
 Quality Assurance
 A² Regulatory Professionals

Date


CERTIFICATION

This report is an accurate and complete representation of the study activities.

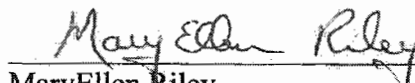
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RAW DATA STORAGE

All raw data, and the summary field report from this study, will be retained at Monsanto Company, 800 North Lindbergh Blvd., St. Louis, Missouri 63167.

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STUDY INFORMATION

Summary Field Report For:

Determination of Dicamba Residues in Soybean Commodities after Preemergence and Postemergence Application to Dicamba-Tolerant Soybean MON 87708

Study Director: Sharon J. Moran

Field Research Management Contractor: Eurofins | Grayson
P.O. Box 706 (Mail), 211 N. Main Street (Courier)
Creedmoor, North Carolina 27522

Authors: Tami I. Belcher
MaryEllen Riley

Study No.: REG-08-096

Study Initiation Date: 16 Apr 08

Report Date: 21 Aug 09

Site	Trial Type	In Life Start Date ¹	In Life Completion Date ²
Trial GA (Montezuma, Georgia)	RAC	13 Jun 08	5 Nov 08
Trial SC (Elko, South Carolina)	RAC	2 Jun 08	6 Nov 08
Trial LA (Washington, Louisiana)	RAC	9 Jun 08	31 Oct 08
Trial AR (Proctor, Arkansas)	RAC & Bridging	22 May 08	10 Oct 08
Trial MO (Fisk, Missouri)	RAC	31 May 08	27 Oct 08
Trial IL-1 (Wyoming, Illinois)	RAC	1 Jun 08	24 Oct 08
Trial IL-2 (Carlyle, Illinois)	RAC & Bridging	20 Jun 08	17 Nov 08
Trial IN (Rockville, Indiana)	RAC	27 Jun 08	23 Oct 08
Trial IA-1 (Richland, Iowa)	RAC & Decline	10 Jun 08	28 Oct 08
Trial IA-2 (Hedrick, Iowa)	RAC	18 Jun 08	18 Nov 08
Trial KS-1 (Cunningham, Kansas)	RAC & Bridging	18 Jun 08	3 Nov 08
Trial KS-2 (Hudson, Kansas)	RAC	9 Jun 08	20 Oct 08
Trial MI (Conklin, Michigan)	RAC	23 May 08	27 Oct 08
Trial MN-1 (Campbell, Minnesota)	RAC & Decline	20 Jun 08	13 Nov 08
Trial MN-2 (Fergus Falls, Minnesota)	RAC & Bridging	17 Jun 08	13 Nov 08
Trial NE-1 (York, Nebraska)	RAC & Processing	4 Jun 08	21 Oct 08
Trial NE-2 (Osceola, Nebraska)	RAC	17 Jun 08	18 Nov 08
Trial ND-1 (Carrington, North Dakota)	RAC	23 May 08	12 Nov 08
Trial SD-1 (Centerville, South Dakota)	RAC	14 Jun 08	18 Nov 08
Trial SD-2 (Britton, South Dakota)	RAC	20 Jun 08	13 Nov 08
Trial WI-1 (Delavan, Wisconsin)	RAC & Processing	4 Jun 08	24 Oct 08
Trial WI-2 (Fitchburg, Wisconsin)	RAC	19 Jun 08	17 Nov 08

¹ Date of the first application event at the trial site.

² Date of the final sample shipment to analytical facility.

ABSTRACT

This study was conducted to determine the magnitude and decline of dicamba and its major metabolite residues in dicamba-tolerant MON 87708 soybean forage, hay, and seed samples following applications of different formulations of dicamba herbicide. In addition, application at exaggerated rates was made at two field sites to provide information on residues in seed that may diminish or concentrate during food processing. This study is being conducted in satisfaction of the U.S. EPA Pesticide Assessment Guideline OPPTS 860.1500 (Magnitude of the Residue - Crop Field Trials) and OPPTS 860.1520 (Processed Food/Feed). All trials were conducted in strict compliance with U.S. Animal and Plant Health Inspection Service (APHIS) regulations for the use of a genetically modified organism (transgenic seed) in the study. Twenty two field trials were conducted in principal soybean growing regions of the United States.

At each field site there were five treated plots (Treatments 2, 3, 4, 5, and 7) and one untreated control plot (Treatment 1). At two sites, there was an additional treated plot (Treatment 8) that received the test substance MON 54140 at an exaggerated rate for the processing study. Four sites had an additional treated plot (Treatment 6) for use in bridging to MON 54140. The three test substances consisting of different formulations of the active ingredient dicamba applied in the study were MON 54140 (dicamba formulated as the diglycolamine salt), MON 11955 (dicamba formulated as the monoethanolamine salt), and MON 11958 (microencapsulated dicamba formulated as the 1-dodecyl-2-pyrrolidinone salt).

The treatment, application rate, and time of application for each treated plot are shown in the table below.

Treatment	Number of Sites	Dicamba Formulation	Non-ionic Surfactant and AMS	Application Rate (lb acid equivalent/acre)			
				Pre-emergence	V3	R1/R2	14-day Pre-harvest
1	All	Non (UTC)	No	--	--	--	--
2	All	MON 54140	Yes	0.5	0.5	--	--
3	All	MON 11958	Yes	1.0	1.0	--	--
4	All	MON 11955	Yes	1.0	0.5	0.5	--
5 ¹	All	MON 11955	Yes	--	1.0	1.0	--
6 ²	Four	MON 54140	Yes	--	1.0	1.0	--
7	All	MON 54140	Yes	0.5	0.5	--	1.0
8 ³	Two	MON 54140	Yes	1.0	--	2.0	--

¹All sites conducted this treatment with two sites (IA-1 and MN-1) also conducting additional sampling for determination of residue decline.

²At four sites (AR, IL-2, KS-1, and MN-2), this treatment was made for use in bridging to MON 54140.

³Two sites (NE-1 and WI-1) were treated at an exaggerated rate for the processing study.

All test substance applications were within $\pm 5\%$ of the target rate, with the exceptions at the IA-1 and WI-1 sites which occurred when some test substance application rates exceeded the $\pm 5\%$ target range. At the SD-2 site, all V3 applications were made at the V4 growth stage due to adverse weather conditions that delayed the application.

All applications targeted a spray volume range of 19 - 21 gallons per acre (GPA). Exceptions occurred at the IL-1, IL-2, LA, KS-1, IN, and SD-1 sites where the spray volume either was below or exceeded the targeted range for some applications. A non-ionic surfactant (NIS) (80% minimum active) was added to the spray solution at a rate of 1 pint per 100 gallons for all applications to improve postemergence weed control. Exceptions occurred at the IA-1 and IA-2 sites where NIS was applied to all preemergence treatments at the rate of 0.5 pint/100 gallons; and at site WI-2 where NIS was applied at 2.0 pints/100 gallons to all preemergence applications. In addition, spray grade ammonium sulfate (AMS) was added to the spray solution for all applications at the rate of 17 lb per 100 gallons.

For raw agricultural commodity (RAC) samples, soybean forage was cut and collected from the control and treated plots 2, 3, 4, 5, and 6 at 7 ± 1 (at least 7 days after the last application (DALA)) days after the R1/R2 growth stage. At the WI-2 site, forage samples were collected at 10 DALA. Hay samples were cut 14 ± 1 days after the R1/R2 growth stage and field dried to a moisture content of 10 to 20% at treated plots 2 through 6. Forage and hay samples were not collected from treated plots 7 and 8. Soybean seed was collected from all plots (Treatments 1 through 8) at normal harvest. Seed at the KS-1 and SD-2 sites was collected 19 days after the 14-day PHI application to Treatment 7 instead of 14 ± 2 due to adverse weather conditions which prohibited entry into the field at the required timing.

At the two decline sites, forage samples were collected from Treatment 5 only at 3 ± 1 days after the last application, 7 ± 1 DALA, 10 ± 1 DALA, and 14 ± 1 DALA. Seed samples were collected from Treatment 5 only at 7 ± 1 days after normal seed harvest, at normal seed harvest, 7 ± 1 days after normal seed harvest, and 14 ± 1 days after normal seed harvest. The normal seed harvest samples at the MN-1 site were collected 10 days after the 7 ± 1 pre-normal harvest sampling. Hay was not required to be sampled for residue decline.

All samples were stored frozen after collection and shipped frozen to the analytical laboratory, Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63141. Soybeans for processing were shipped frozen to the processing site, GLP Technologies, Inc., 22723 State Highway 6 South, Navasota, TX 77868.

INTRODUCTION

Dicamba herbicide is used in multiple crops for the control of certain broadleaf weeds. Dicamba-tolerant soybean MON 87708 was used in the study to generate data that may be used to support pesticide label registration for preemergence or postemergence (in-crop) applications of dicamba-based herbicides over the top of dicamba-tolerant soybean MON 87708. Two to three applications of each of three formulations of dicamba herbicide were made preemergence and/or postemergence (at V3 and R1/R2 growth stages) to dicamba-tolerant soybean MON 87708 at each field test site. In addition, applications at exaggerated rates were made at two processing field sites.

STUDY PURPOSE

The purpose of this study was to determine the magnitude and decline of dicamba and its major metabolite residues in dicamba-tolerant MON 87708 soybean forage, hay, and seed samples following applications of different formulations of dicamba herbicide. In addition, the processing portion of the study will assist in determining whether residues in seed will diminish or concentrate during food processing. The field sites were located in soybean growing regions (Regions 2, 4 and 5) of the United States. There were fourteen RAC field sites, four RAC and bridging sites, two RAC and decline sites, and two RAC and processing sites.

GUIDELINE REQUIREMENT

This study was carried out to satisfy the EPA Guideline Requirement OPPTS 860.1500 (Magnitude of the Residue - Crop Field Trials) and OPPTS 860.1520 (Processed Food/Feed).

COMPLIANCE WITH USDA-APHIS REQUIREMENTS

Dicamba-tolerant soybean MON 87708 is regulated by USDA-APHIS. Seed was shipped by the sponsor to the field test sites under double containment to prevent accidental release. It was stored at the test sites in a secured facility, separate from non-regulated seed, with a sign posted stating that a genetically modified organism (transgenic seed) was being stored and that unauthorized access was denied. Any seed that remained after the plots were established was devitalized on site by incinerating or burying in the plots. The seed containers were incinerated on site.

All soybean plots had an isolation distance of at least 15 feet surrounding the plot to prevent mechanical mixing with neighboring crops. Planting equipment was inspected and cleaned before removing from the test area to prevent inadvertent release of the regulated seed. Soybean plants remaining in the plots after sampling were devitalized by burying into the soil. Samples stored frozen at the test sites were isolated from non-regulated samples. The secured facility was identified with a sign posted indicating the storage of a regulated genetically modified organism and that unauthorized access was denied. The use of double containment during sample shipping was employed to prevent spillage or loss. Hay and seed

shipping containers contained a label on the outside stating the regulated sample contents of the container along with the appropriate APHIS notification number.

IDENTIFICATION OF FIELD EXPERIMENTS SUMMARIZED IN THIS REPORT

<u>Trial Number and Location</u>	<u>Trial Type</u>	<u>Region</u>
Trial GA (Montezuma, Georgia)	RAC	2
Trial SC (Elko, South Carolina)	RAC	2
Trial LA (Washington, Louisiana)	RAC	4
Trial AR (Proctor, Arkansas)	RAC & Bridging	4
Trial MO (Fisk, Missouri)	RAC	4
Trial IL-1 (Wyoming, Illinois)	RAC	5
Trial IL-2 (Carlyle, Illinois)	RAC & Bridging	5
Trial IN (Rockville, Indiana)	RAC	5
Trial IA-1 (Richland, Iowa)	RAC & Decline	5
Trial IA-2 (Hedrick, Iowa)	RAC	5
Trial KS-1 (Cunningham, Kansas)	RAC & Bridging	5
Trial KS-2 (Hudson, Kansas)	RAC	5
Trial MI (Conklin, Michigan)	RAC	5
Trial MN-1 (Campbell, Minnesota)	RAC & Decline	5
Trial MN-2 (Fergus Falls, Minnesota)	RAC & Bridging	5
Trial NE-1 (York, Nebraska)	RAC & Processing	5
Trial NE-2 (Osceola, Nebraska)	RAC	5
Trial ND-1 (Carrington, North Dakota)	RAC	5
Trial SD-1 (Centerville, South Dakota)	RAC	5
Trial SD-2 (Britton, South Dakota)	RAC	5
Trial WI-1 (Delavan, Wisconsin)	RAC & Processing	5
Trial WI-2 (Fitchburg, Wisconsin)	RAC	5

EXPERIMENTAL SECTION

Test Substances

Test Substance 1

Monsanto Code Number: MON 54140
EPA Registration Number: 7969-137
Trade Name: Clarity
Nominal Concentration of
the Active Ingredient: 480 g/L or 4 lb ae/gal dicamba acid equivalent
Lot Number: GLP-0804-19315-F

Active Ingredient

Common Name: dicamba
Chemical Name: 3,6-dichloro-2-methoxybenzoic acid, diglycolamine salt
CAS Number: 104040-79-1

Test Substance 2

Monsanto Code Number: MON 11955
EPA Registration Number: n/a
Trade Name: n/a
Nominal Concentration
of the Active Ingredient: 480 g/L or 4 ae lb/gal dicamba acid equivalent
Lot Number: GLP-0803-19268-F

Active Ingredient

Common Name: dicamba
Chemical Name: 3,6-dichloro-2-methoxybenzoic acid, monoethanolamine salt
CAS Number: n/a

Test Substance 3

Monsanto Code Number: MON 11958
EPA Registration Number: n/a
Trade Name: n/a
Nominal Concentration
of the Active Ingredient: 190 g/L or 1.59 lb ae/gal dicamba acid equivalent
Lot Number: GLP-0803-19294-F

Active Ingredient

Common Name: dicamba
Chemical Name: 3,6-dichloro-2-methoxybenzoic acid, 1-dodecyl-2-pyrrolidinone salt
CAS Number: n/a

Storage conditions of the test substances ranged from 40 to 98 °F at the field test sites (Tables I through XXII of this report).

Field Trial Methods

Plot size in the trials ranged from 1000 to 3600 square feet for the treated and untreated plots. Principal Field Investigators at each trial site established plot sizes that were adequately sized to obtain a representative unbiased sample of the raw agricultural commodity (RAC). In order to avoid possible contamination, untreated control plots were located upslope and upwind, and separated from the treated plot by a minimum distance of 100 feet. Duplicate samples of each matrix were collected from the treated plot and one from the control plot.

Crop Production

Soybeans at the test sites were grown according to normal agricultural practices for the area, and were not stressed by insect, disease or weed pressures. Air temperature and relative humidity during the test were not significantly different from historical normal averages.

Weather and Irrigation

Weather data for each site included daily minimum and maximum air temperatures and rainfall. Historical data included monthly minimum and maximum averages of the same environmental conditions over a minimum 10-year period. A summary of climatic conditions, including historical data and irrigation, is provided in Tables I through XXII.

Treatments/Applications

At each field site, five treated plots (Treatment 2, 3, 4, 5, and 7) and one untreated control plot (Treatment 1) were established using dicamba-tolerant soybean MON 87708. At two sites there was an additional treated plot (Treatment 8) that received the test substance MON 54140 at exaggerated rates for the processing study. Four sites had an additional treated plot (Treatment 6) for use in bridging to MON 54140. Prior to each application, sprayers were calibrated by the volume/time method.

There were three test substances consisting of different formulations of the active ingredient dicamba applied in the study. They included MON 54140 (dicamba formulated as the diglycolamine salt), MON 11955 (dicamba formulated as the monoethanolamine salt), and MON 11958 (microencapsulated dicamba formulated as the 1-dodecyl-2-pyrrolidinone salt).

The treatment, application rate, and time of application for each treated plot are shown in the table below.

Treatment	Number of Sites	Dicamba Formulation	Non-ionic Surfactant and AMS	Application Rate (lb acid equivalent/acre)			
				Pre-emergence	V3	R1/R2	14-day Pre-harvest
1	All	None (UTC)	No	--	--	--	--
2	All	MON 54140	Yes	0.5	0.5	--	--
3	All	MON 11958	Yes	1.0	1.0	--	--
4	All	MON 11955	Yes	1.0	0.5	0.5	--
5 ¹	All	MON 11955	Yes	--	1.0	1.0	--
6 ²	Four	MON 54140	Yes	--	1.0	1.0	--
7	All	MON 54140	Yes	0.5	0.5	--	1.0
8 ³	Two	MON 54140	Yes	1.0	--	2.0	--

¹All sites conducted this treatment with two sites (IA-1 and MN-1) also conducting additional sampling for determination of residue decline.

²At four sites (AR, IL-2, KS-1, and MN-2), this treatment was made for use in bridging to MON 54140.

³Two sites (NE-1 and WI-1) were treated at an exaggerated rate for the processing study.

At the SD-2 site, all V3 applications were made at the V4 growth stage due to adverse weather conditions that delayed the application. All applications were within $\pm 5\%$ of the target spray volume range of 19 - 21 GPA, except at the IL-1, IL-2, LA, KS-1, IN, and SD-1 sites where the spray volume either was below or exceeded the targeted range for some applications. A non-ionic surfactant (NIS) (80% minimum active) was added to the spray solution at a rate of 1 pint per 100 gallons for all applications to improve postemergence weed control. Exceptions occurred at the IA-1 and IA-2 sites where NIS was applied to all

preemergence treatments at the rate of 0.5 pint/100 gallons; and at site WI-2 where NIS was applied at 2.0 pints/100 gallons to all preemergence applications. In addition, spray grade ammonium sulfate (AMS) was added to the spray solution for all applications at the rate of 17 lb per 100 gallons. All test substance applications were within $\pm 5\%$ of the target rate, except at the IA-1 and WI-1 sites where some test substance application rates exceeded the $\pm 5\%$ target range. Application information is summarized for each site in Tables I through XXII.

SUMMARY TABLE 1: A SUMMARY OF TREATMENTS AND APPLICATION RATES FOR EACH TEST SITE.

Test Site	Treatment	Preemergence	V3	R1/R1	14-Day Pre-harvest	Total
		Rate (lb ai/A)	Rate (lb ai/A)	Rate (lb ai/A)	Rate (lb ai/A)	Rate (lb ai/A)
GA	2	0.498	0.495	na	na	0.993
	3	0.967	0.962	na	na	1.929
	4	0.988	0.498	0.498	na	1.984
	5	na	0.987	0.991	na	1.978
	7	0.493	0.497	na	0.996	1.986
SC	2	0.502	0.497	na	na	0.999
	3	1.006	0.988	na	na	1.994
	4	0.999	0.496	0.503	na	1.998
	5	na	1.001	0.999	na	2.000
	7	0.501	0.495	na	0.995	1.991
LA	2	0.482	0.492	na	na	0.974
	3	0.999	0.985	na	na	1.984
	4	0.994	0.492	0.507	na	1.993
	5	na	0.984	1.008	na	1.992
	7	0.493	0.498	na	1.029	2.020
AR	2	0.501	0.499	na	na	1.000
	3	1.001	1.000	na	na	2.001
	4	1.001	0.499	0.500	na	2.000
	5	na	0.999	0.998	na	1.997
	6	na	1.001	0.999	na	2.000
	7	0.501	0.500	na	1.003	2.004
MO	2	0.502	0.498	na	na	1.000
	3	1.010	0.996	na	na	2.006
	4	0.995	0.504	0.506	na	2.005
	5	na	0.993	1.005	na	1.998
	7	0.503	0.502	na	1.008	2.013
IL-1	2	0.483	0.481	na	na	0.964
	3	1.049	1.019	na	na	2.068
	4	1.004	0.501	0.499	na	2.004
	5	na	0.993	1.016	na	2.009
	7	0.500	0.512	na	1.004	2.016
IL-2	2	0.503	0.511	na	na	1.014
	3	1.002	1.006	na	na	2.008
	4	1.025	0.510	0.500	na	2.035
	5	na	0.992	0.986	na	1.978
	6	na	1.009	1.013	na	2.022
	7	0.507	0.517	na	1.023	2.047

SUMMARY TABLE 1: A SUMMARY OF TREATMENTS AND APPLICATION RATES FOR EACH TEST SITE (Continued).

Test Site	Treatment	Preemergence	V3	R1/R1	14-Day Pre-harvest	Total
		Rate (lb ai/A)	Rate (lb ai/A)	Rate (lb ai/A)	Rate (lb ai/A)	Rate (lb ai/A)
IN	2	0.476	0.498	na	na	0.974
	3	0.975	1.022	na	na	1.997
	4	1.003	0.496	0.491	na	1.990
	5	na	1.012	0.993	na	2.005
	7	0.510	0.498	na	1.000	2.008
IA-1	2	0.500	0.503	na	na	1.003
	3	1.000	0.895	na	na	1.895
	4	1.008	0.451	0.507	na	1.966
	5	na	0.979	0.998	na	1.977
	7	0.494	0.506	na	1.007	2.007
IA-2	2	0.501	0.484	na	na	0.985
	3	1.024	1.026	na	na	2.050
	4	0.995	0.516	0.501	na	2.012
	5	na	1.019	1.000	na	2.019
	7	0.508	0.502	na	1.001	2.011
KS-1	2	0.516	0.515	na	na	1.031
	3	0.985	1.000	na	na	1.985
	4	0.987	0.489	0.508	na	1.984
	5	na	0.985	1.024	na	2.009
	6	na	0.988	1.049	na	2.037
	7	0.507	0.504	na	0.953	1.964
KS-2	2	0.512	0.516	na	na	1.028
	3	1.015	0.998	na	na	2.013
	4	1.019	0.493	0.518	na	2.030
	5	na	1.033	1.040	na	2.073
	7	0.508	0.504	na	0.985	1.997
MI	2	0.501	0.496	na	na	0.997
	3	0.995	1.001	na	na	1.996
	4	1.000	0.500	0.496	na	1.996
	5	na	0.998	0.990	na	1.988
	7	0.498	0.500	na	0.997	1.995
MN-1	2	0.500	0.502	na	na	1.002
	3	1.003	1.003	na	na	2.006
	4	0.999	0.501	0.501	na	2.001
	5	na	0.998	1.010	na	2.008
	7	0.501	0.502	na	0.999	2.002
MN-2	2	0.502	0.500	na	na	1.002
	3	1.001	1.002	na	na	2.003
	4	1.001	0.502	0.501	na	2.004
	5	na	1.001	1.004	na	2.005
	6	na	1.003	1.000	na	2.003
	7	0.500	0.501	na	1.001	2.002

SUMMARY TABLE 1: A SUMMARY OF TREATMENTS AND APPLICATION RATES FOR EACH TEST SITE (Continued).

Test Site	Treatment	Preemergence	V3	R1/R1	14-Day Pre-harvest	Total
		Rate (lb ai/A)	Rate (lb ai/A)	Rate (lb ai/A)	Rate (lb ai/A)	Rate (lb ai/A)
NE-1	2	0.506	0.501	na	na	1.007
	3	1.003	0.995	na	na	1.998
	4	1.007	0.502	0.500	na	2.009
	5	na	1.000	1.004	na	2.004
	7	0.509	0.497	na	1.005	2.011
	8	1.006	na	2.058	na	3.064
NE-2	2	0.495	0.499	na	na	0.994
	3	0.975	1.003	na	na	1.978
	4	0.979	0.500	0.505	na	1.984
	5	na	1.011	1.012	na	2.023
	7	0.496	0.503	na	1.025	2.024
ND-1	2	0.502	0.497	na	na	0.999
	3	1.000	1.007	na	na	2.007
	4	1.000	0.500	0.505	na	2.005
	5	na	0.994	1.005	na	1.999
	7	0.506	0.497	na	1.002	2.005
SD-1	2	0.487	0.499	na	na	0.986
	3	1.000	1.018	na	na	2.018
	4	0.973	0.495	0.496	na	1.964
	5	na	1.005	0.947	na	1.952
	7	0.497	0.497	na	1.011	2.005
SD-2	2	0.499	0.502	na	na	1.001
	3	0.998	1.002	na	na	2.000
	4	0.996	0.502	0.501	na	1.999
	5	na	1.002	1.000	na	2.002
	7	0.499	0.501	na	1.000	2.000
WI-1	2	0.503	0.494	na	na	0.997
	3	0.986	0.924	na	na	1.910
	4	0.995	0.462	0.498	na	1.955
	5	na	0.978	0.998	na	1.976
	7	0.502	0.496	na	1.000	1.998
	8	0.999	na	1.996	na	2.995
WI-2	2	0.504	0.510	na	na	1.014
	3	1.012	0.995	na	na	2.007
	4	1.010	0.511	0.498	na	2.019
	5	na	1.022	0.996	na	2.018
	7	0.499	0.510	na	0.975	1.984

Example Test Substance Concentration Calculation

Test Substance: MON 54140

Target Application Rate: 0.5 lb ae/A

Formulation lb ae/A: 4.0

Area to Cover (**Site NE-2, Preemergence Treatment 2 application**) = 1000 ft² or 0.0230 A

Target Volume: 20 gpa

Actual Volume: $\frac{1592 \text{ mL (sprayer output)}}{30 \text{ sec (discharge time)}} \times \frac{31.99 \text{ sec (total pass time)}}{0.0230 \text{ A (plot size)}} \div 3785 \text{ mL/gal} = 19.5 \text{ gpa}$

Amount to Mix:

4 lb ae/A formulated product (fp) = $\frac{3785 \text{ mL}}{4 \text{ lbs/gal}} = 946.25 \text{ mL in 1 gallon}$

$\frac{946.25 \text{ mL}}{1 \text{ lb/gal}} \times 0.5 \text{ lb ae/A target application rate} = 473.125 \text{ mL per 0.5 lb/gal}$

$\frac{473.125 \text{ mL}}{20 \text{ GPA target volume}} = 23.67 \text{ mL of test substance}$

Non-ionic surfactant: $\frac{473 \text{ mL}}{100 \text{ gal}} = 4.73 \text{ mL/gal}$

Total Volume: 3757 mL water + 24 mL of test substance + 4.8 NIS = 3785.8 mL (1.0002 gal)

Concentration of Tank Mix:

24 mL test substance x (4.0 lb ae/gal fp ÷ 3785 mL/gal) ÷ 1.0002 gal mixed = 0.02536 lb ae/gal

0.02536 lb ae/gal x 0.449 gal volume on plot (19.5 gpa x 0.0230 A) = 0.0114 lb ae/plot

0.0114 lb ae/plot ÷ 0.0230 A plot size = 0.495 lb ae/A

$\frac{0.495 \text{ lb ae/A actual}}{0.50 \text{ lb ae/A target}} \times 100 = 99\% \text{ of target applied}$

AMS Additive Calculation: $\frac{17 \text{ lb}}{100 \text{ gal}} = 0.17 \text{ lb/gal} \times 454 \text{ g/lb} = 77.2 \text{ g/gal}$

Sampling

For RAC sampling, soybean forage was cut and collected from the control and treated plots 2, 3, 4, 5, and 6 at 7 ± 1 days after the R1/R2 growth stage (at least 7 days after the last application). At the WI-2 site, forage samples were collected at 10 DALA. Forage samples were not collected from treated plots 7 and 8. Hay samples were cut 14 ± 1 days after the R1/R2 growth stage and air dried to an estimated moisture content of 10 to 20% at treated plots 2 through 6. Hay samples were not collected from treated plots 7 and 8.

Soybean seed was collected from all plots (Treatments 1 through 8) at normal harvest. Seed at the KS-1 and SD-2 sites was collected 19 days after the 14-day PHI application to Treatment 7 instead of 14 ± 2 days due to adverse weather conditions which prevented entry into the field at the required timing. A minimum of 1 kg RAC sample was collected for forage and seed, and 0.5 kg for hay from at least twelve separate areas of the plot. Exceptions occurred at the NE-1, KS-1, and SD-1 sites when hay samples weighed less than the minimum 0.5 kg weight requirement. Soybean seed for processing was collected from plots 1 and 8. The bulk sample of at least 100 pounds of soybeans from each of treatments 1 and 8 was shipped frozen to the processing site.

RAC sample collection times and minimum sample size for each commodity are shown below.

RAC	Treatment	Time of Collection	Minimum Amount for Collection
Forage	1, 2, 3, 4, 5, 6	7 ± 1 days after the R1/R2 stage (must be at least 7 days after the last application for that treatment)	1 kg
	7, 8	No forage collected	
Hay	1, 2, 3, 4, 5, 6	14 ± 1 days after the R1/R2 stage	0.5 kg
	7, 8	No hay collected	
Seed	1, 2, 3, 4, 5, 6, 7, 8	Normal harvest	1 kg

At the two decline sites, forage samples were collected from Treatment 5 only at 3 ± 1 days after the last application (DALA), 7 ± 1 DALA, 10 ± 1 DALA, and 14 ± 1 DALA. Seed samples were collected from Treatment 5 only at 7 ± 1 days before normal seed harvest, at normal seed harvest, 7 ± 1 days after normal seed harvest, and 14 ± 1 days after normal seed harvest. The normal seed harvest at the MN-1 site was collected 10 days after the 7 ± 1 pre-normal harvest sampling. Hay was not required to be sampled for residue decline.

Sampling equipment included hand pruners, shears, sickles, and hedge trimmers for forage and hay collection. Seed samples were collected using a combine. Control and treated plots sampled at the same site were harvested the same day and samples were placed into labeled sample bags.

The untreated control plot was sampled first, followed by the treated plot. The treated plots were sampled in the order of Treatment 2, Treatment 3, Treatment 4, Treatment 5, Treatment 6, Treatment 8 (at processing sites), and finally, Treatment 7. Samples were collected randomly, from at least twelve separate areas of each plot. Sampling equipment was inspected and cleaned before leaving the plots. Remaining soybeans were destroyed according to APHIS regulations.

Sample Storage and Handling

Control and treated samples were transported from the field in coolers with blue ice, dry ice, or wet ice (encased in plastic); or in transport freezers. At some sites, hay samples were located on drying racks at the field facility and were placed directly into storage freezers. Control and treated samples were transferred to separate freezers within 4 hours of collection. Samples remained in frozen storage through shipment to the analytical facility, Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63141. The bulk soybeans for processing from treatments 1 and 8 were shipped frozen to the processing site, GLP Technologies, Inc., 22723 State Highway 6 South, Navasota, TX 77868. Samples were shipped frozen to the analytical facility and processing site via ACDS Freezer Truck. All samples were shipped according to APHIS regulations.

Protocol Changes

There were ten deviations to the protocol.

In Deviation No. 1 at the GA, SC, MO, MI, MN-2, and ND-1 sites, test substance treatment information was not submitted to the Field Research Management Contractor (FRMC) within 48 hours of the Preemergence application as required by protocol. Actual submission ranged from 3 to 12 days.

In Deviation No. 2 at trial site IL-1, the preemergence application to Treatment 3 was made in a spray volume of 21.2 GPA, which exceeded the maximum allowance of 21 GPA. At trial sites IA-1 and IA-2, during the preemergence application, the nonionic surfactant was applied to all treatments at 0.5 pint per 100 gallons of spray solution instead of 1.0 pint per 100 gallons. At site WI-2, during the preemergence application, the nonionic surfactant was applied to all treatments at 2.0 pints per 100 gallons of spray solution instead of 1.0 pint per 100 gallons.

In Deviation No. 3 at the SC, LA, IA-1, KS-1, MN-1, MN-2, ND-1, and WI-2 sites, test substance treatment information was not submitted to the FRMC within 48 hours of the V3 application as required by protocol. Actual submission ranged from 3 to 18 days.

In Deviation No. 4 at the LA site, the V3 application was made in a spray volume of 21.3 GPA to Treatments 2, 3, 4, and 5 and at 21.6 GPA to Treatment 7, which exceeded the maximum allowance of 21 GPA. At the IA-1 site, the V3 application was made to Treatments 3 and 4 at 89% and 90% of the target application rate. At the WI-1 site, the V3 application was made to Treatments 3 and 4 at 92% of the target application rate. At site IL-2, the V3 application to Treatment 7 was made in a spray volume of 21.2 GPA, which exceeded the maximum of 21 GPA. At site KS-1, the V3 application soil temperatures were

collected at a depth of 4 inches instead of 2 inches. In addition, wind speed during the application to Treatment 6 ranged from 5 to 7 mph, which exceeded the maximum of 5 mph. At site WI-2, during the V3 application wind speed gusted to 6 mph during the application to Treatments 2 and 7, and 7 mph during application to Treatment 4, which exceeded the maximum of 5 mph. At site SD-2, the V3 application to all treatments was made at the V4 growth stage.

In Deviation No. 5 at the LA, MO, KS-1, MI, MN-1, MN-2, SD-1, and WI-2 sites, test substance treatment information was not submitted to the FRMC within 48 hours of the R1/R2 application as required by protocol. Actual submission ranged from 3 to 6 days.

In Deviation No. 6 at the KS-1, the R1/R2 application soil temperatures were collected at a depth of 4 inches instead of 2 inches. Also, wind speed during the application to Treatments 4 and 6 ranged from 5 to 7 mph and from 5 to 8 mph for application to Treatment 5, which exceeded the maximum of 5 mph. In addition, the application to Treatments 4, 5, and 6 were made in a spray volume of 21.2, 21.4, and 21.9 GPA, respectively, which exceeded the maximum 21 GPA. At site IN, the R1/R2 application to Treatment 4 was made in a spray volume of 18.8 GPA, which was lower than the minimum allowance of 19 GPA. At site SD-1, the R1/R2 application to Treatment 5 was made in a spray volume of 18.8 GPA, which was lower than the minimum allowance of 19 GPA.

In Deviation No. 7 at the NE-1 site, all treated hay samples weighed less than the protocol required 0.5 kg. At site KS-1, all hay samples weighed less than the 0.5 kg requirement. At site SD-1, one treated hay sample from Treatment 3 weighed less than the minimum 0.5 kg requirement.

In Deviation No. 8 at the IN site, the 14-day pre-harvest application to Treatment 7 was made in a spray volume of 25.1 GPA, which exceeded the maximum allowance of 21 GPA. At site KS-1, calibration of the application equipment occurred the day before the 14-day pre-harvest application instead of within 12 hours of the application. At the MN-1 and MN-2 sites, the test substance treatment information for the 14-day pre-harvest application was not submitted within 48 hours. At the KS-1 and SD-2 sites, seed harvest occurred 19 days after the 14-day pre-harvest application to Treatment 7 instead of 14 ± 2 days. At site MN-1, Treatment 5 (decline plot), seed intended for "normal seed harvest" was collected 10 days after the " 7 ± 1 days before normal seed harvest" event. At site WI-1, the seed containers were destroyed without prior approval by the FRMC. At site IA-2, rainfall data was not collected on-site; rather it was collected from a NOAA weather station located approximately 11 miles from the test site.

Deviation No. 9 pertained to the processing phase of the study and does not impact the field phase.

In Deviation No. 10 at the GA site, calibration of the application equipment occurred the day before the V3 application instead of within 12 hours of the application. In addition, at the ND-1 site, a rain gauge was located on-site, but the data was not available due to malfunctioning equipment. Rainfall was recorded at a weather station located 4.5 miles from

the test site. At the SD-1 site, the seed container was incinerated without approval from the FRMC.

There were four amendments to the protocol pertaining to the field phase.

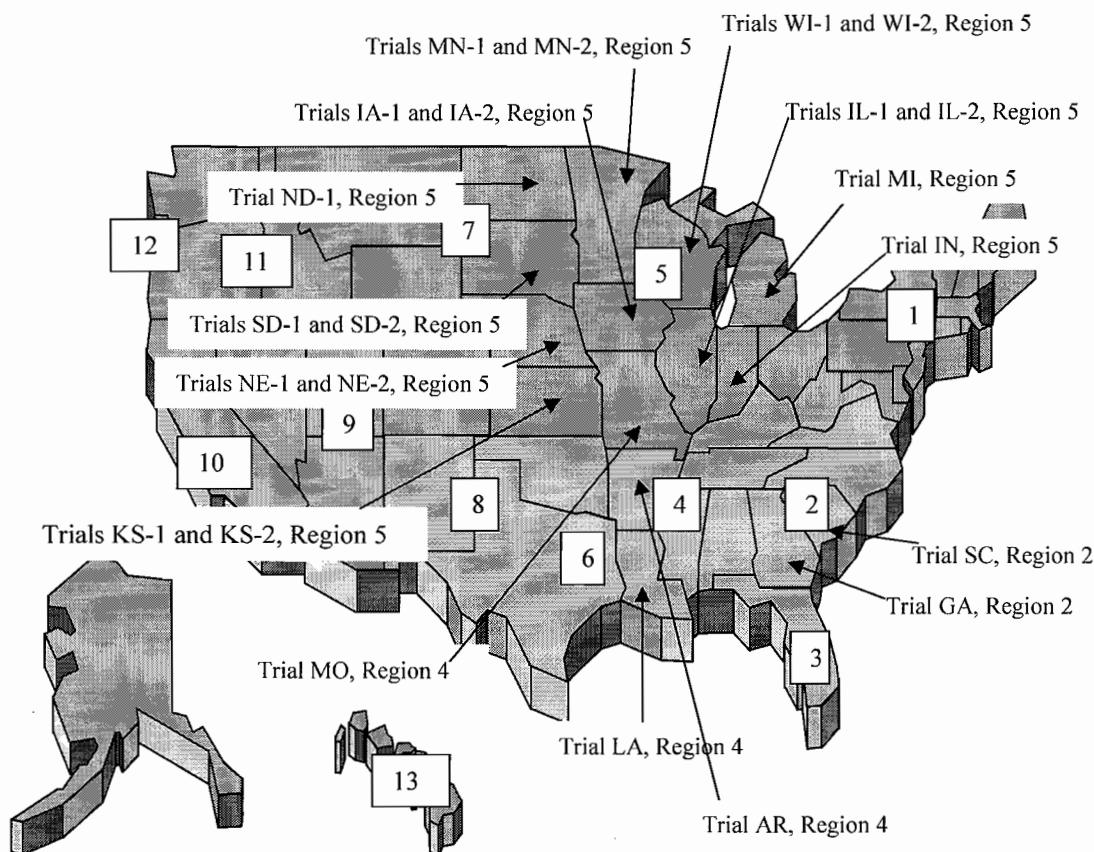
Amendment No. 1: Clarified the composition of the spray mixture for the preemergence and postemergence applications to include non-ionic surfactant and AMS to all spray solutions for Treatments 2 - 8.

Amendment No. 2: Excluded the GA, SC, and LA sites from the ability to use glyphosate as a maintenance chemical on the test plots; clarified the identity of the active ingredient in Test Substance 3; and corrected a typographical error in the entry for the state in the listing for the SC site.

Amendment No. 3: Corrected an error in Amendment 2 in the designation of the sites which should not use glyphosate as a maintenance chemical on the test plots to AR, GA, and SC.

Amendment No. 4: Added changes to the processing phase of the study; added Annex C Processing to the protocol; and corrected two typographical errors in Annex A.

FIGURE 1. MAP OF NORTH AMERICA SHOWING LOCATION OF FIELD TRIAL SITES



Trial Identification & Location	Trial Type	Region
Trial GA (Montezuma, Georgia)	RAC	2
Trial SC (Elko, South Carolina)	RAC	2
Trial LA (Washington, Louisiana)	RAC	4
Trial AR (Proctor, Arkansas)	RAC & Bridging	4
Trial MO (Fisk, Missouri)	RAC	4
Trial IL-1 (Wyoming, Illinois)	RAC	5
Trial IL-2 (Carlyle, Illinois)	RAC & Bridging	5
Trial IN (Rockville, Indiana)	RAC	5
Trial IA-1 (Richland, Iowa)	RAC & Decline	5
Trial IA-2 (Hedrick, Iowa)	RAC	5
Trial KS-1 (Cunningham, Kansas)	RAC & Bridging	5
Trial KS-2 (Hudson, Kansas)	RAC	5
Trial MI (Conklin, Michigan)	RAC	5
Trial MN-1 (Campbell, Minnesota)	RAC & Decline	5
Trial MN-2 (Fergus Falls, Minnesota)	RAC & Bridging	5
Trial NE-1 (York, Nebraska)	RAC & Processing	5
Trial NE-2 (Osceola, Nebraska)	RAC	5
Trial ND-1 (Carrington, North Dakota)	RAC	5
Trial SD-1 (Centerville, South Dakota)	RAC	5
Trial SD-2 (Britton, South Dakota)	RAC	5
Trial WI-1 (Delavan, Wisconsin)	RAC & Processing	5
Trial WI-2 (Fitchburg, Wisconsin)	RAC	5

TABLE I: TRIAL GA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN MONTEZUMA, GEORGIA

Principal Investigator:	Anthony Burch Research Options, Inc. 4275 Drayton Road Montezuma, GA 31063 Phone (478) 472-6288 / Email abroi@earthlink.net
Other Personnel:	Andrew Shaw and Stephen Wade
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 26 Nov 08.</p> <p>MON 11955: Received 250 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 26 Nov 08.</p> <p>MON 11958: Received 350 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 26 Nov 08.</p>
Chemical Storage Temperature:	58 to 98 °F
Site Location:	Montezuma, Macon County, Georgia (Region 2)
Field History:	<p>2005: Fallow, no pesticides.</p> <p>May 06: Cotton treated with Prowl at 1 qt/A; May 06: Cotton treated with Reflex at 1 pt/A; Jun 06: Cotton treated with Glyphosate at 1 qt/A; Jul 06: Cotton treated with Glyphosate at 1 qt/A.</p> <p>Jun 07: Wheat treated with Harmony Extra at 0.5 oz/A.</p> <p>2008: Fallow before trial start, no pesticides applied.</p>

TABLE I: TRIAL GA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN MONTEZUMA, GEORGIA (CONTINUED)

Target Crop:	Soybeans	
Planting Date:	12 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001844. Remaining seeds in hoppers were returned to the original seed packets. Equipment (hopper) was removed and visually inspected after planting. No seed was found. All remaining seed was buried in Treatment 4 plot on 25 Jun 08. Empty seed container was burned and buried in the plot on 25 Nov 08.	
Seeding Rate:	145,200 seeds per acre (10 seeds/row ft)	
Rows per Plot:	4	
Row Width:	3 feet	
Plot Size:	Trt 1: 85 ft x 12 ft = 1020 ft ² = 0.0234 A Trt 2: 85 ft x 12 ft = 1020 ft ² = 0.0234 A Trt 3: 85 ft x 12 ft = 1020 ft ² = 0.0234 A Trt 4: 85 ft x 12 ft = 1020 ft ² = 0.0234 A Trt 5: 85 ft x 12 ft = 1020 ft ² = 0.0234 A Trt 7: 85 ft x 12 ft = 1020 ft ² = 0.0234 A There was a >15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	D-W non-ionic surfactant 80% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	Kubota L245H tractor with boom #3, eight SS 8003 nozzles by TeeJet, spaced 18 inches apart, with 50 mesh nozzle screens at 18 inches above target using compressed air (20 psi).	
Soil Type:	Fuquay Loamy Sand	
Plot Maintenance Records:	4 Apr 08: disc harrowed field. 22 May 08: chisel plowed and disc harrowed. 27 May 08: applied Glyphosate at 1.0 qt/A and Valor at 2.0 oz/A. 11 Jun 08: applied Prowl at 1.0 qt/A and 03-20-30 fertilizer at 300 lb/A. 12 Jun 08: rototilled plots. 8 Jul 08: cultivated plots.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	13 Jun 08	15 Jul 08
Application Date	13 Jun 08	16 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.498 lb ae/A (100% of target)	0.495 lb ae/A (99% of target)
Application Volume	20.5 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	92.1 °F	85.9 °F
Soil Temperature	84 °F at 2 in.	82 °F at 2 in.
Relative Humidity	42.4%	68.8%
Wind Velocity /Direction	1.9 mph / E	1.9 mph / NE
Cloud Cover	60%	10%
Soil Moisture at Surface	Moist	Moist
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	13 Jun 08	15 Jul 08
Application Date	13 Jun 08	16 Jul 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.967 lb ae/A (97% of target)	0.962 lb ae/A (96% of target)
Application Volume	20.3 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹

TABLE I: TRIAL GA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN MONTEZUMA, GEORGIA (CONTINUED)

Application Information:	TRT 3 (MON 11958) continued		
Air Temperature	92.1 °F	85.9 °F	
Soil Temperature	84 °F at 2 in.	82 °F at 2 in.	
Relative Humidity	42.4%	68.8%	
Wind Velocity /Direction	1.9 mph / E	1.9 mph / NE	
Cloud Cover	60%	10%	
Soil Moisture at Surface	Moist	Moist	
Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	13 Jun 08	15 Jul 08	6 Aug 08
Application Date	13 Jun 08	16 Jul 08	6 Aug 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.988 lb ae/A (99% of target)	0.498 lb ae/A (100% of target)	0.498 lb ae/A (100% of target)
Application Volume	20.4 GPA	20.0 GPA	19.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1/R2 ²
Air Temperature	92.1 °F	85.9 °F	98 °F
Soil Temperature	84 °F at 2 in.	82 °F at 2 in.	98 °F at 2 in.
Relative Humidity	42.4%	68.8%	42%
Wind Velocity /Direction	1.9 mph / E	1.9 mph / NE	3.2 mph / NE
Cloud Cover	60%	10%	40%
Soil Moisture at Surface	Moist	Moist	Dry
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	15 Jul 08	6 Aug 08	
Application Date	16 Jul 08	6 Aug 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.987 lb ae/A (99% of target)	0.991 lb ae/A (99% of target)	
Application Volume	19.9 GPA	19.8 GPA	
Crop Growth Stage	V3 ¹	R1/R2 ²	
Air Temperature	85.9 °F	98 °F	
Soil Temperature	82 °F at 2 in.	98 °F at 2 in.	
Relative Humidity	68.8%	42%	
Wind Velocity /Direction	1.9 mph / NE	3.2 mph / NE	
Cloud Cover	10%	40%	
Soil Moisture at Surface	Moist	Dry	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	12-day PHI
Calibration Date	13 Jun 08	15 Jul 08	10 Oct 08
Application Date	13 Jun 08	16 Jul 08	10 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.493 lb ae/A (99% of target)	0.497 lb ae/A (99% of target)	0.996 lb ae/A (100% of target)
Application Volume	20.3 GPA	19.9 GPA	20.2 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	14-day PHI
Air Temperature	92.1 °F	85.9 °F	72.6 °F
Soil Temperature	84 °F at 2 in.	82 °F at 2 in.	78 °F at 2 in.
Relative Humidity	42.4%	68.8%	83.3%
Wind Velocity /Direction	1.9 mph / E	1.9 mph / NE	2.6 mph / SW
Cloud Cover	60%	10%	25%
Soil Moisture at Surface	Moist	Moist	Moist

TABLE I: TRIAL GA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN MONTEZUMA, GEORGIA (CONTINUED)

Harvest Procedures:	<p><u>Forage:</u> Shindaiwa N 452 22 DH gas powered hedge trimmer equipment used to cut forage. Samples were collected by hand.</p> <p><u>Hay:</u> Shindaiwa N 452 22 DH gas powered hedge trimmer equipment used to cut hay. Samples were collected by hand. and air dried to a moisture content of 15%.</p> <p><u>Seed:</u> A three point hitch sickle bar was used to cut the soybean plants at 1 - 2 inches above ground. Soybean plants from middle two rows were hand picked up and carried to a running small research Kincaid plot combine for threshing.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored coolers with blue ice for transport to freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	14 Aug 08	14 Aug 08	14 Aug 08
DALA	n/a	29	29
Growth Stage	R3	R3	R3
Plant Height	~33 inches	~33 inches	~33 inches
Samples Shipped Frozen	9 Oct 08	9 Oct 08	9 Oct 08
Samples Received Frozen	13 Oct 08	13 Oct 08	13 Oct 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	14 Aug 08	14 Aug 08	
DALA	8	8	
Growth Stage	R3	R3	
Plant Height	~33 inches	~33 inches	
Samples Shipped Frozen	9 Oct 08	9 Oct 08	
Samples Received Frozen	13 Oct 08	13 Oct 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	21 Aug 08	21 Aug 08	21 Aug 08
DALA (cut)	n/a	36	36
Sampling Date (collected)	30 Aug 08	30 Aug 08	30 Aug 08
Growth Stage	R4	R4	R4
Plant Height	~33 inches	~33 inches	~33 inches
Samples Shipped Frozen	9 Oct 08	9 Oct 08	9 Oct 08
Samples Received Frozen	13 Oct 08	13 Oct 08	13 Oct 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	21 Aug 08	21 Aug 08	
DALA (cut)	15	15	
Sampling Date (collected)	30 Aug 08	30 Aug 08	
Growth Stage	R4	R4	
Plant Height	~33 inches	~33 inches	
Samples Shipped Frozen	9 Oct 08	9 Oct 08	
Samples Received Frozen	13 Oct 08	13 Oct 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE I: TRIAL GA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN MONTEZUMA, GEORGIA (CONTINUED)

Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)		
Sampling Date	22 Oct 08	22 Oct 08	22 Oct 08		
DALA	n/a	98	98		
Growth Stage	BBCH 99	BBCH 99	BBCH 99		
Plant Height	Avg. 32 inches	Avg. 32 inches	Avg. 32 inches		
Samples Shipped Frozen	5 Nov 08	5 Nov 08	5 Nov 08		
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)		
Sampling Date	22 Oct 08	22 Oct 08	22 Oct 08		
DALA	77	77	12		
Growth Stage	BBCH 99	BBCH 99	BBCH 99		
Plant Height	Avg. 32 inches	Avg. 32 inches	Avg. 32 inches		
Samples Shipped Frozen	5 Nov 08	5 Nov 08	5 Nov 08		
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Crop Destruction:	4 Nov 08, all plots were disc harrowed once and then again perpendicular to devitalize the crop by burying in the soil.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	66.8	70	70	66	56
Avg. Max. Air Temp., °F ³	92.3	92	89	86	79
Monthly Rainfall, in ³	1.35	5.79	7.74	0.43	2.09
Irrigation, in ³	0.82	0.56	0	1.87	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	66.3	69.7	68.6	63.5	52.3
Avg. Max. Air Temp., °F	89.1	92.1	90.8	85.9	78.2
Monthly Rainfall, in	5.67	5.67	4.89	5.06	2.56

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (13 Jun 08) until the last sampling event (22 Oct 08).

Rainfall and air temperature data were recorded from a weather monitoring equipment located at the test site.

Historical weather data was recorded from a weather station located 13 miles from the test site.

FIGURE A: PLOT DIAGRAM FOR TRIAL GA, LOCATED IN MONTEZUMA, GEORGIA

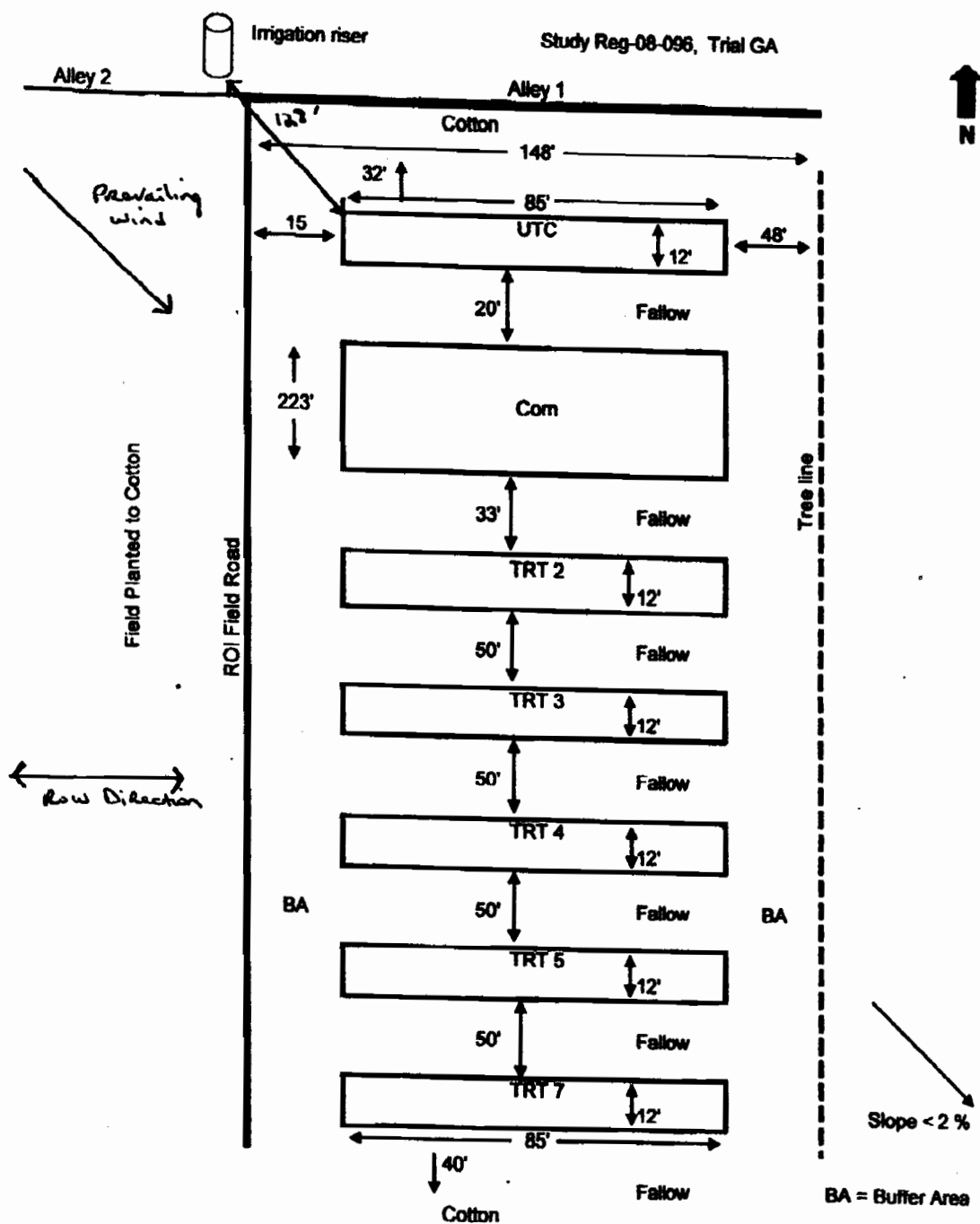


TABLE II: TRIAL SC, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ELKO, SOUTH CAROLINA

Principal Investigator:	Michael T. McCarty, Ph.D. Carolina Ag-Research Service, Inc. P.O. Box 132 10124 Highway 37 Elko, SC 29826 Phone (803) 266-7008 / Email carolina-ag@tds.net
Other Personnel:	Lane Crooks
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 29 Dec 08.</p> <p>MON 11955: Received 250 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 29 Dec 08.</p> <p>MON 11958: Received 350 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 29 Dec 08.</p>
Chemical Storage Temperature:	53 to 94 °F
Site Location:	Elko, Barnwell County, South Carolina (Region 2)
Field History:	<p>9 May 06: Cotton treated with Treflan at 0.75 lb ai/A; 10 May 06: Cotton treated with Temik at 0.75 lb ai/A; 26 May 06: Cotton treated with Roundup WeatherMax at 1.0 lb ai/A; 26 May 06: Cotton treated with Staple at 0.063 lb ai/A; 8 Jul 06: Cotton treated with Caparol at 1.0 lb ai/A; 19 Jul 06: Cotton treated with Baythroid at 0.04 lb ai/A; 26 Jul 06: Cotton treated with Baythroid at 0.04 lb ai/A; 9 Aug 06: Cotton treated with Karate at 0.04 lb ai/A; 19 Oct 06: Cotton treated with Prep at 1.0 lb ai/A; 19 Oct 06: Cotton treated and ET at 2.0 fl oz/A..</p>

TABLE II: TRIAL SC, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ELKO, SOUTH CAROLINA (CONTINUED)

Field History: continued	3 May 07: Cotton treated 3 with Treflan at 0.75 lb ai/A; 4 May 07: Cotton treated with Temik at 0.75 lb ai/A; 4 May 07: Cotton treated with Ridomil Gold PC at 8 lb/A; 5 May 07: Cotton treated with Staple at 0.032 lb ai/A; 5 May 07: Cotton treated and Reflex at 0.25 lb ai/A; 6 Jun 07: Cotton treated with Envoke at 0.0047 lb ai/A; 10 Jul 07: Cotton treated with Layby Pro at 1.0 lb/ai/A; 16 Jul 07: Cotton treated with Baythroid at 0.04 lb ai/A; 24 Jul 07: Cotton treated with Baythroid at 0.04 lb ai/A; 2 Aug 07: Cotton treated with Baythroid at 0.04 lb ai/A; 10 Aug 07: Cotton treated with Baythroid at 0.04 lb ai/A; 20 Aug 07: Cotton treated with Baythroid at 0.04 lb ai/A; 6 Oct 07: Cotton treated with ET at 1.5 fl oz/A; 6 Oct 07: Cotton treated with Prep at 1.0 lb ai/A.
Target Crop:	Soybeans
Planting Date:	2 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001844. Equipment was visually inspected after planting. No remaining seed was found. All seed was planted. Empty seed container was incinerated on 6 Nov 08.
Seeding Rate:	104,544 seeds per acre (8 seeds/row ft)
Rows per Plot:	10
Row Width:	40 inches
Plot Size:	Trt 1: 40 ft x 33.3 ft = 1332 ft ² = 0.0306 A Trt 2: 40 ft x 33.3 ft = 1332 ft ² = 0.0306 A Trt 3: 40 ft x 33.3 ft = 1332 ft ² = 0.0306 A Trt 4: 40 ft x 33.3 ft = 1332 ft ² = 0.0306 A Trt 5: 40 ft x 33.3 ft = 1332 ft ² = 0.0306 A Trt 7: 40 ft x 33.3 ft = 1332 ft ² = 0.0306 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot
Adjuvants:	Scanner non-ionic surfactant 80% ai and Ammonium sulfate (AMS) 99.5%
Application Type:	Foliar spray over top of crop
Application Equipment:	CO ₂ backpack sprayer with four 8003 flat fan nozzles by TeeJet, spaced 20 inches apart, with 50 mesh nozzle screens at 20 inches above target (16-20 psi) on a John Deere 2240 tractor.
Soil Characteristics:	Varina Loamy Sand
Plot Maintenance Records:	10 Mar 08: Disked test area. 15 Apr 08: Disked test area. 24 Apr 08: Disked test area. 23 May 08: Disked test area. 2 Jun 08: Applied 5-10-30 fertilizer at 300 lb/A and Prowl at 1.0 lb ai/A, disked into plots. 3 Jun 08: Applied Dual II at 1.0 lb ai/A. 25 Jun 08: Hand hoed and pulled weeds. 29 Jul 08: Hand hoed and pulled weeds. 1 Aug 08: Applied Karate at 0.03 lb ai/A. 15 Aug 08: Applied Methyl Parathion at 0.5 lb ai/A.

TABLE II: TRIAL SC, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ELKO, SOUTH CAROLINA (CONTINUED)

Application Information:	TRT 2 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	
Calibration Date	2 Jun 08	2 Jul 08	
Application Date	2 Jun 08	2 Jul 08	
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	
Actual Application Rate	0.502 lb ae/A (100% of target)	0.497 lb ae/A (99% of target)	
Application Volume	20.3 GPA	20.6 GPA	
Crop Growth Stage	Pre-emergence	V3 ¹	
Air Temperature	88 °F	84 °F	
Soil Temperature	90 °F at 2 in.	84 °F at 2 in.	
Relative Humidity	58%	42%	
Wind Velocity /Direction	3 mph / E	0-2 mph / N	
Cloud Cover	60%	0%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 3 (MON 11958)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	
Calibration Date	2 Jun 08	2 Jul 08	
Application Date	2 Jun 08	2 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.006 lb ae/A (101% of target)	0.988 lb ae/A (99% of target)	
Application Volume	20.3 GPA	20.5 GPA	
Crop Growth Stage	Pre-emergence	V3 ¹	
Air Temperature	88 °F	84 °F	
Soil Temperature	90 °F at 2 in.	84 °F at 2 in.	
Relative Humidity	58%	42%	
Wind Velocity /Direction	3 mph / E	0-2 mph / N	
Cloud Cover	60%	0%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	2 Jun 08	2 Jul 08	11 Jul 08
Application Date	2 Jun 08	2 Jul 08	11 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.999 lb ae/A (100% of target)	0.496 lb ae/A (99% of target)	0.503 lb ae/A (101% of target)
Application Volume	20.2 GPA	20.6 GPA	19.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1/R2 ²
Air Temperature	88 °F	84 °F	79 °F
Soil Temperature	90 °F at 2 in.	84 °F at 2 in.	80 °F at 2 in.
Relative Humidity	58%	42%	78%
Wind Velocity /Direction	3 mph / E	0-2 mph / N	3 mph / W
Cloud Cover	60%	0%	60%
Soil Moisture at Surface	Dry	Dry	Moist
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	2 Jul 08	11 Jul 08	
Application Date	2 Jul 08	11 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.001 lb ae/A (100% of target)	0.999 lb ae/A (100% of target)	
Application Volume	20.8 GPA	19.8 GPA	

TABLE II: TRIAL SC, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ELKO, SOUTH CAROLINA (CONTINUED)

Application Information:	TRT 5 (MON 11955) continued		
Crop Growth Stage	V3 ¹		R1/R2 ²
Air Temperature	84 °F		79 °F
Soil Temperature	84 °F at 2 in.		80 °F at 2 in.
Relative Humidity	42%		78%
Wind Velocity /Direction	0-2 mph / N		3 mph / W
Cloud Cover	0%		60%
Soil Moisture at Surface	Dry		Moist
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	2 Jun 08	2 Jul 08	24 Sep 08
Application Date	2 Jun 08	2 Jul 08	24 Sep 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.501 lb ae/A (100% of target)	0.495 lb ae/A (99% of target)	0.995 lb ae/A (100% of target)
Application Volume	20.2 GPA	20.5 GPA	20.3 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	80% leaf drop
Air Temperature	88 °F	84 °F	62 °F
Soil Temperature	90 °F at 2 in.	84 °F at 2 in.	65 °F at 4 in.
Relative Humidity	58%	42%	73%
Wind Velocity /Direction	3 mph / E	0-2 mph / N	2-3 mph / NE
Cloud Cover	60%	0%	0%
Soil Moisture at Surface	Dry	Dry	Dry
Harvest Procedures:	<p><u>Forage:</u> Hand clippers were used to cut forage about 1 inch above the soil line from inside rows. Samples were collected by hand.</p> <p><u>Hay:</u> Hand clippers were used to cut hay about 1 inch above the soil line from inside rows. Samples were collected by hand, and laid on the edge of the plot to field dry to a moisture content of about 20%.</p> <p><u>Seed:</u> Hand clippers were used to cut the soybean plants at 1 - 2 inches above ground. Soybean plants from middle rows were hand carried to an Almaco combine for threshing.</p> <p>For all matrices: UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored coolers with blue ice for transport to freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	18 Jul 08	18 Jul 08	18 Jul 08
DALA	n/a	16	16
Growth Stage	R2	R2	R2
Plant Height	10 - 16 inches	10 - 16 inches	10 - 16 inches
Samples Shipped Frozen	7 Aug 08	7 Aug 08	7 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck

TABLE II: TRIAL SC, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ELKO, SOUTH CAROLINA (CONTINUED)

Sample Collection:	Forage		Forage
Treatment Sampled	TRT 4 (MON 11955)		TRT 5 (MON 11955)
Sampling Date	18 Jul 08		18 Jul 08
DALA	7		7
Growth Stage	R2		R2
Plant Height	10 - 16 inches		10 - 16 inches
Samples Shipped Frozen	7 Aug 08		7 Aug 08
Samples Received Frozen	15 Aug 08		15 Aug 08
Shipment Method	ACDS Freezer Truck		ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	25 Jul 08	25 Jul 08	25 Jul 08
DALA (cut)	n/a	23	23
Sampling Date (collected)	31 Jul 08	31 Jul 08	31 Jul 08
Growth Stage	R2 - R3	R2 - R3	R2 - R3
Plant Height	12 - 20 inches	12 - 20 inches	12 - 20 inches
Samples Shipped Frozen	7 Aug 08	7 Aug 08	7 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay		Hay
Treatment Sampled	TRT 4 (MON 11955)		TRT 5 (MON 11955)
Cut Date	25 Jul 08		25 Jul 08
DALA (cut)	14		14
Sampling Date (collected)	31 Jul 08		31 Jul 08
Growth Stage	R2 - R3		R2 - R3
Plant Height	12 - 20 inches		12 - 20 inches
Samples Shipped Frozen	7 Aug 08		7 Aug 08
Samples Received Frozen	15 Aug 08		15 Aug 08
Shipment Method	ACDS Freezer Truck		ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	7 Oct 08	7 Oct 08	7 Oct 08
DALA	n/a	97	97
Growth Stage	Mature, R8	Mature, R8	Mature, R8
Plant Height	16 - 24 inches	16 - 24 inches	16 - 24 inches
Samples Shipped Frozen	6 Nov 08	6 Nov 08	6 Nov 08
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)
Sampling Date	7 Oct 08	7 Oct 08	7 Oct 08
DALA	88	88	13
Growth Stage	Mature, R8	Mature, R8	Mature, R8
Plant Height	16 - 24 inches	16 - 24 inches	16 - 24 inches
Samples Shipped Frozen	6 Nov 08	6 Nov 08	6 Nov 08
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Crop Destruction:	6 Nov 08, all plots and borders were disked under with a John Deere 215 harrow.		

TABLE II: TRIAL SC, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ELKO, SOUTH CAROLINA (CONTINUED)

Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	65.14	66.10	66.03	62.64	51.29
Avg. Max. Air Temp., °F ³	95.62	94.30	93.06	88.59	86.43
Monthly Rainfall, in ³	0.54	5.27	5.75	2.63	0
Irrigation, in ³	1.0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	67.8	70.9	70.8	64.3	53.4
Avg. Max. Air Temp., °F	91.8	93.8	93.8	87.8	80.1
Monthly Rainfall, in	6.01	5.39	4.09	4.41	2.31

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (2 Jun 08) until the last sampling event (7 Oct 08).

Rainfall was recorded from an on-site rain gauge.

Air temperature and historical weather data were recorded from a NOAA weather station located 25 miles from the test site.

FIGURE B: PLOT DIAGRAM FOR TRIAL SC, LOCATED IN ELKO, SOUTH CAROLINA

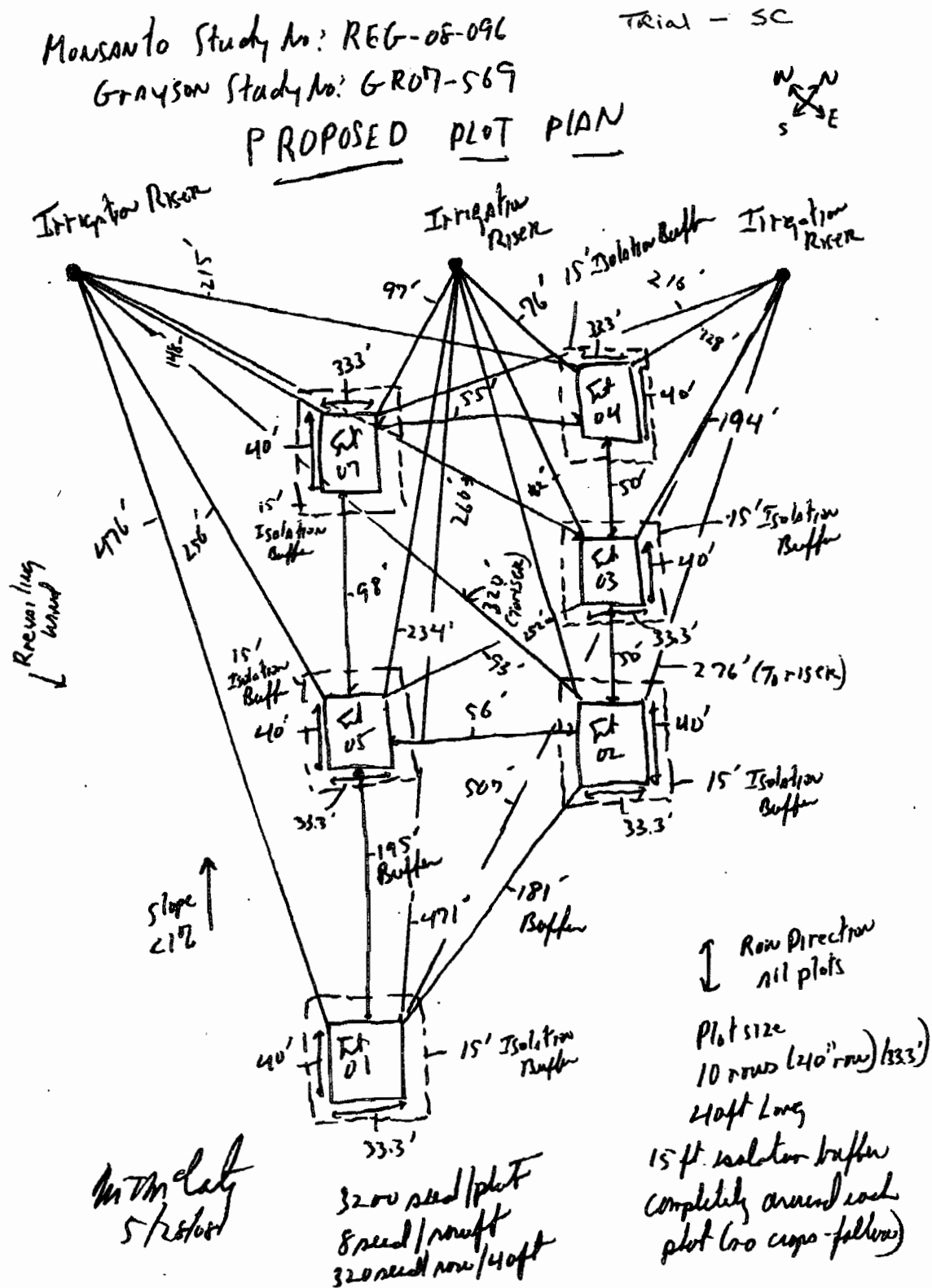


TABLE III: TRIAL LA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WASHINGTON, LOUISIANA

Principal Investigator:	Nelson Prochaska R & D Research Farm, Inc. 7033 Highway 103 Washington, LA 70589 Phone (337) 585-7455 / Email rdfarm@bellsouth.net
Other Personnel:	Shanet Prochaska
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 17 Dec 08.</p> <p>MON 11955: Received 250 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 17 Dec 08.</p> <p>MON 11958: Received 350 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 17 Dec 08.</p>
Chemical Storage Temperature:	69 to 92.5 °F
Site Location:	Washington, St. Landry County, Louisiana (Region 4)
Field History:	<p>22 May 06: Cotton treated with Roundup at 1.5 pt/A;</p> <p>10 Jun 06: Cotton treated with Roundup at 2 pt/A;</p> <p>10 Jun 06: Cotton treated with Mustang Max at 1 pt/A.</p>

TABLE III: TRIAL LA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WASHINGTON, LOUISIANA (CONTINUED)

Field History: continued	6 Jun 07: Cotton treated with Roundup at 2 pt/A; 23 Jun 07: Cotton treated with Roundup at 2 pt/A; 13 Jul 07: Cotton treated with Pix at 8 oz/A; 14 Jul 07: Cotton treated with Roundup at 1.5 pt/A; 14 Jul 07: Cotton treated with Dual at 0.75 pt/A; 14 Jul 07: Cotton treated with Staple at 2 oz/A; 24 Jul 07: Cotton treated with Pix at 8 oz/A; 6 Aug 07: Cotton treated with Pix at 8 oz/A; 3 Oct 07: Cotton treated with Dropp SC at 5 oz/A; 3 Oct 07: Cotton treated with Def 6 at 1 pt/A; 3 Oct 07: Cotton treated with Prep at 2.5 pt/A.	
Target Crop:	Soybeans	
Planting Date:	5 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001843. Equipment was visually inspected after planting. No remaining seed was found. All seed was planted. Empty seed container was buried in the plot on 12 Dec 08.	
Seeding Rate:	137,649 seeds per acre (9.5 seeds/row ft)	
Rows per Plot:	6	
Row Width:	36 inches	
Plot Size:	Trt 1: 56 ft x 18 ft = 1008 ft ² = 0.0231 A Trt 2: 56 ft x 18 ft = 1008 ft ² = 0.0231 A Trt 3: 56 ft x 18 ft = 1008 ft ² = 0.0231 A Trt 4: 56 ft x 18 ft = 1008 ft ² = 0.0231 A Trt 5: 56 ft x 18 ft = 1008 ft ² = 0.0231 A Trt 7: 56 ft x 18 ft = 1008 ft ² = 0.0231 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	80/20 non-ionic surfactant and Ammonium sulfate (AMS) 99.5%	
Application Type:	Foliar spray over top of crop	
Application Equipment:	CO ₂ backpack sprayer with four 8003 Turbo flat fan nozzles by TeeJet, spaced 18 inches apart, with 50 mesh nozzle screens at 18 inches above target (20 psi).	
Soil Type:	Silty Loam	
Plot Maintenance Records:	1 Jul 08: applied Roundup at 2 pt/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	9 Jun 08	24 Jun 08
Application Date	9 Jun 08	24 Jun 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.482 lb ae/A (96% of target)	0.492 lb ae/A (98% of target)
Application Volume	20.1 GPA	21.3 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	83 °F	92 °F
Soil Temperature	85 °F at 2 in.	90 °F at 2 in.
Relative Humidity	80%	60%
Wind Velocity /Direction	1 mph / SW	0 mph / calm
Cloud Cover	50%	25%
Soil Moisture at Surface	Dry	Dry

TABLE III: TRIAL LA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WASHINGTON, LOUISIANA (CONTINUED)

Application Information:	TRT 3 (MON 11958)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	
Calibration Date	9 Jun 08	24 Jun 08	
Application Date	9 Jun 08	24 Jun 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.999 lb ae/A (100% of target)	0.985 lb ae/A (98% of target)	
Application Volume	20.2 GPA	21.3 GPA	
Crop Growth Stage	Pre-emergence	V3 ¹	
Air Temperature	83 °F	92 °F	
Soil Temperature	85 °F at 2 in.	90 °F at 2 in.	
Relative Humidity	80%	60%	
Wind Velocity /Direction	1 mph / SW	0 mph / calm	
Cloud Cover	50%	25%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	9 Jun 08	24 Jun 08	9 Jul 08
Application Date	9 Jun 08	24 Jun 08	9 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.994 lb ae/A (99% of target)	0.492 lb ae/A (98% of target)	0.507 lb ae/A (101% of target)
Application Volume	20.1 GPA	21.3 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1 ²
Air Temperature	83 °F	92 °F	94 °F
Soil Temperature	85 °F at 2 in.	90 °F at 2 in.	99 °F at 2 in.
Relative Humidity	80%	60%	60%
Wind Velocity /Direction	1 mph / SW	0 mph / calm	0 mph / calm
Cloud Cover	50%	25%	10%
Soil Moisture at Surface	Dry	Dry	Dry
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	24 Jun 08	9 Jul 08	
Application Date	24 Jun 08	9 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.984 lb ae/A (98% of target)	1.008 lb ae/A (101% of target)	
Application Volume	21.3 GPA	19.9 GPA	
Crop Growth Stage	V3 ¹	R1 ²	
Air Temperature	92 °F	94 °F	
Soil Temperature	90 °F at 2 in.	99 °F at 2 in.	
Relative Humidity	60%	60%	
Wind Velocity /Direction	0 mph / calm	0 mph / calm	
Cloud Cover	25%	10%	
Soil Moisture at Surface	Dry	Dry	

TABLE III: TRIAL LA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WASHINGTON, LOUISIANA (CONTINUED)

Application Information:		TRT 7 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	9 Jun 08	24 Jun 08	18 Sep 08
Application Date	9 Jun 08	24 Jun 08	18 Sep 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.493 lb ae/A (99% of target)	0.498 lb ae/A (100% of target)	1.029 lb ae/A (103% of target)
Application Volume	20.5 GPA	21.6 GPA	20.3 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	BBCH 85
Air Temperature	83 °F	92 °F	82 °F
Soil Temperature	85 °F at 2 in.	90 °F at 2 in.	80 °F at 2 in.
Relative Humidity	80%	60%	50%
Wind Velocity /Direction	1 mph / SW	0 mph / calm	0 mph / calm
Cloud Cover	50%	25%	10%
Soil Moisture at Surface	Dry	Dry	Moist
Harvest Procedures:	<p><u>Forage:</u> Hand shears were used to cut forage in a zig-zag pattern from interior rows. Samples were collected by hand.</p> <p><u>Hay:</u> Hand shears were used to cut hay in a zig-zag pattern from interior rows. Samples were collected by hand, placed in a mesh bag, and tied to a tee post to field dry to a moisture content of about 15%.</p> <p><u>Seed:</u> A John Deere 55 combine (commercial type harvester) was used to sample seeds from the soybean plants cut 2 - 3 inches above ground from the middle rows.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate coolers with blue ice for transport to freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	16 Jul 08	16 Jul 08	16 Jul 08
DALA	n/a	22	22
Growth Stage	BBCH 67	BBCH 67	BBCH 67
Plant Height	20 inches	20 inches	20 inches
Samples Shipped Frozen	12 Aug 08	12 Aug 08	12 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	16 Jul 08	16 Jul 08	
DALA	7	7	
Growth Stage	BBCH 67	BBCH 67	
Plant Height	20 inches	20 inches	
Samples Shipped Frozen	12 Aug 08	12 Aug 08	
Samples Received Frozen	15 Aug 08	15 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE III: TRIAL LA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WASHINGTON, LOUISIANA (CONTINUED)

Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	23 Jul 08	23 Jul 08	23 Jul 08
DALA (cut)	n/a	29	29
Sampling Date (collected)	29 Jul 08	29 Jul 08	29 Jul 08
Growth Stage	BBCH 67	BBCH 67	BBCH 67
Plant Height	20 inches	20 inches	20 inches
Samples Shipped Frozen	12 Aug 08	12 Aug 08	12 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	23 Jul 08	23 Jul 08	
DALA (cut)	14	14	
Sampling Date (collected)	29 Jul 08	29 Jul 08	
Growth Stage	BBCH 67	BBCH 67	
Plant Height	20 inches	20 inches	
Samples Shipped Frozen	12 Aug 08	12 Aug 08	
Samples Received Frozen	15 Aug 08	15 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	2 Oct 08	2 Oct 08	2 Oct 08
DALA	n/a	100	100
Growth Stage	BBCH 97	BBCH 97	BBCH 97
Plant Height	20 inches	20 inches	20 inches
Samples Shipped Frozen	31 Oct 08	31 Oct 08	31 Oct 08
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)
Sampling Date	2 Oct 08	2 Oct 08	2 Oct 08
DALA	85	85	14
Growth Stage	BBCH 97	BBCH 97	BBCH 97
Plant Height	20 inches	20 inches	20 inches
Samples Shipped Frozen	31 Oct 08	31 Oct 08	31 Oct 08
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Crop Destruction:	5 Oct 08, all plots plowed under with a John Deere 4440 tractor.		

TABLE III: TRIAL LA, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WASHINGTON, LOUISIANA (CONTINUED)

Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	70	72	72	68	53
Avg. Max. Air Temp., °F ³	92	94	90	86	84
Monthly Rainfall, in ³	3.12	1.04	6.14	13.92	0
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	70.2	72.8	72.2	67.8	58.2
Avg. Max. Air Temp., °F	90.8	93.1	93.7	88.8	81.5
Monthly Rainfall, in	6.18	2.97	3.44	5.59	6.02

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (9 Jun 08) until the last sampling event (2 Oct 08).

Rainfall and air temperature data were recorded from weather monitoring equipment located at the test site.

Historical weather data were recorded from a NOAA weather station located 20 miles from the test site.

REG-08-096
SOYBEAN

GLP-12-08

REGULATED
ACREAGE
0.139

ACREAGE
INCLUDING
BORDER
0.734

N 30.61115/W 91.9774

PREVAILING
WIND

PERMANENT MARKER
RISER
6-A

TRT 7

56'

50'

TRT 5

56'

50'

TRT 4

56'

50'

TRT 3

56'

50'

TRT 2

56'

100'

CONTROL

56'

18'

ALL PLOT ARE
18' X 50'

BUFER
15' OUTSIDE
OF EACH PLOT

SLOPE
0.25%

NORTH

TABLE IV: TRIAL AR, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN PROCTOR, ARKANSAS

Principal Investigator:	Don Harlan Mid-South Ag Research, Inc. 2383 Hinkley Road Proctor, AR 72376 Phone (870) 732-2981 / Email msagri@aol.com
Other Personnel:	Ken Savage and Mike Crittenden
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 1000 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 21 Oct 08.</p> <p>MON 11955: Received 500 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 21 Oct 08.</p> <p>MON 11958: Received 400 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 21 Oct 08.</p>
Chemical Storage Temperature:	64 to 82 °F
Site Location:	Proctor, Crittendon County, Arkansas (Region 4)
Field History:	<p>2006: Cotton treated with Roundup at 2.00 lb ai/A; 2006: Cotton treated with Centric at 0.04 lb ai/A; 2006: Cotton treated with Aim at 0.02 lb ai/A; 2006: Cotton treated with Prowl at 1.25 lb ai/A; 2006: Cotton treated with Cotoran at 1.5 lb ai/A.</p> <p>2007: Soybeans treated with Glyphosate at 2.0 lb ai/A; 2007: Soybeans treated with Karate Z at 0.03 lb ai/A; 2007: Soybeans treated with Mustang Max at 0.03 lb ai/A.</p>
Target Crop:	Soybeans
Planting Date:	22 May 08, dicamba-tolerant MON 87708 soybean seed, Source 10001844. Equipment was cleaned with compressed air after planting. All seed was planted in the plots. Empty seed container was burned on 21 Oct 08.

TABLE IV: TRIAL AR, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN PROCTOR, ARKANSAS (CONTINUED)

Seeding Rate:	130,680 seeds per acre (9.0 seeds/row ft)	
Rows per Plot:	8	
Row Width:	36 inches	
Plot Size:	Trt 1: 50 ft x 24 ft = 1200 ft ² = 0.0275 A Trt 2: 50 ft x 24 ft = 1200 ft ² = 0.0275 A Trt 3: 50 ft x 24 ft = 1200 ft ² = 0.0275 A Trt 4: 50 ft x 24 ft = 1200 ft ² = 0.0275 A Trt 5: 50 ft x 24 ft = 1200 ft ² = 0.0275 A Trt 6: 50 ft x 24 ft = 1200 ft ² = 0.0275 A Trt 7: 50 ft x 24 ft = 1200 ft ² = 0.0275 A There was a >15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	DyneAmic non-ionic surfactant and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	CO ₂ 4-Row backpack sprayer with eight 9506 nozzles by TeeJet, spaced 18 inches apart, with 50 mesh nozzle screens at 18 inches above target (20 psi).	
Soil Type:	Silty Loam	
Plot Maintenance Records:	4 May 08: rows bedded up 21 May 08: field harrowed. 18 Jun 08: applied Ultra Blazer at 0.25 lb ai/A and Basagran at 0.5 lb ai/A. 7 Aug 08: applied Ultra Blazer at 0.25 lb ai/A and Basagran at 0.5 lb ai/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	22 May 08	25 Jun 08
Application Date	22 May 08	25 Jun 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.501 lb ae/A (100% of target)	0.499 lb ae/A (100% of target)
Application Volume	20.2 GPA	20.3 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	73 °F	73 °F
Soil Temperature	70 °F at 2 in.	76 °F at 2 in.
Relative Humidity	55%	80%
Wind Velocity /Direction	2-4 mph / SW	2 mph / SW
Cloud Cover	80%	20%
Soil Moisture at Surface	Dry	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	22 May 08	25 Jun 08
Application Date	22 May 08	25 Jun 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.001 lb ae/A (100% of target)	1.000 lb ae/A (100% of target)
Application Volume	20.2 GPA	20.3 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	73 °F	73 °F
Soil Temperature	70 °F at 2 in.	76 °F at 2 in.
Relative Humidity	55%	80%
Wind Velocity /Direction	2-4 mph / SW	2 mph / SW
Cloud Cover	80%	20%
Soil Moisture at Surface	Dry	Dry

TABLE IV: TRIAL AR, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN PROCTOR, ARKANSAS (CONTINUED)

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	22 May 08	25 Jun 08	3 Jul 08
Application Date	22 May 08	25 Jun 08	3 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.001 lb ae/A (100% of target)	0.499 lb ae/A (100% of target)	0.500 lb ae/A (100% of target)
Application Volume	20.2 GPA	20.3 GPA	20.3 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1 ²
Air Temperature	73 °F	73 °F	84 °F
Soil Temperature	70 °F at 2 in.	76 °F at 2 in.	84 °F at 2 in.
Relative Humidity	55%	80%	47%
Wind Velocity /Direction	2-4 mph / SW	2 mph / SW	3 mph / SW
Cloud Cover	80%	20%	40%
Soil Moisture at Surface	Dry	Dry	Dry
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	25 Jun 08	3 Jul 08	
Application Date	25 Jun 08	3 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.999 lb ae/A (100% of target)	0.998 lb ae/A (100% of target)	
Application Volume	20.3 GPA	20.3 GPA	
Crop Growth Stage	V3 ¹	R1 ²	
Air Temperature	73 °F	84 °F	
Soil Temperature	76 °F at 2 in.	84 °F at 2 in.	
Relative Humidity	80%	47%	
Wind Velocity /Direction	2 mph / SW	3 mph / SW	
Cloud Cover	20%	40%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 6 (MON 54140)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	25 Jun 08	3 Jul 08	
Application Date	25 Jun 08	3 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.001 lb ae/A (100% of target)	0.999 lb ae/A (100% of target)	
Application Volume	20.3 GPA	20.3 GPA	
Crop Growth Stage	V3 ¹	R1 ²	
Air Temperature	73 °F	84 °F	
Soil Temperature	76 °F at 2 in.	84 °F at 2 in.	
Relative Humidity	80%	47%	
Wind Velocity /Direction	2 mph / SW	3 mph / SW	
Cloud Cover	20%	40%	
Soil Moisture at Surface	Dry	Dry	

TABLE IV: TRIAL AR, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN PROCTOR, ARKANSAS (CONTINUED)

Application Information:		TRT 7 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	22 May 08	25 Jun 08	16 Sep 08
Application Date	22 May 08	25 Jun 08	16 Sep 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.501 lb ae/A (100% of target)	0.500 lb ae/A (100% of target)	1.003 lb ae/A (100% of target)
Application Volume	20.2 GPA	20.3 GPA	20.4 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R8
Air Temperature	73 °F	73 °F	53 °F
Soil Temperature	70 °F at 2 in.	76 °F at 2 in.	68 °F at 2 in.
Relative Humidity	55%	80%	91%
Wind Velocity /Direction	2-4 mph / SW	2 mph / SW	3 mph / N
Cloud Cover	80%	20%	25%
Soil Moisture at Surface	Dry	Dry	Dry
Harvest Procedures:	<u>Forage:</u> Rose clippers were used to cut forage from the middle rows just above the ground. Samples were collected by hand. <u>Hay:</u> Rose clippers were used to cut hay from the middle rows just above the ground. Samples were collected by hand, placed on labeled separate hay racks per treatment to dry for 24 hours. <u>Seed:</u> Soybeans from the middle rows were cut just above the ground and a Kincaid Thresher was used to sample seeds. <u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed directly into storage freezer.		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	10 Jul 08	10 Jul 08	10 Jul 08
DALA	n/a	15	15
Growth Stage	R2	R2	R2
Plant Height	12 - 14 inches	12 - 14 inches	12 - 14 inches
Samples Shipped Frozen	17 Jul 08	17 Jul 08	17 Jul 08
Samples Received Frozen	21 Jul 08	21 Jul 08	21 Jul 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Sampling Date	10 Jul 08	10 Jul 08	10 Jul 08
DALA	7	7	7
Growth Stage	R2	R2	R2
Plant Height	12 - 14 inches	12 - 14 inches	12 - 14 inches
Samples Shipped Frozen	17 Jul 08	17 Jul 08	17 Jul 08
Samples Received Frozen	21 Jul 08	21 Jul 08	21 Jul 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck

TABLE IV: TRIAL AR, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN PROCTOR, ARKANSAS (CONTINUED)

Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	17 Jul 08	17 Jul 08	17 Jul 08
DALA (cut)	n/a	22	22
Sampling Date (collected)	R3	R3	R3
Growth Stage	18 - 20 inches	18 - 20 inches	18 - 20 inches
Plant Height	20 inches	20 inches	20 inches
Samples Shipped Frozen	13 Aug 08	13 Aug 08	13 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Cut Date	17 Jul 08	17 Jul 08	17 Jul 08
DALA (cut)	14	14	14
Sampling Date (collected)	18 Jul 08	18 Jul 08	18 Jul 08
Growth Stage	R3	R3	R3
Plant Height	18 - 20 inches	18 - 20 inches	18 - 20 inches
Samples Shipped Frozen	13 Aug 08	13 Aug 08	13 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	30 Sep 08	30 Sep 08	30 Sep 08
DALA	n/a	97	97
Growth Stage	BBCH 89, Mature	BBCH 89, Mature	BBCH 89, Mature
Plant Height	28 inch	28 inch	28 inch
Samples Shipped Frozen	10 Oct 08	10 Oct 08	10 Oct 08
Samples Received Frozen	10 Oct 08	10 Oct 08	10 Oct 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Sampling Date	30 Sep 08	30 Sep 08	30 Sep 08
DALA	89	89	89
Growth Stage	BBCH 89, Mature	BBCH 89, Mature	BBCH 89, Mature
Plant Height	28 inch	28 inch	28 inch
Samples Shipped Frozen	10 Oct 08	10 Oct 08	10 Oct 08
Samples Received Frozen	10 Oct 08	10 Oct 08	10 Oct 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed		
Treatment Sampled	TRT 7 (MON 54140)		
Sampling Date	30 Sep 08		
DALA	14		
Growth Stage	BBCH 89, Mature		
Plant Height	28 inch		
Samples Shipped Frozen	10 Oct 08		
Samples Received Frozen	10 Oct 08		
Shipment Method	ACDS Freezer Truck		
Crop Destruction:	1 Oct 08, all plots were double disked.		

TABLE IV: TRIAL AR, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN PROCTOR, ARKANSAS (CONTINUED)

Actual Climatic Conditions:	May	June	July	August	September
Avg. Min. Air Temp., °F ³	65.1	70	72	69	63
Avg. Max. Air Temp., °F ³	87.4	92	94	89	83
Monthly Rainfall, in ³	2.04	1.52	3.68	2.67	2.48
Irrigation, in ³	0	0	2.0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	63	71	74	74	66
Avg. Max. Air Temp., °F	82	89	91	93	86
Monthly Rainfall, in	4.6	2.3	5.0	2.9	2.9

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (22 May 08) until the last sampling event (30 Sep 08).

Rainfall and air temperature were recorded from weather monitoring equipment located 0.25 miles from the test site.

Historical weather data were recorded from a NOAA weather station located 10 miles from the test site.

Hand-drawn site plan of a school campus with buildings 1 through 7. Building 1 is a large rectangle (24' x 50') with a north arrow pointing up and slightly right. Building 2 is a rectangle (24' x 50') to the right of Building 1. Building 3 is a rectangle (24' x 50') below Building 1. Building 4 is a rectangle (24' x 50') to the right of Building 3. Building 5 is a rectangle (24' x 50') to the right of Building 4. Building 6 is a rectangle (24' x 50') to the right of Building 5. Building 7 is a rectangle (24' x 50') to the right of Building 6. A north arrow is at the top right. Dimensions are given for buildings and distances between them. A note 'WIND ↑ SLOPE 0-0.1%' is written near the north arrow. A note 'ROWS' is written near the north arrow. A note 'RISER 3' is written near Building 2. A note 'N 35.08249 W 90.25391' is written near Building 2.

TABLE V: TRIAL MO, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FISK, MISSOURI

Principal Investigator:	Nathan Goldschmidt Shoffner Farm Research, Inc. 4809 Hwy FF Fisk, MO 63940 Phone (573) 967-2100 / Email nvg@shoffneragresearch.com
Other Personnel:	Bryan Schmid
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 24 Nov 08.</p> <p>MON 11955: Received 250 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 24 Nov 08.</p> <p>MON 11958: Received 350 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 24 Nov 08.</p>
Chemical Storage Temperature:	67 to 87 °F
Site Location:	Fisk, Butler County, Missouri (Region 4)
Field History:	<p>14 Jun 06: Soybeans treated with Roundup Ultra at 26 oz/A.</p> <p>12 Jun 07: Soybeans treated with Roundup WeatherMax at 22 oz/A; 12 Jun 07: Soybeans treated with Resource at 12 oz/A; 21 Aug 07: Soybeans treated with Quadris at 9 oz/A; 21 Aug 07: Soybeans treated with Karate Z at 1.83 oz/A.</p>
Target Crop:	Soybeans
Planting Date:	29 May 08, dicamba-tolerant MON 87708 soybean seed, Source 10001843. Equipment was cleaned with compressed air and visually inspected after planting. Remaining seed was burned and buried in the plot on 15 Jun 08. Empty seed container was incinerated on 26 Nov 08.

**TABLE V: TRIAL MO, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FISK, MISSOURI
(CONTINUED)**

Seeding Rate:	125,000 seeds per acre (35.5 lbs/A)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Top Surf non-ionic surfactant 80% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	WS-5 CO ₂ backpack sprayer with six 11002 flat fan nozzles by Greenleaf AirMix, spaced 20 inches apart, with 50 mesh nozzle screens at 18 inches above target (20-28 psi).	
Soil Type:	Amagon Silt Loam	
Plot Maintenance Records:	21 Apr 08: Disked plots. 22 Apr 08: Disked plots. 23 Apr 08: Landplaned plots. 24 Apr 08: Bedded plots. 25 Apr 08: Re-bedded plots. 2 Jun 08: applied Roundup Power Max at 22 oz/A. 5 Jul 08: applied Roundup Power Max at 22 oz/A, Flexstar at 12 oz/A, and Basagran at 32 oz/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	31 May 08	24 Jun 08
Application Date	31 May 08	24 Jun 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.502 lb ae/A (100% of target)	0.498 lb ae/A (100% of target)
Application Volume	20.1 GPA	19.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	75 °F	73 °F
Soil Temperature	73.4 °F at 2 in.	77 °F at 2 in.
Relative Humidity	95%	78%
Wind Velocity /Direction	2.5 mph / WSW	0-1 mph / W
Cloud Cover	0%	10%
Soil Moisture at Surface	Dry	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	31 May 08	24 Jun 08
Application Date	31 May 08	24 Jun 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.010 lb ae/A (101% of target)	0.996 lb ae/A (100% of target)
Application Volume	20.2 GPA	19.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	75 °F	73 °F
Soil Temperature	73.4 °F at 2 in.	77 °F at 2 in.
Relative Humidity	95%	78%
Wind Velocity /Direction	3 mph / WSW	0-1 mph / W
Cloud Cover	0%	10%
Soil Moisture at Surface	Dry	Dry

**TABLE V: TRIAL MO, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FISK, MISSOURI
(CONTINUED)**

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	31 May 08	24 Jun 08	11 Jul 08
Application Date	31 May 08	24 Jun 08	11 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.995 lb ae/A (100% of target)	0.504 lb ae/A (101% of target)	0.506 lb ae/A (101% of target)
Application Volume	19.9 GPA	20.2 GPA	20.2 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1/R2 ²
Air Temperature	76 °F	73 °F	75 °F
Soil Temperature	73.4 °F at 2 in.	77 °F at 2 in.	77 °F at 2 in.
Relative Humidity	90%	78%	97%
Wind Velocity /Direction	3 mph / WSW	0-1 mph / W	0-1 mph / S
Cloud Cover	0%	10%	85%
Soil Moisture at Surface	Dry	Dry	Moist
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	24 Jun 08	11 Jul 08	
Application Date	24 Jun 08	11 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.993 lb ae/A (99% of target)	1.005 lb ae/A (101% of target)	
Application Volume	19.9 GPA	20.1 GPA	
Crop Growth Stage	V3 ¹	R1/R2 ²	
Air Temperature	73 °F	75 °F	
Soil Temperature	77 °F at 2 in.	77 °F at 2 in.	
Relative Humidity	78%	97%	
Wind Velocity /Direction	0-1 mph / W	0-1 mph / S	
Cloud Cover	10%	85%	
Soil Moisture at Surface	Dry	Moist	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	31 May 08	24 Jun 08	16 Sep 08
Application Date	31 May 08	24 Jun 08	16 Sep 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.503 lb ae/A (101% of target)	0.502 lb ae/A (100% of target)	1.008 lb ae/A (101% of target)
Application Volume	20.1 GPA	20.1 GPA	20.2 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	75% leaf drop
Air Temperature	75 °F	73 °F	58 °F
Soil Temperature	73.4 °F at 2 in.	77 °F at 2 in.	64 °F at 2 in.
Relative Humidity	95%	78%	88%
Wind Velocity /Direction	2.5 mph / WSW	0-1 mph / W	2-3 mph / N
Cloud Cover	0%	10%	0%
Soil Moisture at Surface	Dry	Dry	Moist

**TABLE V: TRIAL MO, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FISK, MISSOURI
(CONTINUED)**

Harvest Procedures:	<p><u>Forage:</u> Hand sickles were used to cut forage from the middle rows, avoiding borders. Samples were collected by hand.</p> <p><u>Hay:</u> Hand sickles were used to cut hay from the middle rows, avoiding borders. Samples were collected by hand into mesh bags, hung from a tee post, and allowed to air dry to a moisture content of 10 - 20%.</p> <p><u>Seed:</u> Soybean plants were cut 2 inches above the soil surface with hand sickles from the middle rows and a stationary plot thresher was used to sample seeds.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored coolers with blue ice for transport to freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	18 Jul 08	18 Jul 08	18 Jul 08
DALA	n/a	24	24
Growth Stage	Late R2 / Early R3	Late R2 / Early R3	Late R2 / Early R3
Plant Height	14 - 18 inches	14 - 18 inches	14 - 18 inches
Samples Shipped Frozen	14 Aug 08	14 Aug 08	14 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	18 Jul 08	18 Jul 08	
DALA	7	7	
Growth Stage	Late R2 / Early R3	Late R2 / Early R3	
Plant Height	14 - 18 inches	14 - 18 inches	
Samples Shipped Frozen	14 Aug 08	14 Aug 08	
Samples Received Frozen	15 Aug 08	15 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	26 Jul 08	26 Jul 08	26 Jul 08
DALA (cut)	n/a	32	32
Sampling Date (collected)	30 Jul 08	30 Jul 08	30 Jul 08
Growth Stage	R3 (BBCH 69-71)	R3 (BBCH 69-71)	R3 (BBCH 69-71)
Plant Height	20 24 inches	20 24 inches	20 24 inches
Samples Shipped Frozen	14 Aug 08	14 Aug 08	14 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	26 Jul 08	26 Jul 08	
DALA (cut)	15	15	
Sampling Date (collected)	30 Jul 08	30 Jul 08	
Growth Stage	R3 (BBCH 69-71)	R3 (BBCH 69-71)	
Plant Height	20 24 inches	20 24 inches	
Samples Shipped Frozen	14 Aug 08	14 Aug 08	
Samples Received Frozen	15 Aug 08	15 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

**TABLE V: TRIAL MO, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FISK, MISSOURI
(CONTINUED)**

Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)		
Sampling Date	30 Sep 08	30 Sep 08	30 Sep 08		
DALA	n/a	98	98		
Growth Stage	Mature, BBCH 99	Mature, BBCH 99	Mature, BBCH 99		
Plant Height	26 - 30 inches	26 - 30 inches	26 - 30 inches		
Samples Shipped Frozen	27 Oct 08	27 Oct 08	27 Oct 08		
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)		
Sampling Date	30 Sep 08	30 Sep 08	30 Sep 08		
DALA	81	81	14		
Growth Stage	Mature, BBCH 99	Mature, BBCH 99	Mature, BBCH 99		
Plant Height	26 - 30 inches	26 - 30 inches	26 - 30 inches		
Samples Shipped Frozen	27 Oct 08	27 Oct 08	27 Oct 08		
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Crop Destruction:	22 Oct 08, all plants were buried in the soil by tilling.				
Actual Climatic Conditions:	May	June	July	August	September
Avg. Min. Air Temp., °F ³	74	73	76	74	68
Avg. Max. Air Temp., °F ³	87	88	91	90	85
Monthly Rainfall, in ³	0	0.95	3.12	2.73	6.38
Irrigation, in ³	0	1.5	1.5	4.5	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	57	65	69	69	59
Avg. Max. Air Temp., °F	80	87	90	90	83
Monthly Rainfall, in	5.49	3.93	4.78	3.60	2.25

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliolate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (31 May 08) until the last sampling event (30 Sep 08).

Rainfall and air temperature data were recorded from on-site weather monitoring equipment.
Historical weather data were recorded from a NOAA weather station located 13 miles from the test site.

FIGURE E: PLOT DIAGRAM FOR TRIAL MO, LOCATED IN FISK, MISSOURI

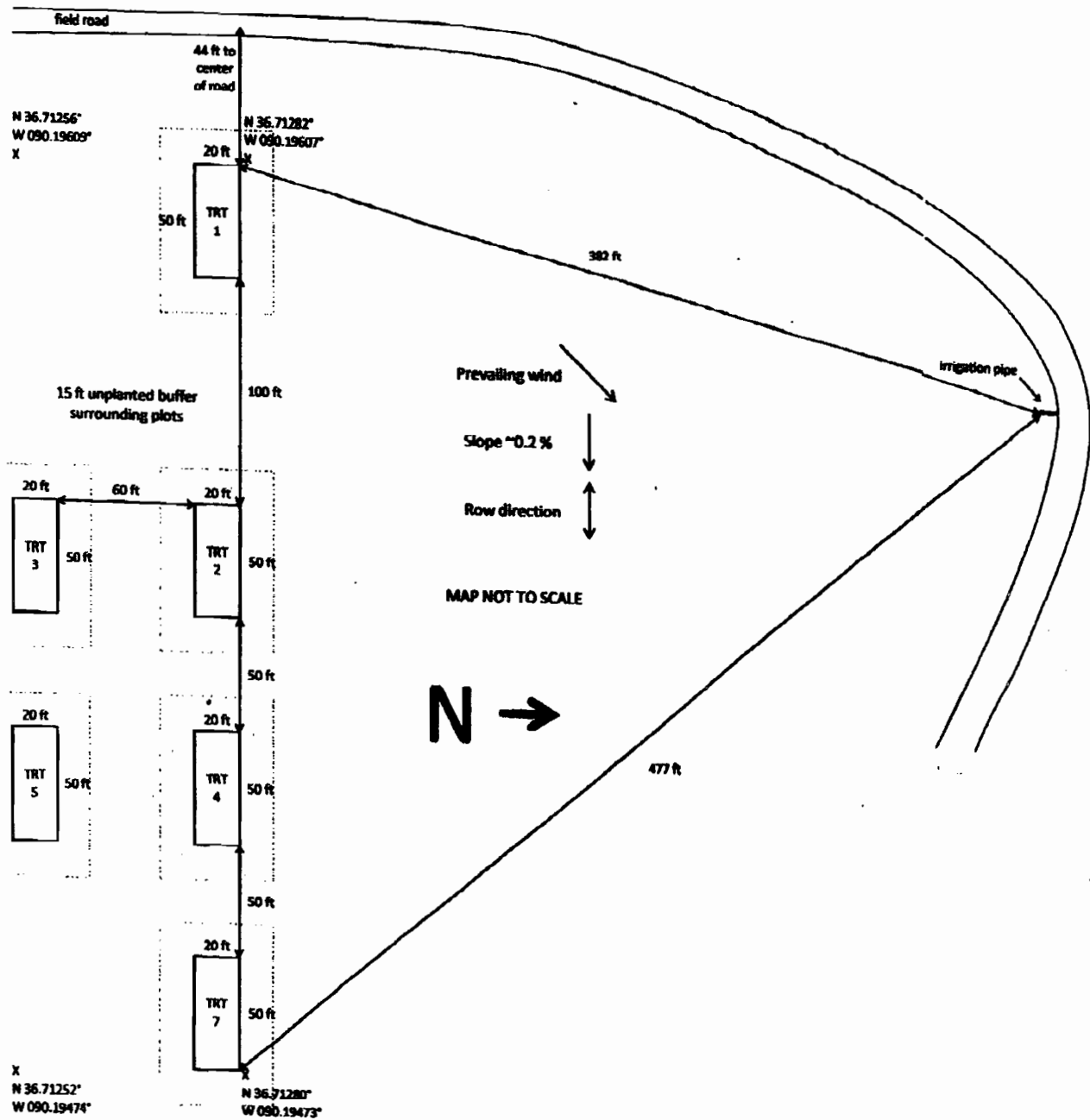


TABLE VI: TRIAL IL-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WYOMING, ILLINOIS

Principal Investigator:	Justin Pollard Alvey Agricultural Research RR 2 Box 12 Wyoming, IL 61491 Phone (309) 695-3004 /Email justin.pollard@alveyagriculturalresearch.com
Other Personnel:	Sue Dorsey, Megan Appenheimer, Kevin Rothzen, and Bryce Hemphill
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 27 Oct 08.</p> <p>MON 11955: Received 250 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 27 Oct 08.</p> <p>MON 11958: Received 350 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 27 Oct 08.</p>
Chemical Storage Temperature:	58 to 80 °F
Site Location:	Wyoming, Stark County, Illinois (Region 5)
Field History:	<p>9 May 06: Soybeans treated with Touchdown Total at 0.55 ai/A; 9 May 06: Soybeans treated with 2,4-D at 0.16 lb ai/A; 14 Jun 06: Soybeans treated with Touchdown Total at 1.17 lb ai/A.</p> <p>21 Apr 07: Corn treated with Force 3G at 0.132 lb ai/A; 24 Apr 07: Corn treated with S-metolachlor at 1.52 lb ai/A; 24 Apr 07: Corn treated with Atrazine at 1.52 lb ai/A; 24 Apr 07: Corn treated with Mesotrione at 0.196 lb ai/A.</p>
Target Crop:	Soybeans
Planting Date:	29 May 08, dicamba-tolerant MON 87708 soybean seed, Source 10001820. Equipment (soybean meters) was removed, disassembled, and cleaned by hand and visually inspected after planting. Remaining seed was buried in the UTC plot on 20 Jun 08. Empty seed container was incinerated on 10 Nov 08.

TABLE VI: TRIAL IL-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WYOMING, ILLINOIS (CONTINUED)

Seeding Rate:	125,000 seeds per acre	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Aquagene 90 non-ionic surfactant 90% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	Pre-emergence, V3 and R1/R2 app:CO ₂ backpack sprayer with six XR 8004 nozzles by TeeJet, spaced 20 inches apart, with 50 mesh nozzle screens at 18 inches above target (16-18 psi). 14-day PHI app:Tractor mounted side boom (#2) and 3 gallon can (#2) with six XR 8003 nozzles by TeeJet, spaced 20 inches apart, with 50 mesh nozzle screens at 18 inches above target (40 psi).	
Soil Type:	Plano Silt Loam	
Plot Maintenance Records:	6 May 08: field was cultivated. 29 May 08: applied Boundary at 1.5 pt/A and the field was rototilled. 1 Jul 08: applied Touchdown Total at 22 fl oz/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	1 Jun 08	23 Jun 08
Application Date	1 Jun 08	23 Jun 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.483 lb ae/A (97% of target)	0.481 lb ae/A (96% of target)
Application Volume	19.6 GPA	19.3 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	85.1 °F	74 °F
Soil Temperature	75 °F at 2 in.	75 °F at 2 in.
Relative Humidity	38.0%	52%
Wind Velocity /Direction	0 mph / calm	3 mph / NW
Cloud Cover	0%	5%
Soil Moisture at Surface	Dry	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	1 Jun 08	23 Jun 08
Application Date	1 Jun 08	23 Jun 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.049 lb ae/A (105% of target)	1.019 lb ae/A (102% of target)
Application Volume	21.2 GPA	20.5 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	85.1 °F	74 °F
Soil Temperature	75 °F at 2 in.	75 °F at 2 in.
Relative Humidity	38.0%	52%
Wind Velocity /Direction	0 mph / calm	3 mph / NW
Cloud Cover	0%	5%
Soil Moisture at Surface	Dry	Dry

TABLE VI: TRIAL IL-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WYOMING, ILLINOIS (CONTINUED)

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	1 Jun 08	23 Jun 08	14 Jul 08
Application Date	1 Jun 08	23 Jun 08	14 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.004 lb ae/A (100% of target)	0.501 lb ae/A (100% of target)	0.499 lb ae/A (100% of target)
Application Volume	20.3 GPA	20.1 GPA	19.7 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1/R2 ²
Air Temperature	85.1 °F	74 °F	77 °F
Soil Temperature	75 °F at 2 in.	75 °F at 2 in.	72 °F at 2 in.
Relative Humidity	38.0%	52%	68%
Wind Velocity /Direction	0 mph / calm	3 mph / NW	2 mph / W
Cloud Cover	0%	5%	2%
Soil Moisture at Surface	Dry	Dry	Dry
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	23 Jun 08	14 Jul 08	
Application Date	23 Jun 08	14 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.993 lb ae/A (99% of target)	1.016 lb ae/A (102% of target)	
Application Volume	19.9 GPA	20.1 GPA	
Crop Growth Stage	V3 ¹	R1/R2 ²	
Air Temperature	74 °F	77 °F	
Soil Temperature	75 °F at 2 in.	72 °F at 2 in.	
Relative Humidity	52%	68%	
Wind Velocity /Direction	3 mph / NW	2 mph / W	
Cloud Cover	5%	2%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	1 Jun 08	23 Jun 08	2 Oct 08
Application Date	1 Jun 08	23 Jun 08	2 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.500 lb ae/A (100% of target)	0.512 lb ae/A (102% of target)	1.004 lb ae/A (100% of target)
Application Volume	20.2 GPA	20.6 GPA	20.3 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	Late R7 to early R8
Air Temperature	85.1 °F	74 °F	52 °F
Soil Temperature	75 °F at 2 in.	75 °F at 2 in.	52 °F at 2 in.
Relative Humidity	38.0%	52%	77%
Wind Velocity /Direction	0 mph / calm	3 mph / NW	4 mph / W
Cloud Cover	0%	5%	5%
Soil Moisture at Surface	Dry	Dry	Dry

TABLE VI: TRIAL IL-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WYOMING, ILLINOIS (CONTINUED)

Harvest Procedures:	<p><u>Forage:</u> Hand pruners were used to cut forage avoiding plot ends. Samples were collected by hand.</p> <p><u>Hay:</u> Hand pruners were used to cut hay avoiding plot borders. Samples were collected by hand, placed in mesh bags to dry at the plots edge to a moisture content of about 10 - 20%.</p> <p><u>Seed:</u> Soybean plants were harvested using a SPC20 Almaco thresher from the middle rows.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate freezers immediately after sampling.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	21 Jul 08	21 Jul 08	21 Jul 08
DALA	n/a	28	28
Growth Stage	7 days after R1/R2	7 days after R1/R2	7 days after R1/R2
Plant Height	26 inches	26 inches	26 inches
Samples Shipped Frozen	26 Aug 08	26 Aug 08	26 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	21 Jul 08	21 Jul 08	
DALA	7	7	
Growth Stage	7 days after R1/R2	7 days after R1/R2	
Plant Height	26 inches	26 inches	
Samples Shipped Frozen	26 Aug 08	26 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	28 Jul 08	28 Jul 08	28 Jul 08
DALA (cut)	n/a	35	35
Sampling Date (collected)	4 Aug 08	4 Aug 08	4 Aug 08
Growth Stage	14 days after R1/R2	14 days after R1/R2	14 days after R1/R2
Plant Height	30 inches	30 inches	30 inches
Samples Shipped Frozen	26 Aug 08	26 Aug 08	26 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	28 Jul 08	28 Jul 08	
DALA (cut)	14	14	
Sampling Date (collected)	4 Aug 08	4 Aug 08	
Growth Stage	14 days after R1/R2	14 days after R1/R2	
Plant Height	30 inches	30 inches	
Samples Shipped Frozen	26 Aug 08	26 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE VI: TRIAL IL-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN WYOMING, ILLINOIS (CONTINUED)

Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)		
Sampling Date	17 Oct 08	17 Oct 08	17 Oct 08		
DALA	n/a	116	116		
Growth Stage	R8	R8	R8		
Plant Height	40 inches	40 inches	40 inches		
Samples Shipped Frozen	24 Oct 08	24 Oct 08	24 Oct 08		
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)		
Sampling Date	17 Oct 08	17 Oct 08	17 Oct 08		
DALA	95	95	15		
Growth Stage	R8	R8	R8		
Plant Height	40 inches	40 inches	40 inches		
Samples Shipped Frozen	24 Oct 08	24 Oct 08	24 Oct 08		
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Crop Destruction:	30 Oct 08, all plots were disked and the seed buried in the soil.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	59.32	59.84	55.75	52.38	42.83
Avg. Max. Air Temp., °F ³	82.13	83.78	82.15	76.66	69.46
Monthly Rainfall, in ³	3.16	5.12	1.71	9.79	0.76
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	61.4	66.2	64.8	55.7	44.4
Avg. Max. Air Temp., °F	81.4	86.0	84.1	78.6	65.0
Monthly Rainfall, in	3.33	2.84	3.46	2.10	2.47

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (1 Jun 08) until the last sampling event (17 Oct 08).

Rainfall and air temperature data were recorded from weather monitoring equipment located <0.5 miles from the test site.

Historical weather data were recorded from a NOAA weather station located 30 miles from the test site.

FIGURE F: PLOT DIAGRAM FOR TRIAL IL-1, LOCATED IN WYOMING, ILLINOIS

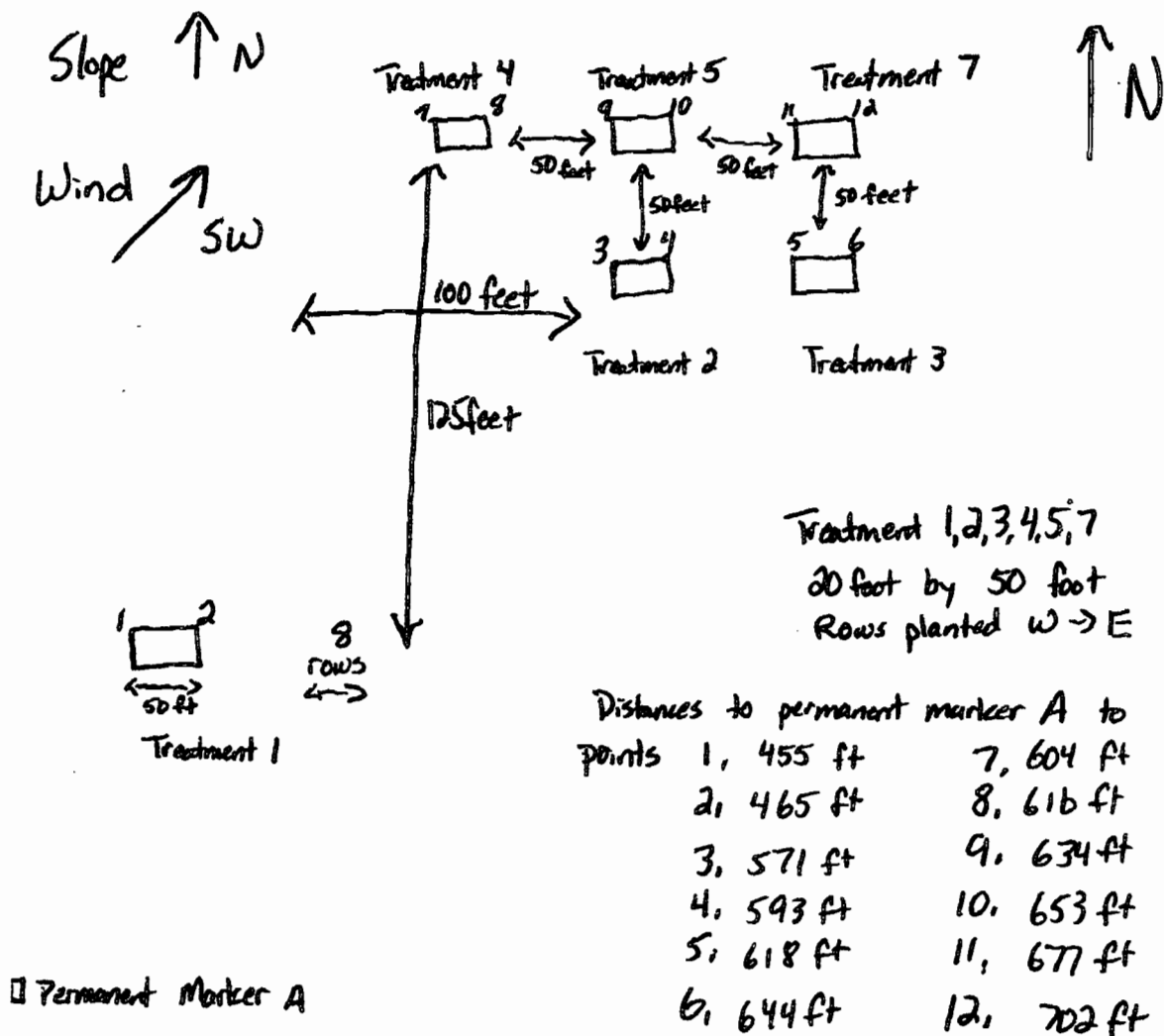


TABLE VII: TRIAL IL-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CARLYLE, ILLINOIS

Principal Investigator:	Tim Boeker Alvey Agricultural Research 19300 Marydale Road Carlyle, IL 62231 Phone (618) 594-7645 / Email tim.boeker@alveyagriculturalresearch.com
Other Personnel:	Tom Fromme, Rick Bergmann, Mark A. Waddington, and Debbie Fuhler
Test Substance Identification:	<p>Test Substance 1 Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p>Test Substance 2 Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p>Test Substance 3 Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 1000 mL of test substance on 5 May 08. Test substance retained as maintenance product.</p> <p>MON 11955: Received 500 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 6 Jan 09.</p> <p>MON 11958: Received 400 mL of test substance on 5 May 08. Excess test substance was returned to the sponsor on 6 Jan 09.</p>
Chemical Storage Temperature:	45 to 81 °F
Site Location:	Carlyle, Clinton County, Illinois (Region 5)
Field History:	<p>24 May 06: Soybeans treated with Boundary at 1.5 pt/A; 24 May 06: Soybeans treated with Prowl at 1.06 pt/A; 24 May 06: Soybeans treated with Command at 1.33 pt/A; 5 Jun 06: Soybeans treated with Glyphosate at 3 pts/A; 27 Jun 06: Soybeans treated with Flexstar at 1.25 pts/A; 27 Jun 06: Soybeans treated with Fusion at 12 oz/A.</p> <p>23 May 07: Grain sorghum treated with Bicep II Magnum at 2.2 qts/A.</p>
Target Crop:	Soybeans
Planting Date:	19 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001820. Equipment (boxes) was removed, excess seed collected, and visually inspected after planting. Remaining seed was buried in plot on 19 Jun 08. Empty seed container was incinerated on 18 Dec 08.

TABLE VII: TRIAL IL-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CARLYLE, ILLINOIS (CONTINUED)

Seeding Rate:	~140,000 seeds per acre	
Rows per Plot:	4	
Row Width:	30 inches	
Plot Size:	Trt 1: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 2: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 3: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 4: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 5: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 6: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 7: 100 ft x 10 ft = 1000 ft ² = 0.0230 A There was a >15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Tradition 93 non-ionic surfactant 93% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	Tractor mounted side boom with CO ₂ propellant and 3 gallon can, with six 8003 or 11003 VS flat fan nozzles by TeeJet, spaced 30 inches apart, with 50 mesh nozzle screens at 19 inches above target (14-16 psi).	
Soil Type:	Cisne-Huey Complex	
Plot Maintenance Records:	6 May 08: field disked. 10 Jun 08: applied 0-0-60 fertilizer at 200 lb/A. 13 Jun 08: field cultivated. 16 Jun 08: applied Gramoxone at 1 pt/A, Authority First at 4 oz/A, and Boundary at 2 pt/A, and cultimulched plots. 14 Jul 08: hand weeded plots. 29 Jul 08: hand weeded plots.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	20 Jun 08	14 Jul 08
Application Date	20 Jun 08	14 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.503 lb ae/A (101% of target)	0.511 lb ae/A (102% of target)
Application Volume	19.9 GPA	21.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	82 °F	88 °F
Soil Temperature	84 °F at 2 in.	77.4 °F at 2 in.
Relative Humidity	65%	33%
Wind Velocity /Direction	2.5 mph / SSE	2 mph / W
Cloud Cover	10%	5%
Soil Moisture at Surface	Dry	Moist

TABLE VII: TRIAL IL-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CARLYLE, ILLINOIS (CONTINUED)

Application Information:	TRT 3 (MON 11958)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	
Calibration Date	20 Jun 08	14 Jul 08	
Application Date	20 Jun 08	14 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.002 lb ae/A (100% of target)	1.006 lb ae/A (101% of target)	
Application Volume	19.8 GPA	20.6 GPA	
Crop Growth Stage	Pre-emergence	V3 ¹	
Air Temperature	82 °F	88 °F	
Soil Temperature	84 °F at 2 in.	77.4 °F at 2 in.	
Relative Humidity	65%	33%	
Wind Velocity /Direction	2.5 mph / SSE	2 mph / W	
Cloud Cover	10%	5%	
Soil Moisture at Surface	Dry	Moist	
Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	20 Jun 08	14 Jul 08	28 Jul 08
Application Date	20 Jun 08	14 Jul 08	28 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.025 lb ae/A (102% of target)	0.510 lb ae/A (102% of target)	0.500 lb ae/A (100% of target)
Application Volume	20.3 GPA	20.9 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1 ²
Air Temperature	82 °F	88 °F	84 °F
Soil Temperature	84 °F at 2 in.	77.4 °F at 2 in.	84 °F at 2 in.
Relative Humidity	65%	33%	58%
Wind Velocity /Direction	2.5 mph / SSE	2 mph / W	3 mph / SE
Cloud Cover	10%	5%	5%
Soil Moisture at Surface	Dry	Moist	Moist
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	14 Jul 08	28 Jul 08	
Application Date	14 Jul 08	28 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.992 lb ae/A (99% of target)	0.986 lb ae/A (99% of target)	
Application Volume	20.4 GPA	19.5 GPA	
Crop Growth Stage	V3 ¹	R1 ²	
Air Temperature	88 °F	84 °F	
Soil Temperature	77.4 °F at 2 in.	84 °F at 2 in.	
Relative Humidity	33%	58%	
Wind Velocity /Direction	2 mph / W	3 mph / SE	
Cloud Cover	5%	5%	
Soil Moisture at Surface	Moist	Moist	

TABLE VII: TRIAL IL-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CARLYLE, ILLINOIS (CONTINUED)

Application Information:		TRT 6 (MON 54140)	
Application Timing		V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date		14 Jul 08	28 Jul 08
Application Date		14 Jul 08	28 Jul 08
Target Application Rate		1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate		1.009 lb ae/A (101% of target)	1.013 lb ae/A (101% of target)
Application Volume		20.7 GPA	20.1 GPA
Crop Growth Stage		V3 ¹	R1 ²
Air Temperature		88 °F	84 °F
Soil Temperature		77.4 °F at 2 in.	84 °F at 2 in.
Relative Humidity		33%	58%
Wind Velocity /Direction		2 mph / W	3 mph / SE
Cloud Cover		5%	5%
Soil Moisture at Surface		Moist	Moist
Application Information:		TRT 7 (MON 54140)	
Application Timing		Pre-emergence	V3 ¹ Postemergence
Calibration Date		20 Jun 08	14 Jul 08
Application Date		20 Jun 08	14 Jul 08
Target Application Rate		0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate		0.507 lb ae/A (101% of target)	0.517 lb ae/A (103% of target)
Application Volume		20.1 GPA	21.2 GPA
Crop Growth Stage		Pre-emergence	V3 ¹
Air Temperature		82 °F	88 °F
Soil Temperature		84 °F at 2 in.	77.4 °F at 2 in.
Relative Humidity		65%	33%
Wind Velocity /Direction		2.5 mph / SSE	2 mph / W
Cloud Cover		10%	5%
Soil Moisture at Surface		Dry	Moist
Harvest Procedures:	<p>Forage: Hand pruners were used to cut forage at ground level from the middle rows. Samples were collected by hand.</p> <p>Hay: Hand pruners were used to cut hay slightly above ground level from the middle rows. Samples were collected by hand, placed in mesh bags, and removed to the SGS greenhouse for drying to a moisture content of about 10 - 20%.</p> <p>Seed: Soybean plants were cut slightly above ground level using hand clippers from the middle rows and run through a bundle plot thresher to obtain seed samples.</p> <p>For all matrices: UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate coolers with dry ice for transport to freezers.</p>		
Sample Collection:		Forage	Forage
Treatment Sampled		TRT 1 (UTC)	TRT 2 (MON 54140)
Sampling Date		5 Aug 08	5 Aug 08
DALA		n/a	22
Growth Stage		V13 - R2	V10 - R2
Plant Height		23 inches	18 inches
Samples Shipped Frozen		6 Aug 08	6 Aug 08
Samples Received Frozen		7 Aug 08	7 Aug 08
Shipment Method		ACDS Freezer Truck	ACDS Freezer Truck

TABLE VII: TRIAL IL-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CARLYLE, ILLINOIS (CONTINUED)

Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Sampling Date	5 Aug 08	5 Aug 08	5 Aug 08
DALA	8	8	8
Growth Stage	V11 - R2	V11 - R2	V11 - R2
Plant Height	24 inches	22 inches	24 inches
Samples Shipped Frozen	6 Aug 08	6 Aug 08	6 Aug 08
Samples Received Frozen	7 Aug 08	7 Aug 08	7 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	12 Aug 08	12 Aug 08	12 Aug 08
DALA (cut)	n/a	29	29
Sampling Date (collected)	15 Aug 08	15 Aug 08	15 Aug 08
Growth Stage	V14 - R2	V11 - R3	V11 - R2
Plant Height	27 inches	20 inches	20 inches
Samples Shipped Frozen	21 Aug 08	21 Aug 08	21 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Cut Date	12 Aug 08	12 Aug 08	12 Aug 08
DALA (cut)	15	15	15
Sampling Date (collected)	15 Aug 08	15 Aug 08	15 Aug 08
Growth Stage	V12 - R3	V12 - R3	V12 - R3
Plant Height	27 inches	25 inches	27 inches
Samples Shipped Frozen	21 Aug 08	21 Aug 08	21 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	10 Oct 08	10 Oct 08	10 Oct 08
DALA	n/a	88	88
Growth Stage	R8	R8	R8
Plant Height	29 inches	23 inches	22 inches
Samples Shipped Frozen	17 Nov 08	17 Nov 08	17 Nov 08
Samples Received Frozen	19 Nov 08	19 Nov 08	19 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Sampling Date	10 Oct 08	10 Oct 08	10 Oct 08
DALA	74	74	74
Growth Stage	R8	R8	R8
Plant Height	28 inches	26 inches	27 inches
Samples Shipped Frozen	17 Nov 08	17 Nov 08	17 Nov 08
Samples Received Frozen	19 Nov 08	19 Nov 08	19 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck

TABLE VII: TRIAL IL-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CARLYLE, ILLINOIS (CONTINUED)

Sample Collection:	Seed				
Treatment Sampled	TRT 7 (MON 54140)				
Sampling Date	10 Oct 08				
DALA	14				
Growth Stage	R8				
Plant Height	27 inches				
Samples Shipped Frozen	17 Nov 08				
Samples Received Frozen	19 Nov 08				
Shipment Method	ACDS Freezer Truck				
Crop Destruction:	21 Oct 08, all plots were disked.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	65.2	66.8	63.3	58.1	47.2
Avg. Max. Air Temp., °F ³	84.1	86.9	85.3	79.3	73.7
Monthly Rainfall, in ³	0.93	6.50	1.60	5.10	0.78
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	63.6	68.3	66.6	58.5	46.7
Avg. Max. Air Temp., °F	82.4	86.7	86.1	81.0	68.0
Monthly Rainfall, in	4.99	4.15	3.44	3.03	3.38

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (20 Jun 08) until the last sampling event (10 Oct 08).

Rainfall was recorded from weather monitoring equipment located at the test site.

Air temperature data were recorded from weather monitoring equipment located 3 miles from the test site.

Historical weather data were recorded from a weather station located 4 miles from the test site.

FIGURE G: PLOT DIAGRAM FOR TRIAL IL-2, LOCATED IN CARLYLE, ILLINOIS

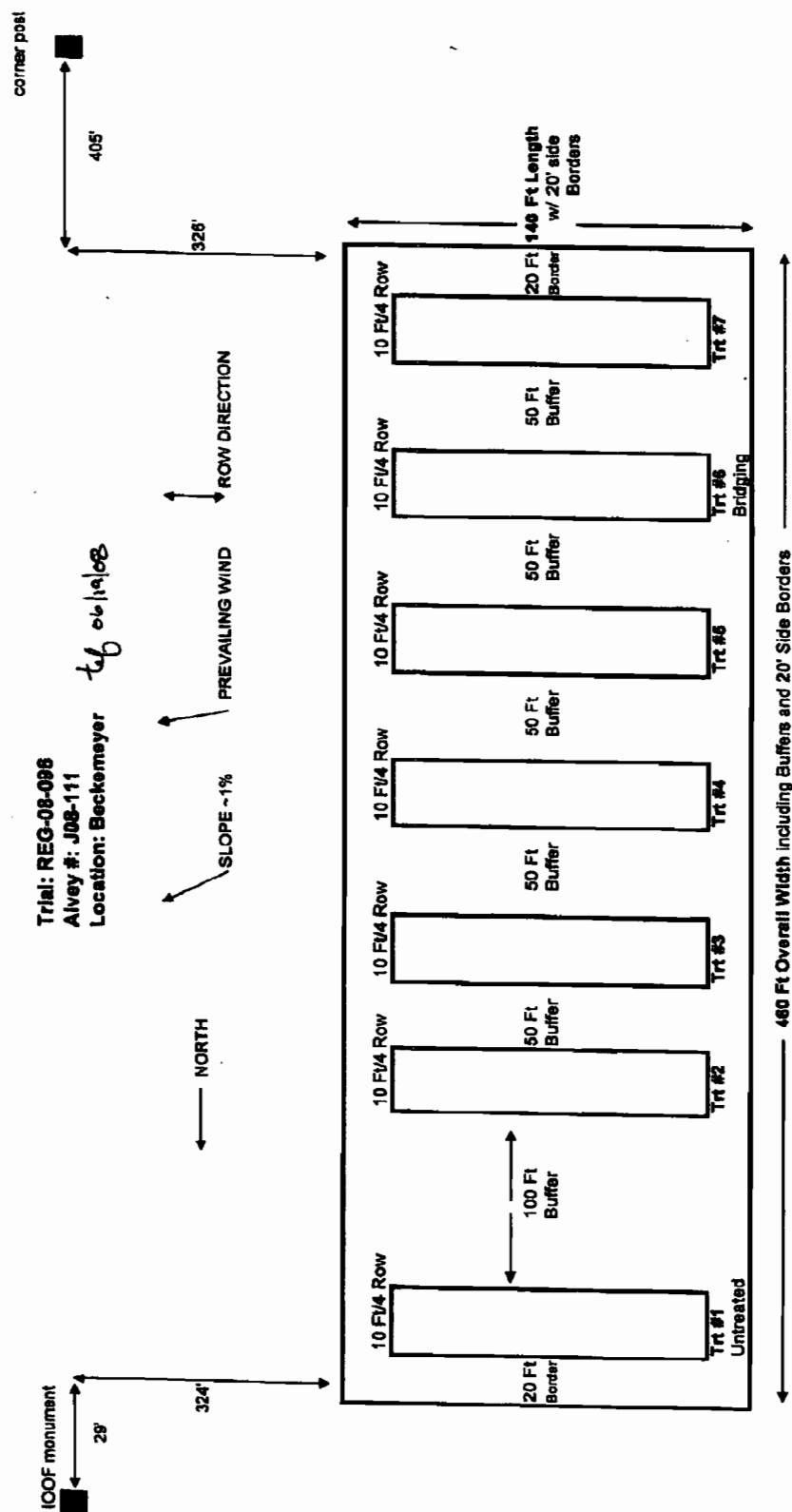


TABLE VIII: TRIAL IN, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ROCKVILLE, INDIANA

Principal Investigator:	Bill Ray Alvey Agricultural Research 1365 North Seip Road Rockville, IN 47872 Phone (317) 468-5252 / Email bill.ray@alveyagriculturalresearch.com
Other Personnel:	Bill Tarter, Jr., Stephanie Troy, and John Bailey
Test Substance Identification:	<p>Test Substance 1 Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p>Test Substance 2 Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p>Test Substance 3 Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 22 Dec 08.</p> <p>MON 11955: Received 300 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 22 Dec 08.</p> <p>MON 11958: Received 400 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 22 Dec 08.</p>
Chemical Storage Temperature:	41 to 95 °F
Site Location:	Rockville, Parke County, Indiana (Region 5)
Field History:	<p>2006: Wheat with no pesticides applied.</p> <p>2007: Wheat through July then fallow with no pesticides applied.</p>
Target Crop:	Soybeans
Planting Date:	24 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001820. Equipment (boxes) was removed, excess seed collected, and visually inspected after planting. Remaining seed was buried in plot on 24 Jun 08. Empty seed container was burned on 3 Nov 08.

TABLE VIII: TRIAL IN, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ROCKVILLE, INDIANA (CONTINUED)

Seeding Rate:	135,000 seeds per acre (6.56 seeds/row ft)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Preference non-ionic surfactant 89.5% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	CO ₂ backpack sprayer with 10 foot boom (#1), six 8003 flat fan nozzles by TeeJet, spaced 20 inches apart, with mesh nozzle screens at 18-19 inches above target (18-30 psi).	
Soil Type:	Ragsdale Silty Clay Loam	
Plot Maintenance Records:	24 Jun 08: field disked, cultivated, and applied Dual II Magnum at 2 qt/A. 20 Oct 07: chisel plowed from wheat stubble.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	27 Jun 08	18 Jul 08
Application Date	27 Jun 08	18 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.476 lb ae/A (95% of target)	0.498 lb ae/A (100% of target)
Application Volume	19.2 GPA	19.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	75 °F	72 °F
Soil Temperature	74 °F at 2 in.	78 °F at 2 in.
Relative Humidity	80%	46%
Wind Velocity /Direction	3.8 mph / S	0.5-1 mph / S
Cloud Cover	5%	1%
Soil Moisture at Surface	Dry	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	27 Jun 08	18 Jul 08
Application Date	27 Jun 08	18 Jul 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.975 lb ae/A (98% of target)	1.022 lb ae/A (102% of target)
Application Volume	19.6 GPA	20.4 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	75 °F	72 °F
Soil Temperature	74 °F at 2 in.	78 °F at 2 in.
Relative Humidity	80%	46%
Wind Velocity /Direction	3.8 mph / S	0.5-1 mph / S
Cloud Cover	5%	1%
Soil Moisture at Surface	Dry	Dry

TABLE VIII: TRIAL IN, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ROCKVILLE, INDIANA (CONTINUED)

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	27 Jun 08	18 Jul 08	8 Aug 08
Application Date	27 Jun 08	18 Jul 08	8 Aug 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.003 lb ae/A (100% of target)	0.496 lb ae/A (99% of target)	0.491 lb ae/A (98% of target)
Application Volume	20.2 GPA	19.9 GPA	18.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1 ²
Air Temperature	75 °F	72 °F	71 °F
Soil Temperature	74 °F at 2 in.	78 °F at 2 in.	72 °F at 2 in.
Relative Humidity	80%	46%	64.8%
Wind Velocity /Direction	3.8 mph / S	0.5-1 mph / S	2.1 mph / NE
Cloud Cover	5%	1%	0%
Soil Moisture at Surface	Dry	Dry	Dry
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	18 Jul 08	8 Aug 08	
Application Date	18 Jul 08	8 Aug 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.012 lb ae/A (101% of target)	0.993 lb ae/A (99% of target)	
Application Volume	20.3 GPA	19.2 GPA	
Crop Growth Stage	V3 ¹	R1 ²	
Air Temperature	72 °F	71 °F	
Soil Temperature	78 °F at 2 in.	72 °F at 2 in.	
Relative Humidity	46%	64.8%	
Wind Velocity /Direction	0.5-1 mph / S	2.1 mph / NE	
Cloud Cover	1%	0%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	27 Jun 08	18 Jul 08	6 Oct 08
Application Date	27 Jun 08	18 Jul 08	6 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.510 lb ae/A (102% of target)	0.498 lb ae/A (100% of target)	1.000 lb ae/A (100% of target)
Application Volume	20.6 GPA	19.9 GPA	25.1 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R8
Air Temperature	75 °F	72 °F	82 °F
Soil Temperature	74 °F at 2 in.	78 °F at 2 in.	86 °F at 2 in.
Relative Humidity	80%	46%	27%
Wind Velocity /Direction	3.8 mph / S	0.5-1 mph / S	2.6-3 mph / SE
Cloud Cover	5%	1%	25%
Soil Moisture at Surface	Dry	Dry	Dry

TABLE VIII: TRIAL IN, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ROCKVILLE, INDIANA (CONTINUED)

Harvest Procedures:	<p>Forage: Scissors were used to cut forage 1 to 2 inches above ground from the middle rows, avoiding plot borders. Samples were collected by hand.</p> <p>Hay: Hand shears were used to cut hay, avoiding plot borders. Samples were collected by hand, carried to the end of the rows and laid on the ground to dry.</p> <p>Seed: Soybean plants were harvested with a Kincaid plot combine from the middle rows, avoiding borders, to obtain seed samples.</p> <p>For all matrices: UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated forage samples were placed into separate temperature monitored coolers with blue ice for transport to freezers. Hay samples were transported at ambient temperatures to freezers. UTC and treated seed samples were transported to freezers in separate coolers with dry ice.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	15 Aug 08	15 Aug 08	15 Aug 08
DALA	n/a	28	28
Growth Stage	R2	R2	R2
Plant Height	17 - 20 inches	17 - 20 inches	17 - 20 inches
Samples Shipped Frozen	20 Aug 08	20 Aug 08	20 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	15 Aug 08	15 Aug 08	
DALA	7	7	
Growth Stage	R2	R2	
Plant Height	17 - 20 inches	17 - 20 inches	
Samples Shipped Frozen	20 Aug 08	20 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	23 Aug 08	23 Aug 08	23 Aug 08
DALA (cut)	n/a	36	36
Sampling Date (collected)	25 Aug 08	25 Aug 08	25 Aug 08
Growth Stage	R2	R2	R2
Plant Height	23 - 26	23 - 26	23 - 26
Samples Shipped Frozen	17 Sep 08	17 Sep 08	17 Sep 08
Samples Received Frozen	17 Sep 08	17 Sep 08	17 Sep 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	23 Aug 08	23 Aug 08	
DALA (cut)	15	15	
Sampling Date (collected)	25 Aug 08	25 Aug 08	
Growth Stage	R2	R2	
Plant Height	23 - 26	23 - 26	
Samples Shipped Frozen	17 Sep 08	17 Sep 08	
Samples Received Frozen	17 Sep 08	17 Sep 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE VIII: TRIAL IN, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN ROCKVILLE, INDIANA (CONTINUED)

Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)		
Sampling Date	20 Oct 08	20 Oct 08	20 Oct 08		
DALA	n/a	94	94		
Growth Stage	R8	R8	R8		
Plant Height	20 - 22 inches	25 - 27 inches	22 - 24.5 inches		
Samples Shipped Frozen	23 Oct 08	23 Oct 08	23 Oct 08		
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)		
Sampling Date	20 Oct 08	20 Oct 08	20 Oct 08		
DALA	73	73	14		
Growth Stage	R8	R8	R8		
Plant Height	26 - 28 inches	24 - 27 inches	24 - 26 inches		
Samples Shipped Frozen	23 Oct 08	23 Oct 08	23 Oct 08		
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Crop Destruction:	31 Oct 08, all plots were disked twice.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	63.5	63.8	59.5	56.1	46.7
Avg. Max. Air Temp., °F ³	80.4	83.3	82.1	79.4	72.0
Monthly Rainfall, in ³	0.54	6.84	1.13	4.57	1.23
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	60.4	63.6	62.7	54.0	43.4
Avg. Max. Air Temp., °F	81.8	84.0	84.4	79.8	66.2
Monthly Rainfall, in	5.00	4.67	3.79	3.32	3.95

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliolate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (27 Jun 08) until the last sampling event (20 Oct 08).

Rainfall and air temperature data were recorded from weather monitoring equipment located at the test site.

Historical weather data were recorded from a weather station located 9 miles from the test site.

FIGURE H: PLOT DIAGRAM FOR TRIAL IN, LOCATED IN ROCKVILLE, INDIANA

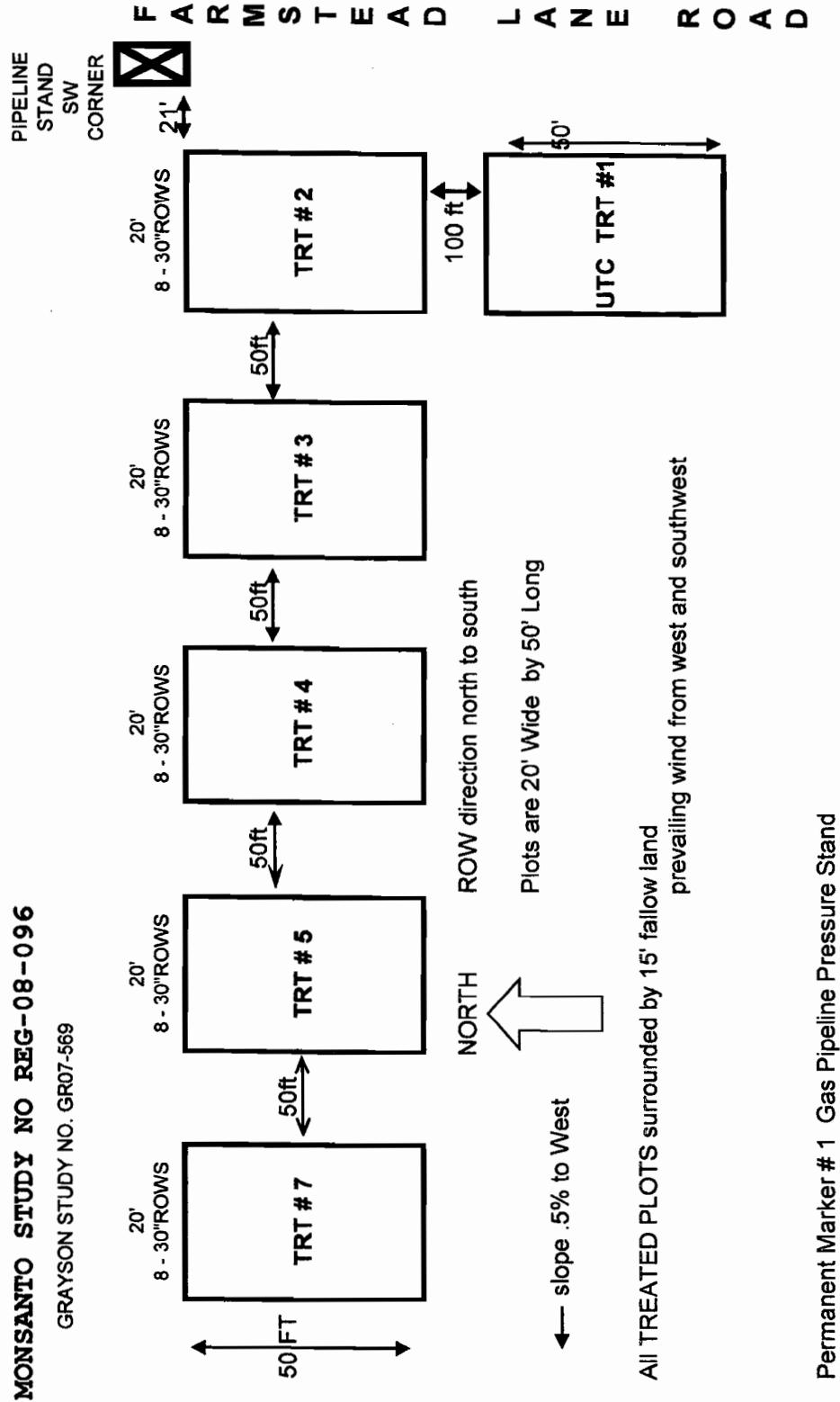


TABLE IX: TRIAL IA-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN RICHLAND, IOWA

Principal Investigator:	David Bennett Bennett Agricultural Research Corp. 1109 Ivy Ave. Richland, IA 52585 Phone (319) 456-3516 / Email barc@iowatelecom.net
Other Personnel:	Travis Legleiter Dennis Tonks, and Laurie Bennett
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 1 liter of test substance on 7 May 08. Excess test substance was returned to the sponsor on 12 Nov 08.</p> <p>MON 11955: Received 650 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 12 Nov 08.</p> <p>MON 11958: Received 700 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 12 Nov 08.</p>
Chemical Storage Temperature:	55.4 to 84.2 °F
Site Location:	Richland, Jefferson County, Iowa (Region 5)
Field History:	<p>23 May 06: Soybeans treated with Python at 1.4 oz/A; 23 May 06: Soybeans treated with trifluralin at 1.0 lb ai/A; 20 Jun 06: Soybeans treated with Select at 8 oz/A; 19 Jul 06: Soybeans treated with Cobra at 10 oz/A.</p> <p>23 May 07: Sorghum treated with Dual at 1.33 pt/A; 23 May 07: Sorghum treated with Atrazine at 1.8 lb ai/A.</p>
Target Crop:	Soybeans
Planting Date:	7 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001820. Equipment was visually inspected after planting for remaining seed. No seed was found. All seed was planted. Empty seed container was incinerated on 12 Nov 08.

TABLE IX: TRIAL IA-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN RICHLAND, IOWA (CONTINUED)

Seeding Rate:	156,816 seeds per acre (9 seeds/row ft)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 150 ft x 20 ft = 3000 ft ² = 0.0689 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (rye grass/wheat mix) completely surrounding each plot	
Adjuvants:	Preference non-ionic surfactant 89.5% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	CO ₂ backpack sprayer with six 11003 flat fan nozzles by TeeJet, spaced 20 inches apart, with 50 mesh nozzle screens at 20 inches above target (16-16.5 psi).	
Soil Type:	Mahaska Silty Clay Loam	
Plot Maintenance Records:	28 Oct 07: chiseled plots. 21 Jan 08: applied N, P2O5, and K2O fertilizer at 8 lbs/A, 40 lbs/A, and 70 lbs/A, respectively. 29 May 08: cultivated field. 2 June 08: mulched plots. 11 Jul 08: applied Roundup Weather Max at 1 lb/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	10 Jun 08	3 Jul 08
Application Date	10 Jun 08	3 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.500 lb ae/A (100% of target)	0.503 lb ae/A (101% of target)
Application Volume	19.5 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	82 °F	68.1 °F
Soil Temperature	75 °F at 2 in.	74.7 °F at 2 in.
Relative Humidity	63%	76%
Wind Velocity /Direction	5 mph / S	1 mph / W
Cloud Cover	5%	35%
Soil Moisture at Surface	Moist	Moist
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	10 Jun 08	3 Jul 08
Application Date	10 Jun 08	3 Jul 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.000 lb ae/A (100% of target)	0.895 lb ae/A (89% of target)
Application Volume	19.4 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	82 °F	68.1 °F
Soil Temperature	75 °F at 2 in.	74.7 °F at 2 in.
Relative Humidity	63%	76%
Wind Velocity /Direction	5 mph / S	1 mph / W
Cloud Cover	5%	35%
Soil Moisture at Surface	Moist	Moist

TABLE IX: TRIAL IA-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN RICHLAND, IOWA (CONTINUED)

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	10 Jun 08	3 Jul 08	25 Jul 08
Application Date	10 Jun 08	3 Jul 08	25 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.008 lb ae/A (101% of target)	0.451 lb ae/A (90% of target)	0.507 lb ae/A (101% of target)
Application Volume	19.7 GPA	20.2 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1 ²
Air Temperature	82 °F	68.1 °F	79.1 °F
Soil Temperature	75 °F at 2 in.	74.7 °F at 2 in.	73.9 °F at 2 in.
Relative Humidity	63%	76%	88%
Wind Velocity /Direction	5 mph / S	1 mph / W	2.5 mph / SW
Cloud Cover	5%	35%	100%
Soil Moisture at Surface	Moist	Moist	Wet
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	3 Jul 08	25 Jul 08	
Application Date	3 Jul 08	25 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.979 lb ae/A (98% of target)	0.998 lb ae/A (100% of target)	
Application Volume	20.2 GPA	20.1 GPA	
Crop Growth Stage	V3 ¹	R1 ²	
Air Temperature	68.1 °F	79.1 °F	
Soil Temperature	74.7 °F at 2 in.	73.9 °F at 2 in.	
Relative Humidity	76%	88%	
Wind Velocity /Direction	1 mph / W	2.5 mph / SW	
Cloud Cover	35%	100%	
Soil Moisture at Surface	Moist	Wet	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	10 Jun 08	3 Jul 08	29 Sep 08
Application Date	10 Jun 08	3 Jul 08	29 Sep 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.494 lb ae/A (99% of target)	0.506 lb ae/A (101% of target)	1.007 lb ae/A (101% of target)
Application Volume	19.3 GPA	20.0 GPA	19.6 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	75% leaf drop
Air Temperature	82 °F	68.1 °F	65.3 °F
Soil Temperature	75 °F at 2 in.	74.7 °F at 2 in.	67.6 °F at 2 in.
Relative Humidity	63%	76%	58.6%
Wind Velocity /Direction	5 mph / S	1 mph / W	1.3 mph / W
Cloud Cover	5%	35%	60%
Soil Moisture at Surface	Moist	Moist	Wet

TABLE IX: TRIAL IA-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN RICHLAND, IOWA (CONTINUED)

Harvest Procedures:	<p><u>Forage:</u> Hedge style hand shears were used to cut forage from the middle rows. Samples were collected by hand.</p> <p><u>Hay:</u> Hedge style hand shears were used to cut hay from the middle rows. Samples were collected by hand into tubs, transported to BARC facilities where the plants in the tubs were allowed to air dry outside during the day and stored under cover at night until a moisture content of about 15% achieved.</p> <p><u>Seed:</u> Soybean plants were cut using hand shears and run through an ALMACO stationary thresher to obtain seed samples.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated forage and seed samples were placed into separate coolers with blue ice for transport to freezers. Hay samples were placed directly into storage freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	1 Aug 08	1 Aug 08	1 Aug 08
DALA	n/a	29	29
Growth Stage	R2	R2	R2
Plant Height	24 inch	24 inch	24 inch
Samples Shipped Frozen	8 Aug 08	8 Aug 08	8 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 5 (MON 11955)
Sampling Date	1 Aug 08	28 Jul 08	28 Jul 08
DALA	7	3	3
Growth Stage	R2	R2	R2
Plant Height	24 inch	18 inch	18 inch
Samples Shipped Frozen	8 Aug 08	8 Aug 08	8 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 5 (MON 11955)	TRT 5 (MON 11955)	TRT 5 (MON 11955)
Sampling Date	1 Aug 08	4 Aug 08	8 Aug 08
DALA	7	10	14
Growth Stage	R2	R2	R3
Plant Height	24 inch	28 inch	50 inch
Samples Shipped Frozen	8 Aug 08	8 Aug 08	25 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	8 Aug 08	8 Aug 08	8 Aug 08
DALA (cut)	n/a	36	36
Sampling Date (collected)	11 Aug 08	11 Aug 08	11 Aug 08
Growth Stage	R3	R3	R3
Plant Height	50 inch	50 inch	50 inch
Samples Shipped Frozen	25 Aug 08	25 Aug 08	25 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck

TABLE IX: TRIAL IA-1; SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN RICHLAND, IOWA (CONTINUED)

Sample Collection:	Hay		Hay		
Treatment Sampled	TRT 4 (MON 11955)		TRT 5 (MON 11955)		
Cut Date	8 Aug 08		8 Aug 08		
DALA (cut)	14		14		
Sampling Date (collected)	11 Aug 08		11 Aug 08		
Growth Stage	R3		R3		
Plant Height	50 inch		50 inch		
Samples Shipped Frozen	25 Aug 08		25 Aug 08		
Samples Received Frozen	27 Aug 08		27 Aug 08		
Shipment Method	ACDS Freezer Truck		ACDS Freezer Truck		
Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)		
Sampling Date	13 Oct 08	13 Oct 08	13 Oct 08		
DALA	n/a	102	102		
Growth Stage	R8	R8	R8		
Plant Height	36 inch	36 inch	36 inch		
Samples Shipped Frozen	28 Oct 08	28 Oct 08	28 Oct 08		
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 4 (MON 11955)	TRT 7 (MON 54140)	TRT 5 (MON 11955)		
Sampling Date	13 Oct 08	13 Oct 08	6 Oct 08		
DALA	80	14	73 (7 days pre-harvest)		
Growth Stage	R8	R8	R8		
Plant Height	36 inch	36 inch	36 inch		
Samples Shipped Frozen	28 Oct 08	28 Oct 08	28 Oct 08		
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 5 (MON 11955)	TRT 5 (MON 11955)	TRT 5 (MON 11955)		
Sampling Date	13 Oct 08	20 Oct 08	28 Oct 08		
DALA	80 (normal harvest)	87 (7 days post-harvest)	95 (14 days post-harvest)		
Growth Stage	R8	R8	R8		
Plant Height	36 inch	36 inch	36 inch		
Samples Shipped Frozen	28 Oct 08	28 Oct 08	28 Oct 08		
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Crop Destruction:	5 Nov 08, all plots were mowed and will be tilled as weather permits.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	60.6	64.6	60.6	54.1	40.9
Avg. Max. Air Temp., °F ³	80.7	83.3	81.9	74.8	63.1
Monthly Rainfall, in ³	5.90	8.40	3.95	6.71	1.74
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	60.8	66.0	63.8	52.5	43.0
Avg. Max. Air Temp., °F	81.6	87.2	85.3	78.3	65.2
Monthly Rainfall, in	4.92	3.31	4.61	2.67	3.77

TABLE IX: TRIAL IA-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN RICHLAND, IOWA (CONTINUED)

Sample Collection:	Hay		Hay	
Treatment Sampled	TRT 4 (MON 11955)		TRT 5 (MON 11955)	
Cut Date	8 Aug 08		8 Aug 08	
DALA (cut)	14		14	
Sampling Date (collected)	11 Aug 08		11 Aug 08	
Growth Stage	R3		R3	
Plant Height	50 inch		50 inch	
Samples Shipped Frozen	25 Aug 08		25 Aug 08	
Samples Received Frozen	27 Aug 08		27 Aug 08	
Shipment Method	ACDS Freezer Truck		ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)	
Sampling Date	13 Oct 08	13 Oct 08	13 Oct 08	
DALA	n/a	102	102	
Growth Stage	R8	R8	R8	
Plant Height	36 inch	36 inch	36 inch	
Samples Shipped Frozen	28 Oct 08	28 Oct 08	28 Oct 08	
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 7 (MON 54140)	TRT 5 (MON 11955)	
Sampling Date	13 Oct 08	13 Oct 08	6 Oct 08	
DALA	80	14	73 (7 days pre-harvest)	
Growth Stage	R8	R8	R8	
Plant Height	36 inch	36 inch	36 inch	
Samples Shipped Frozen	28 Oct 08	28 Oct 08	28 Oct 08	
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed	Seed
Treatment Sampled	TRT 5 (MON 11955)	TRT 5 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	13 Oct 08	20 Oct 08	28 Oct 08	
DALA	80 (normal harvest)	87 (7 days post-harvest)	95 (14 days post-harvest)	
Growth Stage	R8	R8	R8	
Plant Height	36 inch	36 inch	36 inch	
Samples Shipped Frozen	28 Oct 08	28 Oct 08	28 Oct 08	
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck	
Crop Destruction:	5 Nov 08, all plots were mowed and will be tilled as weather permits.			

TABLE IX: TRIAL IA-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN RICHLAND, IOWA (CONTINUED)

Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	60.6	64.6	60.6	54.1	40.9
Avg. Max. Air Temp., °F ³	80.7	83.3	81.9	74.8	63.1
Monthly Rainfall, in ³	5.90	8.40	3.95	6.71	1.74
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	60.8	66.0	63.8	52.5	43.0
Avg. Max. Air Temp., °F	81.6	87.2	85.3	78.3	65.2
Monthly Rainfall, in	4.92	3.31	4.61	2.67	3.77

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (10 Jun 08) until the last sampling event (28 Oct 08).

Rainfall and air temperature data were recorded from on-site weather monitoring equipment.

Historical weather data were recorded from a NOAA weather station located 10 miles from the test site.

FIGURE I: PLOT DIAGRAM FOR TRIAL IA-1, LOCATED IN RICHLAND, IOWA

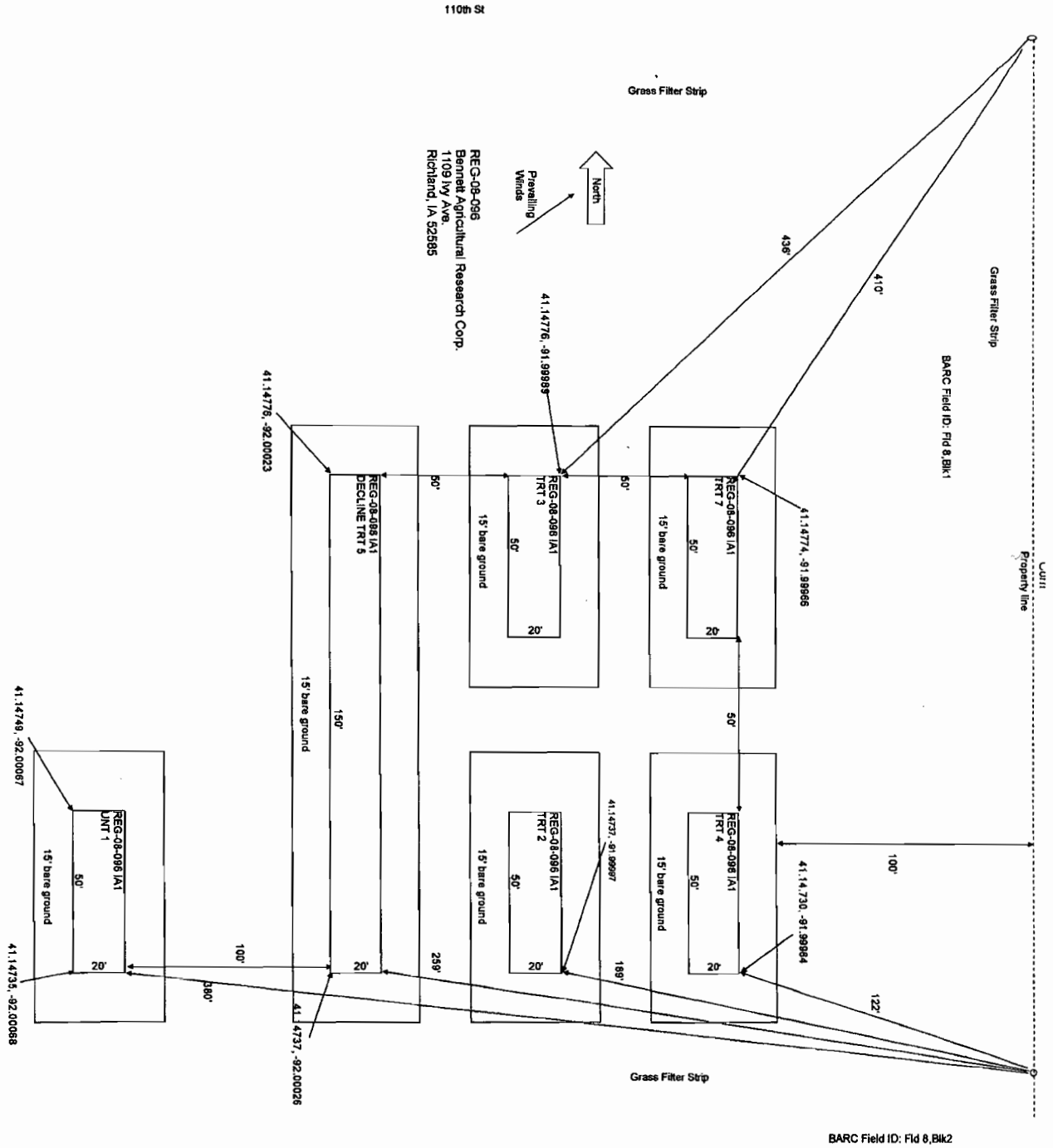


TABLE X: TRIAL IA-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HEDRICK, IOWA

Principal Investigator:	David Bennett Bennett Agricultural Research Corp. 1109 Ivy Ave. Richland, IA 52585 Phone (319) 456-3516 / Email barc@iowatelecom.net
Other Personnel:	Travis Legleiter and Dennis Tonks,
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 1 liter of test substance on 7 May 08. Excess test substance was returned to the sponsor on 12 Nov 08.</p> <p>MON 11955: Received 650 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 12 Nov 08.</p> <p>MON 11958: Received 700 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 12 Nov 08.</p>
Chemical Storage Temperature:	55.4 to 84.2 °F
Site Location:	Hedrick, Wapello County, Iowa (Region 5)
Field History:	<p>2006: Mixed grass with no pesticides applied.</p> <p>2007: Mixed grass with no pesticides applied.</p>
Target Crop:	Soybeans
Planting Date:	17 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001820. Equipment was visually inspected after planting for remaining seed. No seed was found. All seed was planted. Empty seed container was incinerated on 12 Nov 08.
Seeding Rate:	156,816 seeds per acre (9 seeds/row ft)
Rows per Plot:	8
Row Width:	30 inches

**TABLE X: TRIAL IA-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HEDRICK, IOWA
(CONTINUED)**

Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (fallow ground and grass) completely surrounding each plot	
Adjuvants:	Preference non-ionic surfactant 89.5% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	CO ₂ backpack sprayer with six 11003 flat fan nozzles by TeeJet, spaced 20 inches apart, with 50 mesh nozzle screens at 14 inches above target (16-16.5 psi).	
Soil Type:	Grundy Silt Loam	
Plot Maintenance Records:	5 May 08: rotary tilled plots. 20 May 08: cultivated field. 18 Jun 08: applied Prefix at 1 qt/A. 10 Jul 08: applied Roundup WeatherMax at 32 fl oz/A. 12 Jul 08: cultivated rows.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	18 Jun 08	10 Jul 08
Application Date	18 Jun 08	10 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.501 lb ae/A (100% of target)	0.484 lb ae/A (97% of target)
Application Volume	20.2 GPA	19.6 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	87.5 °F	89.5 °F
Soil Temperature	85.7 °F at 2 in.	84.4 °F at 2 in.
Relative Humidity	44.3%	61.5%
Wind Velocity /Direction	4.3 mph / W	4.7 mph / SW
Cloud Cover	50%	20%
Soil Moisture at Surface	Moist	Moist
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	18 Jun 08	10 Jul 08
Application Date	18 Jun 08	10 Jul 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.024 lb ae/A (102% of target)	1.026 lb ae/A (103% of target)
Application Volume	20.4 GPA	20.4 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	87.5 °F	89.5 °F
Soil Temperature	85.7 °F at 2 in.	84.4 °F at 2 in.
Relative Humidity	44.3%	61.5%
Wind Velocity /Direction	4.3 mph / W	4.7 mph / SW
Cloud Cover	50%	20%
Soil Moisture at Surface	Moist	Moist

**TABLE X: TRIAL IA-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HEDRICK, IOWA
(CONTINUED)**

Application Information:		TRT 4 (MON 11955)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	18 Jun 08	10 Jul 08	29 Jul 08
Application Date	18 Jun 08	10 Jul 08	29 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.995 lb ae/A 99% of target)	0.516 lb ae/A (103% of target)	0.501 lb ae/A (100% of target)
Application Volume	20.0 GPA	20.2 GPA	19.6 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1 ²
Air Temperature	87.5 °F	89.5 °F	87.8 °F
Soil Temperature	85.7 °F at 2 in.	84.4 °F at 2 in.	80.1 °F at 2 in.
Relative Humidity	44.3%	61.5%	80.2%
Wind Velocity /Direction	4.3 mph / W	4.7 mph / SW	0.9 mph / S
Cloud Cover	50%	20%	45%
Soil Moisture at Surface	Moist	Moist	Wet
Application Information:		TRT 5 (MON 11955)	
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	10 Jul 08	29 Jul 08	
Application Date	10 Jul 08	29 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.019 lb ae/A (102% of target)	1.000 lb ae/A (100% of target)	
Application Volume	20.5 GPA	19.5 GPA	
Crop Growth Stage	V3 ¹	R1 ²	
Air Temperature	89.5 °F	87.8 °F	
Soil Temperature	84.4 °F at 2 in.	80.1 °F at 2 in.	
Relative Humidity	61.5%	80.2%	
Wind Velocity /Direction	4.7 mph / SW	0.9 mph / S	
Cloud Cover	20%	45%	
Soil Moisture at Surface	Moist	Wet	
Application Information:		TRT 7 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	18 Jun 08	10 Jul 08	16 Oct 08
Application Date	18 Jun 08	10 Jul 08	16 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.508 lb ae/A (102% of target)	0.502 lb ae/A (100% of target)	1.001 lb ae/A (100% of target)
Application Volume	20.5 GPA	20.3 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R7, ≥75% leaf drop
Air Temperature	87.5 °F	89.5 °F	69 °F
Soil Temperature	85.5 °F at 2 in.	84.4 °F at 2 in.	60.1 °F at 2 in.
Relative Humidity	44.3%	61.5%	37%
Wind Velocity /Direction	4.3 mph / W	4.7 mph / SW	0.5 mph / N
Cloud Cover	50%	20%	0%
Soil Moisture at Surface	Moist	Moist	Moist

**TABLE X: TRIAL IA-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HEDRICK, IOWA
(CONTINUED)**

Harvest Procedures:	<p><u>Forage:</u> Hedge style hand shears were used to cut forage from the middle rows. Samples were collected by hand.</p> <p><u>Hay:</u> Hedge style hand shears were used to cut hay from the middle rows. Samples were collected by hand into tubs, transported to BARC facilities where the plants in the tubs were allowed to air dry outside during the day and stored under cover at night until a moisture content of about 15% achieved.</p> <p><u>Seed:</u> Soybean plants were cut using hand shears and run through an ALMACO stationary thresher to obtain seed samples.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated forage and seed samples were placed into separate coolers with blue ice or dry ice for transport to freezers. Hay samples were placed directly into storage freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	6 Aug 08	6 Aug 08	6 Aug 08
DALA	n/a	27	27
Growth Stage	R2	R2	R2
Plant Height	24 inch	24 inch	24 inch
Samples Shipped Frozen	8 Aug 08	8 Aug 08	8 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	6 Aug 08	6 Aug 08	
DALA	8	8	
Growth Stage	R2	R2	
Plant Height	24 inch	24 inch	
Samples Shipped Frozen	8 Aug 08	8 Aug 08	
Samples Received Frozen	15 Aug 08	15 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	12 Aug 08	12 Aug 08	12 Aug 08
DALA (cut)	n/a	33	33
Sampling Date (collected)	16 Aug 08	16 Aug 08	16 Aug 08
Growth Stage	R3	R3	R3
Plant Height	24 inch	24 inch	24 inch
Samples Shipped Frozen	25 Aug 08	25 Aug 08	25 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	12 Aug 08	12 Aug 08	
DALA (cut)	14	14	
Sampling Date (collected)	16 Aug 08	16 Aug 08	
Growth Stage	R3	R3	
Plant Height	24 inch	24 inch	
Samples Shipped Frozen	25 Aug 08	25 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

**TABLE X: TRIAL IA-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HEDRICK, IOWA
(CONTINUED)**

Sample Collection:	Seed	Seed	Seed			
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)			
Sampling Date	1 Nov 08	1 Nov 08	1 Nov 08			
DALA	n/a	114	114			
Growth Stage	R8	R8	R8			
Plant Height	30 - 33 inch	30 - 33 inch	30 - 33 inch			
Samples Shipped Frozen	18 Nov 08	18 Nov 08	18 Nov 08			
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08			
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck			
Sample Collection:	Seed	Seed	Seed			
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)			
Sampling Date	1 Nov 08	1 Nov 08	1 Nov 08			
DALA	95	95	16			
Growth Stage	R8	R8	R8			
Plant Height	30 - 33 inch	30 - 33 inch	30 - 33 inch			
Samples Shipped Frozen	18 Nov 08	18 Nov 08	18 Nov 08			
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08			
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck			
Crop Destruction:	13 Nov 08, all plots were tilled into the soil with a disc.					
Actual Climatic Conditions:	June	July	August	September	October	November
Avg. Min. Air Temp., °F ³	59.5	63.6	60.3	53.7	41.4	41.0
Avg. Max. Air Temp., °F ³	80.8	82.8	81.4	74.4	63.5	68.0
Monthly Rainfall, in ³	4.23	7.93	2.33	4.24	1.58	0
Irrigation, in ³	0	0	0	0	0	0
Normal Climatic Conditions:						
Avg. Min. Air Temp., °F	60.7	65.7	63.3	53.3	42.2	31.8
Avg. Max. Air Temp., °F	80.5	85.8	83.5	77.4	63.9	51.4
Monthly Rainfall, in	5.15	3.06	5.48	2.72	3.04	1.70

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliolate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (18 Jun 08) until the last sampling event (1 Nov 08).

Rainfall, air temperatures, and historical data were recorded from a weather station located 11 miles from the test site.

FIGURE J: PLOT DIAGRAM FOR TRIAL IA-2, LOCATED IN HEDRICK, IOWA

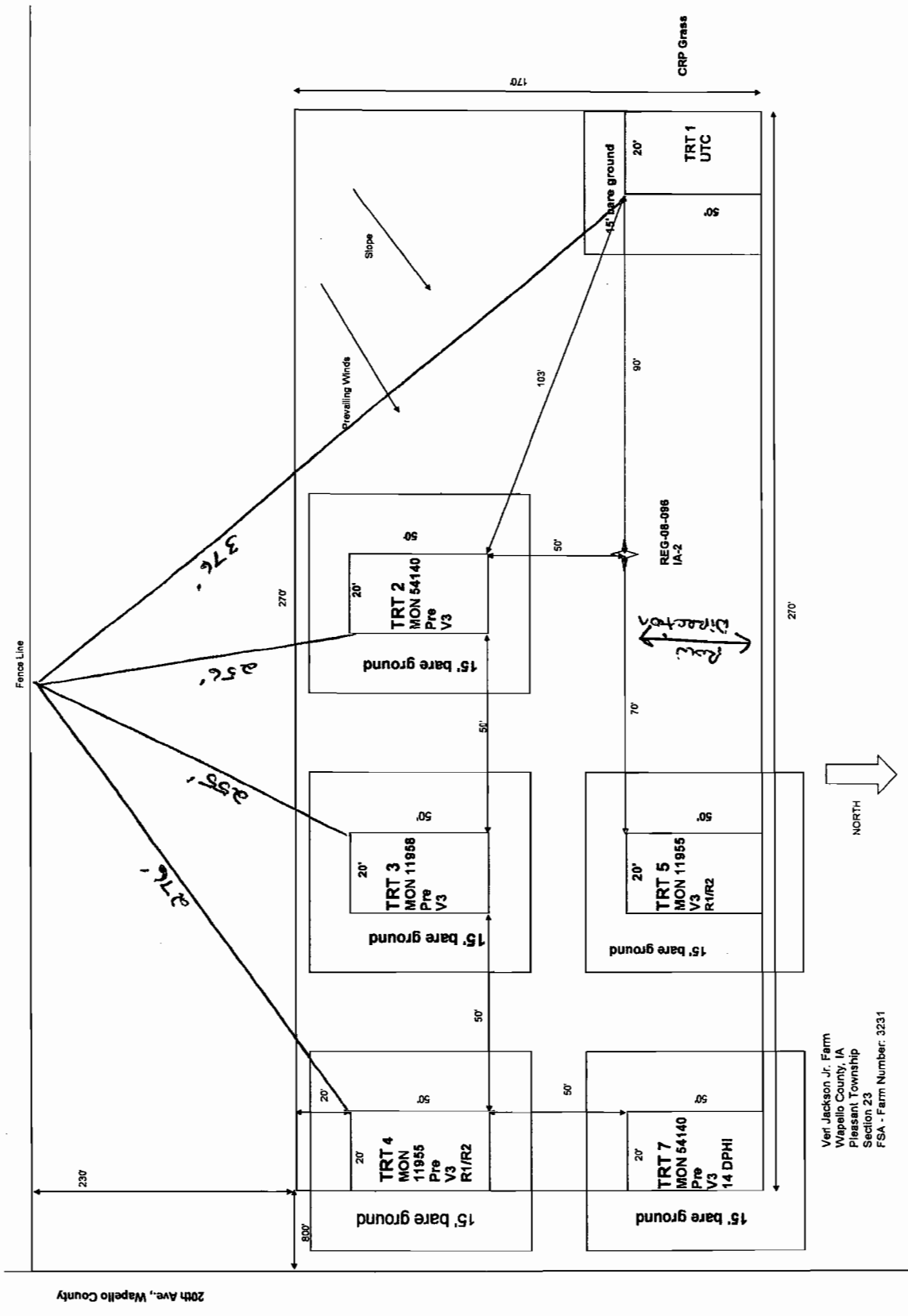


TABLE XI: TRIAL KS-1, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CUNNINGHAM, KANSAS

Principal Investigator:	Roger Musick Crop Guard Research, Inc. P.O. Box 547 (309 N. Broadway) Hinton, OK 73047 Phone (405) 542-6060 / Email cgri@itlnet.net
Other Personnel:	Ross Musick, Cierra Jennings, Mark Mapel, and Lisa Boggs
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 1 liter of test substance on 7 May 08. Excess test substance was returned to the sponsor on 5 Dec 08.</p> <p>MON 11955: Received 500 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 5 Dec 08.</p> <p>MON 11958: Received 400 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 5 Dec 08.</p>
Chemical Storage Temperature:	68 to 82 °F
Site Location:	Cunningham, Kingman County, Kansas (Region 5)
Field History:	<p>15 Jun 06: Soybeans treated with Roundup WeatherMax 22 oz/A.</p> <p>18 Jul 07: Corn treated with Select at 8 oz/A; 10 Aug 07: Corn treated with Roundup WeatherMax at 2 pt/A.</p> <p>15 Mar 08: Wheat treated with Roundup WeatherMax at 2 pt/A.</p>
Target Crop:	Soybeans
Planting Date:	18 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001843. Equipment (planter plate) was removed, visually inspected and shook after planting. Remaining seed was buried in plot on 18 Jun 08. Empty seed container was buried in the plot on 19 Jun 08.

TABLE XI: TRIAL KS-1, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CUNNINGHAM, KANSAS (CONTINUED)

Seeding Rate:	~174,000 seeds per acre	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 60 ft x 20 ft = 1200 ft ² = 0.0275 A Trt 2: 70 ft x 20 ft = 1400 ft ² = 0.0321 A Trt 3: 70 ft x 20 ft = 1400 ft ² = 0.0321 A Trt 4: 70 ft x 20 ft = 1400 ft ² = 0.0321 A Trt 5: 70 ft x 20 ft = 1400 ft ² = 0.0321 A Trt 6: 70 ft x 20 ft = 1400 ft ² = 0.0321 A Trt 7: 70 ft x 20 ft = 1400 ft ² = 0.0321 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Baron non-ionic surfactant and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	CO ₂ backpack (A-12 for pre-emergence, V3 and R1/R2 applications) (A-30 for 14 day PHI application)) sprayer with 5 foot swath boom, with four FF/110-04 nozzles by TeeJet, spaced 15 inches apart, with 50 mesh nozzle screens at 14 inches above target (19-20 psi).	
Soil Type:	Shellabarger Sandy Loam	
Plot Maintenance Records:	11 Jun 08: field disked. 16 Jun 08: marked rows in plots. 18 Jun 08: applied Prowl at 2 pt/A. 24 Jul 08: applied Mustang Max at 5 oz/A and Roundup WeatherMax at 2 pt/A. 25 Aug 08: applied Mustang Max at 3 oz/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	18 Jun 08	16 Jul 08
Application Date	18 Jun 08	16 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.516 lb ae/A (103% of target)	0.515 lb ae/A (103% of target)
Application Volume	20.9 GPA	20.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	81 °F	79 °F
Soil Temperature	73 °F at 2 in.	78 °F at 4 in.
Relative Humidity	70%	74%
Wind Velocity /Direction	3-5 mph / SW	2-3 mph / SSW
Cloud Cover	0%	20%
Soil Moisture at Surface	Moist	Dry

TABLE XI: TRIAL KS-1, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CUNNINGHAM, KANSAS (CONTINUED)

Application Information:		TRT 3 (MON 11958)	
Application Timing		Pre-emergence	V3 ¹ Postemergence
Calibration Date		18 Jun 08	16 Jul 08
Application Date		18 Jun 08	16 Jul 08
Target Application Rate		1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate		0.985 lb ae/A (99% of target)	1.000 lb ae/A (100% of target)
Application Volume		20.2 GPA	20.8 GPA
Crop Growth Stage		Pre-emergence	V3 ¹
Air Temperature		84 °F	80 °F
Soil Temperature		75 °F at 2 in.	78 °F at 4 in.
Relative Humidity		76%	78%
Wind Velocity /Direction		0-2 mph / SW	5 mph / SSW
Cloud Cover		0%	20%
Soil Moisture at Surface		Moist	Dry
Application Information:		TRT 4 (MON 11955)	
Application Timing		Pre-emergence	V3 ¹ Postemergence
Calibration Date		18 Jun 08	16 Jul 08
Application Date		18 Jun 08	16 Jul 08
Target Application Rate		1.0 lb ae/A	0.5 lb ae/A
Actual Application Rate		0.987 lb ae/A (99% of target)	0.489 lb ae/A (98% of target)
Application Volume		20.0 GPA	20.4 GPA
Crop Growth Stage		Pre-emergence	V3 ¹
Air Temperature		84 °F	80 °F
Soil Temperature		75 °F at 2 in.	78 °F at 4 in.
Relative Humidity		76%	76%
Wind Velocity /Direction		0-3 mph / SW	2-3 mph / SSW
Cloud Cover		0%	20%
Soil Moisture at Surface		Dry-Moist	Dry
Application Information:		TRT 5 (MON 11955)	
Application Timing		V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date		16 Jul 08	24 Jul 08
Application Date		16 Jul 08	24 Jul 08
Target Application Rate		1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate		0.985 lb ae/A (99% of target)	1.024 lb ae/A (102% of target)
Application Volume		20.6 GPA	21.4 GPA
Crop Growth Stage		V3 ¹	R1 ²
Air Temperature		80 °F	85 °F
Soil Temperature		78 °F at 4 in.	84 °F at 4 in.
Relative Humidity		76%	72%
Wind Velocity /Direction		2-3 mph / SSW	5-8 mph / SW
Cloud Cover		20%	10%
Soil Moisture at Surface		Dry	Dry

TABLE XI: TRIAL KS-1, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CUNNINGHAM, KANSAS (CONTINUED)

Application Information:		TRT 6 (MON 54140)	
Application Timing		V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date		16 Jul 08	24 Jul 08
Application Date		16 Jul 08	24 Jul 08
Target Application Rate		1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate		0.988 lb ae/A (99% of target)	1.049 lb ae/A (105% of target)
Application Volume		20.6 GPA	21.9 GPA
Crop Growth Stage		V3 ¹	R1 ²
Air Temperature		80 °F	84 °F
Soil Temperature		78 °F at 4 in.	83 °F at 4 in.
Relative Humidity		70%	72%
Wind Velocity /Direction		5-7 mph / SSW	5-7 mph / SW
Cloud Cover		20%	10%
Soil Moisture at Surface		Dry	Dry
Application Information:		TRT 7 (MON 54140)	
Application Timing		Pre-emergence	V3 ¹ Postemergence
Calibration Date		18 Jun 08	16 Jul 08
Application Date		18 Jun 08	16 Jul 08
Target Application Rate		0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate		0.507 lb ae/A (101% of target)	0.504 lb ae/A (101% of target)
Application Volume		20.6 GPA	20.4 GPA
Crop Growth Stage		Pre-emergence	V3 ¹
Air Temperature		81 °F	79 °F
Soil Temperature		73 °F at 2 in.	78 °F at 4 in.
Relative Humidity		70%	74%
Wind Velocity /Direction		3-5 mph / SW	2-3 mph / SSW
Cloud Cover		0%	20%
Soil Moisture at Surface		Moist	Dry
Harvest Procedures:		<p>Forage: Hand clippers were used to cut forage 1 - 2 inches above soil line from the middle rows. Samples were collected by hand.</p> <p>Hay: Hand clippers were used to cut hay about 1 inch above soil line from the middle rows. Samples were collected by hand, placed into mesh bags and transported to outdoor drying racks until a moisture content of about 10 - 12% achieved.</p> <p>Seed: Soybean plants were cut using hand clippers 1 - 3 inches above soil line and run through a Kincaid small plot combine to obtain seed samples.</p> <p>For all matrices: UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored coolers with blue ice for transport to freezers.</p>	
Sample Collection:		Forage	Forage
Treatment Sampled		TRT 1 (UTC)	TRT 2 (MON 54140)
Sampling Date		1 Aug 08	1 Aug 08
DALA		n/a	16
Growth Stage		R2	R2
Plant Height		10 - 14 inches	10 - 14 inches
Samples Shipped Frozen		4 Aug 08	4 Aug 08
Samples Received Frozen		27 Aug 08	27 Aug 08
Shipment Method		ACDS Freezer Truck	ACDS Freezer Truck

TABLE XI: TRIAL KS-1, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CUNNINGHAM, KANSAS (CONTINUED)

Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Sampling Date	1 Aug 08	1 Aug 08	1 Aug 08
DALA	8	8	8
Growth Stage	R2	R2	R2
Plant Height	10 - 14 inches	10 - 14 inches	10 - 14 inches
Samples Shipped Frozen	4 Aug 08	4 Aug 08	4 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	7 Aug 08	7 Aug 08	7 Aug 08
DALA (cut)	n/a	22	22
Sampling Date (collected)	14 Aug 08	14 Aug 08	14 Aug 08
Growth Stage	R2	R2	R2
Plant Height	12 - 16 inches	12 - 16 inches	12 - 16 inches
Samples Shipped Frozen	2 Sep 08	2 Sep 08	2 Sep 08
Samples Received Frozen	29 Sep 08	29 Sep 08	29 Sep 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Cut Date	7 Aug 08	7 Aug 08	7 Aug 08
DALA (cut)	14	14	14
Sampling Date (collected)	14 Aug 08	14 Aug 08	14 Aug 08
Growth Stage	R2	R2	R2
Plant Height	12 - 16 inches	12 - 16 inches	12 - 16 inches
Samples Shipped Frozen	2 Sep 08	2 Sep 08	2 Sep 08
Samples Received Frozen	29 Sep 08	29 Sep 08	29 Sep 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	27 Oct 08	27 Oct 08	27 Oct 08
DALA	n/a	103	103
Growth Stage	R8	R8	R8
Plant Height	22 - 24 inches	25 - 28 inches	27 - 29 inches
Samples Shipped Frozen	3 Nov 08	3 Nov 08	3 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Sampling Date	27 Oct 08	27 Oct 08	27 Oct 08
DALA	95	95	95
Growth Stage	R8	R8	R8
Plant Height	26 - 30 inches	19 - 22 inches	22 - 25 inches
Samples Shipped Frozen	3 Nov 08	3 Nov 08	3 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck

TABLE XI: TRIAL KS-1, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN CUNNINGHAM, KANSAS (CONTINUED)

Sample Collection:	Seed				
Treatment Sampled	TRT 7 (MON 54140)				
Sampling Date	27 Oct 08				
DALA	19				
Growth Stage	R8				
Plant Height	26 - 27 inches				
Samples Shipped Frozen	3 Nov 08				
Samples Received Frozen	20 Nov 08				
Shipment Method	ACDS Freezer Truck				
Crop Destruction:	27 Oct 08, all plots were disked into the soil, and equipment inspected and cleaned before leaving plot.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	62.8	66.6	66.7	56.6	45.8
Avg. Max. Air Temp., °F ³	87.0	90.7	87.9	77.7	68.9
Monthly Rainfall, in ³	0.3	1.4	0.9	3.7	3.0
Irrigation, in ³	1.0	2.0	1.5	0.5	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	61.4	67.1	65.6	56.4	44.5
Avg. Max. Air Temp., °F	86.8	93.1	92.3	84.3	70.7
Monthly Rainfall, in	4.39	3.29	3.47	2.09	3.00

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (18 Jun 08) until the last sampling event (27 Oct 08).

Rainfall was recorded from weather monitoring equipment located at the test site.

Air temperature and historical weather data were recorded from a NOAA weather station located 20 miles from the test site.

FIGURE K: PLOT DIAGRAM FOR TRIAL KS-1, LOCATED IN CUNNINGHAM, KANSAS

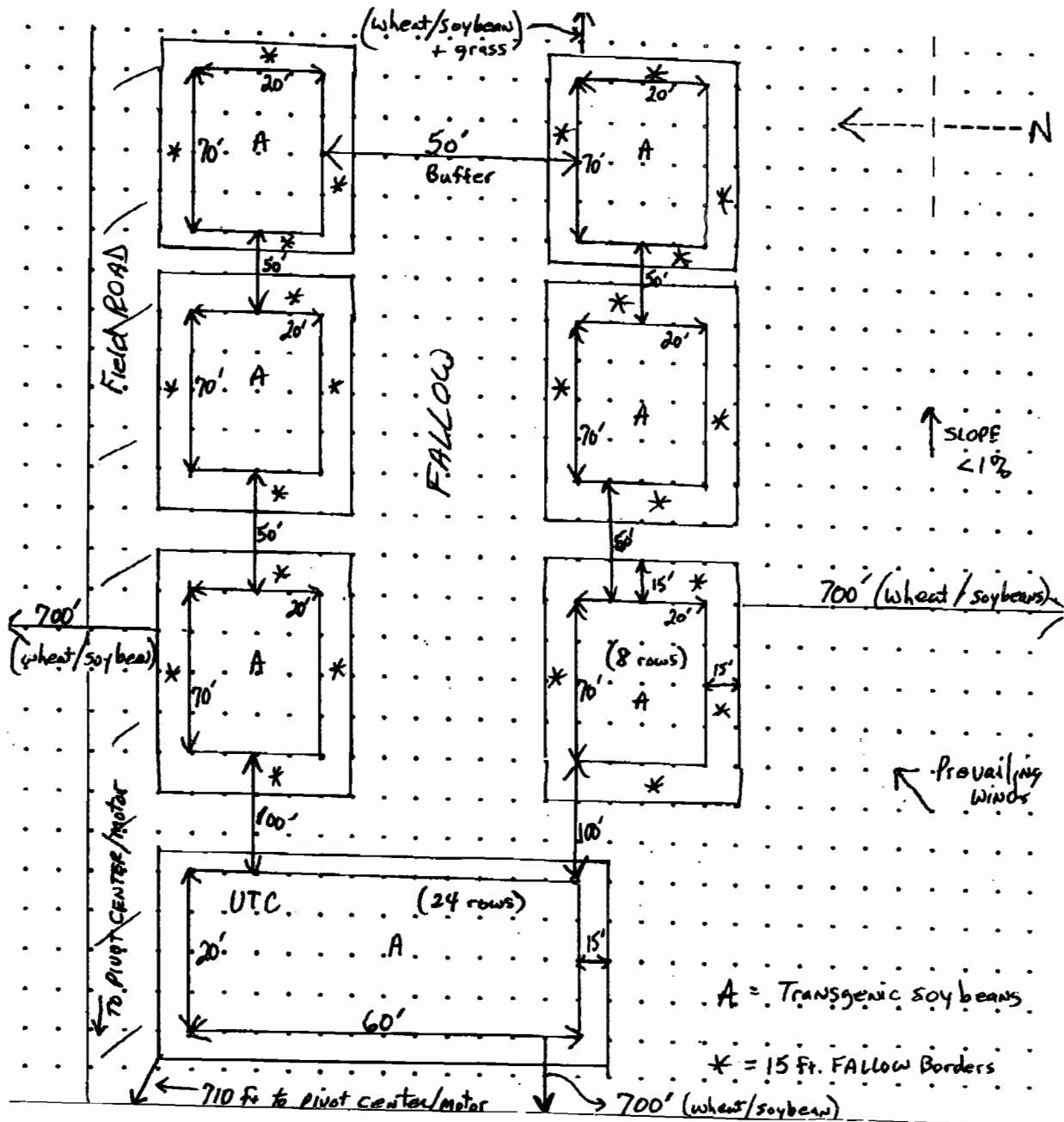


TABLE XII: TRIAL KS-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HUDSON, KANSAS

Principal Investigator:	Douglas W. Nord Diamond Ag Research, Inc. 855 K19 Hwy S Larned, KS 67550-5220 Phone (620) 285-3380 / Email diamondag@gbta.net
Other Personnel:	Cathy A. Nord, David A. Mitzner, Pamela S. Mitzner, Audrey M. Allison, and Jonathan R. Iman
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 19 Nov 08.</p> <p>MON 11955: Received 250 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 19 Nov 08.</p> <p>MON 11958: Received 350 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 19 Nov 08.</p>
Chemical Storage Temperature:	60.1 to 78.0 °F
Site Location:	Hudson, Stafford County, Kansas (Region 5)
Field History:	<p>1 May 06: Soybeans treated with glyphosate at 1.0 lb ai/A; 1 May 06: Soybeans treated with 2,4-D at 0.13 lb ai/A; 1 Jun 06: Soybeans treated with cloransulam at 0.016 lb ai/A; 1 Jun 06: Soybeans treated with glyphosate at 1.0 lb ai/A; 1 Jul 06: Soybeans treated with glyphosate at 1.0 lb ai/A; 30 Aug 06: Soybeans treated with zeta-cypermethrin at 0.019 lb ai/A.</p>

**TABLE XII: TRIAL KS-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HUDSON, KANSAS
(CONTINUED)**

Field History: continued	21 May 07: Field corn treated with metolachlor at 0.65 lb ai/A; 21 May 07: Field corn treated with atrazine at 0.65 lb ai/A; 21 May 07: Field corn treated with mesotrione at 0.08 lb ai/A; 21 May 07: Field corn treated with glyphosate at 0.89 lb ai/A; 22 Jun 07: Field corn treated with metolachlor at 0.65 lb ai/A; 22 Jun 07: Field corn treated with atrazine at 0.65 lb ai/A; 22 Jun 07: Field corn treated with mesotrione at 0.08 lb ai/A; 22 Jun 07: Field corn treated with glyphosate at 0.89 lb ai/A.
Target Crop:	Soybeans
Planting Date:	9 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001842. For cleaning the equipment after planting, followed DAR SOP 0-07, Revision 0 (APHIS Trial) and DAR SOP 2-20, Revision 4 (cone planter). Remaining seed was incinerated and buried inside the plots. Empty seed container was burned on 16 Jun 08.
Seeding Rate:	125,000 seeds per acre (5.7 plants/row ft)
Rows per Plot:	8
Row Width:	30 inches
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a >15 ft isolation buffer (fallow ground) completely surrounding each plot
Adjuvants:	Spreader 90 non-ionic surfactant and Ammonium sulfate (AMS)
Application Type:	Foliar spray over top of crop
Application Equipment:	CO ₂ backpack sprayer (R&D 6020-#4 for pre-emergence, V3 and R1/R2 application) (R&D 6020 #2 for 14-day PHI application) with six 110-02 Turbo TeeJet nozzles, spaced 20 inches apart, with 50 mesh nozzle screens at 17 inches above target (18-25 psi).
Soil Type:	Carwile Fine Sandy Loam
Plot Maintenance Records:	2 Apr 08: applied nitrogen at 94 lbs/A, P ₂ O ₅ at 26.1 lbs/A, K ₂ O at 6.33 lbs/A, Sulfur at 4.1 lbs/A, K ₂ O at 71.0 lbs/A, Magnesium at 5.5 lbs/A, and Sulfur at 11.0 lbs/A. 4 Apr 08: applied glyphosate at 1.0 lb ai/A. 6 Jun 08: applied glyphosate at 1.0 lb ai/A. 1 Jul 08: hand weeded test plots and borders. 7 Jul 08: applied glyphosate at 1.0 lb ai/A. 18 Aug 08: applied glyphosate at 1.0 lb ai/A. 9 Sep 08: applied zeta-cypermethrin at 0.025 lb ai/A.

**TABLE XII: TRIAL KS-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HUDSON, KANSAS
(CONTINUED)**

Application Information:	TRT 2 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	
Calibration Date	9 Jun 08	11 Jul 08	
Application Date	9 Jun 08	11 Jul 08	
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	
Actual Application Rate	0.512 lb ae/A (102% of target)	0.516 lb ae/A (103% of target)	
Application Volume	20.5 GPA	20.7 GPA	
Crop Growth Stage	Pre-emergence	V3 ¹	
Air Temperature	86.6 °F	76.3 °F	
Soil Temperature	79.7 °F at 2 in.	72.6 °F at 2 in.	
Relative Humidity	28.3%	76.6%	
Wind Velocity /Direction	0-1 mph / NW	1.7 mph / S	
Cloud Cover	15%	0%	
Soil Moisture at Surface	Dry	Moist	
Application Information:	TRT 3 (MON 11958)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	
Calibration Date	9 Jun 08	11 Jul 08	
Application Date	9 Jun 08	11 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.015 lb ae/A (101% of target)	0.998 lb ae/A (100% of target)	
Application Volume	20.3 GPA	20.0 GPA	
Crop Growth Stage	Pre-emergence	V3 ¹ Postemergence	
Air Temperature	86.6 °F	79.7 °F	
Soil Temperature	79.7 °F at 2 in.	73 °F at 2 in.	
Relative Humidity	28.3%	71.4%	
Wind Velocity /Direction	0-1 mph / NW	2.5 mph / S	
Cloud Cover	15%	0%	
Soil Moisture at Surface	Dry	Moist	
Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	9 Jun 08	11 Jul 08	24 Jul 08
Application Date	9 Jun 08	11 Jul 08	24 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.019 lb ae/A (102% of target)	0.493 lb ae/A (99% of target)	0.518 lb ae/A (104% of target)
Application Volume	20.4 GPA	19.7 GPA	20.7 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1/R2 ²
Air Temperature	86.6 °F	79.7 °F	89.2 °F
Soil Temperature	79.7 °F at 2 in.	73 °F at 2 in.	77.5 °F at 2 in.
Relative Humidity	28.3%	71.4%	60.1%
Wind Velocity /Direction	0-1 mph / NW	2.5 mph / S	2.7 mph / S
Cloud Cover	15%	0%	0%
Soil Moisture at Surface	Dry	Moist	Moist

**TABLE XII: TRIAL KS-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HUDSON, KANSAS
(CONTINUED)**

Application Information:		TRT 5 (MON 11955)	
Application Timing		V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date		11 Jul 08	24 Jul 08
Application Date		11 Jul 08	24 Jul 08
Target Application Rate		1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate		1.033 lb ae/A (103% of target)	1.040 lb ae/A (104% of target)
Application Volume		20.7 GPA	20.8 GPA
Crop Growth Stage		V3 ¹	R1/R2 ²
Air Temperature		79.7 °F	89.2 °F
Soil Temperature		73 °F at 2 in.	77.5 °F at 2 in.
Relative Humidity		71.4%	60.1%
Wind Velocity /Direction		2.5 mph / S	2.7 mph / S
Cloud Cover		0%	0%
Soil Moisture at Surface		Moist	Moist
Application Information:		TRT 7 (MON 54140)	
Application Timing		Pre-emergence	V3 ¹ Postemergence
Calibration Date		9 Jun 08	11 Jul 08
Application Date		9 Jun 08	11 Jul 08
Target Application Rate		0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate		0.508 lb ae/A (102% of target)	0.504 lb ae/A (101% of target)
Application Volume		20.3 GPA	20.2 GPA
Crop Growth Stage		Pre-emergence	V3 ¹
Air Temperature		86.6 °F	76.3 °F
Soil Temperature		79.7 °F at 2 in.	72.6 °F at 2 in.
Relative Humidity		28.3%	76.6%
Wind Velocity /Direction		0-1 mph / NW	1.7 mph / S
Cloud Cover		15%	0%
Soil Moisture at Surface		Dry	Moist
Harvest Procedures:		<p><u>Forage:</u> Hand clippers were used to cut forage about 1 inch above soil line, avoiding borders. Samples were collected by hand.</p> <p><u>Hay:</u> Hand clippers were used to cut forage about 1 inch above soil line, avoiding borders. Samples were collected by hand, placed into mesh bags and transported to D.A.R. facility to air dry on clean racks to a moisture content of about 10 - 20%.</p> <p><u>Seed:</u> Soybean plants were cut and threshed using a Wintersteiger combine. Plot borders were harvested and discarded. Diagonal passes through the plot were made to obtain seed samples.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Forage and hay samples were collected from a minimum of 12 separate areas of each plot, and 12 handfuls of seed were collected for each sample. UTC and treated forage and seed samples were placed into separate temperature monitored coolers with dry ice or blue ice for transport to freezers. Hay samples were placed directly into storage freezers.</p>	

**TABLE XII: TRIAL KS-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HUDSON, KANSAS
(CONTINUED)**

Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	31 Jul 08	31 Jul 08	31 Jul 08
DALA	n/a	20	20
Growth Stage	R2 - R3	R2 - R3	R2 - R3
Plant Height	18 - 26	18 - 26	18 - 26
Samples Shipped Frozen	20 Aug 08	20 Aug 08	20 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	31 Jul 08	31 Jul 08	
DALA	7	7	
Growth Stage	R2 - R3	R2 - R3	
Plant Height	18 - 26	18 - 26	
Samples Shipped Frozen	20 Aug 08	20 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	6 Aug 08	6 Aug 08	6 Aug 08
DALA (cut)	n/a	26	26
Sampling Date (collected)	11 Aug 08	11 Aug 08	11 Aug 08
Growth Stage	R2	R2	R2
Plant Height	28 inches	28.5 inches	24 inches
Samples Shipped Frozen	20 Aug 08	20 Aug 08	20 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	6 Aug 08	6 Aug 08	
DALA (cut)	13	13	
Sampling Date (collected)	11 Aug 08	11 Aug 08	
Growth Stage	R2	R2	
Plant Height	26 inches	24 inches	
Samples Shipped Frozen	20 Aug 08	20 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	9 Oct 08	9 Oct 08	9 Oct 08
DALA	n/a	90	90
Growth Stage	R8	R8	R8
Plant Height	35 inches	32 inches	28 inches
Samples Shipped Frozen	20 Oct 08	20 Oct 08	20 Oct 08
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck

**TABLE XII: TRIAL KS-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN HUDSON, KANSAS
(CONTINUED)**

Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)		
Sampling Date	9 Oct 08	9 Oct 08	9 Oct 08		
DALA	77	77	14		
Growth Stage	R8	R8	R8		
Plant Height	30 inches	30 inches	30 inches		
Samples Shipped Frozen	20 Oct 08	20 Oct 08	20 Oct 08		
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Crop Destruction:	9 Oct 08, harvested seed was run through a chipper shredder and buried. The plots were disked to a depth of 3 inches to bury crop residues on 21 Nov 08.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	61.2	65.2	62.6	53.9	47.5
Avg. Max. Air Temp., °F ³	92.2	93.0	86.0	86.1	84.5
Monthly Rainfall, in ³	4.46	5.46	2.46	1.92	2.20
Irrigation, in ³	1.11	5.35	2.38	0.93	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	64	70	70	60	48
Avg. Max. Air Temp., °F	86	93	93	84	70
Monthly Rainfall, in	5.89	3.34	4.03	2.59	3.77

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (9 Jun 08) until the last sampling event (9 Oct 08).

Rainfall was recorded from on-site monitoring equipment.

Air temperatures were recorded from a weather station located 7 miles from the test site.

Historical weather data were recorded from a NOAA weather station located 83 miles from the test site.

FIGURE L: PLOT DIAGRAM FOR TRIAL KS-2, LOCATED IN HUDSON, KANSAS

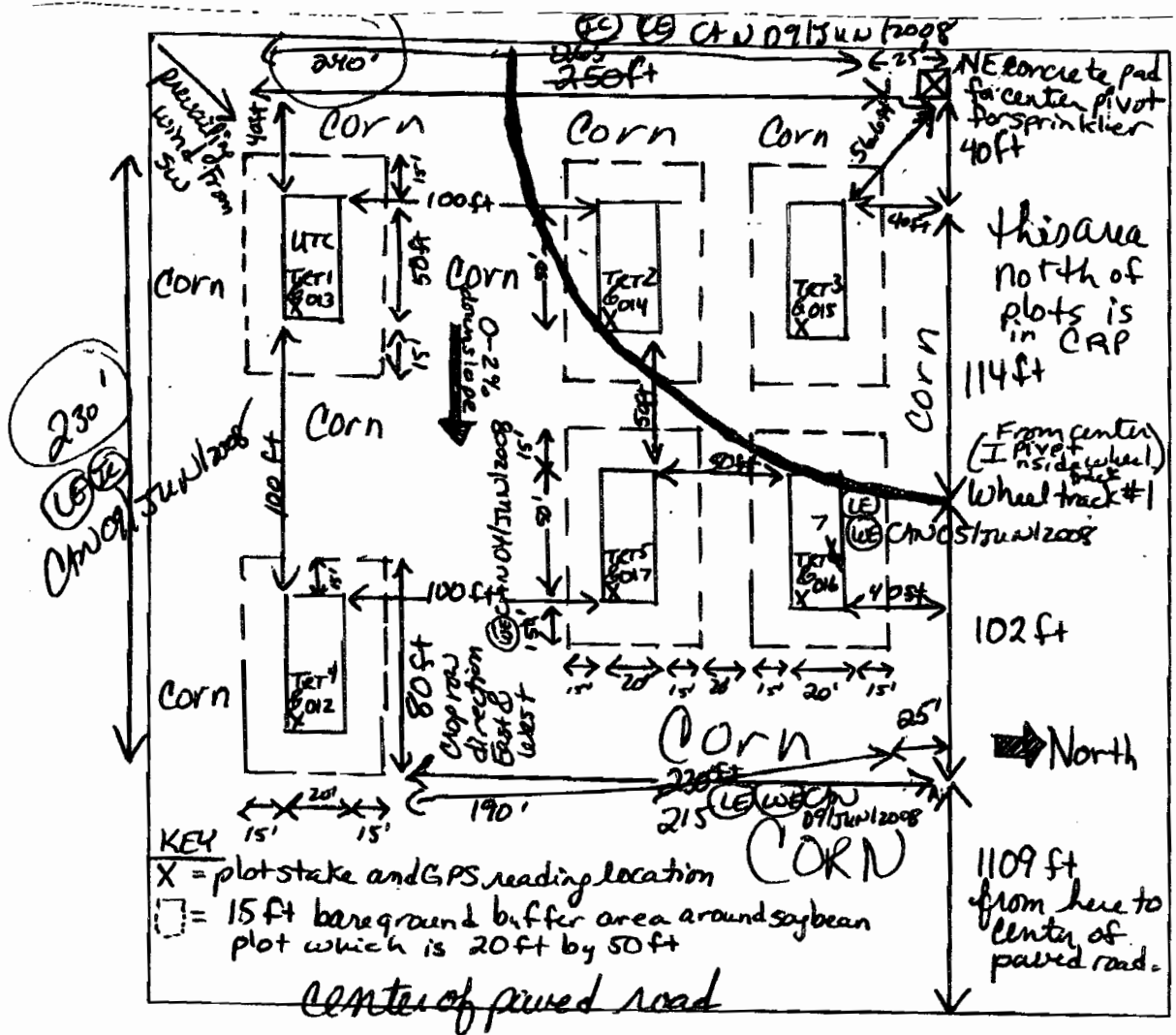


TABLE XIII: TRIAL MI, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CONKLIN, MICHIGAN

Principal Investigator:	Mark Waldecker AGSEARCH Company 1705 Wilson Street Conklin, MI 49403-9708 Phone (616) 899-2908 / Email mwaldecker@agsearchcompany.com
Other Personnel:	Dan Platte, Ben Dunneback, Russell Armock, and DJ VanDyke
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 15 Oct 08.</p> <p>MON 11955: Received 250 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 15 Oct 08.</p> <p>MON 11958: Received 350 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 15 Oct 08.</p>
Chemical Storage Temperature:	40 to 79 °F
Site Location:	Conklin, Ottawa County, Michigan (Region 5)
Field History:	<p>15 Aug 06: Abandoned peach orchard treated with Roundup WeatherMax at 1.14 lb ai/A; 15 Aug 06: Abandoned peach orchard treated with Trimec 992 at 0.79 lb ai/A; 20 Nov 06: Abandoned peach orchard treated with Roundup WeatherMax at 0.83 lb ai/A; 20 Nov 06: Abandoned peach orchard treated with and Trimec 992 at 0.60 lb ai/A.</p> <p>12 Jun 07: Field corn treated with Roundup at 1.0 lb ai/A.</p>
Target Crop:	Soybeans

TABLE XIII: TRIAL MI, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CONKLIN, MICHIGAN (CONTINUED)

Planting Date:	23 May 08, dicamba-tolerant MON 87708 soybean seed, Source 10001841. Equipment was emptied and cleaned in the plot area. Excess seed was buried in the plot area on 27 May 08. Empty seed container was discarded on 27 May 08.	
Seeding Rate:	128,670 seeds per acre (7.4 seeds/row ft)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a >15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	X77 non-ionic surfactant and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	Tractor mounted sprayer (ID # 22) with side mounted boom, six XR8003 VS flat fan nozzles by TeeJet, spaced 20 inches apart, with 50 mesh nozzle screens at 18 inches above target using CO ₂ (20 psi).	
Soil Type:	Nester	
Plot Maintenance Records:	21 May 08: chisel plowed field twice to an 8 inch depth. 22 May 08: tilled with field cultivator to depth of 4 inches and laid out plots and cultivated twice to depth of 4 inches. 23 May 08: applied 6-24-24 fertilizer at 200 lbs/A, Dual II Magnum at 0.96 lbs ai/A, and Sencor 75 DF at 0.25 lbs ai/A. 25 Jun 08: tilled outside plot perimeter with field cultivator and drilled winter wheat in between and surrounding plots (not for harvest). 8 Jul 08: applied Roundup Original Max at 1.38 lb ai/A. 8 Aug 08: applied Sevin XLR at 1.0 lb ai/A	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	23 May 08	27 Jun 08
Application Date	23 May 08	27 Jun 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.501 lb ae/A (100% of target)	0.496 lb ae/A (99% of target)
Application Volume	19.7 GPA	19.7 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	64 °F	82 °F
Soil Temperature	72 °F at 2 in.	84 °F at 2 in.
Relative Humidity	52%	64%
Wind Velocity /Direction	2-4 mph / ENE	2-3 mph / SSW
Cloud Cover	80%	45%
Soil Moisture at Surface	Dry	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	23 May 08	27 Jun 08
Application Date	23 May 08	27 Jun 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.995 lb ae/A (100% of target)	1.001 lb ae/A (100% of target)
Application Volume	19.7 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹

TABLE XIII: TRIAL MI, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CONKLIN, MICHIGAN (CONTINUED)

Application Information:		TRT 3 (MON 11958) continued	
Air Temperature		64 °F	82 °F
Soil Temperature		72 °F at 2 in.	84 °F at 2 in.
Relative Humidity		52%	64%
Wind Velocity /Direction		2-4 mph / ENE	2-3 mph / SSW
Cloud Cover		80%	45%
Soil Moisture at Surface		Dry	Dry
Application Information:		TRT 4 (MON 11955)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	23 May 08	27 Jun 08	23 Jul 08
Application Date	23 May 08	27 Jun 08	23 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.000 lb ae/A (100% of target)	0.500 lb ae/A (100% of target)	0.496 lb ae/A (99% of target)
Application Volume	19.7 GPA	19.9 GPA	19.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1/R2 ²
Air Temperature	64 °F	82 °F	59 °F
Soil Temperature	72 °F at 2 in.	84 °F at 2 in.	60 °F at 2 in.
Relative Humidity	52%	64%	93%
Wind Velocity /Direction	2-4 mph / ENE	2-3 mph / SSW	0-1 mph / N
Cloud Cover	80%	45%	10%
Soil Moisture at Surface	Dry	Dry	Very Moist
Application Information:		TRT 5 (MON 11955)	
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	27 Jun 08	23 Jul 08	
Application Date	27 Jun 08	23 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.998 lb ae/A (100% of target)	0.990 lb ae/A (99% of target)	
Application Volume	19.8 GPA	19.9 GPA	
Crop Growth Stage	V3 ¹	R1/R2 ²	
Air Temperature	82 °F	59 °F	
Soil Temperature	84 °F at 2 in.	60 °F at 2 in.	
Relative Humidity	64%	93%	
Wind Velocity /Direction	2-3 mph / SSW	0-1 mph / N	
Cloud Cover	45%	10%	
Soil Moisture at Surface	Dry	Very Moist	
Application Information:		TRT 7 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	23 May 08	27 Jun 08	7 Oct 08
Application Date	23 May 08	27 Jun 08	7 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.498 lb ae/A (100% of target)	0.500 lb ae/A (100% of target)	0.997 lb ae/A (100% of target)
Application Volume	19.6 GPA	19.9 GPA	19.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R8, 95% leaf drop
Air Temperature	64 °F	82 °F	46 °F
Soil Temperature	72 °F at 2 in.	84 °F at 2 in.	48 °F at 2 in.
Relative Humidity	52%	64%	86%
Wind Velocity /Direction	2-4 mph / ENE	2-3 mph / SSW	3-4 mph / E
Cloud Cover	80%	45%	80%
Soil Moisture at Surface	Dry	Dry	Moist

TABLE XIII: TRIAL MI, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CONKLIN, MICHIGAN (CONTINUED)

Harvest Procedures:	<p><u>Forage:</u> Pruning clippers were used to cut forage samples from the middle rows. Samples were collected by hand.</p> <p><u>Hay:</u> Pruning clippers were used to cut hay samples from the middle rows. Samples were collected by hand, placed at plot edges and allowed to field dry until a moisture content of about 18 - 20% achieved.</p> <p><u>Seed:</u> Soybean plants from inside rows were cut using a Troy-bilt walk-behind sickle bar mower and run through a Bill's Welding portable thresher to obtain seed samples.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate coolers with blue ice for transport to freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	30 Jul 08	30 Jul 08	30 Jul 08
DALA	n/a	33	33
Growth Stage	V10, R3	V10, R3	V10, R3
Plant Height	18 - 22 inches	18 - 22 inches	18 - 22 inches
Samples Shipped Frozen	1 Aug 08	1 Aug 08	1 Aug 08
Samples Received Frozen	7 Aug 08	7 Aug 08	7 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	30 Jul 08	30 Jul 08	
DALA	7	7	
Growth Stage	V10, R3	V10, R3	
Plant Height	18 - 22 inches	18 - 22 inches	
Samples Shipped Frozen	1 Aug 08	1 Aug 08	
Samples Received Frozen	7 Aug 08	7 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	5 Aug 08	5 Aug 08	5 Aug 08
DALA (cut)	n/a	39	39
Sampling Date (collected)	6 Aug 08	6 Aug 08	6 Aug 08
Growth Stage	V12, R4	V12, R4	V12, R4
Plant Height	19 - 24 inches	19 - 24 inches	19 - 24 inches
Samples Shipped Frozen	13 Aug 08	13 Aug 08	13 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	5 Aug 08	5 Aug 08	
DALA (cut)	13	13	
Sampling Date (collected)	6 Aug 08	6 Aug 08	
Growth Stage	V12, R4	V12, R4	
Plant Height	19 - 24 inches	19 - 24 inches	
Samples Shipped Frozen	13 Aug 08	13 Aug 08	
Samples Received Frozen	15 Aug 08	15 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE XIII: TRIAL MI, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CONKLIN, MICHIGAN (CONTINUED)

Sample Collection:	Seed	Seed	Seed			
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)			
Sampling Date	19 Oct 08	19 Oct 08	19 Oct 08			
DALA	n/a	114	114			
Growth Stage	R8	R8	R8			
Plant Height	18 - 22 inches	18 - 22 inches	18 - 22 inches			
Samples Shipped Frozen	27 Oct 08	27 Oct 08	27 Oct 08			
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08			
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck			
Sample Collection:	Seed	Seed	Seed			
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)			
Sampling Date	19 Oct 08	19 Oct 08	19 Oct 08			
DALA	88	88	12			
Growth Stage	R8	R8	R8			
Plant Height	18 - 22 inches	18 - 22 inches	18 - 22 inches			
Samples Shipped Frozen	27 Oct 08	27 Oct 08	27 Oct 08			
Samples Received Frozen	18 Nov 08	18 Nov 08	18 Nov 08			
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck			
Crop Destruction:	6 Nov 08, all plots were mowed with a 10 foot rotary mower followed by disking.					
Actual Climatic Conditions:	May	June	July	August	September	October
Avg. Min. Air Temp., °F ³	46.6	58.3	61.2	58.0	54.8	43.6
Avg. Max. Air Temp., °F ³	69.1	74.6	77.9	78.9	71.8	61.2
Monthly Rainfall, in ³	0.74	4.98	2.80	0.47	9.06	1.85
Irrigation, in ³	0	0	0	0	0	0
Normal Climatic Conditions:						
Avg. Min. Air Temp., °F	47.2	56.2	61.3	60.5	52.4	42.3
Avg. Max. Air Temp., °F	67.4	76.0	80.6	79.0	72.8	59.7
Monthly Rainfall, in	4.32	2.23	2.32	3.02	2.96	2.86

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (23 May 08) until the last sampling event (19 Oct 08).

Rainfall and air temperature were recorded from on-site weather monitoring equipment.

Historical weather data were recorded from a NOAA weather station located 20 miles from the test site.

TABLE XIV: TRIAL MN-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN CAMPBELL, MINNESOTA

Principal Investigator:	Paul Viger Viger Ag Research, Inc. 2575 460th Street Campbell, MN 56522 Phone (218) 630-5593 / Email pviger@agwireless.net
Other Personnel:	None
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 1000 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 23 Jan 09.</p> <p>MON 11955: Received 650 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 23 Jan 09.</p> <p>MON 11958: Received 700 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 23 Jan 09.</p>
Chemical Storage Temperature:	55 to 82 °F
Site Location:	Campbell, Wilkin County, Minnesota (Region 5)
Field History:	<p>2 Jul 06: Soybeans treated with Roundup UltraMax at 1.0 lb ai/A; 21 Jul 06: Soybeans treated with Roundup UltraMax 1.0 lb ai/A.</p> <p>9 Jun 07: Corn treated with Roundup UltraMax at 0.75 lb ai/A.</p>
Target Crop:	Soybeans
Planting Date:	16 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001840. Equipment (cone units) was visually inspected after planting for remaining seed, which was buried in the plot area. Excess seed was devitalized by burning and burying the ashes in the UTC plot. Empty seed container was incinerated on 16 Jun 08.

TABLE XIV: TRIAL MN-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN CAMPBELL, MINNESOTA (CONTINUED)

Seeding Rate:	156,000 seeds per acre	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 150 ft x 20 ft = 3000 ft ² = 0.0689 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	LI-700 non-ionic surfactant 80% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	John Deere 2040 tractor and 3 point mounted sprayer (SP-36) with six AI110015 VS flat fan nozzles by Spraying Systems, spaced 20 inches apart, with 100 mesh nozzle screens at 18 inches above target using CO ₂ (40 psi).	
Soil Type:	Doran Clay Loam	
Plot Maintenance Records:	16 Jun 08: field cultivated. 7 Jul 08: plots rototilled. 15 Jul 08: applied Roundup Ultra Max at 0.75 lb ai/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	20 Jun 08	15 Jul 08
Application Date	20 Jun 08	15 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.500 lb ae/A (100% of target)	0.502 lb ae/A (100% of target)
Application Volume	20.0 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	71 °F	82 °F
Soil Temperature	67 °F at 2 in.	86 °F at 2 in.
Relative Humidity	75%	60%
Wind Velocity /Direction	2-3 mph / NW	1-2 mph / E
Cloud Cover	10%	10%
Soil Moisture at Surface	Dry	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	20 Jun 08	15 Jul 08
Application Date	20 Jun 08	15 Jul 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.003 lb ae/A (100% of target)	1.003 lb ae/A (100% of target)
Application Volume	20.1 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	71 °F	82 °F
Soil Temperature	67 °F at 2 in.	87 °F at 2 in.
Relative Humidity	75%	60%
Wind Velocity /Direction	1-3 mph / NW	1-3 mph / NE
Cloud Cover	10%	10%
Soil Moisture at Surface	Dry	Dry

TABLE XIV: TRIAL MN-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN CAMPBELL, MINNESOTA (CONTINUED)

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	20 Jun 08	15 Jul 08	1 Aug 08
Application Date	20 Jun 08	15 Jul 08	1 Aug 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.999 lb ae/A (100% of target)	0.501 lb ae/A (100% of target)	0.501 lb ae/A (100% of target)
Application Volume	20.0 GPA	20.0 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1 ²
Air Temperature	71 °F	82 °F	82 °F
Soil Temperature	67 °F at 2 in.	86 °F at 2 in.	87 °F at 2 in.
Relative Humidity	75%	60%	45%
Wind Velocity /Direction	2-4 mph / NW	1-2 mph / NE	0-2 mph / S
Cloud Cover	10%	10%	10%
Soil Moisture at Surface	Dry	Dry	Dry
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	15 Jul 08	1 Aug 08	
Application Date	15 Jul 08	1 Aug 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.998 lb ae/A (100% of target)	1.010 lb ae/A (101% of target)	
Application Volume	20.1 GPA	20.1 GPA	
Crop Growth Stage	V3 ¹	R1 ²	
Air Temperature	82 °F	81 °F	
Soil Temperature	87 °F at 2 in.	87 °F at 2 in.	
Relative Humidity	58%	50%	
Wind Velocity /Direction	0-2 mph / NE	0-2 mph / S	
Cloud Cover	10%	10%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	20 Jun 08	15 Jul 08	3 Oct 08
Application Date	20 Jun 08	15 Jul 08	3 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.501 lb ae/A (100% of target)	0.502 lb ae/A (100% of target)	0.999 lb ae/A (100% of target)
Application Volume	20.1 GPA	20.1 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R8, 75% leaf drop
Air Temperature	71 °F	82 °F	60 °F
Soil Temperature	67 °F at 2 in.	86 °F at 2 in.	59 °F at 2 in.
Relative Humidity	75%	60%	40%
Wind Velocity /Direction	2-3 mph / NW	1-2 mph / E	1-3 mph / SE
Cloud Cover	10%	10%	10%
Soil Moisture at Surface	Dry	Dry	Dry

TABLE XIV: TRIAL MN-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN CAMPBELL, MINNESOTA (CONTINUED)

Harvest Procedures:	<p><u>Forage:</u> Grass clippers were used to cut forage samples about 1 inch above the soil line, avoiding plot borders. Samples were collected by hand.</p> <p><u>Hay:</u> A 3 foot wide Jari sickle mower was used to cut hay samples diagonally across the plot about 1- 2 inches above the soil line, avoiding plot borders. Samples were collected by hand, and spread out in the plot and border to field dry to a moisture content of about 15%.</p> <p><u>Seed:</u> Soybean plants were harvested using a Massey MF8 plant combine to obtain seed samples, avoiding border rows.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored coolers with blue ice for transport to freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	8 Aug 08	8 Aug 08	8 Aug 08
DALA	n/a	24	24
Growth Stage	R3 - R4	R3 - R4	R3 - R4
Plant Height	24 - 26 inch	24 - 26 inch	24 - 26 inch
Samples Shipped Frozen	23 Aug 08	23 Aug 08	23 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	8 Aug 08	4 Aug 08	
DALA	7	3	
Growth Stage	R3 - R4	R1 - R2	
Plant Height	24 - 26 inch	18 - 20 inch	
Samples Shipped Frozen	23 Aug 08	23 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 5 (MON 11955)	TRT 5 (MON 11955)	TRT 5 (MON 11955)
Sampling Date	8 Aug 08	11 Aug 08	15 Aug 08
DALA	7	10	14
Growth Stage	R3 - R4	R4	R4
Plant Height	24 - 26 inch	28 - 30 inch	29 - 32 inch
Samples Shipped Frozen	23 Aug 08	23 Aug 08	23 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	15 Aug 08	15 Aug 08	15 Aug 08
DALA (cut)	n/a	31	31
Sampling Date (collected)	18 Aug 08	18 Aug 08	18 Aug 08
Growth Stage	R4	R4	R4
Plant Height	29 - 32 inches	29 - 32 inches	29 - 32 inches
Samples Shipped Frozen	23 Aug 08	23 Aug 08	23 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck

TABLE XIV: TRIAL MN-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN CAMPBELL, MINNESOTA (CONTINUED)

Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	15 Aug 08	15 Aug 08	
DALA (cut)	14	14	
Sampling Date (collected)	18 Aug 08	18 Aug 08	
Growth Stage	R4	R4	
Plant Height	29 - 32 inches	29 - 32 inches	
Samples Shipped Frozen	23 Aug 08	23 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	18 Oct 08	18 Oct 08	18 Oct 08
DALA	n/a	95	95
Growth Stage	Mature	Mature	Mature
Plant Height	29 - 31 inches	29 - 31 inches	29 - 31 inches
Samples Shipped Frozen	13 Nov 08	13 Nov 08	13 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 7 (MON 54140)	TRT 5 (MON 11955)
Sampling Date	18 Oct 08	18 Oct 08	18 Oct 08
DALA	78	15	78 (7 days pre-harvest)
Growth Stage	Mature	Mature	Mature
Plant Height	29 - 31 inches	29 - 31 inches	29 - 31 inches
Samples Shipped Frozen	13 Nov 08	13 Nov 08	13 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 5 (MON 11955)	TRT 5 (MON 11955)	TRT 5 (MON 11955)
Sampling Date	28 Oct 08	1 Nov 08	9 Nov 08
DALA	88 (+3 days normal harvest)	92 (7 days post- normal harvest)	100(15 days post-normal harvest)
Growth Stage	Mature	Mature	Mature
Plant Height	30 inches	30 inches	30 inches
Samples Shipped Frozen	13 Nov 08	13 Nov 08	13 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Crop Destruction:	19 Oct 08, all soybeans in TRTs 1,2,3,4,and 7 were combined and seed dumped back into the plots. Plots were disked to bury the seed in the soil. TRT 5 plot was disked after samples were collected on 9 Nov 08.		

TABLE XIV: TRIAL MN-1, SUMMARY OF 2008 SOYBEAN RAC AND DECLINE TRIAL IN CAMPBELL, MINNESOTA (CONTINUED)

Actual Climatic Conditions:	June	July	August	September	October	November
Avg. Min. Air Temp., °F ³	56.8	59.0	57.7	48.6	37.1	35.1
Avg. Max. Air Temp., °F ³	79.8	81.9	81.9	71.7	56.2	49.8
Monthly Rainfall, in ³	1.20	2.73	5.25	7.04	5.31	0.65
Irrigation, in ³	0	0	0	0	0	0
Normal Climatic Conditions:						
Avg. Min. Air Temp., °F	54.3	58.3	56.1	46.0	33.3	18.6
Avg. Max. Air Temp., °F	78.2	83.0	82.0	71.9	58.5	37.6
Monthly Rainfall, in	3.72	3.58	2.59	2.16	1.85	.95

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (20 Jun 08) until the last sampling event (9 Nov 08).

Rainfall and air temperature data were recorded from on-site weather monitoring equipment.
Historical weather data were recorded from a NOAA weather station located 2 miles from the test site.

FIGURE N: PLOT DIAGRAM FOR TRIAL MN-1, LOCATED IN CAMPBELL, MINNESOTA

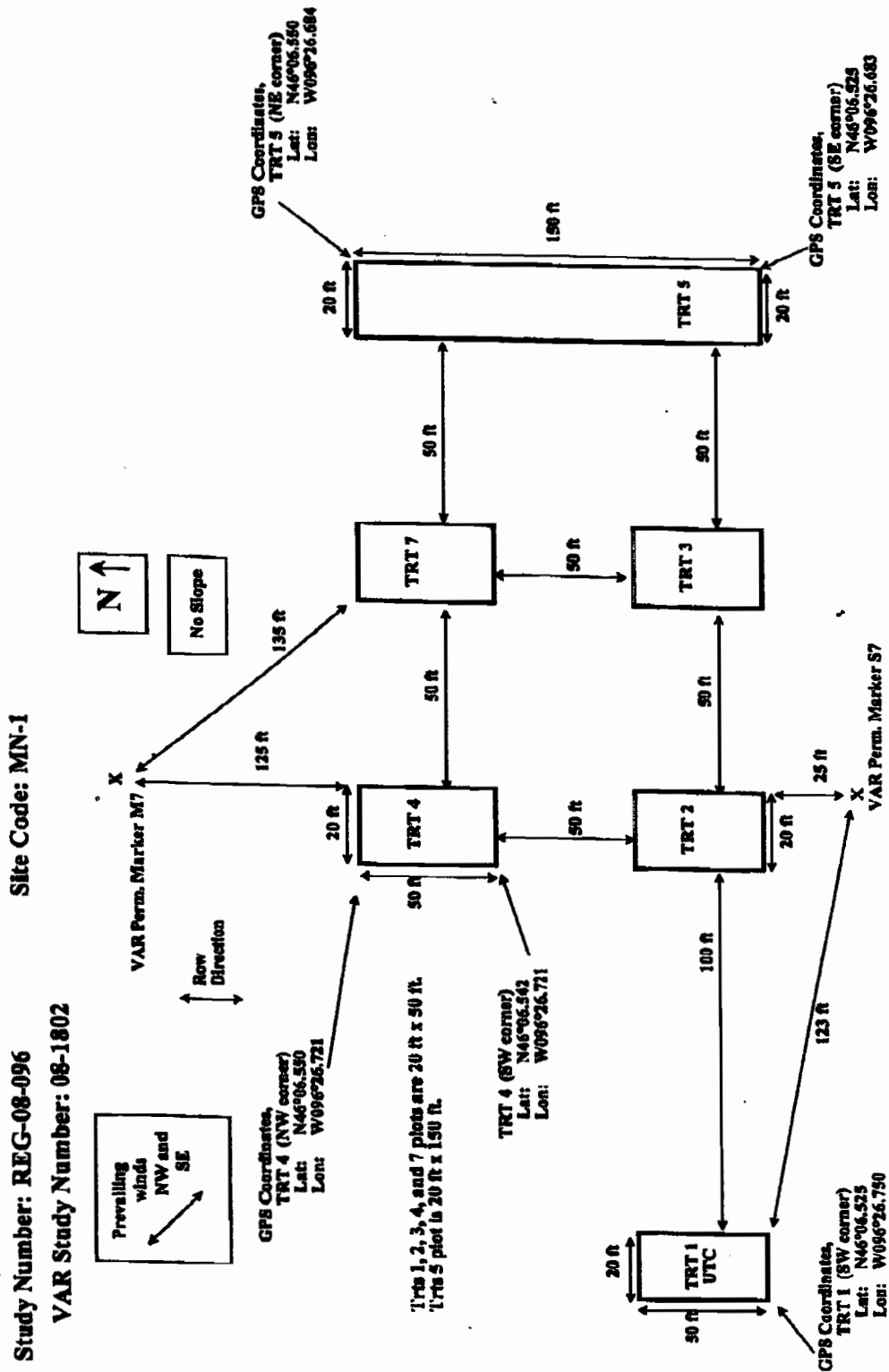


TABLE XV: TRIAL MN-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN FERGUS FALLS, MINNESOTA

Principal Investigator:	Paul Viger Viger Ag Research, Inc. 2575 460th Street Campbell, MN 56522 Phone (218) 630-5593 / Email pviger@agwireless.net
Other Personnel:	None
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 1000 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 23 Jan 09.</p> <p>MON 11955: Received 650 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 23 Jan 09.</p> <p>MON 11958: Received 700 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 23 Jan 09.</p>
Chemical Storage Temperature:	55 to 82 °F
Site Location:	Fergus Falls, Ottertail County, Minnesota (Region 5)
Field History:	<p>13 Jun 06: Soybeans treated with Roundup UltraMax at 22 fl oz/A; 5 Jul 06: Soybeans treated with Roundup UltraMax at 16 fl oz/A; 5 Jul 06: Soybeans treated with Asana XL at 6.4 fl oz/A.</p> <p>19 Jun 07: Corn treated with Roundup UltraMax at 1 qt/A.</p>
Target Crop:	Soybeans
Planting Date:	8 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001840. Equipment (cone units) was visually inspected after planting for remaining seed, which was buried in the plot area. Excess seed was devitalized by burning and burying the ashes in the UTC plot. Empty seed container was incinerated on 8 Jun 08.

TABLE XV: TRIAL MN-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN FERGUS FALLS, MINNESOTA (CONTINUED)

Seeding Rate:	156,000 seeds per acre	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 6: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	LI-700 non-ionic surfactant 80% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	John Deere 2040 tractor and 3 point mounted sprayer (SP-36) with six AI110015 VS flat fan nozzles by Spraying Systems, spaced 20 inches apart, with 100 mesh nozzle screens at 18 inches above target using CO ₂ (40 psi).	
Soil Type:	Barnes-Buse Complex (Loam)	
Plot Maintenance Records:	8 Jun 08: field cultivated. 3 Jul 08: applied Roundup Ultra Max at 0.75 lb ai/A. 10 Jul 08: plots rototilled. 28 Jul 08: applied Asana XL at 9.6 fl oz/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	17 Jun 08	14 Jul 08
Application Date	17 Jun 08	14 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.502 lb ae/A (100% of target)	0.500 lb ae/A (100% of target)
Application Volume	20.1 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	66 °F	67 °F
Soil Temperature	72 °F at 2 in.	70 °F at 2 in.
Relative Humidity	55%	80%
Wind Velocity /Direction	2-3 mph / NW	1-3 mph / SSE
Cloud Cover	10%	10%
Soil Moisture at Surface	Dry	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	17 Jun 08	14 Jul 08
Application Date	17 Jun 08	14 Jul 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.001 lb ae/A (100% of target)	1.002 lb ae/A (100% of target)
Application Volume	20.0 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	68 °F	71 °F
Soil Temperature	75 °F at 2 in.	72 °F at 2 in.
Relative Humidity	50%	70%
Wind Velocity /Direction	1-4 mph / NW	1-4 mph / SSE
Cloud Cover	10%	10%
Soil Moisture at Surface	Dry	Dry

TABLE XV: TRIAL MN-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN FERGUS FALLS, MINNESOTA (CONTINUED)

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	17 Jun 08	14 Jul 08	1 Aug 08
Application Date	17 Jun 08	14 Jul 08	1 Aug 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.001 lb ae/A (100% of target)	0.502 lb ae/A (100% of target)	0.501 lb ae/A (100% of target)
Application Volume	20.1 GPA	20.1 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R2 ²
Air Temperature	69 °F	68 °F	80 °F
Soil Temperature	75 °F at 2 in.	70 °F at 2 in.	85 °F at 2 in.
Relative Humidity	50%	78%	35%
Wind Velocity /Direction	1-3 mph / NW	1-3 mph / SSE	0-2 mph / NW
Cloud Cover	10%	10%	10%
Soil Moisture at Surface	Dry	Dry	Dry
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	14 Jul 08	1 Aug 08	
Application Date	14 Jul 08	1 Aug 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.001 lb ae/A (100% of target)	1.004 lb ae/A (100% of target)	
Application Volume	20.0 GPA	20.1 GPA	
Crop Growth Stage	V3 ¹	R2 ²	
Air Temperature	70 °F	81 °F	
Soil Temperature	71 °F at 2 in.	86 °F at 2 in.	
Relative Humidity	70%	35%	
Wind Velocity /Direction	1-3 mph / SSE	0-2 mph / NW	
Cloud Cover	10%	10%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 6 (MON 54140)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	14 Jul 08	1 Aug 08	
Application Date	14 Jul 08	1 Aug 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.003 lb ae/A (100% of target)	1.000 lb ae/A (100% of target)	
Application Volume	20.1 GPA	20.0 GPA	
Crop Growth Stage	V3 ¹	R2 ²	
Air Temperature	69 °F	81 °F	
Soil Temperature	71 °F at 2 in.	86 °F at 2 in.	
Relative Humidity	72%	35%	
Wind Velocity /Direction	1-4 mph / SSE	1-2 mph / NW	
Cloud Cover	10%	10%	
Soil Moisture at Surface	Dry	Dry	

TABLE XV: TRIAL MN-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN FERGUS FALLS, MINNESOTA (CONTINUED)

Application Information:		TRT 7 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	17 Jun 08	14 Jul 08	3 Oct 08
Application Date	17 Jun 08	14 Jul 08	3 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.500 lb ae/A (100% of target)	0.501 lb ae/A (100% of target)	1.001 lb ae/A (100% of target)
Application Volume	20.0 GPA	20.1 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R8, 85-90% leaf drop
Air Temperature	66 °F	67 °F	55 °F
Soil Temperature	73 °F at 2 in.	70 °F at 2 in.	58 °F at 2 in.
Relative Humidity	55%	80%	50%
Wind Velocity /Direction	2-3 mph / NW	1-3mph / SSE	1-2 mph / NE
Cloud Cover	10%	10%	20%
Soil Moisture at Surface	Dry	Dry	Dry
Harvest Procedures:	<u>Forage:</u> Grass clippers were used to cut forage samples about 1 inch above the soil line, avoiding plot borders. Samples were collected by hand. <u>Hay:</u> A 3 foot wide Jari sickle mower was used to cut hay samples diagonally across the plot about 1- 2 inches above the soil line, avoiding plot borders. Samples were collected by hand; some samples were placed into mesh bags and hung from a post to dry, other samples were left to field dry to a moisture content of about 15%. <u>Seed:</u> Soybean plants were harvested using a Massey MF8 plant combine to obtain seed samples, avoiding border rows. <u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored coolers with blue ice for transport to freezers.		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	8 Aug 08	8 Aug 08	8 Aug 08
DALA	n/a	25	25
Growth Stage	R4	R4	R4
Plant Height	24 - 26 inches	20 - 24 inches	23 - 25 inches
Samples Shipped Frozen	23 Aug 08	23 Aug 08	23 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Sampling Date	8 Aug 08	8 Aug 08	8 Aug 08
DALA	7	7	7
Growth Stage	R4	R4	R4
Plant Height	24 - 26 inches	24 - 26 inches	24 - 26 inches
Samples Shipped Frozen	23 Aug 08	23 Aug 08	23 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck

TABLE XV: TRIAL MN-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN FERGUS FALLS, MINNESOTA (CONTINUED)

Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	16 Aug 08	16 Aug 08	16 Aug 08
DALA (cut)	n/a	33	33
Sampling Date (collected)	19 Aug 08	19 Aug 08	19 Aug 08
Growth Stage	R4	R4	R4
Plant Height	30 inches	25 inches	27 inches
Samples Shipped Frozen	23 Aug 08	23 Aug 08	23 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Cut Date	16 Aug 08	16 Aug 08	16 Aug 08
DALA (cut)	15	15	15
Sampling Date (collected)	19 Aug 08	19 Aug 08	19 Aug 08
Growth Stage	R4	R4	R4
Plant Height	30 inches	30 inches	29 inches
Samples Shipped Frozen	23 Aug 08	23 Aug 08	23 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	18 Oct 08	18 Oct 08	18 Oct 08
DALA	n/a	96	96
Growth Stage	Mature	Mature	Mature
Plant Height	31 inches	26 inches	28 inches
Samples Shipped Frozen	13 Nov 08	13 Nov 08	13 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 6 (MON 54140)
Sampling Date	18 Oct 08	18 Oct 08	18 Oct 08
DALA	78	78	78
Growth Stage	Mature	Mature	Mature
Plant Height	32 inches	31 inches	30 inches
Samples Shipped Frozen	13 Nov 08	13 Nov 08	13 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed		
Treatment Sampled	TRT 7 (MON 54140)		
Sampling Date	18 Oct 08		
DALA	15		
Growth Stage	Mature		
Plant Height	30 inches		
Samples Shipped Frozen	13 Nov 08		
Samples Received Frozen	20 Nov 08		
Shipment Method	ACDS Freezer Truck		
Crop Destruction:	18 Oct 08, all soybeans were combined and seed dumped back into the plots. Plots were disked to bury the seed in the soil.		

TABLE XV: TRIAL MN-2, SUMMARY OF 2008 SOYBEAN RAC AND BRIDGING TRIAL IN FERGUS FALLS, MINNESOTA (CONTINUED)

Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	56.6	59.0	57.7	48.6	40.1
Avg. Max. Air Temp., °F ³	80.0	81.9	81.9	71.7	59.4
Monthly Rainfall, in ³	1.02	3.59	1.89	3.65	3.47
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	54.3	58.3	56.1	46.0	33.3
Avg. Max. Air Temp., °F	78.2	83.0	82.0	71.9	58.5
Monthly Rainfall, in	3.72	3.58	2.59	2.16	1.85

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (17 Jun 08) until the last sampling event (18 Oct 08).

Rainfall was recorded from weather monitoring equipment located at the test site.

Air temperature data were recorded from weather monitoring equipment located 20 miles from the test site.

Historical weather data were recorded from a NOAA weather station located 20 miles from the test site.

Slite Code: MN-2

Study Number: REC-08-096

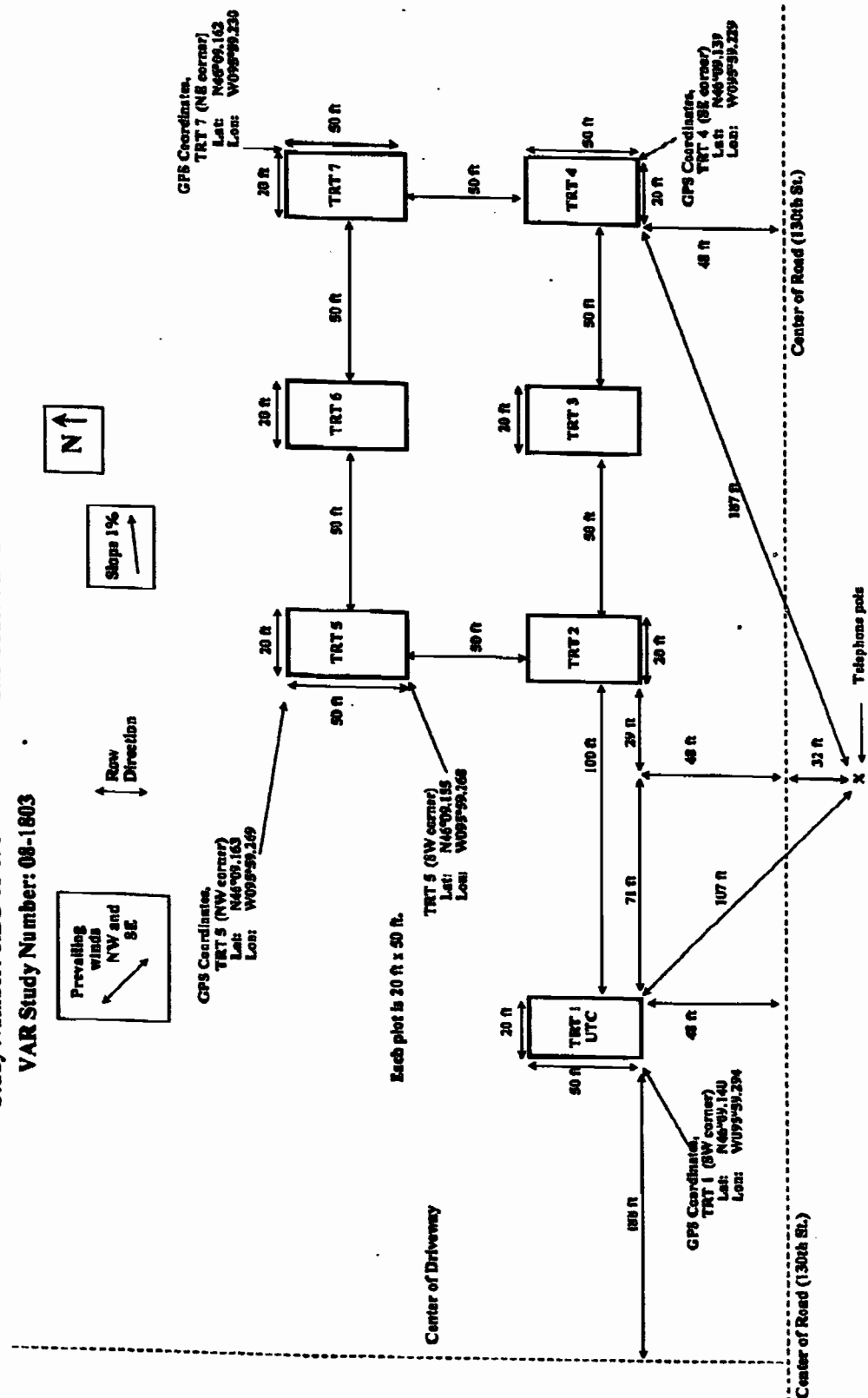
VAR Study Number: 08-1803

TABLE XVI: TRIAL NE-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN YORK, NEBRASKA

Principal Investigator:	Jess Spotanski Midwest Research, Inc. 910 Road 15 York, NE 68467 Phone (402) 362-2589 / Email jess_spotanski@mainstaycomm.net
Other Personnel:	Heather E. Hajek and Ron Spotanski
Test Substance Identification:	<p>Test Substance 1 Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p>Test Substance 2 Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p>Test Substance 3 Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 1 liter of test substance on 7 May 08. Excess test substance was returned to the sponsor on 15 Oct 08.</p> <p>MON 11955: Received 650 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 15 Oct 08.</p> <p>MON 11958: Received 700 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 15 Oct 08.</p>
Chemical Storage Temperature:	55 to 84 °F
Site Location:	York, York County, Nebraska (Region 5)
Field History:	<p>6 Jun 06: Soybeans treated with Glyphosate at 1 lb ai/A.</p> <p>Jun 07: Soybeans treated with Glyphosate at 1 lb ai/A; Jun 07: Soybeans treated with Cobra at 12.5 oz/A.</p>
Target Crop:	Soybeans
Planting Date:	3 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001820. Planting equipment was visually inspected and blown out with compressed air after planting. All seed was planted. No seed remained. Empty seed container was incinerated on 24 Oct 08.

TABLE XVI: TRIAL NE-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN YORK, NEBRASKA (CONTINUED)

Seeding Rate:	149,000 seeds per acre (9 seeds/row ft)	
Rows per Plot:	12 rows for TRT 1 and TRT 8, 4 rows for TRT 2 - 7	
Row Width:	30 inches	
Plot Size:	Trt 1: 120 ft x 30 ft = 3600 ft ² = 0.0826 A Trt 2: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 3: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 4: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 5: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 7: 100 ft x 10 ft = 1000 ft ² = 0.0230 A Trt 8: 120 ft x 30 ft = 3600 ft ² = 0.0826 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Cornbelt Premier 90 non-ionic surfactant and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	IH tractor #00222 with three point mounted sprayer with boom #00177, eight TeeJet 110015XR flat fan nozzles spaced 15 inches apart, with 50 mesh nozzle screens, at 8-10 inches above target using compressed air (20 psi).	
Soil Type:	Hastings Silt Loam	
Plot Maintenance Records:	2 Jun 08: Discd and field cultivated plots. 3 Jun 08; cultivated field and applied Boundary at 2.1 pts/A. 16 Aug 08: applied Lorsban 4E at 1.00 pt/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	4 Jun 08	30 Jun 08
Application Date	4 Jun 08	30 Jun 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.506 lb ae/A (101% of target)	0.501 lb ae/A (100% of target)
Application Volume	19.9 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	77 °F	83 °F
Soil Temperature	72 °F at 2 in.	82 °F at 2 in.
Relative Humidity	71%	29%
Wind Velocity /Direction	2-3 mph / ESE	0-2 mph / WNW
Cloud Cover	40%	20%
Soil Moisture at Surface	Moist	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	4 Jun 08	30 Jun 08
Application Date	4 Jun 08	30 Jun 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.003 lb ae/A (100% of target)	0.995 lb ae/A (100% of target)
Application Volume	20.1 GPA	19.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	77 °F	83 °F
Soil Temperature	72 °F at 2 in.	82 °F at 2 in.

TABLE XVI: TRIAL NE-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN YORK, NEBRASKA (CONTINUED)

Application Information:	TRT 3 (MON 11958) continued		
Relative Humidity	71%	29%	
Wind Velocity /Direction	2-3 mph / ESE	0-2 mph / WNW	
Cloud Cover	40%	20%	
Soil Moisture at Surface	Moist	Dry	
Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	4 Jun 08	30 Jun 08	21 Jul 08
Application Date	4 Jun 08	30 Jun 08	21 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.007 lb ae/A (101% of target)	0.502 lb ae/A (100% of target)	0.500 lb ae/A (100% of target)
Application Volume	20.1 GPA	20.0 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R2 ²
Air Temperature	77 °F	83 °F	83 °F
Soil Temperature	72 °F at 2 in.	82 °F at 2 in.	78 °F at 2 in.
Relative Humidity	71%	29%	63%
Wind Velocity /Direction	2-3 mph / ESE	0-2 mph / WNW	0-1 mph / E
Cloud Cover	40%	20%	60%
Soil Moisture at Surface	Moist	Dry	Moist
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	30 Jun 08	21 Jul 08	
Application Date	30 Jun 08	21 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.000 lb ae/A (100% of target)	1.004 lb ae/A (100% of target)	
Application Volume	20.0 GPA	20.1 GPA	
Crop Growth Stage	V3 ¹	R2 ²	
Air Temperature	83 °F	83 °F	
Soil Temperature	82 °F at 2 in.	78 °F at 2 in.	
Relative Humidity	29%	63%	
Wind Velocity /Direction	0-2 mph / WNW	0-1 mph / E	
Cloud Cover	20%	60%	
Soil Moisture at Surface	Dry	Moist	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	4 Jun 08	30 Jun 08	2 Oct 08
Application Date	4 Jun 08	30 Jun 08	2 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.509 lb ae/A (102% of target)	0.497 lb ae/A (99% of target)	1.005 lb ae/A (101% of target)
Application Volume	20.1 GPA	19.8 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	75% leaf drop
Air Temperature	77 °F	83 °F	69 °F
Soil Temperature	72 °F at 2 in.	82 °F at 2 in.	57 °F at 2 in.
Relative Humidity	71%	29%	35%
Wind Velocity /Direction	2-3 mph / ESE	0-2 mph / WNW	0-2 mph / SW
Cloud Cover	40%	20%	0%
Soil Moisture at Surface	Moist	Dry	Dry

TABLE XVI: TRIAL NE-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN YORK, NEBRASKA (CONTINUED)

Application Information:		TRT 8 (MON 54140)	
Application Timing	Pre-emergence	R1/R2 ² Postemergence	
Calibration Date	4 Jun 08	21 Jul 08	
Application Date	4 Jun 08	21 Jul 08	
Target Application Rate	1.0 lb ae/A	2.0 lb ae/A	
Actual Application Rate	1.006 lb ae/A (101% of target)	2.058 lb ae/A (103% of target)	
Application Volume	20.0 GPA	20.6 GPA	
Crop Growth Stage	Pre-emergence	R2 ²	
Air Temperature	77 °F	83 °F	
Soil Temperature	72 °F at 2 in.	78 °F at 2 in.	
Relative Humidity	71%	63%	
Wind Velocity /Direction	2-3 mph / ESE	0-1 mph / E	
Cloud Cover	40%	60%	
Soil Moisture at Surface	Moist	Moist	
Harvest Procedures:	<p><u>Forage:</u> A hook knife was used to cut forage samples in a zig-zag pattern within the plot, avoiding plot borders. Samples were collected by hand.</p> <p><u>Hay:</u> A hook knife was used to cut hay samples in a zig-zag pattern within the plot about 2 inches above the soil line, avoiding plot borders. Samples were collected by hand, transported to Midwest Research facilities and onto drying racks to air dry to a moisture content of about 20%.</p> <p><u>Seed:</u> A combine harvester was used to obtain seed samples from middle rows, avoiding border rows.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored coolers with blue ice for transport to freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	28 Jul 08	28 Jul 08	28 Jul 08
DALA	n/a	28	28
Growth Stage	BBCH 67	BBCH 67	BBCH 67
Plant Height	Avg. 36 inches	Avg. 36 inches	Avg. 36 inches
Samples Shipped Frozen	21 Aug 08	21 Aug 08	21 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	28 Jul 08	28 Jul 08	
DALA	7	7	
Growth Stage	BBCH 67	BBCH 67	
Plant Height	Avg. 36 inches	Avg. 36 inches	
Samples Shipped Frozen	21 Aug 08	21 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE XVI: TRIAL NE-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN YORK, NEBRASKA (CONTINUED)

Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	4 Aug 08	4 Aug 08	4 Aug 08
DALA (cut)	n/a	35	35
Sampling Date (collected)	13 Aug 08	13 Aug 08	13 Aug 08
Growth Stage	BBCH 70	BBCH 70	BBCH 70
Plant Height	39 inches	39 inches	39 inches
Samples Shipped Frozen	21 Aug 08	21 Aug 08	21 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	4 Aug 08	4 Aug 08	
DALA (cut)	14	14	
Sampling Date (collected)	13 Aug 08	13 Aug 08	
Growth Stage	BBCH 70	BBCH 70	
Plant Height	39 inches	39 inches	
Samples Shipped Frozen	21 Aug 08	21 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	16 Oct 08	16 Oct 08	16 Oct 08
DALA	n/a	108	108
Growth Stage	BBCH 99	BBCH 99	BBCH 99
Plant Height	39 inches	39 inches	41 inches
Samples Shipped Frozen	21 Oct 08	21 Oct 08	21 Oct 08
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)
Sampling Date	16 Oct 08	16 Oct 08	16 Oct 08
DALA	87	87	14
Growth Stage	BBCH 99	BBCH 99	BBCH 99
Plant Height	38 inches	37 inches	42 inches
Samples Shipped Frozen	21 Oct 08	21 Oct 08	21 Oct 08
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed		
Treatment Sampled	TRT 8 (MON 54140)		
Sampling Date	16 Oct 08		
DALA	87		
Growth Stage	BBCH 99		
Plant Height	42 inches		
Samples Shipped Frozen	21 Oct 08		
Samples Received Frozen	27 Oct 08		
Shipment Method	ACDS Freezer Truck		
Crop Destruction:	30 Oct 08, all plots were rototilled to a depth of 3-4 inches and the seed was buried into the soil with the crop.		

TABLE XVI: TRIAL NE-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN YORK, NEBRASKA (CONTINUED)

Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	60	65	60	52	47
Avg. Max. Air Temp., °F ³	82	86	82	76	69
Monthly Rainfall, in ³	5.68	4.17	1.45	2.37	3.90
Irrigation, in ³	0	0	3.4	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	60	66	63	53	41
Avg. Max. Air Temp., °F	84	90	88	81	67
Monthly Rainfall, in	3.60	2.59	2.83	2.31	2.08

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (4 Jun 08) until the last sampling event (16 Oct 08).

Rainfall and air temperature were recorded from weather instruments located <0.5 mile from the test site. Historical weather data were recorded on-site since 2007, and recorded from archived weather data for previous years.

FIGURE P: PLOT DIAGRAM FOR TRIAL NE-1, LOCATED IN YORK, NEBRASKA

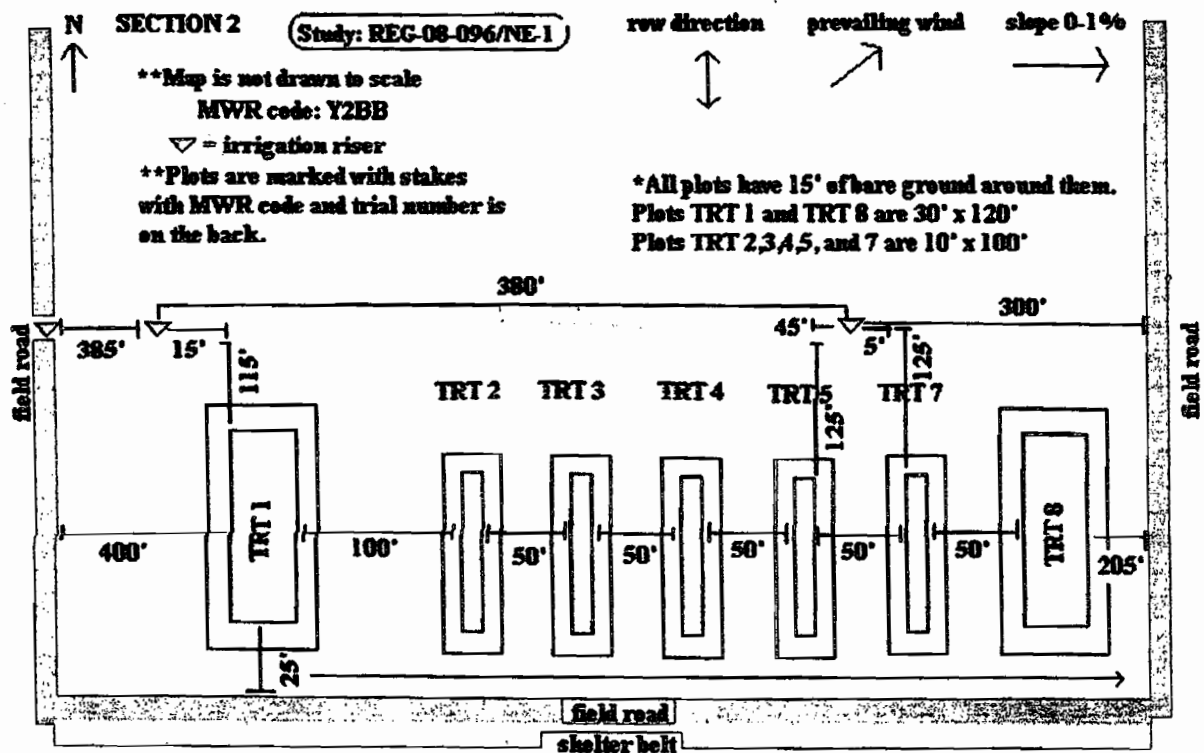


TABLE XVII: TRIAL NE-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN OSCEOLA, NEBRASKA

Principal Investigator:	Jess Spotanski Midwest Research, Inc. 910 Road 15 York, NE 68467 Phone (402) 362-2589 / Email jess_spotanski@mainstaycomm.net
Other Personnel:	Heather E. Hajek and Ron Spotanski
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 1 liter of test substance on 7 May 08. Excess test substance was returned to the sponsor on 15 Oct 08.</p> <p>MON 11955: Received 650 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 15 Oct 08.</p> <p>MON 11958: Received 700 mL of test substance on 7 May 08. Excess test substance was returned to the sponsor on 15 Oct 08.</p>
Chemical Storage Temperature:	55 to 84 °F
Site Location:	Osceola, Polk County, Nebraska (Region 5)
Field History:	<p>Jun 06: Soybeans treated with Dual II Magnum at 1.27 lb ai/A; Jun 06: Soybeans treated with Glyphosate at 1 lb ai/A.</p> <p>Jun 07: Soybeans treated with Glyphosate at 1 lb ai/A.</p>
Target Crop:	Soybeans
Planting Date:	16 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001820. Planting equipment was visually inspected and blown out with compressed air after planting. All seed was planted. No seed remained. Empty seed container was incinerated on 6 Nov 08.

TABLE XVII: TRIAL NE-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN OSCEOLA, NEBRASKA (CONTINUED)

Seeding Rate:	145,000 seeds per acre (9 seeds/row ft)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Cornbelt Premier 90 non-ionic surfactant and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	IH tractor #00222 with three point mounted sprayer with boom #00177, eight TeeJet 110015XR flat fan nozzles spaced 15 inches apart, with 50 mesh nozzle screens, at 8-10 inches above target using compressed air (20 psi).	
Soil Type:	Alda Sandy Loam	
Plot Maintenance Records:	16 Jun 08: rototilled plots and applied Dual II Magnum at 1.0 pt/A and Reflex at 1.0 pt/A. 15 Jul 08: applied Glyphosate at 1 qt/A. 14 Aug 08: applied Mustang Max at 4 oz/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	17 Jun 08	12 Jul 08
Application Date	17 Jun 08	12 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.495 lb ae/A (99% of target)	0.499 lb ae/A (100% of target)
Application Volume	19.5 GPA	19.9 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	71 °F	72 °F
Soil Temperature	66 °F at 2 in.	70 °F at 2 in.
Relative Humidity	68%	50%
Wind Velocity /Direction	0 mph / calm	0 mph / calm
Cloud Cover	30%	80%
Soil Moisture at Surface	Moist	Moist
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	17 Jun 08	12 Jul 08
Application Date	17 Jun 08	12 Jul 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.975 lb ae/A (98% of target)	1.003 lb ae/A (100% of target)
Application Volume	19.5 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	71 oF	72 oF
Soil Temperature	66 oF at 2 in.	70 oF at 2 in.
Relative Humidity	68%	50%
Wind Velocity /Direction	0 mph / calm	0 mph / calm
Cloud Cover	30%	80%
Soil Moisture at Surface	Moist	Moist

TABLE XVII: TRIAL NE-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN OSCEOLA, NEBRASKA (CONTINUED)

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	17 Jun 08	12 Jul 08	30 Jul 08
Application Date	17 Jun 08	12 Jul 08	30 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.979 lb ae/A (98% of target)	0.500 lb ae/A (100% of target)	0.505 lb ae/A (101% of target)
Application Volume	19.5 GPA	20.0 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1/R2 ²
Air Temperature	71 °F	72 °F	93 °F
Soil Temperature	66 °F at 2 in.	70 °F at 2 in.	90 °F at 2 in.
Relative Humidity	68%	50%	51%
Wind Velocity /Direction	0 mph / calm	0 mph / calm	0 mph / calm
Cloud Cover	30%	80%	25%
Soil Moisture at Surface	Moist	Moist	Moist
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	12 Jul 08	30 Jul 08	
Application Date	12 Jul 08	30 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.011 lb ae/A (101% of target)	1.012 lb ae/A (101% of target)	
Application Volume	20.2 GPA	20.2 GPA	
Crop Growth Stage	V3 ¹	R1/R2 ²	
Air Temperature	72 °F	93 °F	
Soil Temperature	70 °F at 2 in.	90 °F at 2 in.	
Relative Humidity	50%	51%	
Wind Velocity /Direction	0 mph / calm	0 mph / calm	
Cloud Cover	80%	25%	
Soil Moisture at Surface	Moist	Moist	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	17 Jun 08	12 Jul 08	9 Oct 08
Application Date	17 Jun 08	12 Jul 08	9 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.496 lb ae/A (99% of target)	0.503 lb ae/A (101% of target)	1.025 lb ae/A (102% of target)
Application Volume	19.5 GPA	20.1 GPA	20.5 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	75% leaf drop
Air Temperature	71 °F	72 °F	58 °F
Soil Temperature	66 °F at 2 in.	70 °F at 2 in.	52 °F at 2 in.
Relative Humidity	68%	50%	64%
Wind Velocity /Direction	0 mph / calm	0 mph / calm	0 mph / calm
Cloud Cover	30%	80%	70%
Soil Moisture at Surface	Moist	Moist	Dry

TABLE XVII: TRIAL NE-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN OSCEOLA, NEBRASKA (CONTINUED)

Harvest Procedures:	<p><u>Forage:</u> A hook knife was used to cut forage samples in a zig-zag pattern within the plot, avoiding plot borders. Samples were collected by hand.</p> <p><u>Hay:</u> A hook knife was used to cut hay samples in a zig-zag pattern within the plot about 2 inches above the soil line, avoiding plot borders. Samples were collected by hand, transported to Midwest Research facilities and onto drying racks to air dry to a moisture content of about 18 - 20%.</p> <p><u>Seed:</u> A combine harvester was used to obtain seed samples from middle rows, avoiding border rows.</p> <p>For all matrices: UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored coolers with blue ice for transport to freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	7 Aug 08	7 Aug 08	7 Aug 08
DALA	n/a	26	26
Growth Stage	Full Flower	Full Flower	Full Flower
Plant Height	18 inches	18 inches	18 inches
Samples Shipped Frozen	21 Aug 08	21 Aug 08	21 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	7 Aug 08	7 Aug 08	
DALA	8	8	
Growth Stage	Full Flower	Full Flower	
Plant Height	18 inches	18 inches	
Samples Shipped Frozen	21 Aug 08	21 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	13 Aug 08	13 Aug 08	13 Aug 08
DALA (cut)	n/a	32	32
Sampling Date (collected)	18 Aug 08	18 Aug 08	18 Aug 08
Growth Stage	Full Bloom	Full Bloom	Full Bloom
Plant Height	~18 - 20 inches	~18 - 20 inches	~18 - 20 inches
Samples Shipped Frozen	21 Aug 08	21 Aug 08	21 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	13 Aug 08	13 Aug 08	
DALA (cut)	14	14	
Sampling Date (collected)	18 Aug 08	18 Aug 08	
Growth Stage	Full Bloom	Full Bloom	
Plant Height	~18 - 20 inches	~18 - 20 inches	
Samples Shipped Frozen	21 Aug 08	21 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE XVII: TRIAL NE-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN OSCEOLA, NEBRASKA (CONTINUED)

Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)		
Sampling Date	24 Oct 08	24 Oct 08	24 Oct 08		
DALA	n/a	104	104		
Growth Stage	Mature	Mature	Mature		
Plant Height	18 inches	19 inches	19 inches		
Samples Shipped Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)		
Sampling Date	24 Oct 08	24 Oct 08	24 Oct 08		
DALA	86	86	15		
Growth Stage	Mature	Mature	Mature		
Plant Height	20 inches	20 inches	20 inches		
Samples Shipped Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Crop Destruction:	5 Nov 08, all plots were rototilled to a depth of 3-4 inches and the seed was buried into the soil with the crop.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	58	63	58	50	42
Avg. Max. Air Temp., °F ³	89	90	87	79	66
Monthly Rainfall, in ³	1.44	3.05	1.46	2.40	6.10
Irrigation, in ³	0	0.90	4.70	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	60	66	64	53	41
Avg. Max. Air Temp., °F	82	87	85	79	65
Monthly Rainfall, in	3.62	2.32	3.24	2.32	1.86

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliolate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (17 Jun 08) until the last sampling event (24 Oct 08).

Rainfall and air temperature were recorded from weather instruments located <0.5 mile from the test site. Historical weather data were recorded from a weather station located 8.5 miles from the test site.

FIGURE Q: PLOT DIAGRAM FOR TRIAL NE-2, LOCATED IN OSCEOLA, NEBRASKA

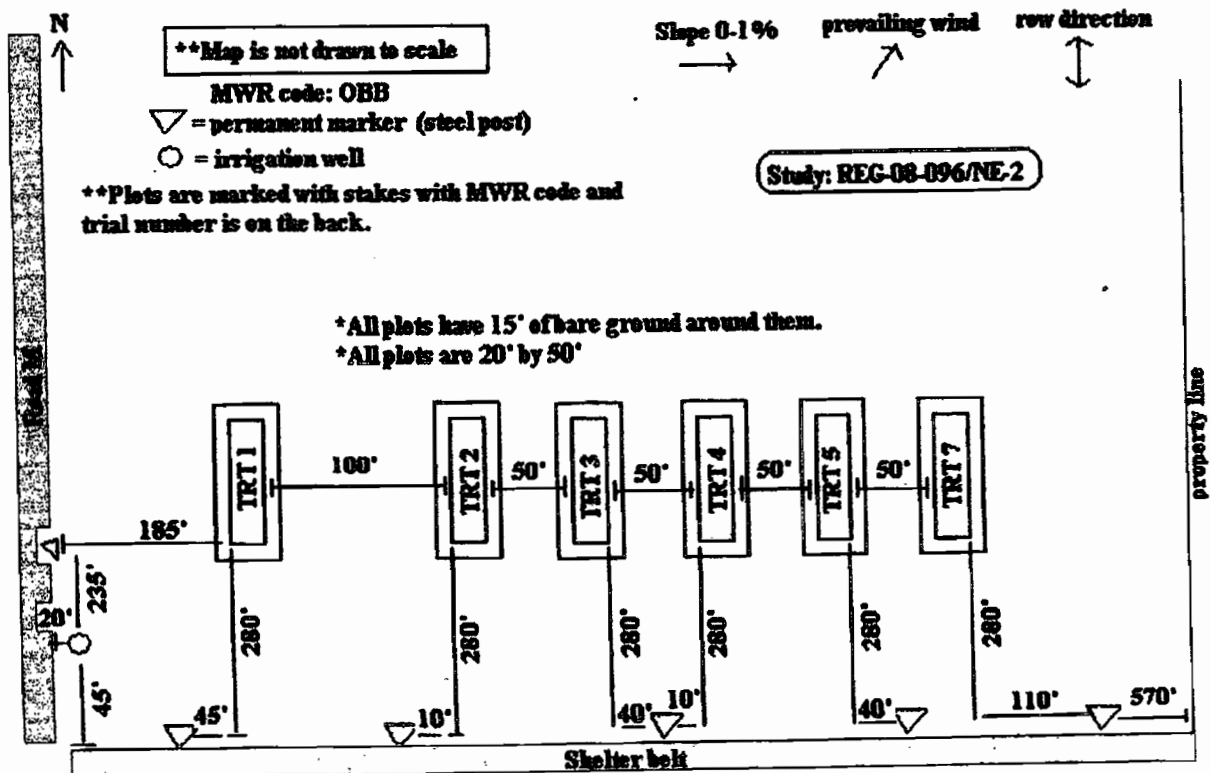


TABLE XVIII: TRIAL ND-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CARRINGTON, NORTH DAKOTA

Principal Investigator:	Curt Lee Agro-Tech, Inc. 4489 Highway 41 North Velva, ND 58790 Phone (701) 338-2589 / Email agrotec@srt.com
Other Personnel:	Devin Morey
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 2 Dec 08.</p> <p>MON 11955: Received 250 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 2 Dec 08.</p> <p>MON 11958: Received 350 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 2 Dec 08.</p>
Chemical Storage Temperature:	61 to 88 °F
Site Location:	Carrington, Foster County, North Dakota (Region 5)
Field History:	<p>May 06: Soybeans treated with glyphosate at 0.38 lb ai/A. Jun 06: Soybeans treated with glyphosate at 0.38 lb ai/A. Sep 06: Soybeans treated with glyphosate at 0.38 lb ai/A.</p> <p>May 07: No crop treated with glyphosate at 0.38 lb ai/A. Jun 07: No crop treated with glyphosate at 0.38 lb ai/A. Jul 07: No crop treated with glyphosate at 0.38 lb ai/A.</p>
Target Crop:	Soybeans
Planting Date:	23 May 08, dicamba-tolerant MON 87708 soybean seed, Source 10001839. Equipment was visually inspected after planting by disassembling cone, distributor and spinner. No remaining seed was found. All seed was planted. Empty seed container was burned on 20 Jan 09.

TABLE XVIII: TRIAL ND-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CARRINGTON, NORTH DAKOTA (CONTINUED)

Seeding Rate:	156,862 seeds per acre (3600 seeds/plot)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a >15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Cornbelt Premier 90 non-ionic surfactant and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	Pre-emergence App: Agro-Tech CO ₂ backpack sprayer (#00136) with four 8002XR flat fan nozzles by TeeJet, spaced 20 inches apart, with 50 mesh nozzle screens at 18 inches above target (25 psi). V3, R1/R2, and 14-day PHI App: Agro-Tech CO ₂ backpack sprayer with four ULD120-02 nozzles by Hypro, spaced 20 inches apart, with 50 mesh nozzle screens at 18 inches above target (20 psi).	
Soil Characteristics:	Bearden Loam	
Plot Maintenance Records:	22 May 08: applied glyphosate at 0.38 lb ae/A. 8 Jun 08: applied glyphosate at 0.38 lb ae/A. 13 Jul 08: applied glyphosate at 0.38 lb ae/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	23 May 08	23 Jun 08
Application Date	23 May 08	23 Jun 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.502 lb ae/A (100% of target)	0.497 lb ae/A (99% of target)
Application Volume	20.0 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V2-V3 ¹
Air Temperature	67 °F	79 °F
Soil Temperature	60 °F at 2 in.	77 °F at 2 in.
Relative Humidity	40%	50%
Wind Velocity /Direction	5 mph / SE	4 mph / S
Cloud Cover	10%	90%
Soil Moisture at Surface	Dry	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	23 May 08	23 Jun 08
Application Date	23 May 08	23 Jun 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.000 lb ae/A (100% of target)	1.007 lb ae/A (101% of target)
Application Volume	19.9 GPA	20.2 GPA
Crop Growth Stage	Pre-emergence	V2-V3 ¹
Air Temperature	67 oF	79 oF
Soil Temperature	60 oF at 2 in.	77 oF at 2 in.
Relative Humidity	40%	50%
Wind Velocity /Direction	5 mph / SE	4 mph / S
Cloud Cover	10%	90%
Soil Moisture at Surface	Dry	Dry

TABLE XVIII: TRIAL ND-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CARRINGTON, NORTH DAKOTA (CONTINUED)

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	23 May 08	23 Jun 08	22 Jul 08
Application Date	23 May 08	23 Jun 08	22 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	1.000 lb ae/A (100% of target)	0.500 lb ae/A (100% of target)	0.505 lb ae/A (101% of target)
Application Volume	20.1 GPA	20.0 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V2-V3 ¹	R1 ²
Air Temperature	68 °F	79 °F	81 °F
Soil Temperature	61 °F at 2 in.	78 °F at 2 in.	79 °F at 2 in.
Relative Humidity	40%	50%	60%
Wind Velocity /Direction	4 mph / SE	4 mph / S	5 mph / NW
Cloud Cover	10%	90%	0%
Soil Moisture at Surface	Dry	Dry	Dry
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	23 Jun 08	22 Jul 08	
Application Date	23 Jun 08	22 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.994 lb ae/A (99% of target)	1.005 lb ae/A (100% of target)	
Application Volume	20.0 GPA	20.2 GPA	
Crop Growth Stage	V2-V3 ¹	R1 ²	
Air Temperature	80 °F	81 °F	
Soil Temperature	78 °F at 2 in.	79 °F at 2 in.	
Relative Humidity	50%	60%	
Wind Velocity /Direction	4 mph / S	5 mph / NW	
Cloud Cover	90%	0%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	23 May 08	23 Jun 08	2 Oct 08
Application Date	23 May 08	23 Jun 08	2 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.506 lb ae/A (101% of target)	0.497 lb ae/A (99% of target)	1.002 lb ae/A (100% of target)
Application Volume	20.2 GPA	19.8 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V2-V3 ¹	R8, 85% leaf drop
Air Temperature	67 °F	79 °F	56 °F
Soil Temperature	61 °F at 2 in.	77 °F at 2 in.	50 °F at 2 in.
Relative Humidity	40%	50%	80%
Wind Velocity /Direction	5 mph / SE	4 mph / S	3 mph / NW
Cloud Cover	10%	90%	20%
Soil Moisture at Surface	Dry	Dry	Moist

TABLE XVIII: TRIAL ND-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CARRINGTON, NORTH DAKOTA (CONTINUED)

Harvest Procedures:	<p><u>Forage:</u> Makita grass shears were used to cut forage using a zig-zag pattern through the plot, avoiding border areas. Samples were collected by hand.</p> <p><u>Hay:</u> Makita grass shears were used to cut hay using a zig-zag pattern through the plot, avoiding border areas. Samples were collected by hand, placed on clean plastic next to the plot to air dry to a moisture content of about 18%.</p> <p><u>Seed:</u> Plants were cut with a Stihl hedge trimmer and a Kincaid bundle thresher was used to sample seeds from the soybean plants from the middle rows.</p> <p>For all matrices: UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate coolers with blue ice for transport to freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	29 Jul 08	29 Jul 08	29 Jul 08
DALA	n/a	36	36
Growth Stage	R2	R2	R2
Plant Height	18 inches	18 inches	19 inches
Samples Shipped Frozen	22 Aug 08	22 Aug 08	22 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	29 Jul 08	29 Jul 08	
DALA	7	7	
Growth Stage	R2	R2	
Plant Height	19 inches	19 inches	
Samples Shipped Frozen	22 Aug 08	22 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	5 Aug 08	5 Aug 08	5 Aug 08
DALA (cut)	n/a	43	43
Sampling Date (collected)	7 Aug 08	7 Aug 08	7 Aug 08
Growth Stage	R3	R3	R3
Plant Height	21 inches	22 inches	23 inches
Samples Shipped Frozen	22 Aug 08	22 Aug 08	22 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	5 Aug 08	5 Aug 08	
DALA (cut)	14	14	
Sampling Date (collected)	7 Aug 08	7 Aug 08	
Growth Stage	R3	R3	
Plant Height	24 inches	24 inches	
Samples Shipped Frozen	22 Aug 08	22 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE XVIII: TRIAL ND-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CARRINGTON, NORTH DAKOTA (CONTINUED)

Sample Collection:	Seed	Seed	Seed			
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)			
Sampling Date	17 Oct 08	17 Oct 08	17 Oct 08			
DALA	n/a	116	116			
Growth Stage	R8	R8	R8			
Plant Height	22 inches	24 inches	25 inches			
Samples Shipped Frozen	12 Nov 08	12 Nov 08	12 Nov 08			
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08			
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck			
Sample Collection:	Seed	Seed	Seed			
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)			
Sampling Date	17 Oct 08	17 Oct 08	17 Oct 08			
DALA	87	87	15			
Growth Stage	R8	R8	R8			
Plant Height	25 inches	25 inches	21 inches			
Samples Shipped Frozen	12 Nov 08	12 Nov 08	12 Nov 08			
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08			
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck			
Crop Destruction:	23 Oct 08, all plots were mowed with a tractor and mower, tilled into the ground with a tractor and disc.					
Actual Climatic Conditions:	May	June	July	August	September	October
Avg. Min. Air Temp., °F ³	44.5	49.8	55.2	54.5	43.4	36.7
Avg. Max. Air Temp., °F ³	67.9	71.4	79.7	79.8	68.8	57.6
Monthly Rainfall, in ³	1.02	5.00	1.86	1.54	3.88	2.17
Irrigation, in ³	0	0	0	0	0	0
Normal Climatic Conditions:						
Avg. Min. Air Temp., °F	42.4	52.8	56.9	53.7	45.0	32.2
Avg. Max. Air Temp., °F	66.4	74.3	81.3	79.3	70.7	54.3
Monthly Rainfall, in	3.18	3.51	2.90	2.87	1.23	1.52

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (23 May 08) until the last sampling event (17 Oct 08).

Rainfall, air temperature, and historical data were recorded from a weather station located 4.5 miles from the test site.

The site map illustrates the layout of the Mark Mullenberg Farm, featuring seven numbered plots (1-7) arranged in two rows. The plots are rectangular, with dimensions of 20' by 50'. The top row contains plots 1, 2, and 3, while the bottom row contains plots 7, 5, and 4. The plots are separated by a 50' distance. The top row is 120' long, and the bottom row is 100' long. The plots are situated on a grassy area, with a fence line running along the top and bottom edges. A prevailing wind direction is indicated by an arrow pointing towards the bottom-left. The map also shows Highway 281 to the west, 11th Street NE to the south, and a field margin to the east. A scale bar indicates a distance of 1/2 mile. Other features include a 'Grass Area' at the top, a 'Field Margin' to the east, and a 'Slope = 0 to 1 %' indicated by an arrow pointing towards the bottom-left. The 'Old House Basement' is located near the bottom center of the map. The 'Mark Mullenberg Farm' is labeled in the center of the map.

TABLE XIX: TRIAL SD-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CENTERVILLE, SOUTH DAKOTA

Principal Investigator:	Duane Auch South Dakota Ag Research, Inc. 29896 463rd Ave Centerville, SD 57014 Phone (605) 563-2092 / Email duaneauch@afo.net
Other Personnel:	Mary Auch
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 13 Mar 09.</p> <p>MON 11955: Received 250 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 13 Mar 09.</p> <p>MON 11958: Received 350 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 13 Mar 09.</p>
Chemical Storage Temperature:	53 to 87 °F
Site Location:	Centerville, Clay County, South Dakota (Region 5)
Field History:	<p>2006: Soybeans treated with glyphosate at 0.75 lb ae/A.</p> <p>2007: Corn treated with glyphosate at 0.75 lb ae/A.</p>
Target Crop:	Soybeans
Planting Date:	13 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001841. Equipment was cleaned with compressed air and by hand in the plots. Remaining seed was buried in the trial plots on 9 Jul 08. Empty seed container was incinerated on 18 Oct 08.

TABLE XIX: TRIAL SD-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CENTERVILLE, SOUTH DAKOTA (CONTINUED)

Seeding Rate:	125,000 seeds per acre (7.2 seeds/row ft)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Hefty Premium non-ionic surfactant (80% ai) and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	Farmall Cub or Ford tractor with an 10 foot boom, six XR8003VS flat fan nozzles by TeeJet, spaced 20 inches apart, with 50 mesh nozzle screens at 18-20 inches above target using CO ₂ (16-20 psi).	
Soil Type:	Egan-Clarno Trent Complex	
Plot Maintenance Records:	28 Nov 07: field was disked. 12 Jun 08: 6-28-28 dry fertilizer was applied at 215 lbs/A and the field was disked and harrowed twice. 9 Jul 08: applied Roundup WeatherMax at 0.75 lb ae/A. 9 Aug 08: applied Roundup WeatherMax at 0.75 lb ae/A and Warrior at 0.4 oz ai/A.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	14 Jun 08	15 Jul 08
Application Date	14 Jun 08	15 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.487 lb ae/A (97% of target)	0.499 lb ae/A (100% of target)
Application Volume	19.4 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	61 °F	68 °F
Soil Temperature	62 °F at 2 in.	73 °F at 2 in.
Relative Humidity	79%	81%
Wind Velocity /Direction	0-1 mph / S	0-2.3 mph / S
Cloud Cover	5%	30%
Soil Moisture at Surface	Dry	Dry
Application Information:	TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	14 Jun 08	15 Jul 08
Application Date	14 Jun 08	15 Jul 08
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A
Actual Application Rate	1.000 lb ae/A (100% of target)	1.018 lb ae/A (102% of target)
Application Volume	19.9 GPA	20.2 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	68 °F	68 °F
Soil Temperature	63 °F at 2 in.	73 °F at 2 in.
Relative Humidity	67%	81%
Wind Velocity /Direction	2.5 mph / N	4 mph / S
Cloud Cover	5%	30%
Soil Moisture at Surface	Dry	Dry

TABLE XIX: TRIAL SD-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CENTERVILLE, SOUTH DAKOTA (CONTINUED)

Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	14 Jun 08	15 Jul 08	1 Aug 08
Application Date	14 Jun 08	15 Jul 08	1 Aug 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.973 lb ae/A (97% of target)	0.495 lb ae/A (99% of target)	0.496 lb ae/A (99% of target)
Application Volume	19.3 GPA	19.7 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R2 ²
Air Temperature	68 °F	68 °F	72 °F
Soil Temperature	63 °F at 2 in.	73 °F at 2 in.	82 °F at 2 in.
Relative Humidity	67%	81%	86%
Wind Velocity /Direction	2.5 mph / N	2.5 mph / S	1-1.6 mph / E
Cloud Cover	5%	30%	5%
Soil Moisture at Surface	Dry	Dry	Dry
Application Information:	TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	15 Jul 08	1 Aug 08	
Application Date	15 Jul 08	1 Aug 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.005 lb ae/A (101% of target)	0.947 lb ae/A (95% of target)	
Application Volume	19.9 GPA	18.8 GPA	
Crop Growth Stage	V3 ¹	R2 ²	
Air Temperature	68 °F	68 °F	
Soil Temperature	73 °F at 2 in.	82 °F at 2 in.	
Relative Humidity	81%	90%	
Wind Velocity /Direction	2-4.3 mph / SE	0.8-1.3 mph / E	
Cloud Cover	30%	5%	
Soil Moisture at Surface	Dry	Dry	
Application Information:	TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	14 Jun 08	15 Jul 08	1 Oct 08
Application Date	14 Jun 08	15 Jul 08	1 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.497 lb ae/A (99% of target)	0.497 lb ae/A (99% of target)	1.011 lb ae/A (101% of target)
Application Volume	19.8 GPA	19.7 GPA	20.2 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	90% leaf drop
Air Temperature	61 °F	68 °F	47 °F
Soil Temperature	62 °F at 2 in.	73 °F at 2 in.	57 °F at 2 in.
Relative Humidity	79%	81%	73%
Wind Velocity /Direction	0-1 mph / S	0-2.3 mph / S	0.4 mph / N
Cloud Cover	5%	30%	0%
Soil Moisture at Surface	Dry	Dry	Dry

TABLE XIX: TRIAL SD-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CENTERVILLE, SOUTH DAKOTA (CONTINUED)

Harvest Procedures:	<p><u>Forage:</u> Hand grass shears were used to cut forage about 1 inch above the soil line from the middle rows. Samples were collected by hand.</p> <p><u>Hay:</u> Pruning shears were used to cut hay samples, avoiding border areas. Samples were collected by hand, placed on plastic sheets located beside each plot to dry to a moisture content of 15.8%.</p> <p><u>Seed:</u> Soybean seed samples were collected using a Hege 125 combine driven in a zig-zag pattern through the plots, avoiding border areas.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored transport freezers for transport to storage freezers.</p>		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	8 Aug 08	8 Aug 08	8 Aug 08
DALA	n/a	24	24
Growth Stage	R3	R3	R3
Plant Height	24 - 28 inches	24 - 28 inches	24 - 28 inches
Samples Shipped Frozen	18 Aug 08	18 Aug 08	18 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	8 Aug 08	8 Aug 08	
DALA	7	7	
Growth Stage	R3	R3	
Plant Height	24 - 28 inches	24 - 28 inches	
Samples Shipped Frozen	18 Aug 08	18 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	15 Aug 08	15 Aug 08	15 Aug 08
DALA (cut)	n/a	31	31
Sampling Date (collected)	19 Aug 08	19 Aug 08	19 Aug 08
Growth Stage	R4	R4	R4
Plant Height	26 - 30 inches	26 - 30 inches	26 - 30 inches
Samples Shipped Frozen	11 Sep 08	11 Sep 08	11 Sep 08
Samples Received Frozen	15 Sep 08	15 Sep 08	15 Sep 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	15 Aug 08	15 Aug 08	
DALA (cut)	14	14	
Sampling Date (collected)	19 Aug 08	19 Aug 08	
Growth Stage	R4	R4	
Plant Height	26 - 30 inches	26 - 30 inches	
Samples Shipped Frozen	11 Sep 08	11 Sep 08	
Samples Received Frozen	15 Sep 08	15 Sep 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE XIX: TRIAL SD-1, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN CENTERVILLE, SOUTH DAKOTA (CONTINUED)

Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)		
Sampling Date	16 Oct 08	16 Oct 08	16 Oct 08		
DALA	n/a	93	93		
Growth Stage	R8, Mature	R8, Mature	R8, Mature		
Plant Height	32 - 36 inches	32 - 36 inches	32 - 36 inches		
Samples Shipped Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)		
Sampling Date	16 Oct 08	16 Oct 08	16 Oct 08		
DALA	76	76	15		
Growth Stage	R8, Mature	R8, Mature	R8, Mature		
Plant Height	32 - 36 inches	32 - 36 inches	32 - 36 inches		
Samples Shipped Frozen	18 Nov 08	18 Nov 08	18 Nov 08		
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Crop Destruction:	18 Oct 08, all plots were combined, and remaining seed was burned and buried. The entire site was disked twice.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	57.1	63.0	59.3	49.6	41.4
Avg. Max. Air Temp., °F ³	80.8	84.0	81.6	74.9	66.8
Monthly Rainfall, in ³	1.63	2.80	1.53	2.08	2.76
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	57.7	63.4	60.0	50.1	37.4
Avg. Max. Air Temp., °F	79.7	85.8	83.1	76.6	62.8
Monthly Rainfall, in	4.10	2.39	2.91	3.09	2.03

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (14 Jun 08) until the last sampling event (16 Oct 08).

Rainfall was collected from a rain gauge located at the test site.

Air temperature was recorded from a weather station located 1.8 miles from the test site.

Historical weather data was recorded from a NOAA weather station located 1.8 miles from the test site.

FIGURE S: PLOT DIAGRAM FOR TRIAL SD-1, LOCATED IN CENTERVILLE, SOUTH DAKOTA

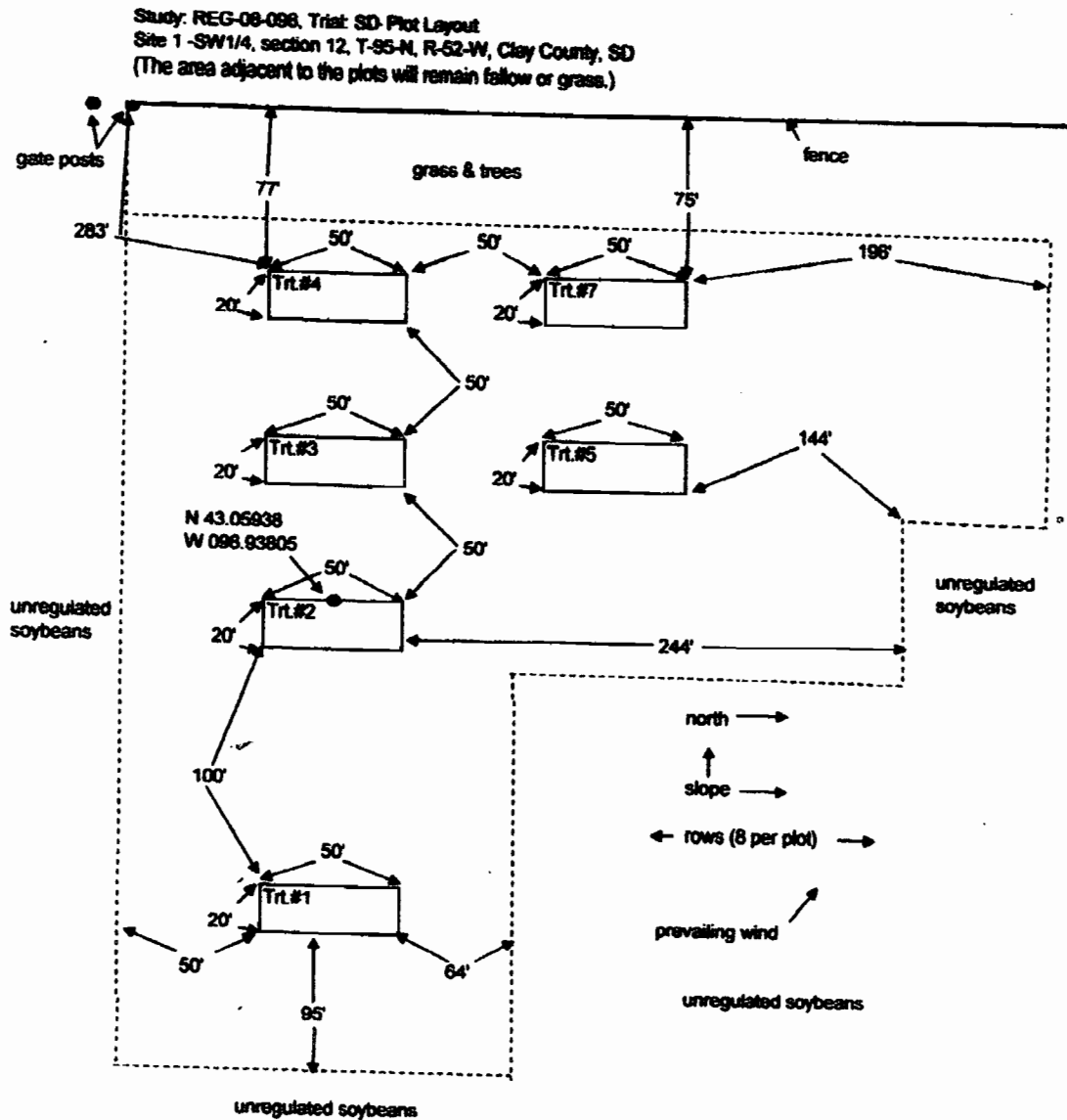


TABLE XX: TRIAL SD-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN BRITTON, SOUTH DAKOTA

Principal Investigator:	Roger Irwin, Ph.D. Prairie Agricultural Research, Inc. P.O. Box 1075 42517 State Highway 10 Britton, SD 57430 Phone (605) 448-5256 / Email parinc@venturecomm.net
Other Personnel:	none
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 9 May 08. Excess test substance was retained as maintenance product. Empty container was returned to the sponsor on 12 Feb 09.</p> <p>MON 11955: Received 250 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 12 Feb 09.</p> <p>MON 11958: Received 350 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 12 Feb 09.</p>
Chemical Storage Temperature:	56.66 to 75.92 °F
Site Location:	Britton, Marshall County, South Dakota (Region 5)
Field History:	<p>28 Jun 06: Express tolerant sunflower treated with Express at 1.0 oz ai/A; 28 Jun 06: Express tolerant sunflower treated with Assure II at 0.88 oz ai/A; 28 Jun 06: Express tolerant sunflower treated with methylated seed oil at 1.5 pt/A.</p> <p>2007: Fallow field not treated with pesticides.</p>
Target Crop:	Soybeans

TABLE XX: TRIAL SD-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN BRITTON, SOUTH DAKOTA (CONTINUED)

Planting Date:	17 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001840. Seed hoppers were removed after planting, remaining seed was collected and placed back into the original seed envelope. Equipment was visually inspected and any dislodged seed was placed back into the original seed envelope. Seed was devitalized by using a soil probe to bury the remaining seed at a depth of 2 feet at the edge (within) each plot on 25 Jun 08. Empty seed container was incinerated on 18 Feb 09.	
Seeding Rate:	123,352 seeds per acre (7.08 seeds/row ft)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a >15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Preference non-ionic surfactant 89.5% ai and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	Compressed air sprayer (#1/PAR0039): 3 point sprayer mounted on a McCormick Farmall tractor (PAR000157). Sprayer has a Dayton commercial air compressor with a 20 foot boom and 12 TeeJet 8002 VS flat fan nozzles spaced 20 inches apart, with 50 mesh nozzle screens, at 17-19 inches above target (20 psi).	
Soil Type:	Beotia - Beardon Complex	
Plot Maintenance Records:	15 May 08: applied 11-52-0 (MAP) fertilizer at 71.0 lbs/A and cultivated the field twice to incorporate and prepare seedbed. 17 Jun 08: cultivated the field to prepare plots. 8 Jul 08: cultivated plots for weed control. 13 Jul 08: applied Roundup WeatherMax, NIS and AMS at 22.0 fl oz + 0.25% v/v + 17 lbs/100 gal. 28 Jul 08: cultivated between plots. 9 Aug 08: applied Warrior insecticide at 3.2 fl oz/A. 26 Aug 08: cultivated between plots.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V4 Postemergence
Calibration Date	20 Jun 08	22 Jul 08
Application Date	20 Jun 08	22 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.499 lb ae/A (100% of target)	0.502 lb ae/A (100% of target)
Application Volume	19.9 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V4
Air Temperature	73 °F	83 °F
Soil Temperature	67 °F at 2 in.	85 °F at 2 in.
Relative Humidity	57%	58%
Wind Velocity /Direction	<2-3 mph / WNW	0-4 mph / SE
Cloud Cover	0%	20%
Soil Moisture at Surface	Dry	SL. Moist

TABLE XX: TRIAL SD-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN BRITTON, SOUTH DAKOTA (CONTINUED)

Application Information:	TRT 3 (MON 11958)		
Application Timing	Pre-emergence	V4 Postemergence	
Calibration Date	20 Jun 08	22 Jul 08	
Application Date	20 Jun 08	22 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.998 lb ae/A (100% of target)	1.002 lb ae/A (100% of target)	
Application Volume	20.0 GPA	20.0 GPA	
Crop Growth Stage	Pre-emergence	V4	
Air Temperature	77 °F	83 °F	
Soil Temperature	69 °F at 2 in.	93 °F at 2 in.	
Relative Humidity	48%	55%	
Wind Velocity /Direction	2-4 mph / WNW	0 to <2 mph / SSE	
Cloud Cover	0%	25%	
Soil Moisture at Surface	Dry	SL. Moist	
Application Information:	TRT 4 (MON 11955)		
Application Timing	Pre-emergence	V4 Postemergence	R1/R2 ² Postemergence
Calibration Date	20 Jun 08	22 Jul 08	1 Aug 08
Application Date	20 Jun 08	22 Jul 08	1 Aug 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.996 lb ae/A (100% of target)	0.502 lb ae/A (100% of target)	0.501 lb ae/A (100% of target)
Application Volume	19.9 GPA	20.0 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V4	R1 ²
Air Temperature	77 °F	87 °F	84 °F
Soil Temperature	73 °F at 2 in.	93 °F at 2 in.	78 °F at 2 in.
Relative Humidity	45%	50%	49%
Wind Velocity /Direction	2-5 mph / NW	<2 mph / SSE	0-2 mph / SW
Cloud Cover	5%	25%	0%
Soil Moisture at Surface	Dry	SL. Moist	Moist
Application Information:	TRT 5 (MON 11955)		
Application Timing	V4 Postemergence	R1/R2 ² Postemergence	
Calibration Date	22 Jul 08	1 Aug 08	
Application Date	22 Jul 08	1 Aug 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	1.002 lb ae/A (100% of target)	1.000 lb ae/A (100% of target)	
Application Volume	20.0 GPA	20.0 GPA	
Crop Growth Stage	V4	R1 ²	
Air Temperature	87 °F	85 °F	
Soil Temperature	94 °F at 2 in.	79 °F at 2 in.	
Relative Humidity	53%	44%	
Wind Velocity /Direction	2-3 mph / SE	2-4 mph / SW	
Cloud Cover	30%	0%	
Soil Moisture at Surface	SL. Moist	Moist	

TABLE XX: TRIAL SD-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN BRITTON, SOUTH DAKOTA (CONTINUED)

Application Information:		TRT 7 (MON 54140)		
Application Timing	Pre-emergence	V4 Postemergence	14-day PHI	
Calibration Date	20 Jun 08	22 Jul 08	9 Oct 08	
Application Date	20 Jun 08	22 Jul 08	9 Oct 08	
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.499 lb ae/A (100% of target)	0.501 lb ae/A (100% of target)	1.000 lb ae/A (100% of target)	
Application Volume	20.0 GPA	20.0 GPA	20.0 GPA	
Crop Growth Stage	Pre-emergence	V4	>80% leaf drop	
Air Temperature	73 °F	83 °F	60 °F	
Soil Temperature	69 °F at 2 in.	87 °F at 2 in.	60 °F at 2 in.	
Relative Humidity	57%	58%	48%	
Wind Velocity /Direction	<2-3 mph / WNW	0-4 mph / SE	2-4 mph / WNW	
Cloud Cover	0%	20%	70%	
Soil Moisture at Surface	Dry	SL. Moist	Moist	
Harvest Procedures:	<p><u>Forage:</u> Hand pruners were used to cut forage from the middle rows, avoiding borders. Samples were collected by hand.</p> <p><u>Hay:</u> Hand pruners were used to cut hay from the middle rows, avoiding borders. Samples were collected by hand, placed into mesh bags, hung on a fence post set at the end of the plots to dry to a moisture content of about 10 - 14%.</p> <p><u>Seed:</u> Soybean seed samples were collected using an ALMACO model PMC-10 plot combine making 3 passes through each plot, avoiding border areas. Four hand grab samples were made/pass in each plot.</p> <p>For all matrices: UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate temperature monitored coolers with wet ice for transport to storage freezers.</p>			
Sample Collection:	Forage	Forage	Forage	
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)	
Sampling Date	8 Aug 08	8 Aug 08	8 Aug 08	
DALA	n/a	17	17	
Growth Stage	R3	R3	R3	
Plant Height	18 - 25 inches	18 - 25 inches	18 - 25 inches	
Samples Shipped Frozen	20 Aug 08	20 Aug 08	20 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Forage	Forage		
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)		
Sampling Date	8 Aug 08	8 Aug 08		
DALA	7	7		
Growth Stage	R3	R3		
Plant Height	18 - 25 inches	18 - 25 inches		
Samples Shipped Frozen	20 Aug 08	20 Aug 08		
Samples Received Frozen	27 Aug 08	27 Aug 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck		

TABLE XX: TRIAL SD-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN BRITTON, SOUTH DAKOTA (CONTINUED)

Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	15 Aug 08	15 Aug 08	15 Aug 08
DALA (cut)	n/a	24	24
Sampling Date (collected)	19 Aug 08	19 Aug 08	19 Aug 08
Growth Stage	R4	R4	R4
Plant Height	22 - 33 inches	22 - 33 inches	22 - 33 inches
Samples Shipped Frozen	20 Aug 08	20 Aug 08	20 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	15 Aug 08	15 Aug 08	
DALA (cut)	14	14	
Sampling Date (collected)	19 Aug 08	19 Aug 08	
Growth Stage	R4	R4	
Plant Height	22 - 33 inches	22 - 33 inches	
Samples Shipped Frozen	20 Aug 08	20 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	28 Oct 08	28 Oct 08	28 Oct 08
DALA	n/a	98	98
Growth Stage	R8, Mature	R8, Mature	R8, Mature
Plant Height	22 - 29 inches	22 - 29 inches	22 - 29 inches
Samples Shipped Frozen	13 Nov 08	13 Nov 08	13 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)
Sampling Date	28 Oct 08	28 Oct 08	28 Oct 08
DALA	88	88	19
Growth Stage	R8, Mature	R8, Mature	R8, Mature
Plant Height	22 - 29 inches	22 - 29 inches	22 - 29 inches
Samples Shipped Frozen	13 Nov 08	13 Nov 08	13 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Crop Destruction:	28 Nov 08, all plots were tandem disked 4 times to stir and deeply bury viable seed. Corner markers were placed for identification so that the plots could be monitored.		

TABLE XX: TRIAL SD-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN BRITTON, SOUTH DAKOTA (CONTINUED)

Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	53.0	57.5	57.9	46.1	35.1
Avg. Max. Air Temp., °F ³	80.8	82.9	81.6	71.6	55.1
Monthly Rainfall, in ³	0.29	5.11	2.08	4.12	4.49
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	56.6	62.9	59.4	50.4	37.7
Avg. Max. Air Temp., °F	79.1	85.9	83.1	75.0	59.7
Monthly Rainfall, in	4.43	3.36	2.85	2.61	1.80

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (20 Jun 08) until the last sampling event (28 Oct 08).

Rainfall and air temperature were recorded from on-site weather monitoring equipment.

Historical weather data were recorded from a NOAA weather station located 25 miles from the test site.

FIGURE T: PLOT DIAGRAM FOR TRIAL SD-2, LOCATED IN BRITTON, SOUTH DAKOTA

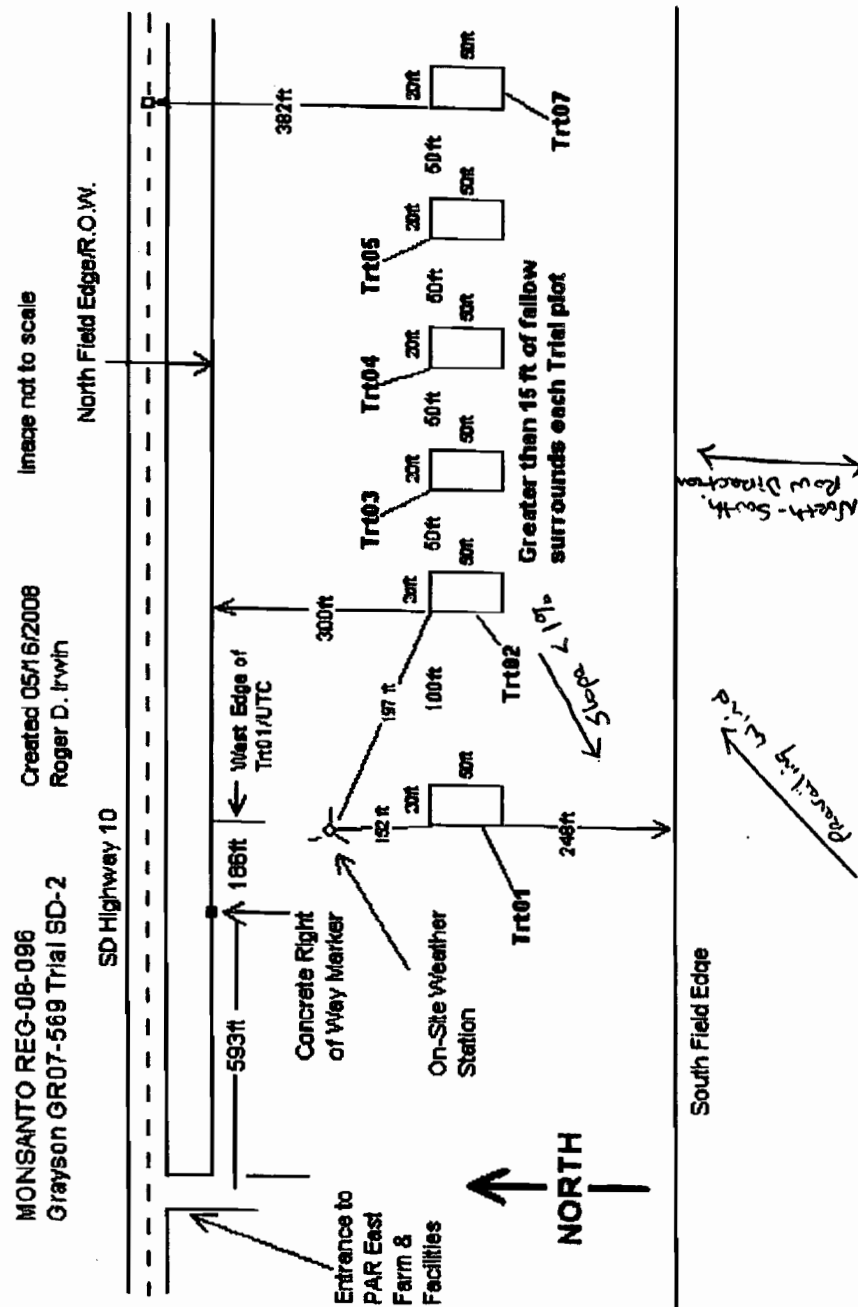


TABLE XXI: TRIAL WI-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN DELAVAN, WISCONSIN

Principal Investigator:	Sue Bellman Great Lakes Ag-Research Service, Inc. N6084 Johnson Road Delavan, WI 53115 Phone (608) 883-6990 / Email sbellman@greatlakesag.com
Other Personnel:	Kathleen M. Harris, Mary J. Mackinney, Justin R. Meyers, and Matt G. Beals
Test Substance Identification:	<p><u>Test Substance 1</u> Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p><u>Test Substance 2</u> Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p><u>Test Substance 3</u> Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 800 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 23 Dec 08.</p> <p>MON 11955: Received 250 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 23 Dec 08.</p> <p>MON 11958: Received 350 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 23 Dec 08.</p>
Chemical Storage Temperature:	58.2 to 83.5 °F
Site Location:	Delavan, Walworth County, Wisconsin (Region 5)
Field History:	<p>1 Jun 06: Field corn treated with Roundup Weather Max at 24 fl oz/A.</p> <p>11 May 07: Field corn treated with Force 3G at 4 oz/1000 row feet; 16 May 07: Field corn treated with Lumax 3.948 L at 2.5 qt/A.</p>
Target Crop:	Soybeans
Planting Date:	2 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001841. Planting equipment was visually inspected and blown out with compressed air after planting. All seed was planted. No seed remained. Empty seed container was incinerated on 26 Nov 08.

TABLE XXI: TRIAL WI-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN DELAVAN, WISCONSIN (CONTINUED)

Seeding Rate:	125,000 seeds per acre (180 seeds/25 feet)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 175 ft x 20 ft = 3500 ft ² = 0.0803 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 8: 175 ft x 20 ft = 3500 ft ² = 0.0803 A There was a >15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	X77 Spreader non-ionic surfactant and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	Pre-emergence, R1/R2, and 14-day PHI Applications: CO ₂ Roller Pump tractor and mounted sprayer with a 10 foot boom (#9) and 6 TeeJet XR 8002 VS flat fan nozzles spaced 20 inches apart, with 50 mesh nozzle screens, at 18 inches above target (20 psi). V3 Application: CO ₂ Backpack sprayer with a 10 foot boom (#1) and 6 TeeJet XR 8002 VS flat fan nozzles spaced 20 inches apart, with 50 mesh nozzle screens, at 18 inches above target (20 psi).	
Soil Type:	St. Charles Silt Loam	
Plot Maintenance Records:	23 Apr 08: chisel plowed to a depth of 6 inches. 6 May 08: soil finished to a 4 inch depth. 2 Jun 08: applied 5-14-42 + Zn fertilizer at 175 lb/A and power tilled plots. 4 Jun 08: applied Dual II Magnum at 2 pt/A. 23 Jun 08: applied Roundup Original Max at 21 fl oz/A. 2 Jul 08: cultivated all plots.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	4 Jun 08	9 Jul 08
Application Date	4 Jun 08	9 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.503 lb ae/A (101% of target)	0.494 lb ae/A (99% of target)
Application Volume	19.8 GPA	19.8 GPA
Crop Growth Stage	Pre-emergence	V3 ¹
Air Temperature	82 °F	80 °F
Soil Temperature	70 °F at 2 in.	74 °F at 2 in.
Relative Humidity	63%	54%
Wind Velocity /Direction	2 mph / E	3-4 mph / NW
Cloud Cover	100%	10%
Soil Moisture at Surface	Dry	Moist

TABLE XXI: TRIAL WI-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN DELAVAN, WISCONSIN (CONTINUED)

Application Information:		TRT 3 (MON 11958)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	
Calibration Date	4 Jun 08	9 Jul 08	
Application Date	4 Jun 08	9 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.986 lb ae/A (99% of target)	0.924 lb ae/A (92% of target)	
Application Volume	19.4 GPA	18.5 GPA	
Crop Growth Stage	Pre-emergence	V3 ¹	
Air Temperature	82 °F	80 °F	
Soil Temperature	70 °F at 2 in.	74 °F at 2 in.	
Relative Humidity	63%	54%	
Wind Velocity /Direction	2 mph / E	3-4 mph / NW	
Cloud Cover	100%	10%	
Soil Moisture at Surface	Dry	Moist	
Application Information:		TRT 4 (MON 11955)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	4 Jun 08	9 Jul 08	24 Jul 08
Application Date	4 Jun 08	9 Jul 08	24 Jul 08
Target Application Rate	1.0 lb ae/A	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.995 lb ae/A (99% of target)	0.462 lb ae/A (92% of target)	0.498 lb ae/A (100% of target)
Application Volume	19.6 GPA	18.5 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R1/R2 ²
Air Temperature	82 °F	80 °F	82 °F
Soil Temperature	70 °F at 2 in.	74 °F at 2 in.	80 °F at 2 in.
Relative Humidity	63%	54%	45%
Wind Velocity /Direction	2 mph / E	3-4 mph / NW	0-3 mph / SW
Cloud Cover	100%	10%	40%
Soil Moisture at Surface	Dry	Moist	Dry
Application Information:		TRT 5 (MON 11955)	
Application Timing	V3 ¹ Postemergence	R1/R2 ² Postemergence	
Calibration Date	9 Jul 08	24 Jul 08	
Application Date	9 Jul 08	24 Jul 08	
Target Application Rate	1.0 lb ae/A	1.0 lb ae/A	
Actual Application Rate	0.978 lb ae/A (98% of target)	0.998 lb ae/A (100% of target)	
Application Volume	19.6 GPA	20.1 GPA	
Crop Growth Stage	V3 ¹	R1/R2 ²	
Air Temperature	80 °F	82 °F	
Soil Temperature	74 °F at 2 in.	80 °F at 2 in.	
Relative Humidity	54%	45%	
Wind Velocity /Direction	3-4 mph / NW	0-3 mph / SW	
Cloud Cover	10%	40%	
Soil Moisture at Surface	Moist	Dry	

TABLE XXI: TRIAL WI-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN DELAVAN, WISCONSIN (CONTINUED)

Application Information:		TRT 7 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	4 Jun 08	9 Jul 08	1 Oct 08
Application Date	4 Jun 08	9 Jul 08	1 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.502 lb ae/A (100% of target)	0.496 lb ae/A (99% of target)	1.000 lb ae/A (100% of target)
Application Volume	19.7 GPA	19.8 GPA	20.0 GPA
Crop Growth Stage	Pre-emergence	V3 ¹	R7
Air Temperature	82 °F	80 °F	56 °F
Soil Temperature	70 °F at 2 in.	74 °F at 2 in.	60 °F at 2 in.
Relative Humidity	63%	54%	44%
Wind Velocity /Direction	2 mph / E	3-4 mph / NW	4 mph / NW
Cloud Cover	100%	10%	100%
Soil Moisture at Surface	Dry	Moist	Dry
Application Information:		TRT 8 (MON 54140)	
Application Timing	Pre-emergence	R1/R2 ² Postemergence	
Calibration Date	4 Jun 08	24 Jul 08	
Application Date	4 Jun 08	24 Jul 08	
Target Application Rate	1.0 lb ae/A	2.0 lb ae/A	
Actual Application Rate	0.999 lb ae/A (100% of target)	1.996 lb ae/A (100% of target)	
Application Volume	19.7 GPA	20.1 GPA	
Crop Growth Stage	Pre-emergence	R1/R2 ²	
Air Temperature	82 °F	82 °F	
Soil Temperature	70 °F at 2 in.	80 °F at 2 in.	
Relative Humidity	63%	45%	
Wind Velocity /Direction	2 mph / E	0-3 mph / SW	
Cloud Cover	100%	40%	
Soil Moisture at Surface	Dry	Dry	
Harvest Procedures:	<p><u>Forage:</u> Hedge shears were used to cut forage samples about 2 inches above the soil surface in a zig-zag pattern, avoiding borders. Samples were collected by hand.</p> <p><u>Hay:</u> Hedge shears were used to cut hay samples about 2 inches above the soil surface in a zig-zag pattern, avoiding borders. Samples were collected by hand, placed into mesh bags, hung from fence posts set outside the plots, and allowed to field dry to a moisture content of about 10 - 20%.</p> <p><u>Seed:</u> The entire plot, except borders, were cut with hedge shears and run through a plot thresher to collect seed samples. The seed samples were passed through a seed cleaner.</p> <p><u>For all matrices:</u> UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. UTC and treated samples were placed into separate coolers with blue ice for transport to storage freezers.</p>		

TABLE XXI: TRIAL WI-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN DELAVAN, WISCONSIN (CONTINUED)

Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	31 Jul 08	31 Jul 08	31 Jul 08
DALA	n/a	22	22
Growth Stage	R2	R2	R2
Plant Height	22 inches	22 inches	22 inches
Samples Shipped Frozen	12 Aug 08	12 Aug 08	12 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	31 Jul 08	31 Jul 08	
DALA	7	7	
Growth Stage	R2	R2	
Plant Height	22 inches	22 inches	
Samples Shipped Frozen	12 Aug 08	12 Aug 08	
Samples Received Frozen	15 Aug 08	15 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	7 Aug 08	7 Aug 08	7 Aug 08
DALA (cut)	n/a	29	29
Sampling Date (collected)	11 Aug 08	11 Aug 08	11 Aug 08
Growth Stage	R2	R2	R2
Plant Height	28 inches	30 inches	30 inches
Samples Shipped Frozen	25 Aug 08	25 Aug 08	25 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	7 Aug 08	7 Aug 08	
DALA (cut)	14	14	
Sampling Date (collected)	11 Aug 08	11 Aug 08	
Growth Stage	R2	R2	
Plant Height	29 inches	29 inches	
Samples Shipped Frozen	25 Aug 08	25 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	16 Oct 08	17 Oct 08	17 Oct 08
DALA	n/a	100	100
Growth Stage	R8, Mature	R8, Mature	R8, Mature
Plant Height	~32 inches	~32 inches	~32 inches
Samples Shipped Frozen	24 Oct 08	24 Oct 08	24 Oct 08
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck

TABLE XXI: TRIAL WI-1, SUMMARY OF 2008 SOYBEAN RAC AND PROCESSING TRIAL IN DELAVAN, WISCONSIN (CONTINUED)

Sample Collection:	Seed	Seed	Seed		
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)		
Sampling Date	17 Oct 08	17 Oct 08	17 Oct 08		
DALA	85	85	16		
Growth Stage	R8, Mature	R8, Mature	R8, Mature		
Plant Height	~32 inches	~32 inches	~32 inches		
Samples Shipped Frozen	24 Oct 08	24 Oct 08	24 Oct 08		
Samples Received Frozen	27 Oct 08	27 Oct 08	27 Oct 08		
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck		
Sample Collection:	Seed				
Treatment Sampled	TRT 8 (MON 54140)				
Sampling Date	16 Oct 08				
DALA	84				
Growth Stage	R8, Mature				
Plant Height	~32 inches				
Samples Shipped Frozen	24 Oct 08				
Samples Received Frozen	29 Oct 08				
Shipment Method	ACDS Freezer Truck				
Crop Destruction:	20 Nov 08, all plots were combined, soybeans were deposited at trial site, and burned with empty seed packets. Burned soybeans will be buried.				
Actual Climatic Conditions:	June	July	August	September	October
Avg. Min. Air Temp., °F ³	59.5	61.0	58.6	54.9	44.6
Avg. Max. Air Temp., °F ³	78.8	82.7	82.2	74.4	64.6
Monthly Rainfall, in ³	8.09	3.66	1.00	5.33	1.09
Irrigation, in ³	0	0	0	0	0
Normal Climatic Conditions:					
Avg. Min. Air Temp., °F	57.7	62.7	61.0	52.9	41.9
Avg. Max. Air Temp., °F	79.3	84.7	82.3	76.7	62.7
Monthly Rainfall, in	5.49	2.50	3.92	3.66	2.29

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

³Values are calculated from the first application (4 Jun 08) until the last sampling event (17 Oct 08).

Rainfall and air temperature were recorded from a weather station located <1 mile from the test site. Historical weather data were recorded from NOAA weather stations located 10-12 miles from the test site.

A hand-drawn site plan of a research field. The plan is bounded by a 'Prevailing wind' direction (indicated by an arrow pointing left) and a 'Rows' direction (indicated by a double-headed arrow). The field is divided into several treatment plots (TRT) and a 'Machinery field' area. The plots are labeled as follows:

- TRT 1 UTC**: A rectangular plot in the top left, measuring 20' by 100'.
- TRT 8**: A large rectangular plot in the center-left, measuring 20' by 175'.
- TRT 5**: A rectangular plot in the center, measuring 20' by 50'.
- TRT 7**: A rectangular plot in the center, measuring 20' by 50'.
- TRT 2**: A rectangular plot in the top right, measuring 20' by 50'.
- TRT 3**: A rectangular plot in the middle right, measuring 20' by 50'.
- TRT 4**: A rectangular plot in the bottom right, measuring 20' by 50'.

The plots are arranged in rows, with 50' spacing between them. A 'Slope 2%' is indicated with an arrow pointing towards the bottom right. The 'Machinery field' is located at the top right, and the 'Grassy hill' is located at the bottom right. A 'North' arrow points towards the bottom right.

TABLE XXII: TRIAL WI-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FITCHBURG, WISCONSIN

Principal Investigator:	Alan Miller AGSTAT 6394 Grandview Road Verona, WI 53593 Phone (608) 845-7993 / Email amagstat@tds.net
Other Personnel:	Alex P. Butz, Luke C. Eastwood, Tom J. Hartberg, David R. Toeder, and William B. Jahn
Test Substance Identification:	<p>Test Substance 1 Dicamba, formulated as the diglycolamine salt (Herbicide) Monsanto Code Number: MON 54140 EPA Registration Number: 7969-137 Trade Name: Clarity Lot Number: GLP-0804-19315-F Nominal Concentration: 480 g/L or 4 lb ae/gal dicamba acid equiv. CAS Number: 104040-79-1</p> <p>Test Substance 2 Dicamba, formulated as the monoethanolamine salt (Herbicide) Monsanto Code Number: MON 11955 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19268-F Nominal Concentration: 480 g/L or 4 ae lb/gal dicamba acid equiv. CAS Number: n/a</p> <p>Test Substance 3 Dicamba, microencapsulated formulation in which dicamba is formulated as the 1-dodecyl-2-pyrrolidinone salt (Herbicide) Monsanto Code Number: MON 11958 EPA Registration Number: n/a Trade Name: n/a Lot Number: GLP-0803-19294-F Nominal Concentration: 190 g/L or 1.59 lb ae/gal dicamba acid equiv. CAS Number: n/a</p>
Chemical Receipt and Return:	<p>MON 54140: Received 500 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 15 Dec 08.</p> <p>MON 11955: Received 250 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 15 Dec 08.</p> <p>MON 11958: Received 350 mL of test substance on 9 May 08. Excess test substance was returned to the sponsor on 15 Dec 08.</p>
Chemical Storage Temperature:	46.1 to 83.0 °F
Site Location:	Fitchburg, Dane County, Wisconsin (Region 5)
Field History:	<p>May 06: Corn treated with Dual II Magnum at 1.67 pt/A; Jun 06: Corn treated with Status at 5 oz/A.</p> <p>May 07: Corn treated with Dual II Magnum at 1.67 pt/A; May 07: Corn treated with Force at 4.4 lb/A; Jun 07: Corn treated with Status at 5 oz/A; Oct 07: Planted to Rye with no pesticides applied.</p>
Target crop:	Soybeans
Planting Date:	17 Jun 08, dicamba-tolerant MON 87708 soybean seed, Source 10001841. Seed plate was removed after planting, equipment was visually inspected and remaining seed was collected. Seed was devitalized by burying it in the plot on 17 Jun 08. Empty seed container was incinerated on 24 Nov 08.

TABLE XXII: TRIAL WI-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FITCHBURG, WISCONSIN (CONTINUED)

Seeding Rate:	123,108 seeds per acre (7.0 seeds/row ft)	
Rows per Plot:	8	
Row Width:	30 inches	
Plot Size:	Trt 1: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 2: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 3: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 4: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 5: 50 ft x 20 ft = 1000 ft ² = 0.0230 A Trt 7: 50 ft x 20 ft = 1000 ft ² = 0.0230 A There was a 15 ft isolation buffer (fallow ground) completely surrounding each plot	
Adjuvants:	Preference non-ionic surfactant and Ammonium sulfate (AMS)	
Application Type:	Foliar spray over top of crop	
Application Equipment:	Pre-emergence, V3, and R1/R2 Applications: Either John Deere or Case 265 tractors with a 3 point sprayer #1 (TPS-1), six TeeJet 8003 XR flat fan nozzles spaced 20 inches apart, with 50 mesh nozzle screens, at 20 inches above target using CO ₂ (17 psi). 14-Day PHI Application: Bicycle sprayer (A89147a) with six TeeJet 8003 XR flat fan nozzles spaced 20 inches apart, with 50 mesh nozzle screens, at 20 inches above target using CO ₂ (18 psi).	
Soil Type:	Plano Silt Loam	
Plot Maintenance Records:	11 Jun 08: field cultivated. 17 Jun 08: field cultivated. 22 Jul 08: applied Glyphosate at 2 qt/A, Preference NIS at 0.25% v/v, and spray grade AMS at 2.5 lb/100 gal. 22 Sep 08: applied Glyphosate at 3 pt/A, Preference NIS at 0.25% v/v, and spray grade AMS at 3 lb/100 gal. 6 Oct 08: cultivated field buffers.	
Application Information:	TRT 2 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence
Calibration Date	19 Jun 08	22 Jul 08
Application Date	19 Jun 08	22 Jul 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.504 lb ae/A (101% of target)	0.510 lb ae/A (102% of target)
Application Volume	20.9 GPA	20.1 GPA
Crop Growth Stage	Pre-emergence	V3-V4 ¹
Air Temperature	61 °F	70 °F
Soil Temperature	63.2 °F at 2 in.	77 °F at 2 in.
Relative Humidity	73%	60%
Wind Velocity /Direction	0-3 mph /WSW	2-4 (gusts 6) mph / NE
Cloud Cover	2%	35%
Soil Moisture at Surface	Dry	Dry

TABLE XXII: TRIAL WI-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FITCHBURG, WISCONSIN (CONTINUED)

Application Information:		TRT 3 (MON 11958)		
Application Timing	Pre-emergence		V3 ¹ Postemergence	
Calibration Date	19 Jun 08		22 Jul 08	
Application Date	19 Jun 08		22 Jul 08	
Target Application Rate	1.0 lb ae/A		1.0 lb ae/A	
Actual Application Rate	1.012 lb ae/A (101% of target)		0.995 lb ae/A (99% of target)	
Application Volume	21.0 GPA		20.1 GPA	
Crop Growth Stage	Pre-emergence		V3-V4 ¹	
Air Temperature	63 °F		70 °F	
Soil Temperature	63.2 °F at 2 in.		77 °F at 2 in.	
Relative Humidity	71%		60%	
Wind Velocity /Direction	1-2 mph /W		2-3 (gusts 4) mph / NE	
Cloud Cover	2%		50%	
Soil Moisture at Surface	Dry		Dry	
Application Information:		TRT 4 (MON 11955)		
Application Timing	Pre-emergence		V3 ¹ Postemergence	R1/R2 ² Postemergence
Calibration Date	19 Jun 08	23 Jun 08	22 Jul 08	28 Jul 08
Application Date	19 Jun 08	23 Jun 08	22 Jul 08	28 Jul 08
Target Application Rate	1.0 lb ae/A		0.5 lb ae/A	0.5 lb ae/A
Actual Application Rate	0.503 lb ae/A (50% of target)	0.507 lb ae/A (51% of target)	0.511 lb ae/A (102% of target)	0.498 lb ae/A (100% of target)
Application Volume	20.9 GPA	19.9 GPA	20.1 GPA	20.3 GPA
Crop Growth Stage	Pre-emergence		V3-V4 ¹	R1/R2 ²
Air Temperature	64 °F	68 °F	70 °F	79 °F
Soil Temperature	63.2 °F at 2 in.	70.4 °F at 2 in.	77 °F at 2 in.	91.6 °F at 2 in.
Relative Humidity	70%	58%	60%	59%
Wind Velocity /Direction	1-3 mph /W	3-5 (gusts 6) mph /N	2-5 (gusts 7) mph / NE	2-4 mph / E
Cloud Cover	2%	40%	60%	25%
Soil Moisture at Surface	Dry	Dry	Dry	Dry
Application Information:		TRT 5 (MON 11955)		
Application Timing	V3 ¹ Postemergence		R1/R2 ² Postemergence	
Calibration Date	22 Jul 08		28 Jul 08	
Application Date	22 Jul 08		28 Jul 08	
Target Application Rate	1.0 lb ae/A		1.0 lb ae/A	
Actual Application Rate	1.022 lb ae/A (102% of target)		0.996 lb ae/A (100% of target)	
Application Volume	20.1 GPA		20.2 GPA	
Crop Growth Stage	V3-V4 ¹		R1/R2 ²	
Air Temperature	70 °F		79 °F	
Soil Temperature	77 °F at 2 in.		91.6 °F at 2 in.	
Relative Humidity	60%		59%	
Wind Velocity /Direction	2-4 mph (gusts 5) / NE		2-5 mph / E	
Cloud Cover	60%		25%	
Soil Moisture at Surface	Dry		Dry	

TABLE XXII: TRIAL WI-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FITCHBURG, WISCONSIN (CONTINUED)

Application Information:		TRT 7 (MON 54140)	
Application Timing	Pre-emergence	V3 ¹ Postemergence	14-day PHI
Calibration Date	19 Jun 08	22 Jul 08	6 Oct 08
Application Date	19 Jun 08	22 Jul 08	6 Oct 08
Target Application Rate	0.5 lb ae/A	0.5 lb ae/A	1.0 lb ae/A
Actual Application Rate	0.499 lb ae/A (100% of target)	0.510 lb ae/A (102% of target)	0.975 lb ae/A (97% of target)
Application Volume	20.7 GPA	20.1 GPA	20.2 GPA
Crop Growth Stage	Pre-emergence	V3-V4 ¹	75% leaf drop
Air Temperature	61 °F	70 °F	66 °F
Soil Temperature	63.2 °F at 2 in.	77 °F at 2 in.	56.7 °F at 2 in.
Relative Humidity	73%	60%	81%
Wind Velocity /Direction	0-3 mph /WSW	2-4 (gusts 6) mph / NE	2-4 mph / SE
Cloud Cover	2%	35%	80%
Soil Moisture at Surface	Dry	Dry	SL. Moist
Harvest Procedures:	Forage: Pruning shears were used to cut forage samples from the middle rows, avoiding borders. Samples were collected by hand.		
	Hay: Pruning shears were used to cut hay samples from the middle rows, avoiding borders. Samples were collected by hand, double bagged and placed in coolers for transport to the facility for placement on drying racks. Drying racks were moved into the sample shed at night and when rain threatened. Hay samples collected when moisture content averaged 13.3%.		
	Seed: Pruning shears were used to cut soybean plants from the middle rows, avoiding borders. The plants were run through a Kincaid stationary thresher to collect seed samples.		
	For all matrices: UTC plot sampled before treated plots. Samples collected from a minimum of 12 separate areas of each plot for each sample. Forage UTC and treated samples were placed into separate temperature monitored coolers with blue ice for transport to storage freezers. Hay samples were placed directly into storage freezers. Seed UTC and treated samples were transported in separate temperature monitored transport freezers to the storage freezers.		
Sample Collection:	Forage	Forage	Forage
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	7 Aug 08	7 Aug 08	7 Aug 08
DALA	n/a	16	16
Growth Stage	R2	R2	R2
Plant Height	16 - 20 inches	16 - 20 inches	16 - 20 inches
Samples Shipped Frozen	11 Aug 08	11 Aug 08	11 Aug 08
Samples Received Frozen	15 Aug 08	15 Aug 08	15 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Forage	Forage	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Sampling Date	7 Aug 08	7 Aug 08	
DALA	10	10	
Growth Stage	R2	R2	
Plant Height	16 - 20 inches	16 - 20 inches	
Samples Shipped Frozen	11 Aug 08	11 Aug 08	
Samples Received Frozen	15 Aug 08	15 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	

TABLE XXII: TRIAL WI-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FITCHBURG, WISCONSIN (CONTINUED)

Sample Collection:	Hay	Hay	Hay
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Cut Date	12 Aug 08	12 Aug 08	12 Aug 08
DALA (cut)	n/a	21	21
Sampling Date (collected)	19 Aug 08	19 Aug 08	19 Aug 08
Growth Stage	R3	R3	R3
Plant Height	18 - 27 inches	18 - 27 inches	18 - 27 inches
Samples Shipped Frozen	25 Aug 08	25 Aug 08	25 Aug 08
Samples Received Frozen	27 Aug 08	27 Aug 08	27 Aug 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Hay	Hay	
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	
Cut Date	12 Aug 08	12 Aug 08	
DALA (cut)	15	15	
Sampling Date (collected)	19 Aug 08	19 Aug 08	
Growth Stage	R3	R3	
Plant Height	18 - 27 inches	18 - 27 inches	
Samples Shipped Frozen	25 Aug 08	25 Aug 08	
Samples Received Frozen	27 Aug 08	27 Aug 08	
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 1 (UTC)	TRT 2 (MON 54140)	TRT 3 (MON 11958)
Sampling Date	21 Oct 08 + 3 Nov 08	21 Oct 08	21 Oct 08
DALA	n/a	91	91
Growth Stage	BBCH 99	BBCH 99	BBCH 99
Plant Height	18 - 25 inches	18 - 25 inches	18 - 25 inches
Samples Shipped Frozen	17 Nov 08	17 Nov 08	17 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Sample Collection:	Seed	Seed	Seed
Treatment Sampled	TRT 4 (MON 11955)	TRT 5 (MON 11955)	TRT 7 (MON 54140)
Sampling Date	3 Nov 08	3 Nov 08	21 Oct 08
DALA	98	98	15
Growth Stage	BBCH 99	BBCH 99	BBCH 99
Plant Height	18 - 25 inches	18 - 25 inches	18 - 25 inches
Samples Shipped Frozen	17 Nov 08	17 Nov 08	17 Nov 08
Samples Received Frozen	20 Nov 08	20 Nov 08	20 Nov 08
Shipment Method	ACDS Freezer Truck	ACDS Freezer Truck	ACDS Freezer Truck
Crop Destruction:	11 Nov 08, all plants were disked into the soil.		

TABLE XXII: TRIAL WI-2, SUMMARY OF 2008 SOYBEAN RAC TRIAL IN FITCHBURG, WISCONSIN (CONTINUED)

Actual Climatic Conditions:	June	July	August	September	October	November
Avg. Min. Air Temp., °F ³	58.5	61.2	57.8	53.9	39.8	44.0
Avg. Max. Air Temp., °F ³	78.2	81.6	80.3	72.9	59.0	64.7
Monthly Rainfall, in ³	0	3.82	1.10	2.58	2.43	0
Irrigation, in ³	0	0	0	0	0	0
Normal Climatic Conditions:						
Avg. Min. Air Temp., °F	55.7	61.0	58.7	49.9	38.9	27.7
Avg. Max. Air Temp., °F	78.3	82.1	79.4	71.4	59.6	43.3
Monthly Rainfall, in	4.05	3.93	4.33	3.08	2.18	2.31

¹V3 growth stage indicates at least 50% of soybean plants contain trifoliate leaves at three nodes.

²R1/R2 growth stage indicates at least 50% of soybean plants are between beginning flower (open flower at any node on main stem) and full flower (open flowers at one of the two uppermost nodes on the main stem).

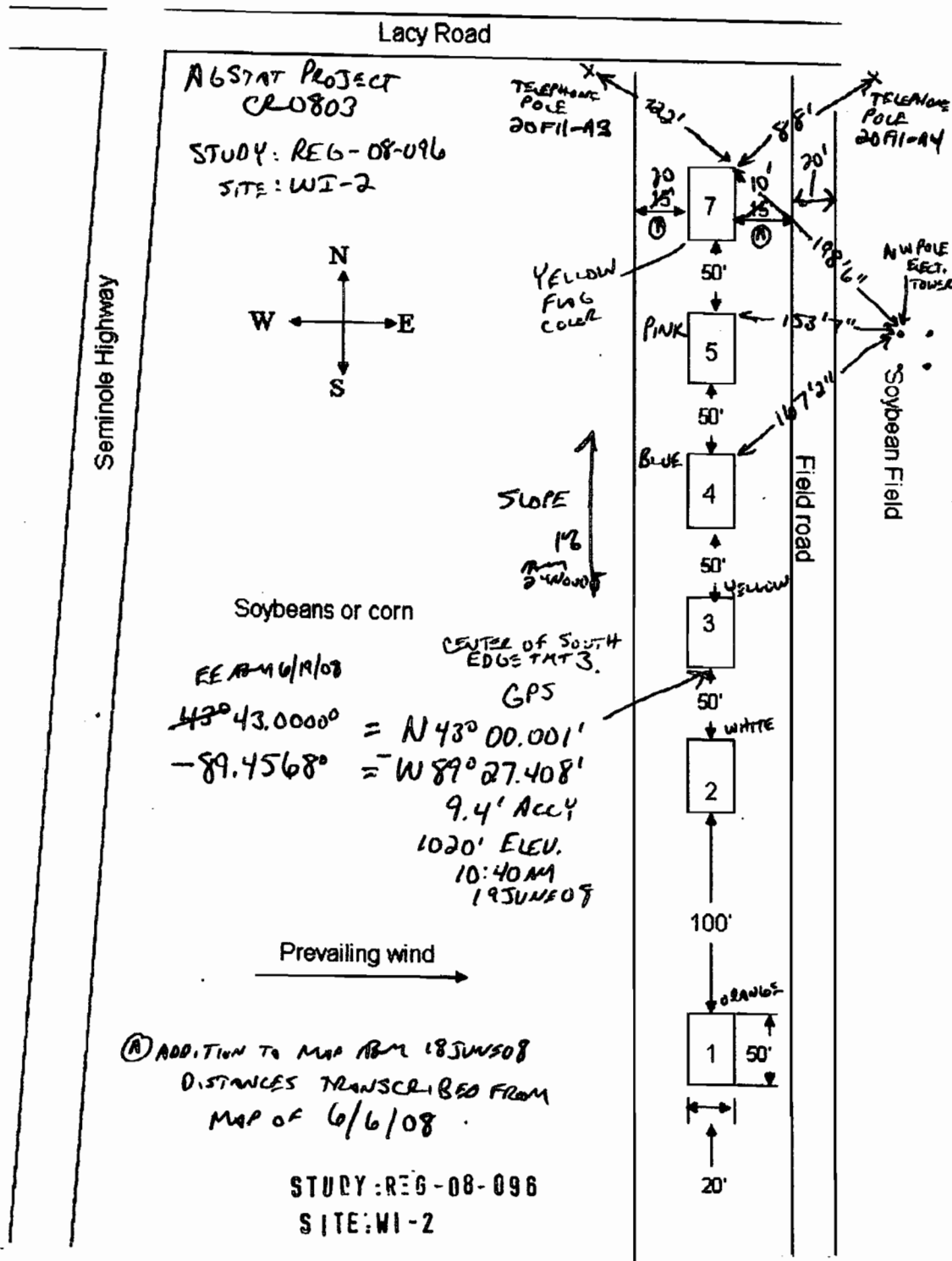
³Values are calculated from the first application (19 Jun 08) until the last sampling event (3 Nov 08).

Rainfall was recorded from on-site monitoring equipment.

Air temperatures were recorded from a weather station located 1.8 miles from the test site.

Historical weather data were recorded from a NOAA weather station located 12.6 miles from the test site.

FIGURE V: PLOT DIAGRAM FOR TRIAL WI-2, LOCATED IN FITCHBURG, WISCONSIN



Appendix 3. Processing Report

STUDY SPONSOR:

**Monsanto Company
800 North Lindbergh Blvd.
St. Louis, Missouri 63167**

STUDY DIRECTOR:

**Sharon J. Moran
Monsanto Company V2B
St. Louis, Missouri 63167**

PROCESSING REPORT:

Soybean: Small-Scale Processing

TITLE:

**Determination of Dicamba Residues in Soybean Commodities after
Preemergence and Postemergence Application to Dicamba-Tolerant Soybean
MON 87708**

PROCESSING COMPLETION DATE:

April 16, 2009

AUTHOR:

Dick L. Dusek

PROCESSING FACILITY:

**GLP Technologies
22723 State Highway 6 South
Navasota, Texas 77868**

STUDY IDENTIFICATION:


Study Number: REG-08-096

**Study Number: REG-08-096
Page 1 of 38**

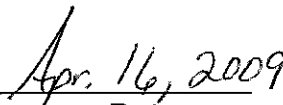
GLP COMPLIANCE STATEMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after Preemergence and Postemergence Application to Dicamba-Tolerant Soybean MON 87708

This processing study was conducted and reported in accordance with the Environmental Protection Agency's Good Laboratory Practice Standards, 40 CFR 160, Federal Register, effective date October 16, 1989.



Dick L. Dusek
Processing Principal Investigator



Date

QUALITY ASSURANCE STATEMENT

TITLE: Determination of Dicamba Residues in Soybean Commodities after Preemergence and Postemergence Application to Dicamba-Tolerant Soybean MON 87708


In compliance with the Good Laboratory Practice regulations an inspector with the Quality Assurance Unit has inspected at least one phase of this study. Inspection findings were reported to GLP Technologies management, the study director and the study director's management. The Quality Assurance Unit has reviewed the processing report and certifies that it accurately describes the methods and standard operating procedures used, and the reported results accurately reflect the raw data generated during this processing phase.

Signed:  Date: 16 Apr 2009
Doyle L. Borchardt
Quality Assurance Coordinator
GLP Technologies

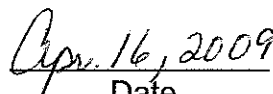
INSPECTION		DATES REPORTED TO:	
TYPE	DATE	GLP TECHNOLOGIES MANAGER	STUDY DIRECTOR & STUDY DIRECTOR'S MANAGEMENT
1) Process Phase Site Code: WI-1 SOP G.2 R04 Sec. 11: "Deodorization"	09 Jan 2009	23 Jan 2009	02 Feb 2009
2) Process Report	10 thru 12 Apr 2009	13 Apr 2009	16 Apr 2009

CERTIFICATION OF AUTHENTICITY

This report is an accurate and complete representation of the study/project activities.



Dick L. Dusek
Processing Principal Investigator



Date

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**TITLE: Determination of Dicamba Residues in Soybean Commodities after
Preemergence and Postemergence Application to Dicamba-Tolerant
Soybean MON 87708**

STUDY SPONSOR: Monsanto Company
St. Louis, Missouri

STUDY DIRECTOR: Sharon J. Moran
Monsanto Company

TESTING FACILITY: Monsanto Company
Environmental Sciences Technology Center
St. Louis, Missouri

TESTING FACILITY MANAGEMENT: Monte A. Marshall
Monsanto Company
St. Louis, Missouri

PROCESSING PRINCIPAL INVESTIGATOR: Dick L. Dusek
GLP Technologies
Navasota, Texas

PROCESSING, DATA RECORDING

& SHIPPING TECHNICIANS: Timothy R. Adams, Dick L. Dusek, Theodore F.
Dusek Jr., Patrick W. Simecek, Cade A. Barrow, Tye
A. Holloway, and Kristin E. Roberts.

SAMPLE RECEIPT DATE: October 29, 2008 (WI-1)
October 29, 2008 (NE-1)

PROCESSING START DATE: December 29, 2008 (WI-1)
January 29, 2009 (NE-1)

PROCESSING COMPLETION DATE: January 26, 2009 (WI-1)
February 6, 2009 (NE-1)

FRACTION SHIPMENT DATE: January 21 and 27, 2009 (WI-1)
February 11, 2009 (NE-1)

PROCESSING REPORT COMPLETION DATE: April 16, 2009

INTRODUCTION:

Whole soybean samples received from two field sites (Great Lakes Ag-Research Service, Inc. in Delavan, Wisconsin and Midwest Research, Inc. in York, Nebraska) were processed into commercially representative fractions. These fractions were shipped to Monsanto Company in St. Louis, Missouri.

TEST SUBSTANCE: [From protocol]

Monsanto Code Number: MON 54140
EPA Registration Number: 7969-137
Trade Name: Clarity

OBJECTIVE:

The objective of this processing study was to generate commercially representative processed fractions from whole soybean samples grown in the field.

METHODS & MATERIALS:

Receipt of Test Commodities:

Site ID Code: WI-1

Two frozen soybean samples (Raw Agricultural Commodity (RAC)/seed) were received from Great Lakes Ag-Research Service, Inc. in Delavan, Wisconsin. Agricultural Chemicals Development Services, Inc. (ACDS) delivered the samples on October 29, 2008. Soybean samples were identified and processed in the following order: REG08096-00253 (Control, Trt. 1 and REG08096-00254 (Treated, Trt. 8).

Site ID Code: NE-1

Two frozen soybean samples (RAC/seed) were received from Midwest Research, Inc. in York, Nebraska. ACDS delivered the samples on October 29, 2008. Soybean samples were identified and processed in the following order: REG08096-00251 (Control, Trt. 1 and REG08096-00252 (Treated, Trt. 8).

After receipt and inventory, all samples were placed into frozen storage.

Storage Conditions:

GLP Technologies SOP E.2 "Storage of Samples in Freezers" requires that freezer temperatures be maintained at or below 10 degrees Fahrenheit with the exception of the defrost cycle and removal and placement of samples in the freezers. Recorded in the data are the times and dates for removal or placement of samples/fractions in freezers or coolers.

Sample/Fraction Handling:

Samples were handled in a manner that minimizes the possibility of contamination. It is this facility's policy to use only containers and utensils washed with detergent and rinsed with water.

Processing Methods:

Control and treated samples from both field sites were processed according to the following procedure.

For processing, moisture content of incoming soybeans is required to be less than 13.5% according to the processing SOP (see Appendix). After determining the moisture content of the incoming soybean (RAC), the soybeans are to be dried (if necessary) in a Steelman Industries oven at 130-160°F until the moisture content is

less than 13.5%. All samples required drying. Following drying, the samples were cleaned in the Kice aspirator to remove light impurities from the whole soybeans. After aspiration, the samples were screened in a Hance Corporation screen cleaner. Large and small foreign particles (screenings) were removed from the whole soybean.

A portion of the cleaned soybean sample was removed for soymilk production. Soybeans for soymilk production were washed and soaked in water for at least 12 hours. Soaked beans were ground and filtered to remove solids and the soymilk was cooked at 195-205°F for 9-11 minutes. Part of this soymilk was used to produce tofu. Tofu is the curd that forms in soymilk when a calcium sulfate solution is slowly added under heating and mixing.

Remainder of whole soybeans were fed into a A. T. Ferrell 8 x 8 basic roller mill to crack the hull and liberate the kernel. Kernel material was separated from the hull using the Kice aspirator. Moisture content of the kernel was determined. If the moisture content was below 13.5%, water was added to the sample while mixing to adjust the moisture to 13.5%. Moisture adjusted kernels were allowed to equilibrate for a minimum of 12 hours before further processing.

Moisture adjusted kernel material was heated to 160-175°F and held for 15-30 minutes in a Marion mixer. Following heating, the kernel was flaked in an A. T. Ferrell flaking roll with a gap setting of 0.008-0.013". After flaking, a portion of the flakes were removed and taken to solvent extraction. Solvent extracted flakes were used for production of soy isolate.

Flakes used in toasted meal production were extruded in a Readco/Teledyne continuous processor, where they were turned into collets by direct steam injection and compression. Collets exited the processor at 200-250°F. After extrusion, the collets were dried in the oven at 150-180°F for 30-40 minutes. Dried collets were ground with a C. S. Bell mill prior to solvent extraction. Flakes and ground collets were placed in separate stainless steel batch extractors and submerged in 120-140°F hexane (solvent). After 30 minutes, the hexane was drained and fresh hexane was added to repeat the cycle two more times. The final two washes were for 15 minutes each.

Following the final draining, the extracted flakes were desolventized with warm air to remove the solvent. Flakes were ground in a Glen Mills mill and screened with a Great Western sample sifter equipped with a 62 mesh sieve to produce defatted soy flour. This flour was used to produce protein isolate and concentrate. Protein isolate and concentrate were produced using a freeze drying method.

Extracted collets were toasted in the Reliance Industries paddle mixer. Steam was injected directly on the material until the vapor temperature reached 200-210°F. Steam injection was stopped and the material heated to 220-240°F and held for 30 to 60 minutes. After toasting, the product was cooled to room temperature before screening.

Resulting fraction was toasted soybean meal.

The miscella (crude oil and hexane) was passed through a laboratory vacuum evaporator to separate the crude oil and hexane. Crude oil was heated to 195-205°F for hexane removal. After filtering, crude oil was de-gummed to produce degummed oil and lecithin. Degummed oil was alkali refined to produce refined oil and soapstock. Refined oil was bleached and deodorized.

This processing procedure is outlined in form H.202 "Soybean Processing Material Balance" and is described in detail in SOP G.2 Revision 04, "Soybean: Batch Processing Method" (see Appendix).

Comparison to Industrial Practice:

The soybeans were processed in a way that simulates industrial practice as closely as possible. Because of compliance monitoring requirements and sample size, the samples were processed by batch rather than continuous, as in commercial operation.

Processing Results:

Soybean samples were processed into the protocol requested fraction of hulls, toasted meal, degummed oil, lecithin, deodorized (RBD) oil, soymilk, tofu, soybean concentrate, and protein isolate. An unprocessed whole soybean sample (RAC) was collected prior to drying. Duplicate fractions were collected from each treated processed fraction.

Other Circumstances Pertaining to Study:

The following protocol deviation was reported to the Study Director:

1. Protocol requested a minimum size/weight of 2 kg (4.4 lbs.) and 62 g for defatted flour and protein isolate respectively. The following defatted flour fractions with amounts failed to meet the requirements: REG08096-00743 (3.3 lbs.), REG08096-00744 (3.1 lbs.), REG08096-00696 (2.2 lbs.), REG08096-00710 (1.1lbs.), and REG08096-00711 (1.1 lbs.). The following protein isolate fractions failed to meet the requirement: REG08096-00745 and REG08096-00746. Collected amount for both fractions was 58.4 grams.

The following SOP deviations were reported to the Study Director:

1. After deodorizing the oil, the sample is allowed to cool and then promptly transferred to a shipping container. Prior to placement in the shipping container, both samples were filtered. (NE-1 and WI-1)
2. Concentrate is produced by freeze drying. After removing concentrate from the

freeze dryer for sample REG08096-00254, the concentrate was placed in the dehydrator to further dry the material. Concentrate was dried for 4 hours with a maximum temperature of 122.2°F. (WI-1)

3. SOP D.11 states "Pre-Process Verification will be completed prior to processing samples. This ensures that a visual inspection of the machine was performed and that it is clean and operational. The processing personnel will record the date, unique identifying number (test or protocol number pertinent to study and sample number [if applicable]), and commodity to be processed, and will initial the entries. Cleaning will be performed and documented prior to the next processing study." No pre-process verification or cleaning is documented for the A. T. Ferrell roller mill (NE-1) used to hull soybeans, Reliance Industries mixer (NE-1) used to toast soybean meal, and the Hance cleaner (WI-1) used to screen the toasted soybean meal.
4. Per SOP D.5, scale C must be calibrated on the day of use. Scale was used on February 3, 2009 during free fatty acid (FFA) determination. No calibration is recorded for this day.

These deviations did not have an adverse affect on processing.

Fraction Shipment:

Frozen fractions (excluding soymilk and tofu fractions) from Site ID code WI-1 were shipped to Andre Van Oyen with Monsanto Company in St. Louis, Missouri via ACDS on January 21, 2009. Frozen soymilk and tofu fractions packed in dry ice were shipped on January 27, 2009. Frozen processed fractions from Site ID code NE-1 were shipped packed in dry ice via Federal Express priority overnight delivery on February 11, 2009. A Shipment of Fractions (Chain of Custody) and Fraction Shipment and Packing List forms accompanied each fraction shipment.

Disposal of Material:

All intermediate fractions not requested by Monsanto and extra processing fractions were discarded per facility SOP E.11. Material is discarded by placing into a commercial waste container. Container is transported to local landfill by private company. All whole soybeans from cleaning and spillage were ground prior to disposal. All non requested oil samples were placed in a waste oil barrel. Unprocessed clean whole soybeans not used in soymilk and tofu production were ground and discarded as required by facility SOP.

CONCLUSIONS:

Commercially representative processed fractions were produced and collected from the whole soybean samples received from the field.

DATA ARCHIVAL:

Record Transfer and Retention:

This processing report as listed in the table of contents has been sent to Sharon J. Moran at Monsanto Company in St. Louis, Missouri for archiving. In addition, original raw data including communication logs, calculations, processing personnel id, deviation forms, exact copies of freezer temperature records, and original receiving and shipping records (includes bill of lading(s), when applicable) were transferred to Monsanto Company.

GLP Technologies will archive the following study specific data:

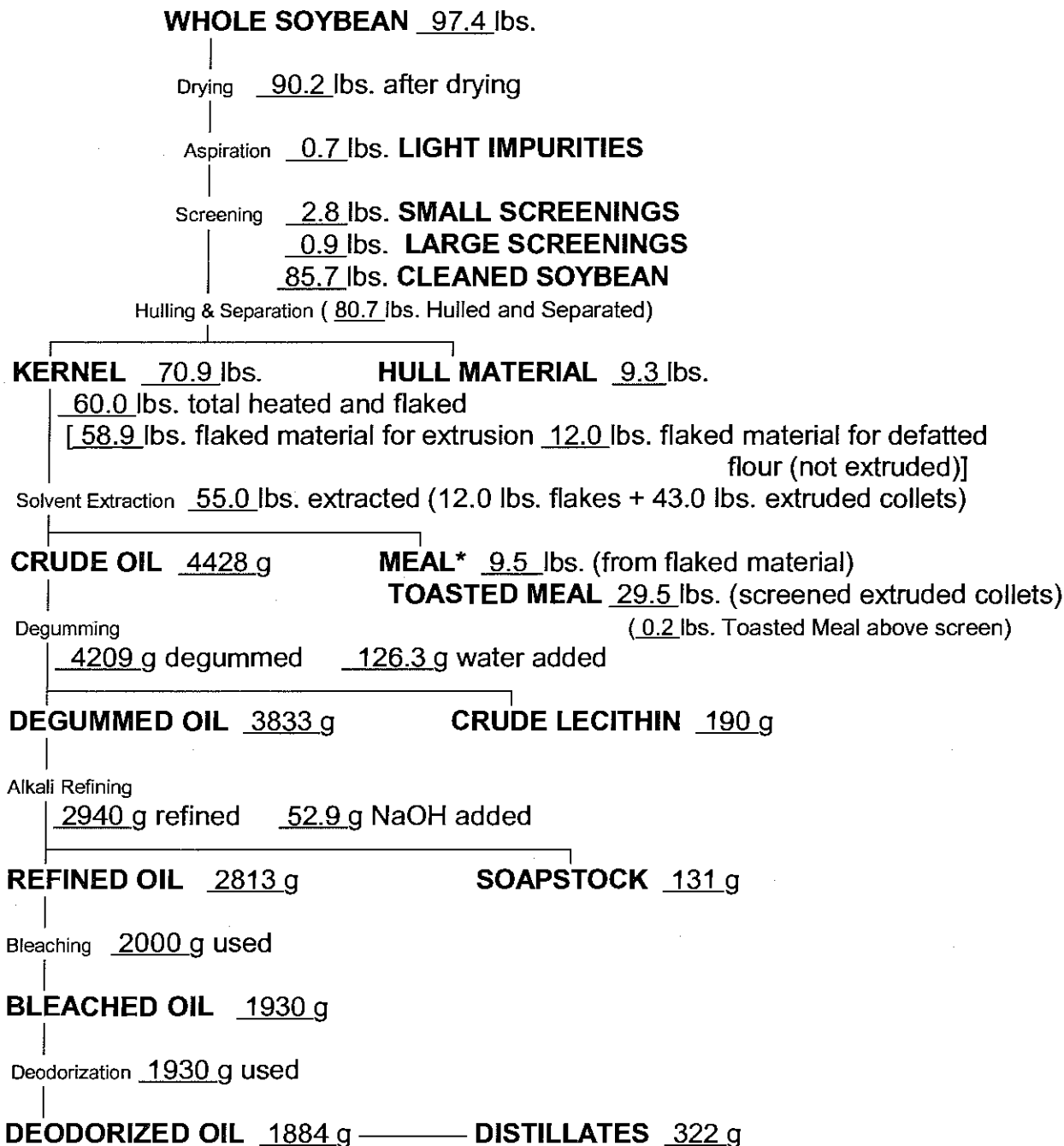
- copy of the sponsor processing protocol
- exact copy of the processing report (main body)
- exact copy of the compliance statement
- exact copy of the sample material balance
- exact copy of the original raw processing data (includes communication logs, calculations, and deviation forms, when applicable)
- exact copy of personnel records (names and initials of personnel with processing study duties)
- exact copy of receiving record(s)
- exact copy of shipping record(s)
- exact copy of shipping bill of lading(s)

GLP Technologies will archive the following non-study specific data indefinitely:

- original freezer and cooler temperature records
- original equipment logs (includes scales, temperature recording devices, and processing equipment records)
- CVs of personnel and training records

FORM H.202 Revision 00
SOYBEAN PROCESSING MATERIAL BALANCE

Processing Sample No. 1 (Control, Trt. 1) Sample ID: REG08096-00251



* 9.5 lbs. of Soybean Meal (from flakes) was ground and sifted to produce 4.8 lbs. of soy flour (4.4 lbs. did not pass through screen). Soy flour used for isolate and concentrate production

SOYMILK AND TOFU PROCESSING MATERIAL BALANCE

Processing Sample No. 1 (Control, Trt. 1) Sample ID: REG08096-00251

CLEANED SOYBEAN 800 g

Soaking 4000 g Water

Soaked Soybeans 1811 g (200 g spilled)

Grinding 200 g soaked soybean with 750 g water per batch

Filtering

Heating **OKARA** 1638 g

SOYMILK 6650 g (997 g removed for Soymilk sample)

2880 g Soymilk used for Tofu Production

Heating & Mixing 200 mls Calcium Sulfate solution added

TOFU 577 g

WHEY 2394 g

SOYBEAN ISOLATE PROCESSING MATERIAL BALANCE

Processing Sample No. 1 (Control, Trt. 1) Sample ID: REG08096-00251

SOYBEAN FLOUR 500 g

Water 7500 g

Extraction (pH adusted to 8.6 with 19 mls of 24% NaOH)

Centrifugation
& Filtering

Liquids 6029 g

Solids (Insoluable Residue) 1567 g

Precipitation (pH adjusted to 4.5 with 73 mls of 25% HCl)
& Centrifugation

Protein Curd 627 g

Liquids 5380 g

1st Washing (2500 g Water added to Solids)
& Centrifugation

Protein Curd 536 g

Liquids 2585 g

2nd Washing (2500 g Water added to Solids)
& Centrifugation

Protein Curd 521 g

Liquids 2509 g

(1000 mls Water added to Protein Curd)
(pH adjusted to 6.9 with 11 mls of 24% NaOH)

Freeze Drying

SOYBEAN ISOLATE 138 g

SOYBEAN CONCENTRATE PROCESSING MATERIAL BALANCE

Processing Sample No. **1 (Control, Trt. 1)** Sample ID: **REG08096-00251**

SOYBEAN FLOUR 400 g

Aqueous Ethanol 4000 g

Extraction

Centrifugation

Solids 1043 g

Liquids (Aqueous Ethanol) 2841 g

Washing (2000 g Water added to Solids)
(pH adjusted to 4.6 with 45 mls of 25% HCl)

Centrifugation

Protein Curd 1073 g

Liquids 1946 g

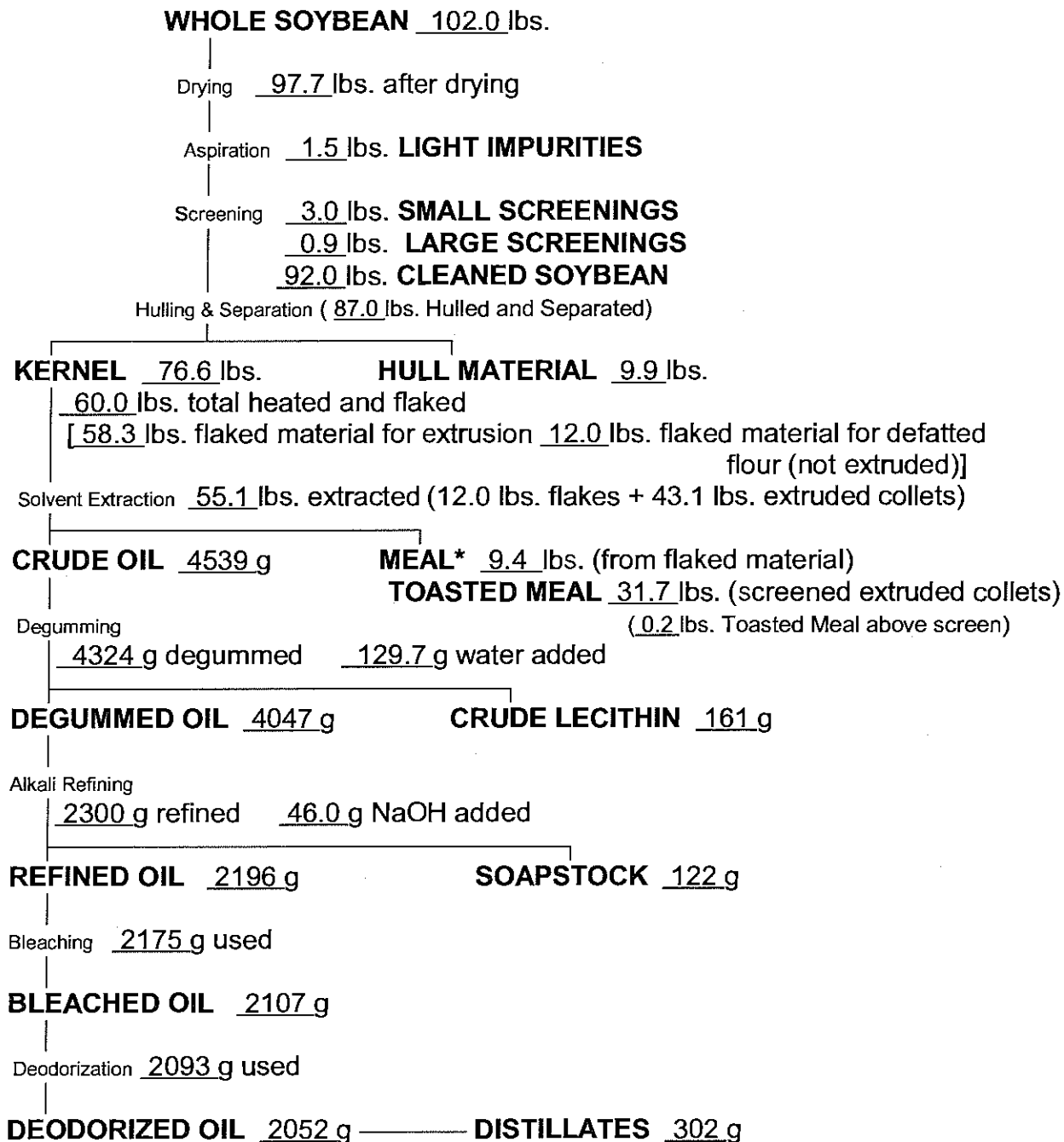
(1000 mls Water added to Protein Curd)
(pH adjusted to 6.8 with 17 mls of 24% NaOH)

Freeze Drying

SOYBEAN CONCENTRATE 239 g

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SOYBEAN PROCESSING MATERIAL BALANCE

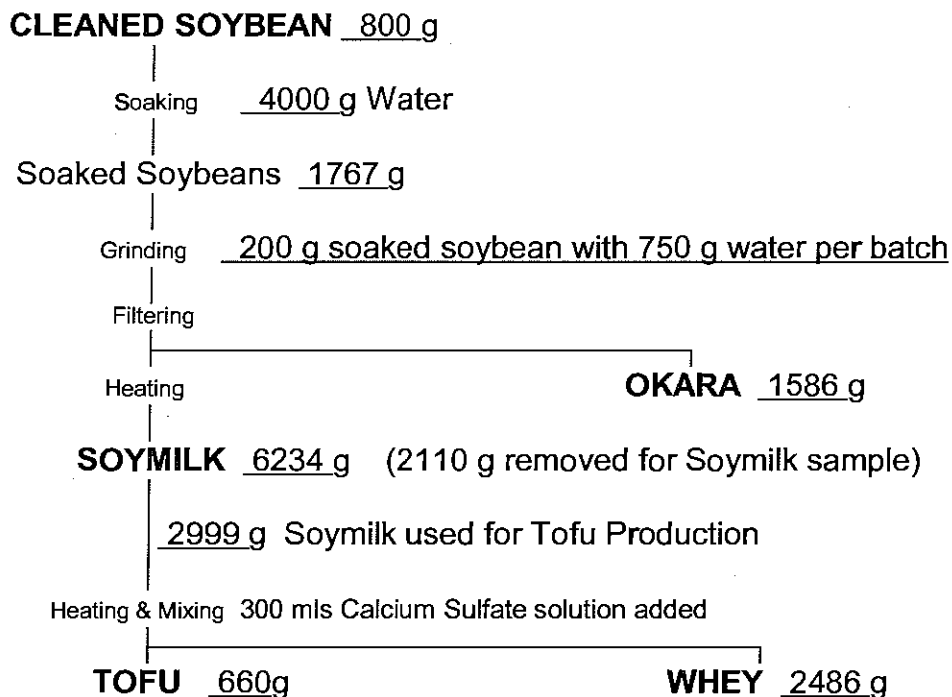
Processing Sample No. 2 (Treated, Trt. 8) Sample ID: REG08096-00252



* 9.4 lbs. of Soybean Meal (from flakes) was ground and sifted to produce 4.6 lbs. of soy flour (4.5 lbs. did not pass through screen). Soy flour used for isolate and concentrate production

SOYMILK AND TOFU PROCESSING MATERIAL BALANCE

Processing Sample No. 2 (Treated, Trt. 8) Sample ID: REG08096-00252



SOYBEAN ISOLATE PROCESSING MATERIAL BALANCE

Processing Sample No. 2 (Treated, Trt. 8) Sample ID: REG08096-00252

SOYBEAN FLOUR 500 g

Water 7500 g

Extraction (pH adusted to 8.6 with 22 mls of 24% NaOH)

Centrifugation
& Filtering

Liquids 6160 g

Solids (Insoluable Residue) 1572 g

Precipitation (pH adjusted to 4.5 with 80 mls of 25% HCl)
& Centrifugation

Protein Curd 601 g

Liquids 5571 g

1st Washing (2500 g Water added to Solids)
& Centrifugation

Protein Curd 514 g

Liquids 2581 g

2nd Washing (2500 g Water added to Solids)
& Centrifugation

Protein Curd 490 g

Liquids 2515 g

(1000 mls Water added to Protein Curd)
(pH adjusted to 6.8 with 19 mls of 24% NaOH)

Freeze Drying

SOYBEAN ISOLATE 150 g

SOYBEAN CONCENTRATE PROCESSING MATERIAL BALANCE

Processing Sample No. 2 (Treated, Trt. 8) Sample ID: REG08096-00252

SOYBEAN FLOUR 500 g

Aqueous Ethanol 5000 g

Extraction

Centrifugation

Solids 1281 g

Liquids (Aqueous Ethanol) 3773 g

Washing (2500 g Water added to Solids)
(pH adjusted to 4.6 with 54 mls of 25% HCl)

Centrifugation

Protein Curd 1340 g

Liquids 2389 g

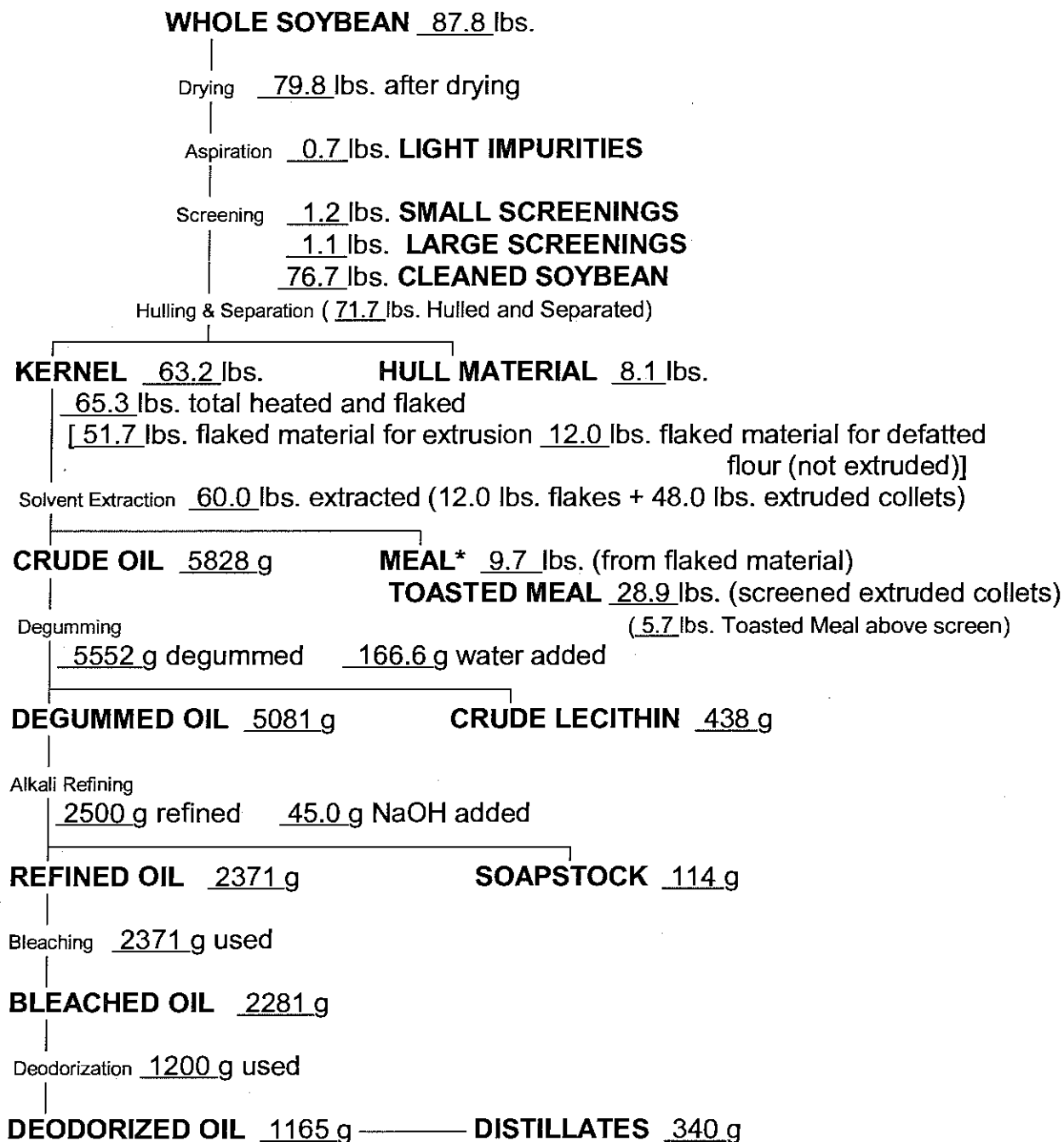
(1000 mls Water added to Protein Curd)
(pH adjusted to 6.8 with 22 mls of 24% NaOH)

Freeze Drying

SOYBEAN CONCENTRATE 315 g

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SOYBEAN PROCESSING MATERIAL BALANCE

Processing Sample No. 1 (Control, Trt. 1) Sample ID: REG08096-00253



* 9.7 lbs. of Soybean Meal (from flakes) was ground and sifted to produce 7.0 lbs. of soy flour (2.2 lbs. did not pass through screen). Soy flour used for isolate and concentrate production

SOYMILK AND TOFU PROCESSING MATERIAL BALANCE

Processing Sample No. **1 (Control, Trt. 1)** Sample ID: **REG08096-00253**

CLEANED SOYBEAN 800 g

Soaking 4000 g Water

Soaked Soybeans 1912 g (200 g spilled)

Grinding 200 g soaked soybean with 750 g water per batch

Filtering

Heating

OKARA 1681 g

SOYMILK 5916 g (979 g removed for Soymilk sample)

3000 g Soymilk used for Tofu Production

Heating & Mixing 200 ml Calcium Sulfate solution added

TOFU 622 g

WHEY 2481 g

SOYBEAN ISOLATE PROCESSING MATERIAL BALANCE

Processing Sample No. **1 (Control, Trt. 1)** Sample ID: **REG08096-00253**

SOYBEAN FLOUR 500 g

Water 7500 g

Extraction (pH adjusted to 8.6 with 20 mls of 24% NaOH)

Centrifugation
& Filtering

Liquids 6126 g

Solids (Insoluble Residue) 1566 g

Precipitation (pH adjusted to 4.5 with 69 mls of 25% HCl)
& Centrifugation

Protein Curd 772 g

Liquids 5241 g

1st Washing (2500 g Water added to Solids)
& Centrifugation

Protein Curd 597 g

Liquids 2700 g

2nd Washing (2500 g Water added to Solids)
& Centrifugation

Protein Curd 550 g

Liquids 2547 g

(1000 mls Water added to Protein Curd)
(pH adjusted to 6.9 with 11 mls of 24% NaOH)

Freeze Drying

SOYBEAN ISOLATE 127 g

SOYBEAN CONCENTRATE PROCESSING MATERIAL BALANCE

Processing Sample No. **1 (Control, Trt. 1)** Sample ID: **REG08096-00253**

SOYBEAN FLOUR 500 g

Aqueous Ethanol 5000 g

Extraction

Centrifugation

Solids 1180 g

Liquids (Aqueous Ethanol) 3865 g

Washing (2500 g Water added to Solids)
(pH adjusted to 4.6 with 57 mls of 25% HCl)

Centrifugation

Protein Curd 1260 g

Liquids 2371 g

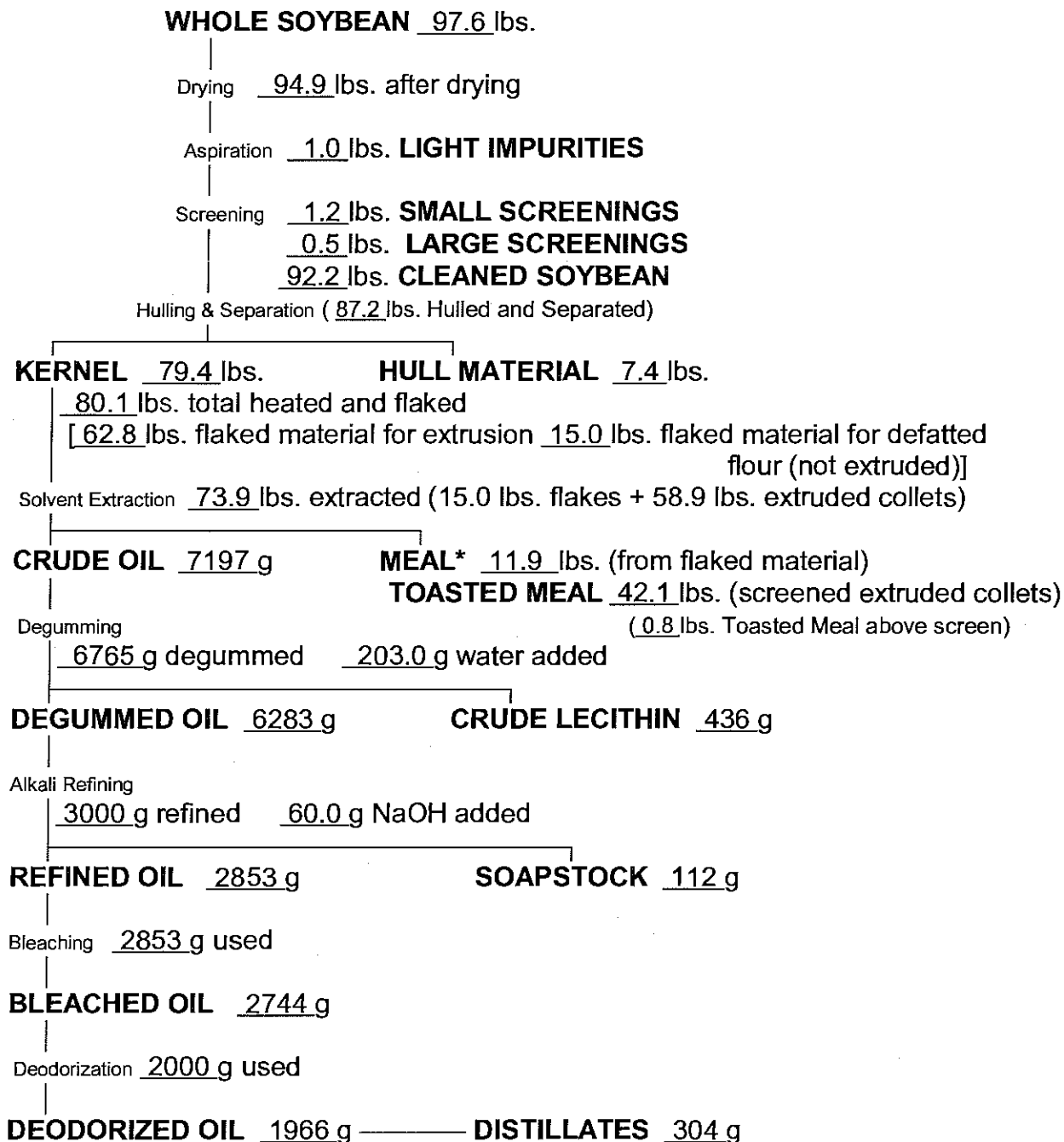
(1000 mls Water added to Protein Curd)
(pH adjusted to 6.9 with 23 mls of 24% NaOH)

Freeze Drying

SOYBEAN CONCENTRATE 292 g

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SOYBEAN PROCESSING MATERIAL BALANCE

Processing Sample No. 2 (Treated, Trt. 8) Sample ID: REG08096-00254



* 11.9 lbs. of Soybean Meal (from flakes) was ground and sifted to produce 10.8 lbs. of soy flour (0.4 lbs. did not pass through screen). Soy flour used for isolate and concentrate production

SOYMILK AND TOFU PROCESSING MATERIAL BALANCE

Processing Sample No. 2 (Treated, Trt. 8) Sample ID: REG08096-00254

CLEANED SOYBEAN 800 g

Soaking 4000 g Water

Soaked Soybeans 1883 g

Grinding 200 g soaked soybean with 750 g water per batch

Filtering

Heating

OKARA 1663 g

SOYMILK 6716 g (1943 g removed for Soymilk sample)

3000 g Soymilk used for Tofu Production

Heating & Mixing 200 mls Calcium Sulfate solution added

TOFU 550 g

WHEY 2590 g

SOYBEAN ISOLATE PROCESSING MATERIAL BALANCE

Processing Sample No. **2 (Treated, Trt. 8)** Sample ID: **REG08096-00254**

SOYBEAN FLOUR 500 g

| Water 7500 g

| Extraction (pH adusted to 8.5 with 18 mls of 24% NaOH)

| Centrifugation
& Filtering

| Liquids 6201 g

| Solids (Insoluable Residue) 1519 g

| Precipitation (pH adjusted to 4.5 with 64 mls of 25% HCl)
& Centrifugation

| Protein Curd 784 g

| Liquids 5340 g

| 1st Washing (2500 g Water added to Solids)
& Centrifugation

| Protein Curd 557 g

| Liquids 2718 g

| 2nd Washing (2500 g Water added to Solids)
& Centrifugation

| Protein Curd 495 g

| Liquids 2543 g

| (1000 mls Water added to Protein Curd)
(pH adjusted to 6.8 with 8 mls of 24% NaOH)

| Freeze Drying

SOYBEAN ISOLATE 116.8 g

SOYBEAN CONCENTRATE PROCESSING MATERIAL BALANCE

Processing Sample No. **2 (Treated, Trt. 8)** Sample ID: **REG08096-00254**

SOYBEAN FLOUR 600 g

Aqueous Ethanol 6000 g

Extraction

Centrifugation

Solids 1416 g

Liquids (Aqueous Ethanol) 4676 g

Washing (3000 g Water added to Solids)
(pH adjusted to 4.6 with 68 mls of 25% HCl)

Centrifugation

Protein Curd 1469 g

Liquids 2757 g

(1200 mls Water added to Protein Curd)
(pH adjusted to 6.8 with 38 mls of 24% NaOH)

Freeze Drying

SOYBEAN CONCENTRATE 331 g

Standard Operating Procedure
For
GLP Technologies
22723 State Highway 6 South
Navasota, Texas 77868

SOYBEAN: BATCH PROCESSING METHOD

SOP NUMBER: G.2 REVISION NUMBER: 04

Revised by: K Todd Hausman Date: 9-18-08
K. Todd Hausman

Title: Processing Specialist, GLP Technologies

QA REVIEW:

Reviewed by: Doyle L. Borchardt Date: 10-30-2008
Doyle L. Borchardt

Title: Quality Assurance Coordinator, GLP Technologies

MANAGEMENT APPROVAL:

Malcolm Gerngross Date: 9/21/2008
Malcolm Gerngross
Title: Manager, GLP Technologies

ANNUAL REVIEW:

<u>Date</u>	<u>Reviewer's Signature</u>	<u>Date</u>	<u>Reviewer's Signature</u>
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Note: If generation of aspirated grain fraction (grain dust) is requested, whole soybeans will first be processed according to SOP G.17. For more efficient processing, it is recommended that RAC and/or fractions be allowed to come to room temperature before proceeding with processing step.

1. **DRYING AND CLEANING.**

Drying. Moisture content of incoming seed (RAC) will be determined. For separation of hull and kernel fractions, moisture content of whole seed will be 13.5% or less. If moisture is above 13.5%, dry at 130-160°F in a Steelman Industries oven or similar oven until the moisture range is 10.0 to 13.5%. After drying (if necessary), seed is cleaned by aspiration and screening.

Aspiration. Whole seed shall be aspirated with a Kice aspiration unit to remove light impurities (light plant particles, dust, soil, etc.).

Screening. A Hance seed cleaner or similar separator is used with screens sufficient in size to separate whole seed from extraneous material (small and large plant material, etc.). Due to varying sizes of incoming seed, Processing Specialist has discretion on screen sizes used. Screening will separate large and small screenings from cleaned seed.

Conventional processing order is drying (if necessary), aspiration, and then screening. Due to varying conditions of incoming samples, the order may be altered to obtain proper machine function. Drying and cleaning steps will produce four fractions: cleaned seed, light impurities, large screenings, and small screenings.

Exception: If sample appears to have been cleaned prior to arrival (operator discretion), aspiration and screening steps can be omitted.

If production of soymilk and/or tofu is requested, remove a representative portion of cleaned soybeans (adequate for obtaining the requested amounts of fractions) and proceed to steps 12 and 13.

2. **HULLING AND SEPARATION.** A Harvester/Roscamp cracking roll, Forsberg huller or similar mill is used to crack soybean. A combination of the mills may be used. The mill(s) to be used for cracking the beans shall be set in a manner to produce final kernel material with a limited amount of fines and no whole beans.

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or halves. Hulls are separated from kernel material by aspiration with a Kice aspiration unit and/or screening with a Hance cleaner. Small amounts of hulls may be hand screened. Screen size will be recorded in the data. Resulting fractions from the hulling and separation step are kernel and hull material.

3. **MOISTURE ADJUSTMENT OF KERNEL MATERIAL.** Kernel material is mixed in a rotating type mixer (identified in the data) while moisture of kernel is adjusted to 13.5% (refer to table 1 for moisture adjustment formula). After moisture addition, continue mixing for 15 minutes (± 2 minutes). Kernel is removed from mixer and allowed to equilibrate for a minimum of 12 hours before further processing or placement into frozen storage.
4. **CONDITIONING.** Moisture adjusted kernel material is heated to 160-175°F in a Marion mixer or similar mixer and held for 15 to 30 minutes in the temperature range. After heating, material is promptly flaked in a A. T. Ferrell flaking roll with a 0.008 to 0.013 inch roll gap setting.

Note: The following extruder/expander step will be utilized unless kernel material quantity is limited or defatted meal is to be used for flour, protein concentrate or isolate production (Discretion of Process Principal Investigator). If the expander/extruder is not used, operator will proceed to step 6 (solvent extraction).

5. **USE OF EXPANDER/EXTRUDER.** Flaked material from conditioning step is promptly fed through an Readco Manufacturing, Incorporated continuous processor. Steam is directly injected into barrel at a rate to produce desired visible product and proper machine function.

Material exits through an adjustable die plate at a temperature range of 200-250°F. Material not meeting temperature range may be recycled through the processor. Material exiting expander is called "collets".

Note: Optimal collets exiting die adjustable die plate should exhibit foaming surface oil.

Collets will be dried in a Steelman Industries oven or similar oven at 150-180°F for 30 to 40 minutes. Record actual number of minutes sample was dried. At

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Processing Specialist's discretion, the dried collets can be chopped in the Glen Mills mill with spike toothed plate or similar mill to produce a coarse full-fat meal. Set mill at a low RPM. After sample is chopped, open mill cover plate and recover the bulk of clinging product from internal mill surface. Proceed to extraction step promptly after product recovery.

6. **SOLVENT EXTRACTION.** Crude oil in expanded material is extracted with hexane in a stainless steel, batch extractor. Fresh hexane at 120-140°F is added until material is covered. After 30 minutes, drain hexane and crude oil (miscella) and add fresh heated hexane. Cycle is repeated twice, but for 15-30 minutes during the last washes. At end of this period, the solvent extracted meal can be air desolventized or steam toasted. Resulting fractions from solvent extraction step are miscella (crude oil and hexane) and solvent extracted meal.

Note: It is permissible to reclaim hexane and use it within a set of study samples (e.g., samples greater than 50 lbs.). If processor uses reclaimed hexane, processor shall use fresh hexane on final wash.

6A. **Desolventization.** Meal is desolventized by forcing warm air through the meal while in the batch extractor or by utilizing a preheated (20 to 60 psi), steam jacketed Reliance Industries paddle mixer. If paddle mixer is used, allow product temperature to reach 210-220°F and then remove. Document desolventization method used in raw data.

6B. **Toasting.** Oil spent flakes or collets from the solvent extraction step are placed in the Reliance Industries paddle mixer. The solvent soaked material is placed in the preheated mixer (steam pressure to jacket will be 20 to 60 psi) after final miscella is drained. Turn mixer on and inject steam (5 to 15 psi) directly on material. Be sure condensate is absent from steam line and the condensate trap is functional prior to injecting steam on the product. With a temperature probe in the vapor vent of the mixer, vapor temperature is observed while steam is injected. When vapor temperature reaches 200-210°F (approximate occurrence in 4 to 10 minutes), stop direct steam injection. [Note: For large amounts of solvent extracted material, temperature range will not be reached. Processing Specialist will make a visual observation that no more hexane is being removed from the product and will then discontinue steam injection.] Continue mixing and heating until a product temperature of 220-240°F is achieved (hold in this temperature range for 30 to 60 minutes [actual toasting time is contingent on protocol requests]). After the toasting-desolventization step, immediately remove

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the product from the mixer and allow to cool to room temperature.

The operator will record steam pressure to the mixer jacket, steam pressure of injection steam, time required for vapor temperature to reach 200-210°F (if applicable), maximum temperature, time in 220-240°F range, and the time product is removed from heat.

6C. Toasting of small sample sizes (less than 25 pounds prior to solvent extraction): Oil spent flakes or collets are desolventized with warm air. After desolventizing, the moisture content of the meal is determined and then adjusted to 12-15% (Record final moisture). Allow the moisture to equilibrate in the meal for 15-30 minutes. Meal is then placed into a steam or electric heated cooker (Processing Specialist will identify cooker in data) and heated to 220-240°F. Hold the meal in the temperature range for 30-60 minutes. (Operator shall use discretion on length of time based on appearance of toasted meal.)

Optional step: On occasion, the toasted meal will contain large particles that formed during steam or water addition. This material may not be sufficiently toasted. At the PPI's and processors discretion, this material may be removed using a 1/8 inch or similar size screen. Material passing through the screen will be collected as toasted meal. Additionally, the material on top of the screen may be chopped in a Glen Mills mill and toasted again. Chopping and retoast will be at the discretion of the PPI. If not chopped and retoast, the material over the screen will be weighed and discarded. If toasted meal is screened, record all pertinent information (i.e., machines, screen sizes, etc.) in comments section of processing form. If material is chopped and retoast, obtain a new toasting form to record data. Adjust moisture of meal to 12 to 15% and retoast the meal to a product temperature of 220-240°F for 10-30 minutes. Record mills and screens used to chop. Combine the two toasted meal fractions into a homogeneous sample.

Table 1

Moisture adjustment formula

$$\left[\frac{100 - \% \text{ moisture (actual)}}{100 - \% \text{ moisture (desired)}} - 1 \right] \times 454 \text{ g/lb} \times \text{sample wt.} = \text{grams of H}_2\text{O required}$$

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7. **CRUDE OIL RECOVERY.** Miscella is separated in a laboratory vacuum evaporator. During this procedure, crude oil reaches a temperature of 195-205°F. A Buchi rotavapor (with water bath temperature of 195-205°F will be used, if miscella quantity is insufficient for operation of the evaporator (operator discretion). Hexane reclaimed from residue samples is disposed of according to environmental regulations. Laboratory analysis of each sample is the option of the sponsor.
8. **OIL DEGUMMING.** A weighed crude oil sample is placed in a water bath or jacketed container. A weighed amount of water (2.0 to 3.0 % by weight of crude oil) is mixed with the crude oil for 30-60 minutes at slow RPM (Arrow 350 mixer with a # 2 setting) and a water bath or jacketed vessel solution temperature of 158-168°F. The solution is cooled to room temperature, centrifuged, and filtered. The fraction settling to the bottom of the container is crude lecithin. Resulting fractions from the oil degumming step are degummed oil and crude lecithin (gums).
9. **ALKALI REFINING OF DEGUMMED OIL.** After the percent free fatty acid is determined in the crude oil (use SOP E.9 for FFA determination), a weighed oil sample is placed in a water bath or jacketed container. A weighed amount of 12 degree Baumé NaOH is added to the crude oil as calculated on the basis of the amount of free fatty acids present (refer to Table 2). The solution is mixed for 90 minutes (± 1 minute) at high RPM (Arrow 350 mixer set at #8 setting) at 68-75°F, and then for 20 minutes (± 1 minute) at low RPM (Arrow 350 mixer set at # 2) at 145-153°F. Neutralized oil is allowed to settle at 140-149°F for one hour. The oil solution can be centrifuged or refrigerated overnight (minimum of 12 hours). If the solution is centrifuged, the one hour settling period can be bypassed. After centrifugation or refrigeration, refined oil is decanted and filtered. The fraction settling to the bottom of the container is soapstock. Resulting fractions from the oil refining step are refined oil and soapstock.

Note: If oil is not degummed, use 14 degree Baumé NaOH in place of 12 degree Baumé (refer to Table 3).

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Note: For degumming and refining temperatures, water bath or jacket solution temperature will be used. Air driven mixers may be used during the degumming and refining process provided that at least one sample is being stirred with an Arrow 350 mixer. The air driven mixer(s) will be adjusted to approximately match the speed(s) of the Arrow mixer.

TABLE 2 (Degummed Soybean Oil) Weight of 12° Baumé NaOH in Grams Per 100 Grams of Oil

FFA (%)	NaOH (g)	FFA (%)	NaOH (g)	FFA (%)	NaOH (g)
0.1	1.4	1.1	3.2	2.1	5.0
0.2	1.6	1.2	3.4	2.2	5.2
0.3	1.8	1.3	3.6	2.3	5.3
0.4	2.0	1.4	3.7	2.4	5.5
0.5	2.1	1.5	3.9	2.5	5.7
0.6	2.3	1.6	4.1	2.6	5.9
0.7	2.5	1.7	4.3	2.7	6.0
0.8	2.7	1.8	4.4	2.8	6.2
0.9	2.9	1.9	4.6	2.9	6.4
1.0	3.0	2.0	4.8	3.0	6.6

AOCS official method Ca 9c-52 (table 1, 12° Baumé - 0.1gram excess).

TABLE 3 (Crude Soybean Oil) Weight of 14° Baumé NaOH in Grams Per 100 Grams of Oil

FFA (%)	NaOH (g)	FFA (%)	NaOH (g)	FFA (%)	NaOH (g)
0.1	5.2	1.1	6.9	2.1	8.7
0.2	5.3	1.2	7.1	2.2	8.9
0.3	5.5	1.3	7.3	2.3	9.0
0.4	5.7	1.4	7.5	2.4	9.2
0.5	5.9	1.5	7.7	2.5	9.4
0.6	6.0	1.6	7.8	2.6	9.6
0.7	6.2	1.7	8.0	2.7	9.8
0.8	6.4	1.8	8.2	2.8	9.9
0.9	6.6	1.9	8.3	2.9	10.1
1.0	6.7	2.0	8.5	3.0	10.3

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Amendment 1

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For Free Fatty Acids above 3.0, refer to American Oil Chemists Society Official Methods and Recommended Practices, Fourth Edition, 1990. official method Ca 9b-52 (table 4, 14°Bé-87.5%).

10. **BLEACHING OF REFINED OIL.** A weighed refined oil sample is mixed and heated to 104-122°F prior to adding 1.0% activated bleaching earth (by weight of oil). As the solution is mixed, a vacuum of 24-30" Hg is applied, and the temperature is increased to a range of 185-212°F. Maintain the agitation, vacuum, and temperature for 10 to 15 minutes. At the end of this period, reduce temperature of solution to 136-154°F and break vacuum. Bleached oil is promptly filtered.
11. **DEODORIZATION.** A weighed oil sample is heated and steam bathed for 30 minutes \pm 2 minutes under a vacuum of 26 to 30" Hg. Temperature of the oil is held between 428-446°F. After the 30 minute period, the oil sample is cooled to 276-302°F. At this time a citric acid solution (0.5%) is added to the oil sample at a rate of one milliliter per 100 grams of oil. The sample is allowed to cool, under vacuum, to 220-239°F. Vacuum is then broken and the oil sample is promptly transferred to a shipping container. Resulting fractions from the oil deodorization step are deodorized oil and distillates (small layer of product at the top of distillate container).
12. **PRODUCTION OF SOYMILK.** Wash whole, clean soybeans with water to remove small clinging particles. Water washed beans are soaked for a minimum of 12 hours in water at ambient temperature (5 grams of water per 1 gram of soybean). After the soaking period, drain and rinse with cool water. (Soaked beans should have approximately doubled in weight). Discard the water unless otherwise requested. Place the soaked beans in a blender with water (ratio of 100 grams of soaked beans to 375 grams of water) and grind for three minutes on high. After grinding, filter with Whatman # 41 filter paper to remove fibrous materials/pulp (raw okara). Collect the liquid portion (soymilk). The raw okara is weighed and sampled if requested.

Heat the soymilk to 200°F \pm 5°F and maintain this temperature for 10 minutes (\pm 1 minute). Stir mixture during heating period. After the heating period, the soymilk is sampled if requested.

Note: Reverse Osmosis (R/O) water shall be used.

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13. **PRODUCTION OF TOFU.** Soymilk, from step 12, is mixed and heated to a temperature of 167-185°F. After this temperature is achieved and maintained, a calcium sulfate solution (15 grams of calcium sulfate per 100 ml of boiled water) is slowly added while continuing to mix. As the curd forms, add calcium sulfate solution until whey (liquid) becomes transparent. Drain off whey. The resulting curd is tofu. Whey is discarded unless otherwise requested in the protocol.

Note: Reverse Osmosis (R/O) water shall be used.

14. **PRODUCTION OF SOY ISOLATE AND/OR CONCENTRATE.**

13A. **Production of Flour.** Defatted meal (warm or ambient air desolventized only), from step 5A is ground in a Glen Mills disc mill (or similar mill). A Great Western Sieve with a 62 mesh (62SSBC) screen (282 micron) is used for particle clarification. Flour passing through this screen will be used for protein isolation and concentration.

13B. **Production of Protein Isolate.** Flour is added to reverse osmosis (RO) water (15:1 ratio by weight, water:flour) and mixed for a time period (suggested 15 minutes or less) and at a RPM rate sufficient enough to provide proper dispersion (no visible aggregates of undissolved flour present). Antifoam agent may be added.

The solution temperature is increased to 122.0 - 140.0°F and 24% sodium hydroxide (NaOH) is added until solution maintains a pH of 8.5 pH \pm 0.1.

Note: The pH meter is standardized with a commercially available standard solution.

Allow solution to mix for 45 minutes (\pm 2 minutes). After mixing, solution is centrifuged. The resulting liquid fraction is filtered (recommend 5-20 micron filter). The solid fraction (insoluble residue) is weighed and, if requested, sampled.

At a low mixing RPM, the pH of the filtered liquid fraction is adjusted to 4.5 \pm 0.1 with 25% hydrochloric acid (HCl). The solution temperature is allowed to decrease with no artificial cooling applied. When the desired pH is achieved,

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centrifuge and recover the liquid (whey) and solids. The solid fraction is suspended in RO water (5:1 ratio by weight, water to starting weight of flour) and centrifuged. After centrifugation, the solid fractions is again suspended in RO water (5:1 ratio) and centrifuged. The whey fractions are discarded unless otherwise requested in the protocol.

After centrifugation, add enough RO water to the solid fraction to form a consistent slurry for freeze drying. Adjust the pH of this slurry to 6.8 ± 0.1 with 24% NaOH. After pH adjustment, the slurry is placed in freeze drying containers and placed in the freezer overnight or for a minimum of 12 hours and frozen. The frozen samples are placed on a Labconco freeze dryer and freeze dried. The resulting freeze dried product is protein isolate. Type and model of freeze dryer will be documented in the processing notes.

13C. Production of Soy Concentrate. Flour (from step 13A) is added to 65-70% aqueous ethanol (10:1 ratio by weight, aqueous ethanol:flour) and mixed for 15 minutes or less and at a RPM rate sufficient enough to provide proper dispersion. [Note: The terminology "proper dispersion" is defined as no visible aggregates of undissolved flour present.] The solution is mixed for 45 minutes (± 2) minutes at a temperature of 104 - 122°F.

The solution is centrifuged to separate liquid (contains sugars, ash and other minor constituents) and solid (concentrated protein curd) fractions. The solid fraction is suspended in reverse osmosis (RO) water (5:1 ratio by weight, water to starting weight of flour) and the pH is adjusted to 4.5 (± 0.1) with 25% hydrochloric acid (HCl).

Note: The pH meter is standardized with a commercially available standard solution.

After pH adjustment, allow solution to mix at 104 - 122°F for 10 minutes (± 2 minutes). At the end of this period, centrifuge solution. After centrifugation, add enough RO water to the solid fraction to form a consistent slurry for freeze drying. Adjust the pH of this slurry to 6.8 ± 0.1 with 24% NaOH. After pH adjustment, the slurry is placed in freeze drying containers and placed in the freezer overnight or for a minimum of 12 hours and frozen. The frozen samples are placed on a Labconco freeze dryer and freeze dried. The resulting freeze dried product is protein concentrate. Type and model of freeze dryer will be documented in the processing notes.

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Appendix 4. Analytical Method

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Determination of Dicamba and Its Major Metabolites in Soybean Matrices by LC/MS/MS

AMENDMENTS: ☐ ☐ ☐ ☐ ☐

Overview

Purpose & scope

This SOP describes the method used by ESTC personnel to determine the residues of dicamba and its endogenous metabolites, analyzed as chemophores 5-hydroxydicamba, DCSA and DCGA, in soybean matrices. Analyte-specific stable labeled ISs are used to compensate for matrix effects and procedural recovery. (Refer to Appendix A for analyte and standard compound structures.) The radiovalidation, which demonstrates the extraction efficiency and recovery of the method, is conducted using soybean hay and seed samples from study 06-98-M-1, "Metabolism of Dicamba in Dicamba-Tolerant Soybeans", in which [^{14}C]-dicamba was used as the test substance.

Principles/ summary

Soybean matrices are extracted using 40:60 ACN:water. An aliquot of the extract is hydrolyzed in 1 N HCl at 95 °C in a water bath. The hydrolysate is partitioned with 40:60 ethyl acetate:isooctane and the organic phase is partially concentrated. Water is added to the organic phase and the sample is concentrated until only the aqueous solution remains. Following evaporation of the organic layer, the samples are filtered, acidified, and quantitated by LC/MS/MS with turbo ion spray ionization in negative ion mode. The lower LLMV for DCSA and DCGA is 0.010 µg/g. The LLMV for dicamba and 5-hydroxydicamba is 0.020 µg/g. In defatted flour, the LLMV for 5-hydroxydicamba is 0.050 µg/g.

Safety precautions

Follow current Monsanto safety policies. Important precautions include:

- Some solvents **are volatile and/or flammable**. Care must be taken to keep them away from **any source of ignition**.
- Ensure proper ventilation **to avoid excessive exposure to toxic solvent vapors**.
- Read and follow all safety warnings on reagent containers.
- HCl is **very corrosive**. If any chemical gets on the skin, wash affected area with soap and water. If any splashes in the eye, rinse immediately with water and seek medical attention.

Abbreviations

The following abbreviations are used in this SOP:

Abbreviation	Definition
ACN	acetonitrile
ACS	American Chemical Society
amu	atomic mass unit
API	atmospheric pressure ionization
DCGA	3,6-dichlorogentisic acid
DCSA	3,6-dichlorosalicylic acid
DI	deionized
g	gram
HPLC	high-performance liquid chromatography

IS	internal standard
L	liter
LC/MS/MS	liquid chromatography tandem mass spectrometry
LLMV	lower limit of method validation
LOQ	limit of quantitation
M	molar
mL	milliliter
mm	millimeter
mM	millimolar
MRM	multiple reaction monitoring
N/A	not applicable
ND	not detected
Q	quadrupole
QC	quality control
RSD	relative standard deviation
RT	room temperature
µg	microgram
µm	micrometer
UPLC	ultra-performance liquid chromatography
V	volt

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Materials**Equipment &
apparatus**

Specific brands are listed to aid the analyst in finding items. Generally, equivalent equipment obtained from other vendors may be substituted for the specified product.

Equipment/apparatus	Number/specification
UPLC system	Waters ACQUITY™
Mass spectrometer	Applied Biosystems API 5000 MS/MS with Windows based workstation using Analyst™ software

Balance: <ul style="list-style-type: none">AnalyticalTop-loading	Mettler: <ul style="list-style-type: none">AE 163PM 4800
Centrifuge	Sorvall RC-5B, RC-5C & RC-6
HPLC column	<ul style="list-style-type: none">Analytical: Thermo Scientific Betasil Phenyl (100 mm x 4.6 mm x 5 µm), Xperten cat. no. 948402In-line filter: ACQUITY™ (2.1 mm diameter frit, 0.2 µm porosity), Waters cat. no. 700002775
Pipettes	<i>Fixed and variable</i>
RapidVap™ evaporator	Labconco cat. no. 7900002
Sample shaker	Eberbach Corporation, VWR cat. no. 57007-101
Vacuum pump	Welch Duo Seal cat. no. 188471
Phase separator filter paper	Whatman™ cat. no. 2200 150
75 mm glass funnel	Fisher cat. no. 10-346B
Vial with Teflon-lined septum: <ul style="list-style-type: none">2 mL glass screw-cap2 mL amber glass screw-cap12 mL amber glass screw-cap60 mL glass screw-cap	<ul style="list-style-type: none">National Scientific cat. no. C4000-1WNational Scientific cat. no. C4000-2WNational Scientific cat. no. B7999-12AQorpak cat. no. GLC-07876
4 oz. amber glass bottle	VWR cat. no. 16153-102
Teflon lined caps	VWR cat. no. 16161-188
250 mL polypropylene wide-mouth bottle	VWR cat. no. 414004-125
15 mL polypropylene disposable centrifuge tube	Corning cat. no. 430052

Reagents & standards

Specific brands are listed to aid the analyst in finding items. Generally, equivalent reagents and standards obtained from other vendors may be substituted for the specified product.

Reagent/standard	Number/specification
REAGENTS	
ACN (HPLC grade)	Burdick & Jackson cat. no. 015-4
Ammonium acetate (ACS grade)	Fisher cat. no. A639-500
DI water	Milli-Q
Ethanol (ACS grade, 200 proof)	Aaper cat. no. E200
Ethyl acetate (ACS grade)	EMD cat. no. EX0240P-4
Formic acid (ACS grade)	EMD cat. no. FX0440-7
Hydrochloric acid (ACS grade)	JT Baker cat. no. 9535-00
Isooctane (2,2,4-trimethylpentane, HPLC grade)	Sigma-Aldrich cat. no. 6504-39-4L
Isopropanol (ACS grade)	EMD cat. no. PX1835-9
Methanol (HPLC grade)	EMD cat. no. MX0488-1

<u>ANALYTICAL STANDARDS</u>	
Dicamba	CAS # 1918-00-9, purity, >95%
5-hydroxydicamba	CAS # 7600-50-2, purity >95%
DCSA	CAS # 3401-80-7, purity >95%
DCGA	CAS # 18688-01-2, purity >95%
<u>INTERNAL STANDARDS</u>	
Dicamba, 3,6-dichloro-2-methoxybenzoic-1,2,3,4,5,6- ¹³ C ₆ acid	
5-hydroxydicamba, 2,5-dichloro-3-hydroxy-6-methoxybenzoic-1,2,3,4,5,6- ¹³ C ₆ acid	
DCSA, 3,6-dichloro-2-hydroxybenzoic-1,2,3,4,5,6- ¹³ C ₆ acid	
DCGA, 2,5-dichloro-3,6-dihydroxybenzoic-1,2,3,4,5,6- ¹³ C ₆ acid	

Spiked recovery experiments conducted during method development revealed an issue for DCGA and ¹³C₆-DCGA. The recoveries were poor when the analytes were spiked directly onto hay and forage as well as when the analytes were spiked into a container containing matrix and extraction solution. The issue was circumvented by spiking dicamba, 5-hydroxydicamba, DCSA, and the corresponding ¹³C₆ analogs directly onto the matrix and extracting. DCGA and ¹³C₆-DCGA were spiked into the 10 mL extraction aliquot (See “**Sample Analysis**”).

Solution Preparation

Mobile phases

Mobile Phase A - 5 mM aqueous ammonium acetate:

- Combine 0.385 g of ammonium acetate and 1000 mL of DI water.
- Adjust to pH 5.0 using glacial acetic acid and ammonium hydroxide.
- Mix well and store at RT.

Note: The pH may be adjusted to optimize the chromatography.

Mobile Phase B - 100% ACN: Store at RT.

The absolute volume of the mobile phases may be varied at the discretion of the analyst as long as the correct proportions of the components are maintained.

Needle washes

Strong needle wash - 1/1/1 (v/v/v) methanol/ACN/isopropyl alcohol:

- Using a graduated cylinder(s), add 300 mL of methanol to 300 mL of ACN to 300 mL of isopropyl alcohol in a suitable container.
- Mix well and store at RT.

Weak needle wash - 5% ACN (aqueous):

- Using a graduated cylinder(s), add 50 mL of ACN to 950 mL of DI water in a suitable container.
- Mix well and store at RT.

**Reagent
solutions****40:60 ACN:water:**

- Combine 1600 mL of ACN and 2400 mL of DI water.
- Mix well and store at RT.

40:60 ethyl acetate:isooctane:

- Combine 1600 mL of ethyl acetate and 2400 mL of isooctane.
- Mix well and store at RT.

9% formic acid (aqueous):

- Add 9 mL of concentrated formic acid to 91 mL of DI water.
- Mix well and store at RT.

The absolute volume of the reagent solutions may be varied at the discretion of the analyst provided that the correct proportions of the components are maintained.

**Stock
solutions****100 µg/mL Individual Analyte:**

- Weigh 0.01000 g \pm 0.0001 g of each analytical grade analyte.
- Transfer into individual amber glass bottles. **Note:** The weighing container may be rinsed with a known volume of absolute ethanol to ensure complete transfer of the analyte from the container to the bottle.
- Dilute with absolute ethanol (volume adjusted for purity) to create a 100 µg/mL solution.
- Mix thoroughly.
- Solutions must be stored at ≤ 10 °C.

100 µg/mL Individual $^{13}\text{C}_6$ IS:

- Weigh 0.0100 g \pm 0.001 g of each analytical grade labeled IS. Transfer into individual amber glass bottles. **Note:** The weighing container may be rinsed with a known volume of absolute ethanol to ensure complete transfer of the IS from the container to the bottle.
- Dilute with absolute ethanol to create a 100 µg/mL solution.
- Mix thoroughly.
- Solutions must be stored at ≤ 10 °C.

The absolute weight of the analyte(s), including the $^{13}\text{C}_6$ analog(s), may be varied at the discretion of the analyst provided that the correct proportions of the components are maintained.

At times, it may become necessary to create high concentration fortification spiking solutions that cannot be achieved with a 100 µg/mL stock solution. Higher concentration stock solutions may be prepared as long as the preparation is documented.

Fortification solutions

In order to estimate the analytical accuracy of the method within a given set of soybean matrix samples, it is necessary to fortify a certain number of control soybean matrix samples with a known amount of each analyte. Control samples are fortified at different analyte levels across the range of anticipated concentrations in the samples. There are two fortification solutions needed to perform analyses. One solution is a three-analyte solution containing dicamba, 5-hydroxydicamba, and DCSA. The other solution contains only DCSA. The solutions may be prepared in the following manner. Other concentrations may be used provided that the preparation is documented.

Individual stock concentration (µg/mL)	Volume of stock used (mL)	Fortification spiking solution total volume (mL)	Fortification spiking solution concentration (µg/mL)	Matrix fortification (µg/g)
100	2.0	50	4.00*	0.400
100	1.0	50	2.00*	0.200
100	0.5	50	1.00*	0.100
Fortification spiking solution concentration (µg/mL)	Volume of spiking solution used (mL)	Fortification spiking solution total volume (mL)	Fortification spiking solution concentration (µg/mL)	Matrix fortification (µg/g)
4.00	5.0	50	0.400	0.040
2.00	5.0	50	0.200	0.020
1.00	5.0	50	0.100	0.010
0	50	50	0.00	0.00

* Aliquots of these fortification solutions are diluted to create lower concentration levels.

Example preparation of high concentration fortification spiking solution prepared from stock (4.00 µg/mL):

- Into a 50 mL volumetric flask, pipet 2.0 mL of each 100 µg/mL stock solution.
- Fill the flask to volume with ACN.
- Transfer the solution to an amber glass bottle.
- Mix well.

Example preparation of low concentration fortification spiking solution prepared by serial dilution of higher concentration fortification spiking solution (0.020 µg/mL):

- Into a 50 mL volumetric flask, pipet 5.0 mL of the 2.00 µg/mL fortification spiking solution.
- Fill the flask to volume with ACN.
- Transfer the solution to an amber glass bottle.
- Mix well.

Each example may be used to prepare two different fortification spiking solutions: 1) a three-analyte fortification spiking solution containing dicamba, 5-hydroxydicamba, and DCSA or 2) the DCSA spiking solution. Fortification solutions are prepared in ACN, and are stored in amber glass with airtight Teflon caps at $\leq 10^{\circ}\text{C}$ to avoid evaporation.

Calibration standards

The instrument calibration standards are made at convenient concentrations of each analyte. The solutions may be prepared in the following manner. Other concentrations may be used provided that the preparation is documented.

Individual stock concentration (µg/mL)	Volume of stock used (mL)	Calibration standard spiking solution total volume (mL)	Calibration standard spiking solution concentration (µg/mL)	Working calibration standard concentration (µg/L)
100	5.0	20	25.0*	500
100	2.5	20	12.5*	250
100	1.0	20	5.00*	100
Calibration standard spiking solution concentration (µg/mL)	Volume of spiking solution used (mL)	Calibration standard spiking solution total volume (mL)	Calibration standard spiking solution concentration (µg/mL)	Injected calibration standard concentration (µg/L)
25.0	2.0	20	2.50*	50.0
12.5	2.0	20	1.25	25.0
5.00	2.0	20	0.500*	10.0
2.50	2.0	20	0.250*	5.0
0.500	2.0	20	0.050	1.0

* Aliquots of these calibration standard solutions are diluted to create lower concentration levels.

The calibration standard solutions are prepared in ACN, and are stored in amber glass with airtight Teflon caps at $\leq 10^{\circ}\text{C}$ to avoid evaporation.

Working calibration standard:

- Pipet 0.10 mL of the appropriate concentration calibration standard spiking solution into a suitable container.
- Pipet 0.10 mL of the 2.00 µg/mL three-analyte IS solution into every container.
- Pipet 0.10 mL of the 2.00 µg/mL DCGA IS solution into every container.
- Pipet 2.20 mL of DI water into every container to achieve a total volume of 2.5 mL.
- Mix well.
- Dilute an aliquot of the 2.5 mL solution 1:1 with 9% formic acid solution in an autosampler vial. Mix well. **Note:** This is typically done by pipetting 900 µL of the calibration standard solution into an autosampler vial that already contains 900 µL of 9% formic acid solution. The absolute volume of the calibration standard solution and the 9% formic acid solution may be varied at the discretion of the analyst provided that the correct proportions of the components are maintained.

**Stable labeled
isotope IS
solutions**

There are two different working IS solutions needed to perform analyses: one solution is a multi-analyte solution containing $^{13}\text{C}_6$ -dicamba, $^{13}\text{C}_6$ -5-hydroxydicamba, and $^{13}\text{C}_6$ -DCSA; the other solution contains only $^{13}\text{C}_6$ -DCGA. The stock solution aliquots are diluted using ACN to create the working IS solutions. The absolute volume of the solutions may be varied at the discretion of the analyst provided that the correct proportions of the components are maintained. The solutions must be stored at $\leq 10^\circ\text{C}$.

Stock solution concentration ($\mu\text{g/mL}$)	Volume of stock used (mL)	IS solution total volume (mL)	IS solution concentration ($\mu\text{g/mL}$)
100	1	50	2.00

IS diluent solution:

- Add 1 mL of the three-analyte IS solution and 1 mL of the DCGA IS solution into 98 mL of 40:60 ACN:DI water.
- Mix well.

This solution must be prepared fresh each day of use. The absolute volume of the solution may be varied at the discretion of the analyst provided that the correct proportions of the components are maintained.

Sample Analysis**Sample
preparation**

The following applies to soybean seed, hay, forage, and all processed fractions except tofu and lecithin. The fractions included soybean hulls, defatted flour, toasted defatted meal, protein isolate, protein concentrate, crude lecithin, degummed oil, refined bleached deodorized oil, soymilk, and tofu. See Appendix B for the modifications needed to prepare tofu and lecithin for sample analysis.

Step	Action
1	Weigh out 10 ± 0.1 g of ground dicamba-tolerant matrix into a 250 mL polypropylene bottle or other suitable container. Note: If samples are pre-weighed, they should be returned to frozen storage ($\leq 20^\circ\text{C}$) pending completion of the analysis.
2	For fortified samples, pipet 1.0 mL of the appropriate concentration three-analyte fortification solution into the respective container (See “ Fortification solutions ” in “ Solution Preparation ” for typical concentration levels). Suggestion: Turn on the water bath and allow it to begin heating prior to executing this step.
3	Pipet 1.0 mL of the $2.00\ \mu\text{g/mL}$ three-analyte IS solution into every container.
4	Add approx. 98 mL of 40:60 ACN:DI water.
5	Cap the bottle tightly and place on a shaker for approx. 30 minutes.
6	Centrifuge at approx. 8000 rpm for approx. 10 minutes. Note: The purpose of this step is to separate the supernatant from the matrix cake. The rpm's may be varied to achieve this purpose.

- 7 Add approx. 17 mL of DI water and 2.7 mL of concentrated HCl to an amber glass bottle. **Note:** This step may be executed while steps 5 and 6 are being performed.
- 8 The steps below are followed depending on the sample type (see summary table below). Preparations must be documented.
- 8a) For undiluted field samples and control blanks:**
 A) Pipet 10 mL of the supernatant from step 6 into the amber glass bottle.
 B) Pipet 0.10 mL of the 2.00 µg/mL DCGA IS solution into the amber glass bottle.
- 8b) For undiluted fortified samples:**
 A) Pipet 10 mL of the supernatant from step 6 into an amber glass bottle.
 B) Pipet 0.10 mL of the appropriate concentration DCGA fortification solution into the respective amber glass bottle.
 C) Pipet 0.10 mL of the 2.00 µg/mL DCGA IS solution into the respective amber glass bottle.
- 8c) For diluted field samples (Note:** These volumes correspond to a dilution ratio of 1:10; ratio may be varied as needed (total volume = 10 mL)):
 A) Pipet 10 mL of the supernatant from step 6 into an intermediate container.
 B) Pipet 0.10 mL of the 2.00 µg/mL DCGA IS solution into the container.
 Mix well.
 C) Pipet 1.0 mL of the solution from B and 9.0 mL of the IS diluent solution into an amber glass bottle.
- 8d) For diluted fortified samples (Note:** These volumes correspond to a dilution ratio of 1:10; ratio may be varied as needed (total volume = 10 mL)):
 A) Pipet 10 mL of the supernatant from step 6 into a suitable container.
 B) Pipet 0.10 mL of the appropriate concentration DCGA fortification solution into the respective container.
 C) Pipet 0.10 mL of the 2.00 µg/mL DCGA IS solution into the container.
 Mix well.
 D) Pipet 1.0 mL of the fortified solution and 9.0 mL of the IS diluent solution into the amber glass bottle.

	Undiluted samples/ blanks	Undiluted fortified samples	Diluted field samples	Diluted fortified samples
Added directly to the amber glass bottle	Yes	Yes	No	No
Volume of supernatant	10 mL	10 mL	10 mL	10 mL
Volume of DCGA fortification solution added	N/A	0.1 mL	N/A	0.1 mL
Volume of DCGA IS solution added	0.1 mL	0.1 mL	0.1 mL	0.1 mL
Dilution aliquot taken	No	No	Yes	Yes
Dilution aliquot volume added to the amber glass bottle (as per 1:10 dilution example above)	N/A	N/A	1.0 mL	1.0 mL
IS diluent solution added	No	No	Yes	Yes
IS diluent solution volume added to the amber glass bottle (as per 1:10 dilution example above)	N/A	N/A	9.0 mL	9.0 mL

9	Loosely cap the bottle with a Teflon cap and hydrolyze in a water bath for approx. 1 hour at approx. 95 °C.
10	Cool the bottle using a container of cool water or by leaving it in a fume hood.
11	Add approx. 30 mL of 40:60 ethyl acetate:isooctane to the amber glass bottle.
12	Place the mixture on a shaker for approx. 10 minutes. Suggestion: Turn on the evaporator and allow it to preheat.
13	Collect the organic phase in a suitable evaporator vial using phase separator paper and a funnel.
14	Rinse the glass bottle with approx. 5 mL of 40:60 ethyl acetate:isooctane and add it to its respective funnel containing the phase separator paper and the aqueous layer. Note: At this point, the samples may be stored overnight at approx. 4 °C if necessary.
15	Evaporate the organic phase for approx. 35 minutes in an evaporator fitted with a cold trap containing dry ice. Typical RapidVap™ Evaporator settings: Temperature = 45 °C, Vacuum = 225 mBar, Speed = 35%, Time = 35 minutes.
16	Evaporate the organic layer until only the aqueous solution remains. Avoid evaporating to dryness. Typical RapidVap™ settings: Temperature = 45 °C, Vacuum = 100 mBar, Speed = 35%, Time = 35 minutes. Suggestion: Prepare the working calibration standards once the RapidVap™ has been activated (See “ Calibration standards ” in “ Sample Preparation ”).
17	Pipet 2.5 mL of DI water into the evaporator vial.
18	Filter the solution through a 0.2 µm filter into a suitable container. Note: The evaporator container may be too large for a syringe to reach the sample it contains. The solution may be transferred directly from the evaporator container into a syringe, fitted with a 0.2 µm filter, that has had the plunger removed. The plunger is then replaced and the solution is filtered into a new container.
19	Pipet an equal volume of the sample and 9% aqueous formic acid into an autosampler vial. Mix well.
20	Analyze the solution by LC/MS/MS (inject 10 µL).

Mass spectrometric analysis

A sample set is a group of field (treated, unknown) samples and QC samples prepared together. QC samples are control and fortified control samples. A chromatographic set contains calibration standards, QC samples, and field samples.

Requirements for sample analyses include, but are not limited to, the following:

- **Sample/chromatographic set:**
 - At least one control and one fortified control sample will be prepared and analyzed in every sample set.
 - A chromatographic set must be arranged such that the set begins and ends with a calibration standard (i.e., QC samples, and field samples are bracketed by calibration standards).
 - No more than seven QC and/or treated samples are analyzed between calibration standards.

- **Calibration:**
 - Analyte calibration must be performed for each chromatographic set using a multi-point calibration curve.
 - Each calibration standard level will be injected one time only in a chromatographic set to provide equal weighting across the response curve.
 - The minimum correlation coefficient (r) for the calibration curve of each analyte is 0.99.
 - The lowest standard concentration level must be below the relevant LOQ or LLMV.
 - The calibration standards are arranged in a non-systematic order, relative to standard concentration, throughout the chromatographic set.
 - The analyte response of all treated and fortified controls must not exceed the upper range of the standard calibration curve. When the individual analyte response of any treated sample and fortified control is greater than this range, the sample must be diluted and reanalyzed for that analyte. The diluted sample may be analyzed in any sample set provided that the set contains a control and a fortified control sample and meets the other requirements.
- **QC samples:**
 - The average analytical recovery of fortified samples (corrected for the background found in the unfortified site-specific controls) for all analytes in each set must range between 70 and 120% of the amount fortified. Individual recovery results of fortified samples must range between 65 and 125% of the amount fortified.
 - For each matrix and analyte, the range of fortification levels over all the sets must span the range of concentrations from the LLMV to the highest concentration in the treated samples.

**LC/MS/MS
operating
parameters**

The instruments comprising the analytical system may be divided into two areas:

- UPLC pump and autosampler controlled by Analyst™ or Empower 2™ software.
- Mass spectrometer controlled by Analyst™ software.

Mass spectrometer acquisition parameters are provided for analysis using turbo ion spray ionization for four analytes and four ¹³C IS analogs in negative ion MRM mode.

Parameters for control of the UPLC pump and autosampler are specified in methods established in the ACQUITY™ method editor. Parameters for control of the mass spectrometer are specified in the acquisition method established in the Analyst™ acquisition batch file. Data is collected and stored by the Analyst™ software. The acquisition method containing all mass spectrometer operating parameters is prepared specifically for the target analytes. The typical precursor and product ions for the analytes are shown below. Alternate ions may be used if they provide better data (sensitivity and/or specificity). It is assumed that the instrument has been properly tuned and mass calibrated prior to analysis. The following equipment and conditions are instrument dependent and may be modified to obtain optimal instrument performance and maximize sensitivity. Actual method parameters must be documented in the raw data.

LC parameters:

- HPLC column: Thermo Scientific Betasil Phenyl (100 mm x 4.6 mm x 5 µm)
- In-line filter: ACQUITY™ (2.1 mm diameter frit, 0.2 µm porosity)
- Column temperature: 60 °C
- Sample temperature: 7 °C
- Injection volume: 10 µL
- Flow rate: 600 µL/minute
- Split ratio: None
- Mobile phases: A = 5 mM ammonium acetate, pH 5.0. B = ACN
- Strong needle wash: 1/1/1 (v/v/v) methanol/ACN/isopropyl alcohol
- Weak needle wash: 5% ACN (aqueous)
- Gradient:
 - Initial: 8% A : 2% B
 - 1.0 minutes: 98% A : 2% B (hold)
 - 5.0 minutes: 95% A : 5% B (linear gradient)
 - 7.0 minutes: 80% A : 20% B (linear gradient)
 - 9.0 minutes: 80% A : 20% B (hold)
 - 10 minutes: 68% A : 32% B (linear gradient)
 - 11.5 minutes: 68% A : 32% B (linear gradient)
 - 12 minutes: 0% A : 100% B (linear gradient)
 - 15 minutes: 0% A : 100% B (hold)
 - 15.5 minutes: 98% A : 2% B (linear gradient)
 - 18 minutes: 98% A : 2% B (hold)

Unique interferences in particular specimens may require modification of the gradient. If modifications are necessary, they must be documented in the raw data.

Retention Time (Approximate minutes):

- Dicamba: 8.0
- 5-hydroxydicamba: 4.5
- DCSA: 10.1
- DCGA: 5.3

The total run time is approx. 19 minutes, injection to injection.

Mass spectrometer parameters - negative ion:

- Scan Type: Negative MRM
- Resolution Q1: Unit
- Resolution Q3: Unit
- Ion source: Turbo spray
- Collision gas (CAD): 2 (N₂)
- Curtain gas (CUR): 10 (N₂)
- Gas sources: GS1 = 30 (N₂). GS2: 35 (N₂)
- Ion spray voltage (IS): -1300 V
- Temperature (TEM): 350 °C
- Interface heater (IH): On
- Collision energy (CE)
- Declustering potential (DP)
-

- Declustering Potential (DP)
- Entrance potential (EP)
- Collision cell exit potential (CXP)

Period 1 Experiment 1

Duration of MS Acquisition: Approx. 12 minutes

Analyte	Precursor ion Q1 (amu)	Product ion Q3 (amu)	Scan time (ms)	DP (V)	EP (V)	CE (V)	CXP (V)
Dicamba	219	175	200	-135	-10	-5	-17
5-hydroxydicamba	235	191	250	-70	-10	-10	-11
DCSA	205	161	50	-25	-10	-6	-3
DCGA	221	177	200	-60	-10	-16	-29
¹³ C ₆ -dicamba	225	181	75	-135	-10	-5	-17
¹³ C ₆ -5-hydroxydicamba	241	197	75	-60	-10	-10	-9
¹³ C ₆ -DCSA	211	167	75	-45	-10	-8	-13
¹³ C ₆ -DCGA	227	183	75	-65	-10	-14	-13

Data processing

Process the data using the Analyst™ quantitation wizard. The wizard processes the data for the MRM transition pairs established in the acquisition method. The method detects and integrates the analyte peaks based on retention time and MRM transition. Chromatograms may be smoothed prior to integration as long as the smoothing is consistent throughout the entire chromatographic set. Manual peak integration must be used when the automated procedure is not effective due to baseline noise. The quantitation method uses IS calibration. For example chromatograms of each analyte in the tested matrices, see Appendix C.

Interferences

Sample matrix

Evidence of analyte response suppression or enhancement due to the sample matrix has been observed in the matrices tested. Stable labeled isotope ISs are used to correct for matrix effects.

Chromatographic interferences

Chromatographic interferences may be a problem in some matrices. Gradient conditions and the use of MS with MRM analysis greatly reduce the interferences for these samples.

Pesticide interferences

There are no interferences from other pesticides 2,4-dichlorophenoxyacetic acid (2,4-D) or 2,4-dichlorophenylacetic acid, which have the same mass transitions as dicamba and DCSA, respectively. Interferences from other pesticides are unknown. However, none are expected due to the high level of specificity of the LC/MS/MS analysis.

Analyte carryover

Analyte carryover has not been observed in this method.

Solvents A solvent blank may be included in an analytical set to confirm the suitability of a solvent used.

Labware Disposable labware should be utilized where possible.

Residue Calculations

Calibration curve The Analyst™ software automatically derives the calibration curve using the area ratio versus the concentration of the standards (µg/mL analyte) from all standards injected with the chromatographic set. A weighted quadratic curve (1/analyte concentration) is used. The resulting equation defining the standard curve is shown below:

$$AR_{analyte} = A (\mu\text{g/mL analyte})^2 + B (\mu\text{g/mL analyte}) + C, \quad \text{where}$$

- $AR_{analyte}$ is the detector response (area ratio)
- A , B , and C are curve constants

The results are calculated automatically by the Analyst™ software. The calculation may be checked manually by applying the solution for quadratic equations as shown below. (**Note:** Subtract the response $AR_{analyte}$ from C first.)

$$\text{Injected concentration (ng/mL analyte)} = -B \pm \sqrt{B^2 - 4AC} / 2A$$

Calculations using alternative calculations (e.g., linear or exponential curve fits) are acceptable if they provide improved precision and/or accuracy.

Analyte concentrations The analytical method contains sample dilution and the resulting ppm value taken directly from the regression curve must be multiplied by a 5X dilution factor. Enter the dilution factor into the Analyst™ “dilution factor” column to automatically calculate the final concentration. The calculated value represents the concentration of the analyte in the initial sample. The sample concentration is calculated by the software as shown in the equation below:

$$\mu\text{g/g (analyte)} = \frac{[(\mu\text{g/mL analyte found})(\text{final volume})]}{\text{sample weight (g)}} \times \frac{\text{extract volume}}{\text{extract aliquot volume}}$$

Analytical recovery Successful method performance for each analytical set is assessed by the determination of percent recovery of known amounts of the analytes fortified into control samples. The percent recovery of each analyte is calculated as shown below:

$$\% \text{ recovery} = [(100)(\mu\text{g/g analyte found})] / \mu\text{g/g analyte added}$$

For a large study, there should be near equal numbers of fortifications at each level so the estimated analytical accuracy will not be disproportionately weighted.

Results & Discussion

Stability & matrix effects

The stability of the analytes was tested in stocks, calibration standards, and final sample extracts. Stock solutions prepared in absolute ethanol and stored at approx. 4 °C were stable for at least 201 days. Calibration standards prepared in ACN and stored at approx. 4 °C were stable for at least 201 days. The final sample extracts were stable on the autosampler for at least 72 hours.

Evidence of analyte response suppression or enhancement due to the sample matrix has been observed in the matrices tested. During the method validation, analyte-specific ¹³C ISs were used to compensate for matrix effects.

Calibration curves

The calibration standard curves met the criteria at all levels in all matrices for each analyte.

Precision & accuracy

During validation, the analytical method provided very good precision and accuracy at the 0.010 µg/g LLMV for all analytes in soybean forage and hay. In soybean seed, the precision and accuracy for dicamba, DCSA, and DCGA at the 0.010 µg/g LLMV was acceptable. The acceptance criteria for accuracy was not met for 5-hydroxydicamba at the 0.010 µg/g level in soybean seed. For validation results in soybean seed, hay, and forage, see Appendix D.

The precision and accuracy of dicamba, 5-hydroxydicamba, DCSA, and DCGA determinations were verified in soybean processed fractions. The fractions included soybean hulls, defatted flour, toasted defatted meal, protein isolate, protein concentrate, crude lecithin, degummed oil, RBD oil, soymilk, and tofu. The precision and accuracy was very good for all analytes at all tested concentration levels in the processed fractions, except for defatted flour. Dicamba, DCSA, and DCGA achieved acceptance criteria in defatted flour at all concentration levels tested. Acceptance criteria for 5-hydroxydicamba was achieved in defatted flour at 0.050 µg/g fortification and above. For verification results in soybean processed fractions, see Appendix E.

Superseded SOP(s): None

Author(s) / prepared by: James E. Foster

Management:

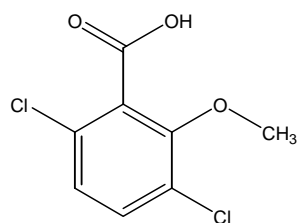

Mary P. Gasper
(TFM, Monsanto Company)

Date: 7 / 22 / 09

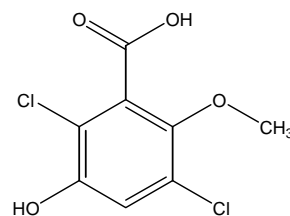
Appendices

Appendix A: Compound Structures

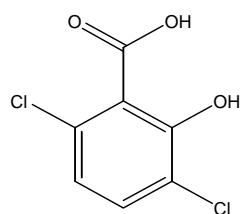
**Figure 1:
analyte
structures**



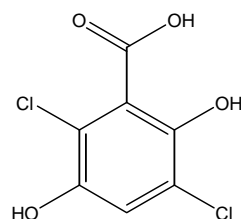
dicamba



5-hydroxydicamba

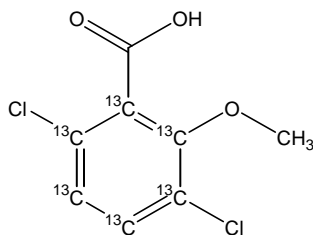


3, 6-dichlorosalicylic acid

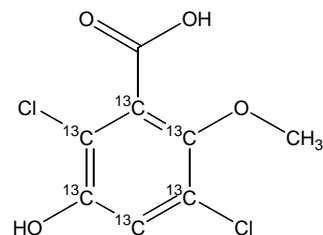


3, 6-dichlorogentisic acid

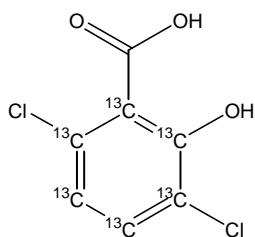
**Figure 2:
IS structures**



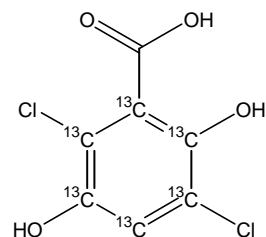
$^{13}\text{C}_6$ -dicamba



$^{13}\text{C}_6$ -5-hydroxydicamba



$^{13}\text{C}_6$ -3, 6-dichlorosalicylic acid



$^{13}\text{C}_6$ -3, 6-dichlorogentisic acid

Appendix B: Preparation Modifications for Processed Fractions

Overview Steps indicated below refer to the “**Sample preparation**” procedural steps (in “**Sample Analysis**”).

Tofu The tofu sample must be well dispersed in the extraction solvent before shaking. While weighing, the tofu sample is chopped in small pieces in the polypropylene extraction bottle. Following spiking and addition of the extraction solvent (step 4) the matrix sample and extraction solvent are thoroughly mixed through the use of a commercial tissue homogenizer. Processing of the samples then proceeds to step 5 and follows the method as for other matrices.

Lecithin Lecithin samples are processed (dispersed, homogenized) in similar manner to the procedure used for tofu, except that 27 mL of concentrated HCl are added to each sample before the extraction shaking. After shaking (step 5) and centrifugation (step 6), the addition of 2.7 mL of concentrated HCl in step 7 is omitted. In step 8a) (undiluted samples), a 12.7 mL aliquot is used in place of the 10 mL aliquot specified for other matrices. For the dilutions (steps 8b)), a 12.7 mL aliquot is also used, with the volumes of DCGA fortification solutions and IS solution unchanged. The diluted lecithin samples are then treated the same as other matrices until step 18. To dilute lecithin samples, extra control sample may be needed. Dilute samples as in the examples below:

- **1:5 dilution:** Take 0.18 mL of the filtered sample + 0.72 mL of filtered control sample, and mix with 0.9 mL of 9% formic acid solution. Mix well and proceed to step 20.
- **1:45 dilution:** Take 0.02 mL of the filtered sample + 0.88 mL of filtered control sample, and mix with 0.9 mL of 9% formic acid solution. Mix well and proceed to step 20.

Note: Good recoveries for fortified samples were obtained by not diluting these levels until the final sample volume is obtained (step 18). Diluting the sample at this point with excess composite control sample was found to give excellent recoveries.

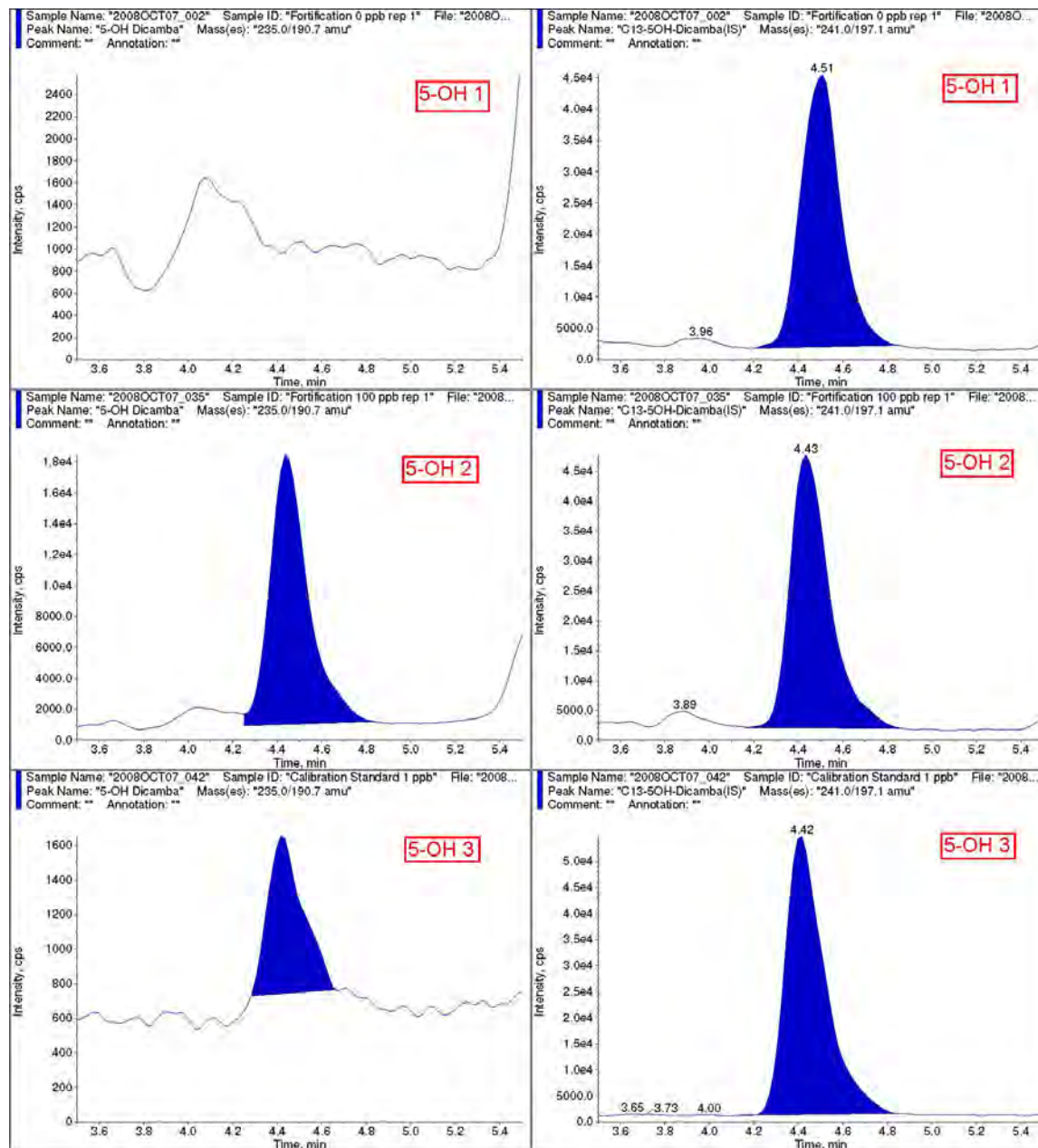
Partitioning After partitioning with 40:60 ethyl acetate/isooctane (steps 11 and 12) some process fraction samples (e.g., protein isolates) may form an emulsion and not separate. When this occurs, the entire sample is poured into a polypropylene centrifuge bottle and centrifuged at 11,000 rpm for 10 minutes. The samples separate well when centrifuged. Processing of the samples then proceeds to step 13 and continues as for other matrices.

Additional equipment

- IKA T-25 High-Speed Homogenizer, IKA cat. no. EW-04739-01
- IKA T-25 High-Speed Homogenizer Rotor-Stator Generator, IKA cat. no. EW-04720-12

Appendix C: Example Chromatograms (Mobile Phase A, pH = 5.0)

5-hydroxydicamba in soybean seed

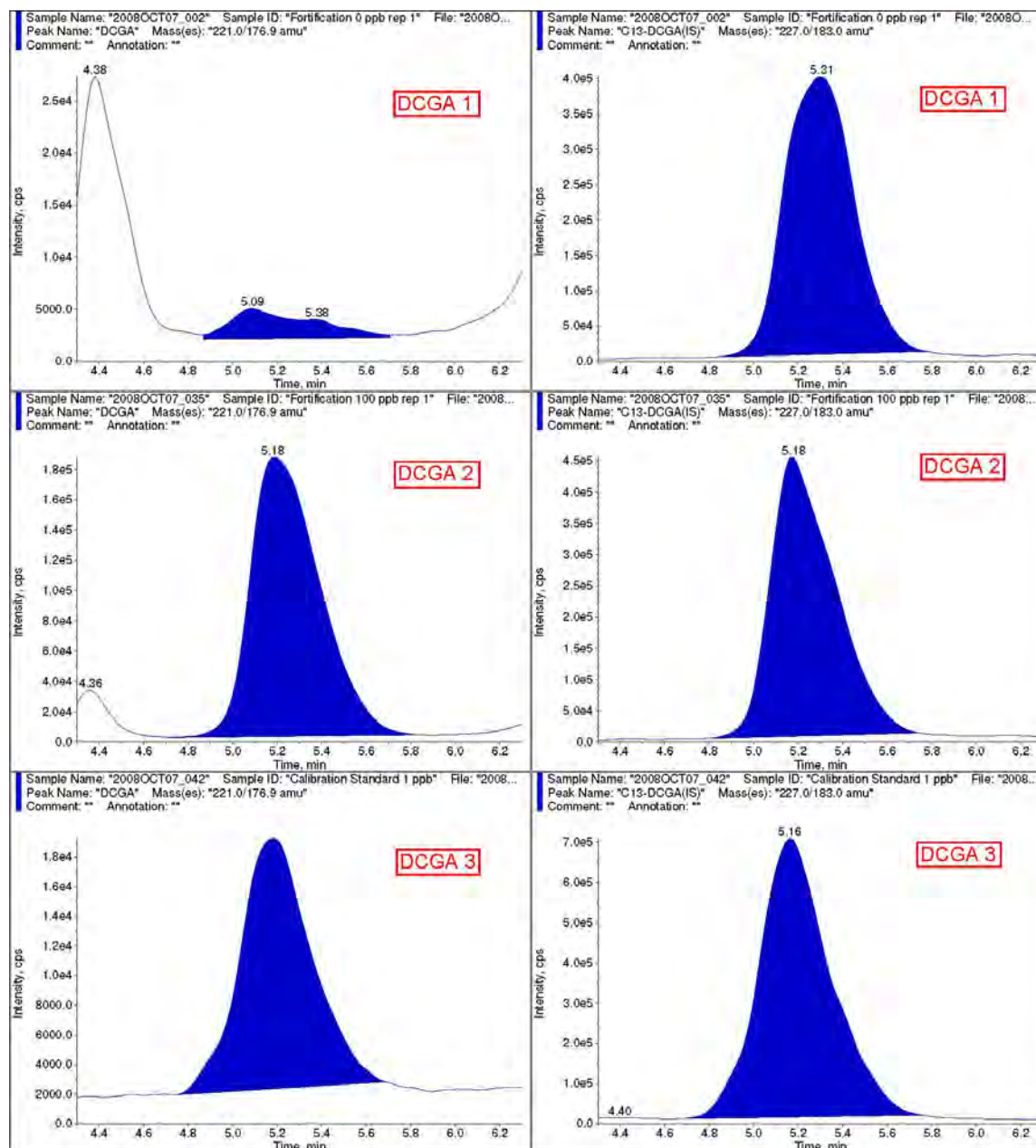


5-OH 1: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

5-OH 2: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

5-OH 3: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCGA in soybean seed

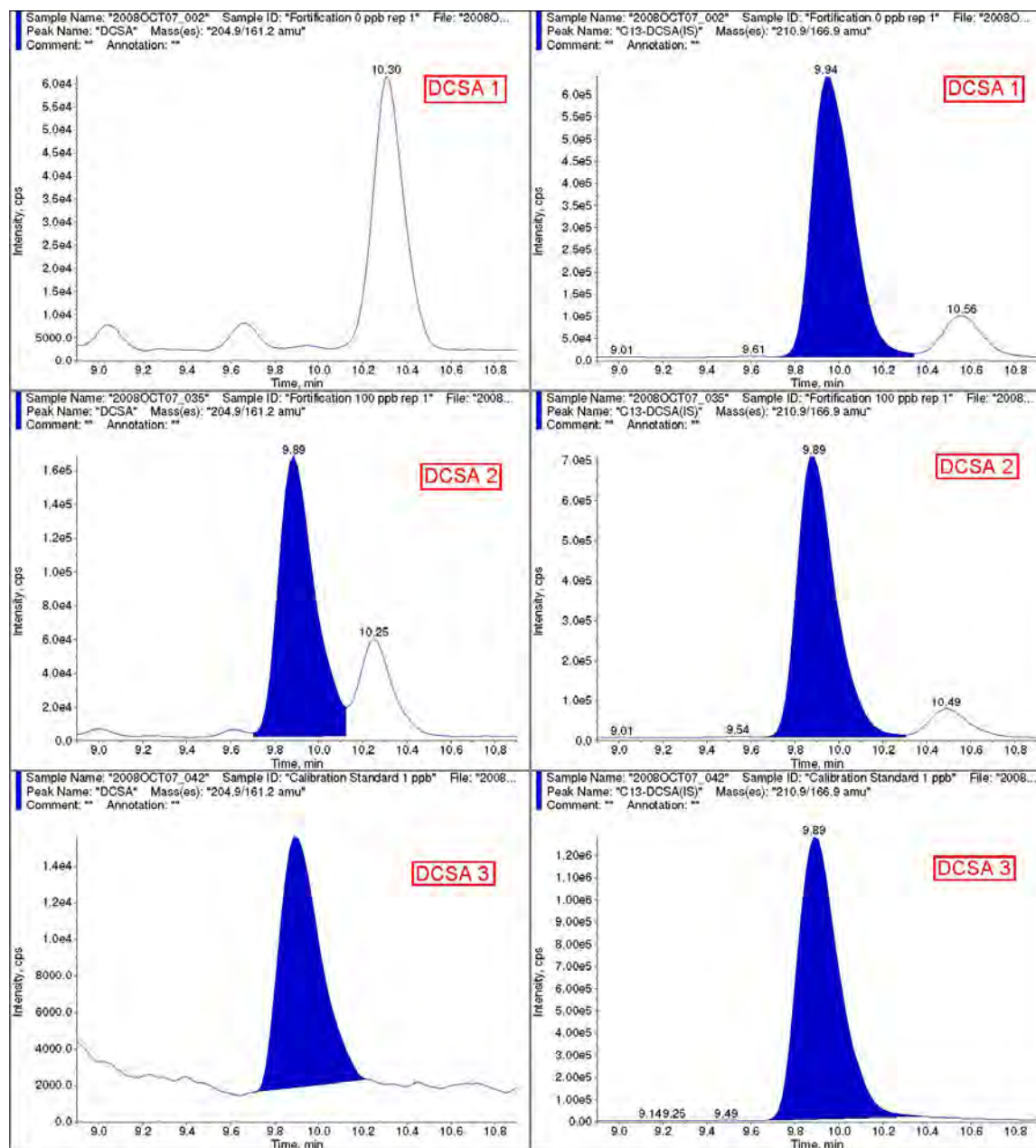


DCGA 1: untreated control (left): IS 0.040 µg/g (right)

DCGA 2: fortified control 0.10 µg/g (left): IS 0.040 µg/g (right)

DCGA 3: calibration standard 0.001 µg/mL (left): IS 0.040 µg/g (right)

DCSA in soybean seed

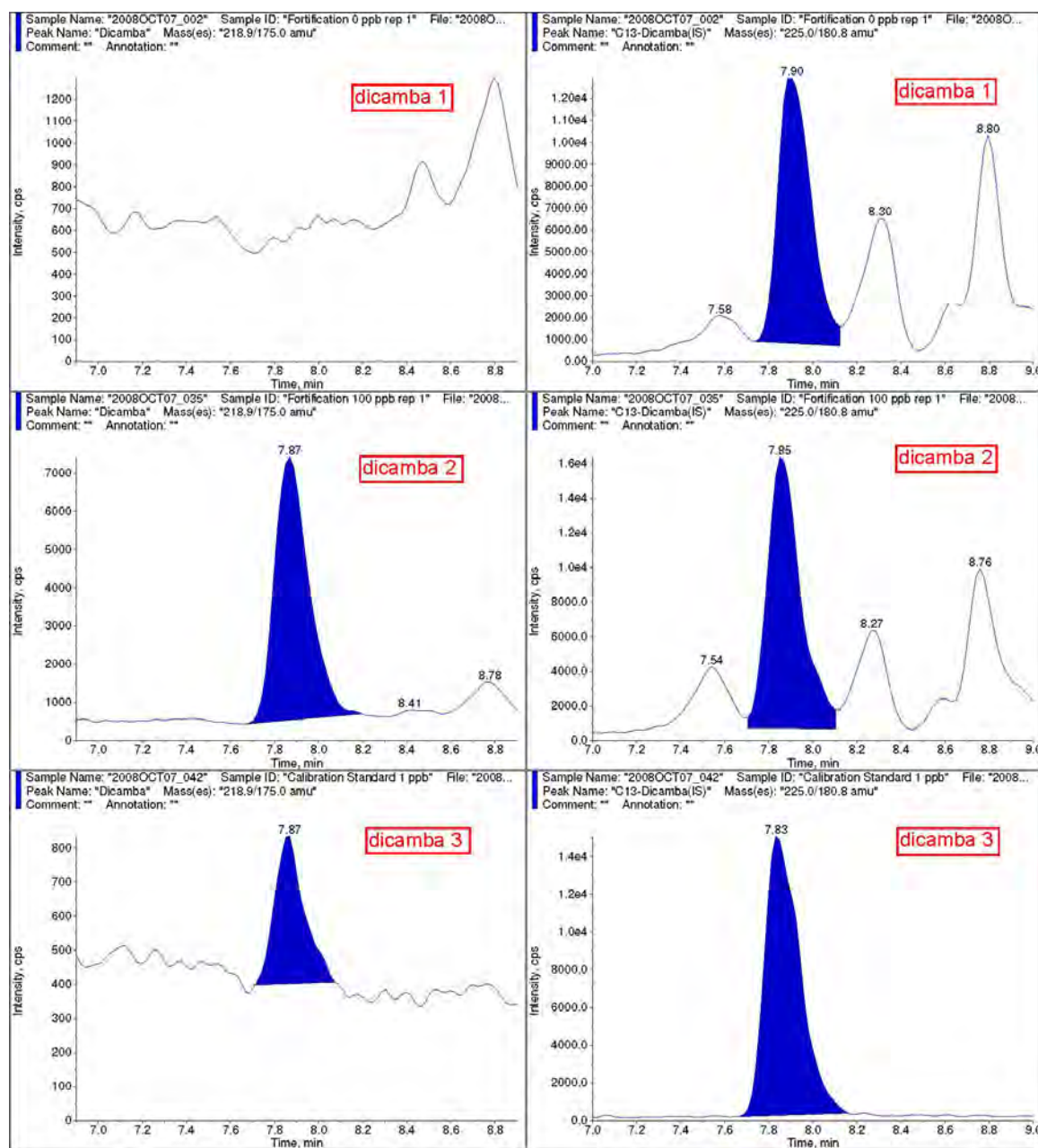


DCSA 1: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

DCSA 2: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCSA 3: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

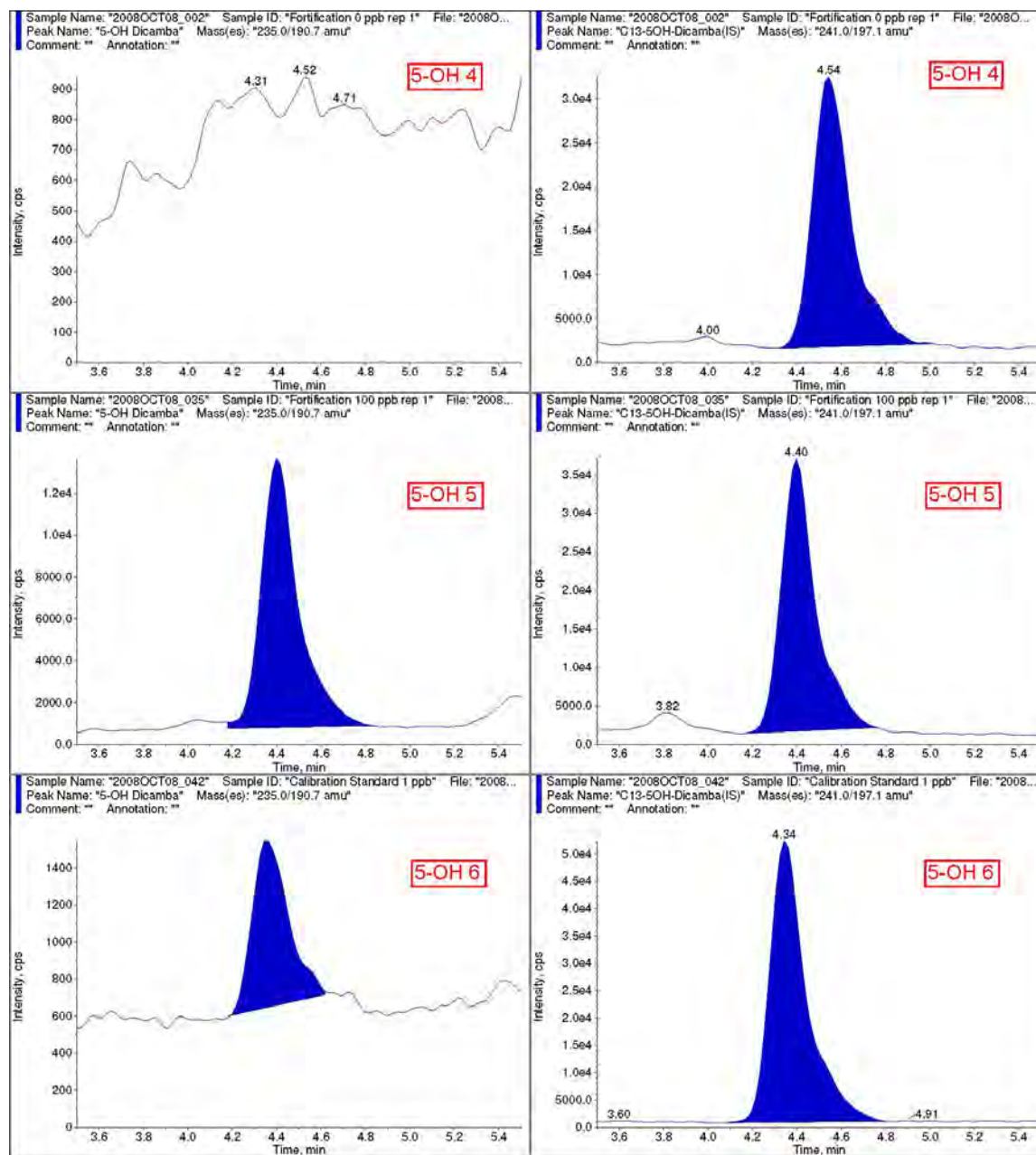
Dicamba in soybean seed



Dicamba 1: untreated control (left): IS 0.040 µg/g (right)

Dicamba 2: fortified control 0.10 µg/g (left): IS 0.040 µg/g (right)

Dicamba 3: calibration standard 0.001 µg/mL (left): IS 0.040 µg/g (right)

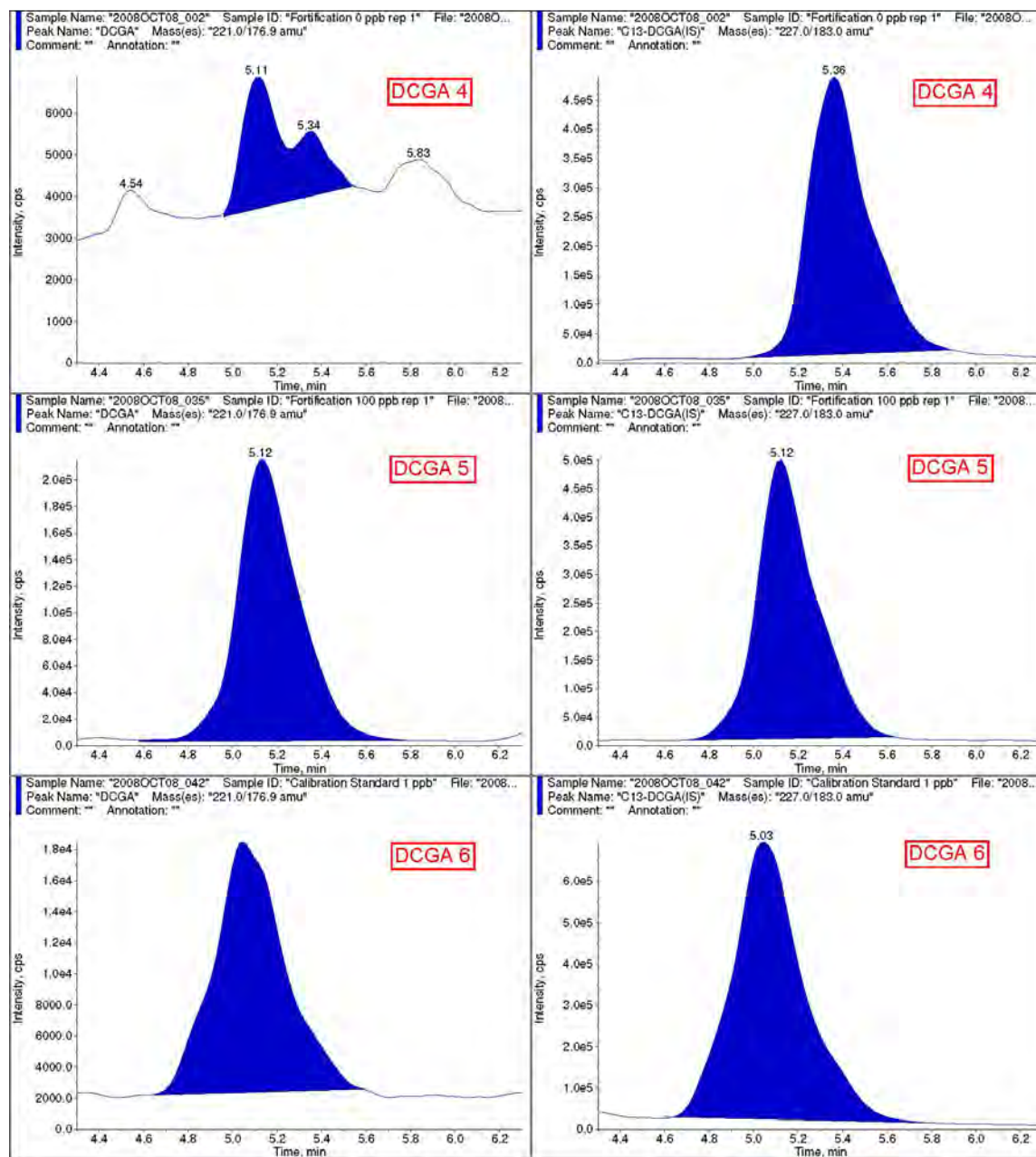
5-hydroxydicamba in soybean hay

5-OH 4: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

5-OH 5: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

5-OH 6: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCGA in soybean hay

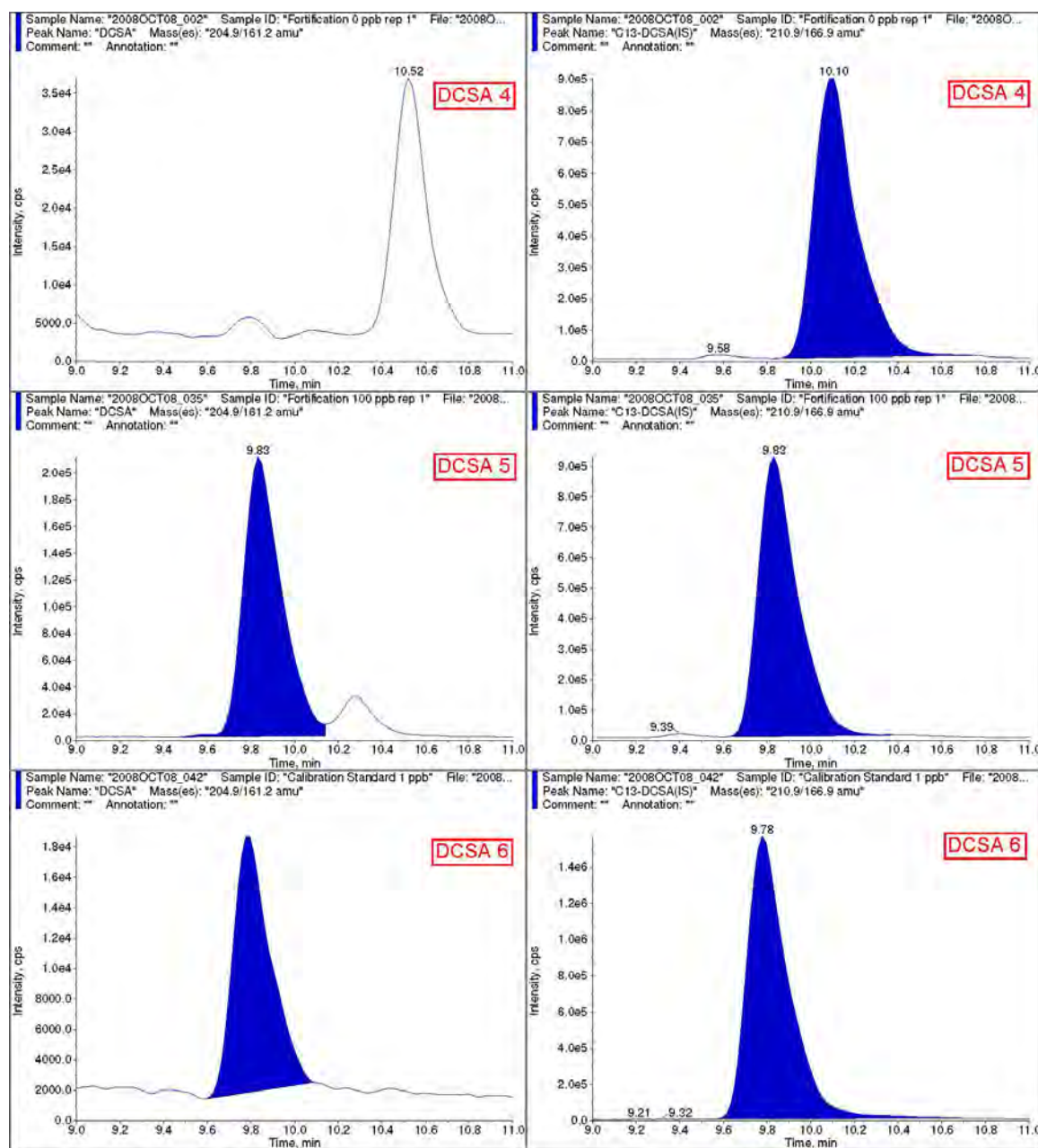


DCGA 4: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

DCGA 5: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCGA 6: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCSA in soybean hay

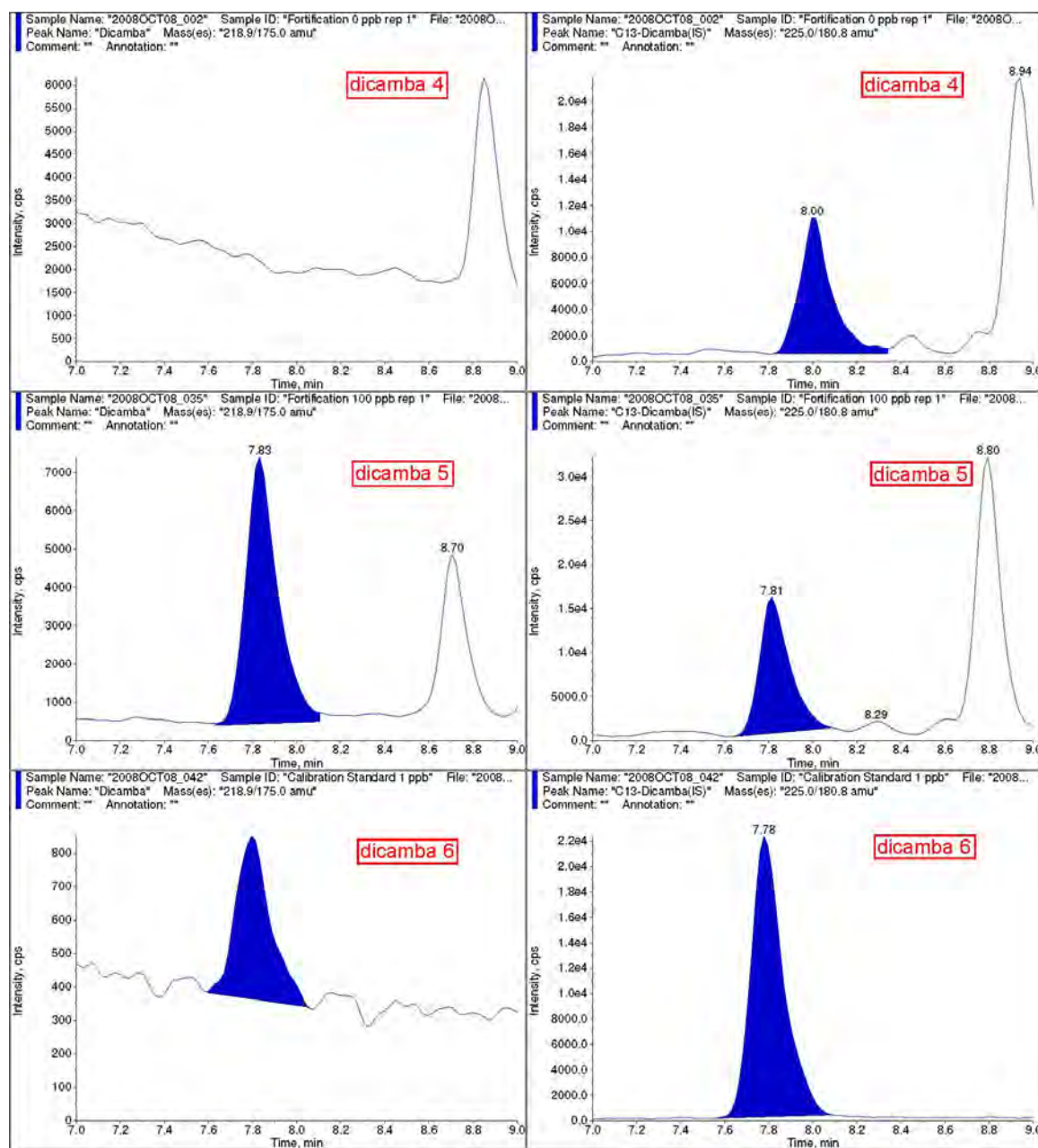


DCSA 4: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

DCSA 5: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCSA 6: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

Dicamba in soybean hay

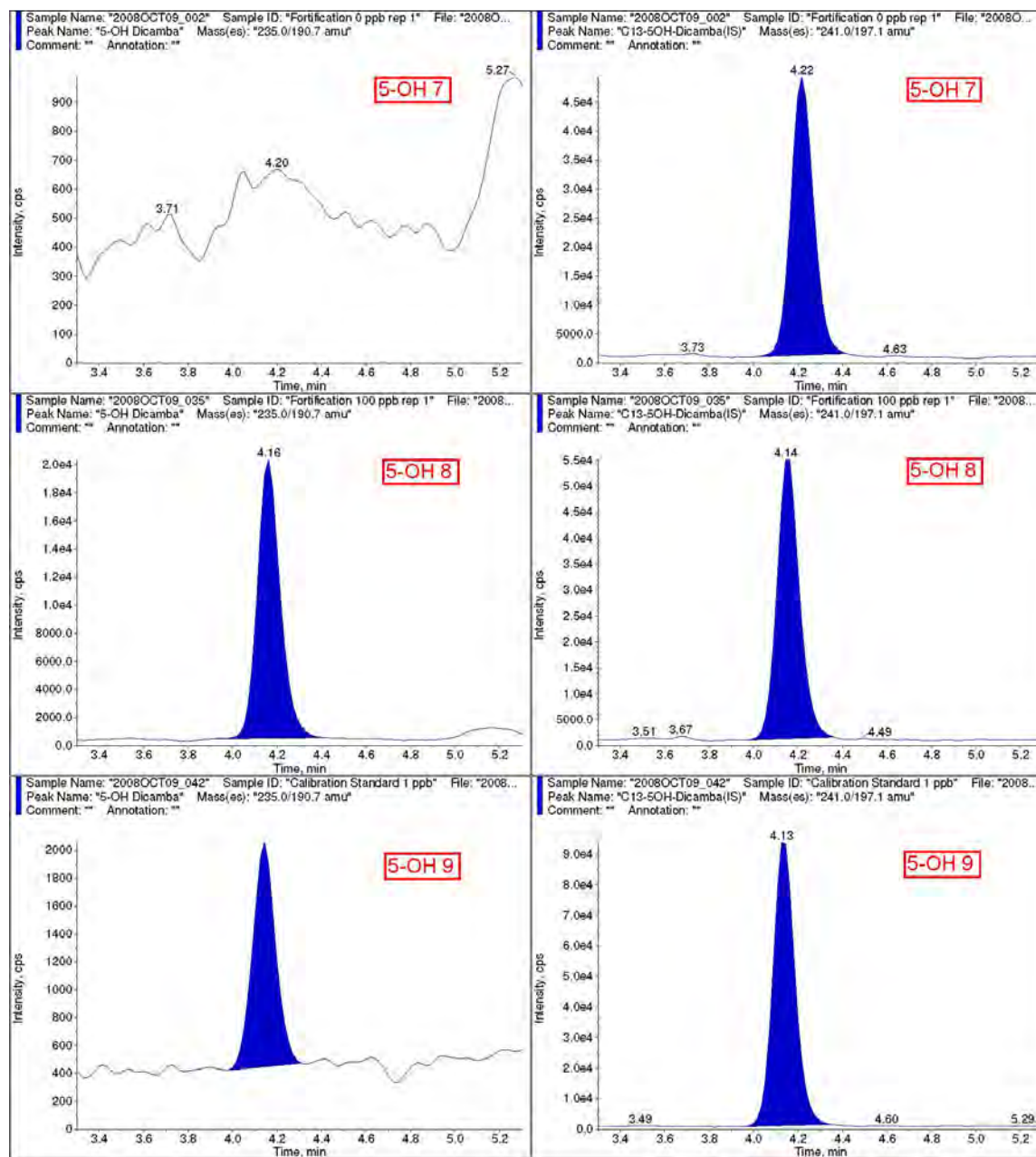


Dicamba 4: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

Dicamba 5: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

Dicamba 6: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

5-hydroxydicamba in soybean forage

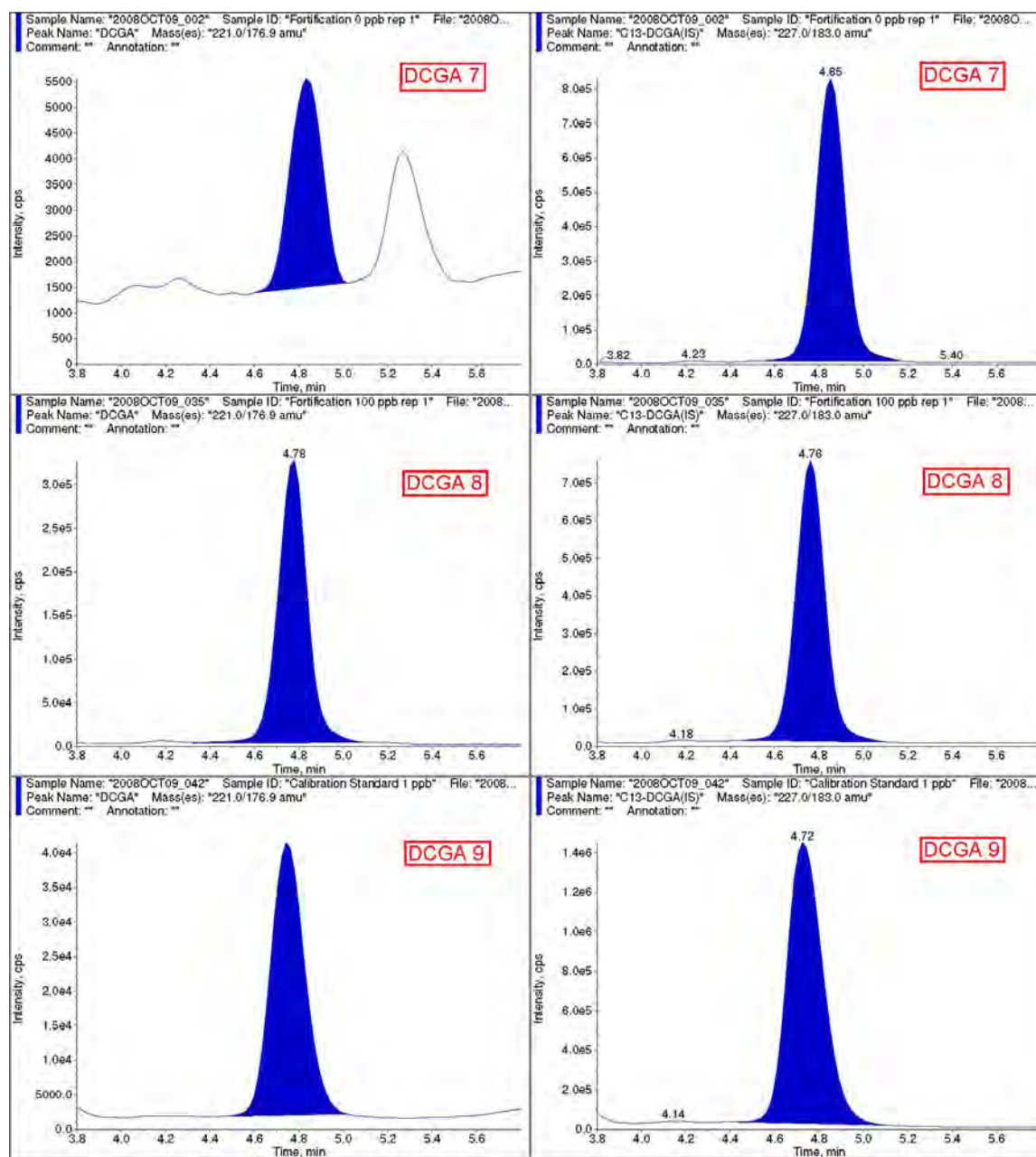


5-OH 7: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

5-OH 8: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

5-OH 9: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCGA in soybean forage

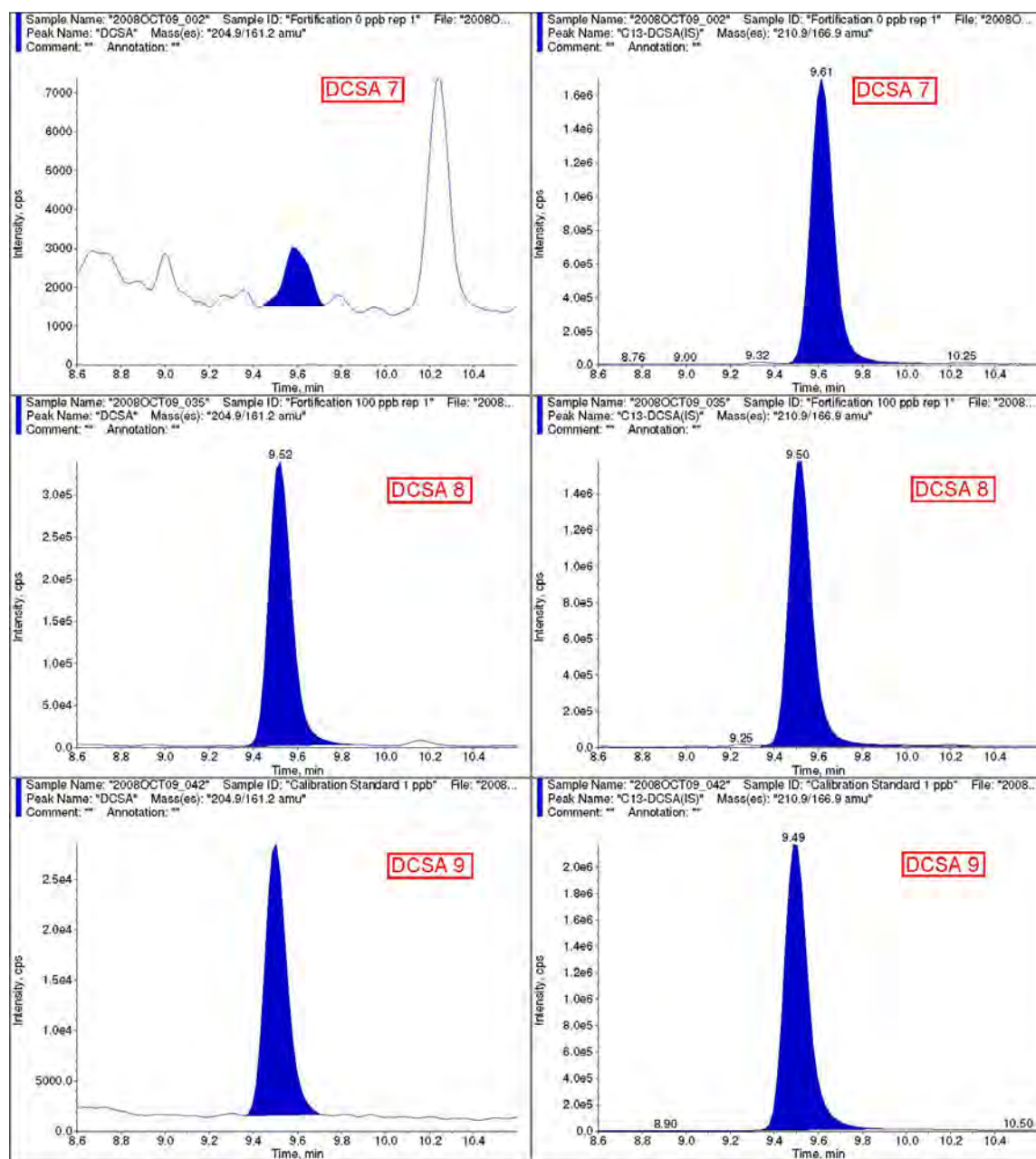


DCGA 7: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

DCGA 8: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCGA 9: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCSA in soybean forage

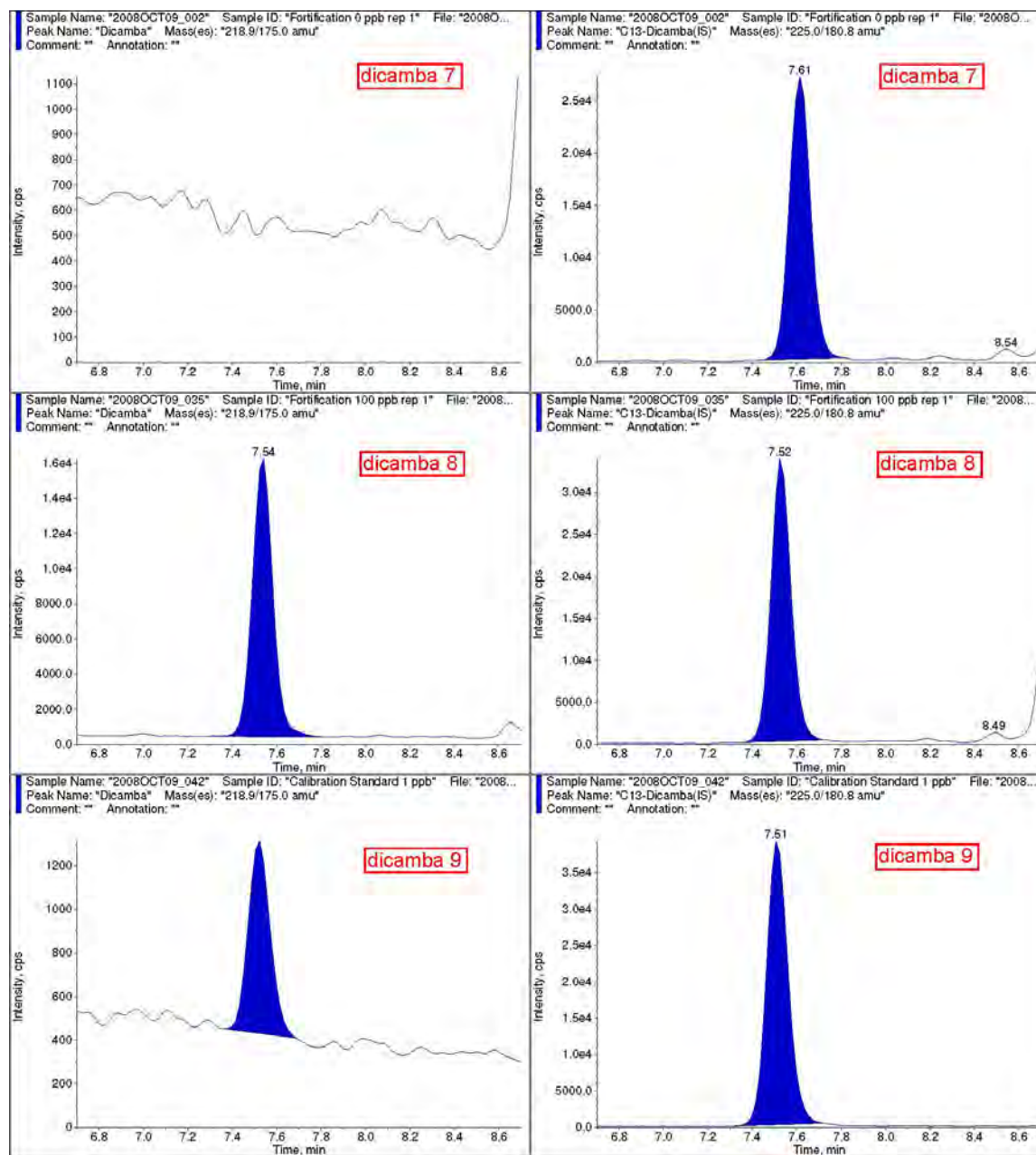


DCSA 7: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

DCSA 8: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

DCSA 9: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

Dicamba in soybean forage



Dicamba 7: untreated control (left): IS 0.040 $\mu\text{g/g}$ (right)

Dicamba 8: fortified control 0.10 $\mu\text{g/g}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

Dicamba 9: calibration standard 0.001 $\mu\text{g/mL}$ (left): IS 0.040 $\mu\text{g/g}$ (right)

Appendix D: Validation Results**Table 1: LC/MS/MS analysis of dicamba and its major metabolites in soybean seed**

Level spiked (µg/g)	5-hydroxydicamba	DCGA	DCSA	Dicamba
0	ND	0.00136	ND	ND
0	ND	0.000772	ND	ND
0	ND	0.000604	ND	ND
0	ND	0.000752	ND	ND
0	ND	0.000969	ND	ND
0	ND	0.000479	ND	ND
0	ND	0.00105	ND	ND
Mean =	N/A	0.000855	N/A	N/A
0.005	0.00353	0.00434	0.00525	0.00531
0.005	0.00317	0.00466	0.00555	0.00489
0.005	0.00333	0.00419	0.00544	0.00500
0.005	0.00277	0.00465	0.00477	0.00533
0.005	0.00371	0.00410	0.00537	0.00547
0.005	0.00294	0.00463	0.00560	0.00566
0.005	0.00286	0.00421	0.00530	0.00455
Mean =	0.00319	0.00440	0.00533	0.00517
%RSD =	11.1	5.54	5.18	7.35
Accuracy =	63.7	88.0	107	103
0.010	0.00656	0.00954	0.0113	0.00958
0.010	0.00609	0.01004	0.0102	0.0105
0.010	0.00777	0.00974	0.0102	0.00997
0.010	0.00663	0.00914	0.0105	0.00949
0.010	0.00655	0.00944	0.0107	0.00990
0.010	0.00604	0.00954	0.0107	0.00941
0.010	0.00722	0.00964	0.0105	0.0110
Mean =	0.00669	0.00959	0.0106	0.00998
% RSD =	9.19	2.88	3.55	5.85
Accuracy =	66.9	95.9	106	99.8
0.020	0.0143	0.0190	0.0204	0.0192
0.020	0.0135	0.0200	0.0218	0.0205
0.020	0.0141	0.0195	0.0206	0.0201
0.020	0.0141	0.0206	0.0213	0.0196
0.020	0.0161	0.0187	0.0209	0.0188
0.020	0.0132	0.0188	0.0211	0.0181
0.020	0.0145	0.0195	0.0205	0.0207
Mean =	0.0143	0.0195	0.0209	0.0196
% RSD =	6.53	3.52	2.39	4.81
Accuracy =	71.3	97.4	105	97.9
0.100	0.101	0.0965	0.104	0.0943
0.100	0.103	0.103	0.103	0.0968
0.100	0.103	0.101	0.104	0.101
0.100	0.100	0.099	0.103	0.0995
0.100	0.105	0.102	0.107	0.0926
0.100	0.102	0.105	0.105	0.0973
0.100	0.0980	0.102	0.0998	0.0980
Mean =	0.102	0.101	0.104	0.0971
% RSD =	2.25	2.76	2.12	2.97
Accuracy =	102	101	104	97.1
2.00	2.09	1.76	2.01	1.72
2.00	2.07	1.75	1.88	1.79
Mean =	2.08	1.75	1.95	1.76
Accuracy =	104	87.7	97.3	87.8

Table 2: LC/MS/MS analysis of dicamba and its major metabolites in soybean hay

Level spiked (µg/g)	5-hydroxydicamba	DCGA	DCSA	Dicamba
0	ND	0.000175	ND	ND
0	ND	0	ND	ND
0	ND	0	ND	ND
0	ND	0.0000146	ND	ND
0	ND	0	ND	ND
0	ND	0	ND	ND
0	ND	0	ND	ND
Mean =	N/A	0.0000271	N/A	N/A
0.005	0.00370	0.00334	0.00473	ND
0.005	0.00357	0.00336	0.00502	ND
0.005	0.00458	0.00335	0.00482	ND
0.005	0.00365	0.00357	0.00466	ND
0.005	0.00390	0.00335	0.00494	ND
0.005	0.00392	0.00344	0.00465	ND
0.005	0.00377	0.00351	0.00526	ND
Mean =	0.00387	0.00342	0.004869	N/A
% RSD =	8.73	2.69	4.55	N/A
Accuracy =	77.4	68.4	97.4	N/A
0.010	0.00711	0.00808	0.0110	0.00801
0.010	0.00881	0.00860	0.0106	0.00967
0.010	0.00823	0.00856	0.0104	0.00812
0.010	0.00769	0.00847	0.0102	0.00872
0.010	0.00830	0.00798	0.0101	0.00876
0.010	0.00800	0.00817	0.0104	0.00827
0.010	0.00786	0.00817	0.0107	0.00883
Mean =	0.00800	0.00829	0.0105	0.00863
% RSD =	6.67	3.00	2.94	6.56
Accuracy =	80.0	82.9	105	86.3
0.020	0.0145	0.0177	0.0217	0.0176
0.020	0.0153	0.0185	0.0213	0.0187
0.020	0.0167	0.0186	0.0208	0.0211
0.020	0.0168	0.0179	0.0215	0.0223
0.020	0.0176	0.0181	0.0217	0.0171
0.020	0.0176	0.0182	0.0209	0.0201
0.020	0.0191	0.0179	0.0207	0.0174
Mean =	0.0168	0.0181	0.0212	0.0192
% RSD =	9.13	1.82	2.01	10.5
Accuracy =	84.0	90.5	106	95.9
0.100	0.107	0.0975	0.106	0.108
0.100	0.101	0.104	0.107	0.0984
0.100	0.106	0.103	0.111	0.103
0.100	0.0947	0.0964	0.108	0.106
0.100	0.103	0.0957	0.105	0.104
0.100	0.101	0.0984	0.111	0.112
0.100	0.102	0.105	0.103	0.104
Mean =	0.102	0.100	0.107	0.105
% RSD =	3.94	3.88	2.78	4.05
Accuracy =	102	100	107	105
2.00	1.81	1.86	1.77	1.43
2.00	1.78	1.74	1.75	1.47
Mean =	1.80	1.80	1.76	1.45
Accuracy =	89.8	90.0	88.0	72.5

Table 3: LC/MS/MS analysis of dicamba and its major metabolites in soybean forage

Level spiked (µg/g)	5-hydroxydicamba	DCGA	DCSA	Dicamba
0	ND	0.00133	ND	ND
0	ND	0.00141	ND	ND
0	ND	0.00149	ND	ND
0	ND	0.00134	ND	ND
0	ND	0.00135	ND	ND
0	ND	0.00151	ND	ND
0	ND	0.00148	ND	ND
Mean =	N/A	0.00142	N/A	N/A
0.005	0.00477	0.00328	0.00551	0.00529
0.005	0.00461	0.00374	0.00510	0.00518
0.005	0.00554	0.00349	0.00535	0.00442
0.005	0.00482	0.00355	0.00472	0.00596
0.005	0.00447	0.00368	0.00511	0.00570
0.005	0.00485	0.00377	0.00487	0.00522
0.005	0.00522	0.00388	0.00514	0.00506
Mean =	0.00490	0.00363	0.00511	0.00526
% RSD =	7.49	5.57	5.22	9.30
Accuracy =	97.9	72.6	102	105
0.010	0.00989	0.00788	0.0127	0.00985
0.010	0.00976	0.00802	0.0114	0.0103
0.010	0.0104	0.00820	0.0108	0.00969
0.010	0.00927	0.00816	0.0107	0.00957
0.010	0.0105	0.00817	0.0102	0.00955
0.010	0.00952	0.00848	0.0106	0.00963
0.010	0.0102	0.00770	0.0104	0.0122
Mean =	0.00993	0.00809	0.0110	0.0101
% RSD =	4.60	3.10	7.75	9.45
Accuracy =	99.3	80.9	110	101
0.020	0.0194	0.0176	0.0205	0.0196
0.020	0.0209	0.0183	0.0214	0.0193
0.020	0.0200	0.0174	0.0221	0.0211
0.020	0.0206	0.0171	0.0219	0.0219
0.020	0.0204	0.0181	0.0213	0.0186
0.020	0.0192	0.0170	0.0217	0.0192
0.020	0.0192	0.0178	0.0216	0.0203
Mean =	0.0200	0.0176	0.0215	0.0200
% RSD =	3.52	2.77	2.42	5.83
Accuracy =	99.8	88.0	108	100
0.100	0.104	0.0882	0.102	0.113
0.100	0.107	0.0863	0.109	0.105
0.100	0.103	0.0900	0.106	0.0967
0.100	0.104	0.0929	0.105	0.109
0.100	0.101	0.0894	0.101	0.107
0.100	0.106	0.0911	0.11	0.103
0.100	0.107	0.0919	0.109	0.101
Mean =	0.105	0.0900	0.106	0.105
% RSD =	2.13	2.51	3.36	5.11
Accuracy =	105	90.0	106	105
2.00	1.90	1.97	1.73	1.80
2.00	1.93	1.93	1.81	1.91
Mean =	1.92	1.95	1.77	1.86
Accuracy =	95.8	97.4	88.5	92.8

Appendix E: Verification Results of Processed Fractions**Table 4: LC/MS/MS analysis of dicamba and its major metabolites in soybean hulls**

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
Control	ND	ND	ND	ND
Control	ND	ND	ND	ND
Control	0.00	0.000910	0.000333	0.00132
0.010	95.3	117	62.4	74.3
0.010	89.7	114	86.4	82.4
Mean =	92.5	115	74.4	78.4
0.020	99.8	110	63.4	91.9
0.020	92.7	111	66.9	92.9
0.020	84.5	109	86.8	79.9
0.020	94.0	108	82.3	79.9
Mean =	92.8	109	74.9	86.2
% RSD =	6.80	1.42	15.3	8.39
0.050	95.1	107	62.1	92.4
0.050	93.1	110	62.2	97.2
0.050	100	94.2	100	75.4
Mean =	96.1	104	74.8	88.3
% RSD =	3.81	8.09	29.3	13.0
0.200	96.5	99.5	100	86.8
0.400	99.3	101	92.2	91.6
0.400	103	95.6	91.0	90.1
Mean =	101	98.3	91.6	90.9
1.500	106	97.9	101	97.9

Table 5: LC/MS/MS analysis of dicamba and its major metabolites in soybean defatted flour

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
Control	ND	ND	0.0101	ND
Control	ND	ND	0.0112	ND
Control	0.00145	0.00197	0.00345	0.000181
Control	0.00	0.00187	0.00464	0.00
0.010	86.4	105.8	31.9	78.4
0.010	72.1	98.8	30.0	87.6
Mean =	79.3	102	31.0	83.0
0.020	79.4	94.9	70.0	101
0.020	76.9	101	58.8	99.1
Mean =	78.2	98.2	64.4	99.9
0.050	96.3	103	84.3	84.8
0.200	94.1	94.0	91.5	91.0
0.400	103	98.0	96.7	102
0.400	109	101	102	90.0
0.400	97.0	112	99.6	96.4
Mean =	103	104	99.4	96.0
% RSD =	5.82	7.11	2.57	6.10
2.000	89.7	91.0	98.5	100
2.000	74.1	87.3	88.5	95.4
Mean =	81.9	89.2	93.5	97.7
3.000	97.6	92.3	98.5	96.3

Table 6: LC/MS/MS analysis of dicamba and its major metabolites in soybean toasted defatted meal

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
Control	ND	ND	ND	ND
Control	ND	ND	ND	ND
Control	0.00	0.00356	0.000114	0.00154
0.010	83.4	96.4	75.9	78.0
0.010	93.9	89.4	65.5	85.5
Mean =	88.7	92.9	70.7	81.8
0.020	104	111	94.5	99.2
0.020	100	120	94.7	97.8
0.020	94.0	97.7	76.4	89.3
0.020	92.5	92.7	80.9	84.8
Mean =	97.5	105	86.6	92.8
% RSD =	5.42	11.8	10.8	7.42
0.050	99.0	110	77.0	97.7
0.050	81.3	114	89.6	94.5
0.050	98.2	98.1	93.0	83.9
Mean =	92.8	107	86.5	92.0
% RSD =	10.8	7.70	9.74	7.85
0.200	94.0	101	101	83.2
0.400	96.7	104	85.6	90.4
0.400	96.7	99.8	85.7	95.4
Mean =	96.7	102	85.7	92.9
1.500	88.0	93.8	95.3	104

Table 7: LC/MS/MS analysis of dicamba and its major metabolites in soybean protein isolate

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
Control	ND	ND	ND	ND
Control	ND	0.000515	ND	ND
Control	0.00	0.00127	0.00	0.000269
Control	0.00	0.00165	0.00	0.000185
0.010	83.0	92.4	80.4	79.2
0.010	77.9	86.4	93.2	79.3
Mean =	80.5	89.4	86.8	79.3
0.020	76.5	95.2	90.3	84.3
0.020	97.7	94.2	97.9	81.4
Mean =	87.1	94.7	94.1	82.9
0.400	86.8	107	103	104
0.400	76.5	78.4	92.3	74.4
Mean =	81.7	92.7	97.7	89.2
0.800	87.8	105	99.8	104
0.800	86.4	95.8	96.1	83.2
Mean =	87.1	100	98.0	93.6
1.500	88.1	92.6	101	86.7

Table 8: LC/MS/MS analysis of dicamba and its major metabolites in soybean protein concentrate

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
control	ND	ND	ND	ND
control	ND	0.00148	ND	0.00166
control	0.00	0.00137	0.00	0.000281
0.010	77.6	97.3	81.5	79.0
0.010	84.3	95.3	79.9	86.3
Mean =	81.0	96.3	80.7	82.7
0.020	90.1	103	84.8	89.2
0.200	90.1	105	106	97.1
0.400	110	101	104	104
0.400	118	93.6	96.7	87.8
Mean =	114	97.3	100	95.9
1.500	94.3	90.6	105	89.3

Table 9: LC/MS/MS analysis of dicamba and its major metabolites in soybean crude lecithin

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
Control	0.00	0.000889	0.00	0.00
Control	0.00	0.000102	0.00	0.00
Control	0.000946	0.00	0.000394	0.00
Control	0.00	0.00	0.000844	0.00
Control	0.00	0.00	0.00	0.00
Control	0.00	0.00	0.00	0.00
Control	0.00167	0.00120	0.00	0.00
Control	0.00	0.00	0.000321	0.00
0.010	101	93.9	81.1	68.0
0.010	77.4	98.0	79.4	68.4
0.010	72.3	88.9	91.7	77.5
Mean =	83.5	93.6	84.1	71.3
% RSD =	18.1	4.90	7.93	7.54
0.200	95.0	106	102	79.5
0.200	76.6	91.2	100	77.0
0.200	86.6	93.2	94.4	80.0
Mean =	86.1	96.7	98.9	78.8
% RSD =	10.7	8.15	4.05	2.04
0.400	109	107	104	93.5
0.400	104	108	110	88.0
Mean =	107	107	107	90.8
2.00	107	109	111	99.5
2.00	108	107	95.0	103
Mean =	107	108	103	101

Table 10: LC/MS/MS analysis of dicamba and its major metabolites in soybean degummed oil

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
Control	ND	ND	ND	ND
Control	ND	ND	ND	ND
Control	0.00	0.00	0.00102	0.00
Control	0.00	0.000451	0.00148	0.00142
0.010	94.9	93.8	82.3	81.7
0.010	98.5	99.5	86.2	69.3
0.010	102	94.7	86.2	61.3
Mean =	98.5	96.0	84.9	70.8
% RSD =	3.61	3.19	2.65	14.5
0.020	88.0	96.5	89.4	95.5
0.020	95.5	101	85.6	70.9
0.020	97.0	99.7	88.1	67.4
Mean =	93.5	99.1	87.7	77.9
% RSD =	5.16	2.42	2.20	19.6
0.050	78.0	103	90.8	93.6
0.050	95.6	98.7	96.6	70.8
Mean =	86.8	101	93.7	82.2
0.200	119	96.5	102	105
0.400	83.5	99.8	90.0	100
0.400	106	104	106	88.8
0.400	100	107	102	88.7
Mean =	96.5	104	99.3	92.6
% RSD =	12.1	3.49	8.38	7.20
2.000	107	95.7	102	107
2.000	99.1	103	99.9	103
Mean =	103	99.4	101	105

Table 11: LC/MS/MS analysis of dicamba and its major metabolites in soybean RBD oil

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
Control	ND	ND	ND	0.00202
Control	ND	ND	ND	ND
Control	0.00	0.000603	0.00949	0.00109
Control	0.000887	0.000733	0.00112	0.00191
0.010	85.6	94.0	73.3	60.1
0.010	88.0	95.7	88.7	64.2
0.010	93.1	95.7	79.3	66.6
Mean =	88.9	95.1	80.4	63.6
% RSD =	4.31	1.03	9.65	5.17
0.020	69.5	97.5	79.3	77.1
0.020	93.1	104	89.4	76.0
0.020	100	93.3	91.4	66.5
Mean =	87.6	98.2	86.7	73.2
% RSD =	18.3	5.38	7.48	7.96
0.050	79.6	91.8	95.3	82.4
0.050	103	101	104	76.2
Mean =	91.1	96.2	100	79.3
0.200	105	99.7	90.0	94.5
0.400	94.8	97.1	92.0	105
0.400	112	107	107	94.0
0.400	105	104	108	99.7
Mean =	104	103	102	99.4
% RSD =	8.32	4.94	8.76	5.29
2.000	102	106	101	100
2.000	101	107	98.6	106
Mean =	102	107	100	103

Table 12: LC/MS/MS analysis of dicamba and its major metabolites in soymilk

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
Control	ND	ND	ND	ND
Control	ND	ND	ND	ND
Control	0.00	0.00	0.00	0.00
Control	0.00	0.00	0.00108	0.000870
0.010	101	95.0	84.2	74.8
0.010	95.1	105	82.0	68.8
0.010	89.1	102	84.2	74.3
Mean =	95.1	101	83.5	72.6
% RSD =	6.26	5.10	1.52	4.58
0.020	108	92.5	81.5	92.5
0.020	94.5	108	91.6	78.7
0.020	86.0	108	93.6	78.7
Mean =	96.2	103	88.9	83.3
% RSD =	11.5	8.58	7.30	9.56
0.050	67.4	102	92.8	100
0.050	100	106	96.2	72.7
Mean =	83.9	104	94.5	86.5
0.200	64.0	105	87.5	107
0.400	79.0	89.5	90.8	95.8
0.400	97.0	92.9	95.2	82.8
0.400	96.0	99.8	92.6	85.0
Mean =	90.7	94.1	92.9	87.9
% RSD =	11.2	5.58	2.38	7.92
2.000	76.0	101	96.3	96.6
2.000	79.4	94.5	88.5	93.8
Mean =	77.7	97.8	92.4	95.2

Table 13: LC/MS/MS analysis of dicamba and its major metabolites in tofu

Level spiked (µg/g)	Dicamba	DCSA	5-hydroxydicamba	DCGA
Control	ND	ND	ND	ND
Control	0.00	0.00	0.000111	0.000557
0.010	82.3	112	97.8	74.5
0.010	73.0	106	87.5	81.1
Mean =	77.7	109	92.7	77.8
0.020	80.5	101	96.4	78.2
0.050	80.9	103	100	92.6
0.200	97.6	91.6	94.7	85.6
0.400	96.2	92.3	92.5	92.5
0.400	76.1	84.8	87.5	90.5
0.400	71.2	70.5	73.5	74.1
Mean =	81.2	82.5	84.5	85.7
% RSD =	16.3	13.4	11.7	11.8
1.500	91.1	80.5	83.3	93.3

SOP Amendment

SOP number: AG-ME-1321-01

Title: Determination of Dicamba and Its Major Metabolites in Soybean Matrices by LC/MS/MS

Amendment number: 1 Effective date: November 19, 2009

SOP Originally States (Include page no. &/or section.):

Purpose & scope

This SOP describes the method used by ESTC personnel to determine the residues of dicamba and its endogenous metabolites, analyzed as chemophores 5-hydroxydicamba, DCSA and DCGA, in soybean matrices. Analyte-specific stable labeled ISs are used to compensate for matrix effects and procedural recovery. (Refer to Appendix A for analyte and standard compound structures.) The radiovalidation, which demonstrates the extraction efficiency and recovery of the method, is conducted using soybean hay and seed samples from study 06-98-M-1, "Metabolism of Dicamba in Dicamba-Tolerant Soybeans", in which [¹⁴C]-dicamba was used as the test substance.

"Sample preparation" procedure, page 10 :

16	Evaporate the organic layer until only the aqueous solution remains. Avoid evaporating to dryness. Typical RapidVap™ settings: Temperature = 45 °C, Vacuum = 100 mBar, Speed = 35%, Time = 35 minutes. Suggestion: Prepare the working calibration standards once the RapidVap™ has been activated (See "Calibration standards" in "Sample Preparation").
17	Pipet 2.5 mL of DI water into the evaporator vial.

SOP Amended as Follows:

Purpose & scope

This SOP describes the method used by ESTC personnel to determine the residues of dicamba and its endogenous metabolites, analyzed as chemophores 5-hydroxydicamba, DCSA and DCGA, in soybean matrices. Analyte-specific stable labeled ISs are used to compensate for matrix effects and procedural recovery. (Refer to Appendix A for analyte and standard compound structures.)

16	Pipet 2.5 mL of DI water into the evaporator vial.
17	Evaporate the organic layer until only the aqueous solution remains. Avoid evaporating to dryness. Typical RapidVap™ settings: Temperature = 45 °C, Vacuum = 100 mBar, Speed = 35%, Time = 35 minutes. Suggestion: Prepare the working calibration standards once the RapidVap™ has been activated (See "Calibration standards" in "Sample Preparation").

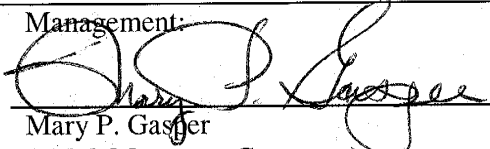


Reason for Amendment (This may include a description of the impact of the change.):

Removed the reference in the purpose & scope about radiovalidation as that information has been provided as part of the validation summary versus the analytical method SOP.

Steps 16 and 17 of sample preparation were inadvertently switched and are being corrected.

Author(s) / prepared by: James Foster / Tessa V. Ploesser

Management:	
	Date: <u>11</u> / <u>19</u> / <u>09</u>
Mary P. Gasper (TFM, Monsanto Company)	

SOP Amendment

SOP number: AG-ME-1321-01

Title: Determination of Dicamba and Its Major Metabolites in Soybean Matrices by LC/MS/MS

Amendment number: 2 Effective date: March 19, 2010

1) SOP Originally States (Include page no. and/or section):

- Page 7, "Solution Preparation" section:

Calibration standards

The instrument calibration standards are made at convenient concentrations of each analyte. The solutions may be prepared in the following manner. Other concentrations may be used provided that the preparation is documented.

Individual stock concentration (µg/mL)	Volume of stock used (mL)	Calibration standard spiking solution total volume (mL)	Calibration standard spiking solution concentration (µg/mL)	Working calibration standard concentration (µg/L)
100	5.0	20	25.0*	500
100	2.5	20	12.5*	250
100	1.0	20	5.00*	100
Calibration standard spiking solution concentration (µg/mL)	Volume of spiking solution used (mL)	Calibration standard spiking solution total volume (mL)	Calibration standard spiking solution concentration (µg/mL)	Injected calibration standard concentration (µg/L)
25.0	2.0	20	2.50*	50.0
12.5	2.0	20	1.25	25.0
5.00	2.0	20	0.500*	10.0
2.50	2.0	20	0.250*	5.0
0.500	2.0	20	0.050	1.0

* Aliquots of these calibration standard solutions are diluted to create lower concentration levels.

1) SOP Amended as Follows:

Calibration standards

The instrument calibration standards are made at convenient concentrations of each analyte. The solutions may be prepared in the following manner. Other concentrations may be used provided that the preparation is documented.

Individual stock concentration (µg/mL)	Volume of stock used (mL)	Calibration standard spiking solution total volume (mL)	Calibration standard spiking solution concentration (µg/mL)	Injected calibration standard concentration (µg/mL)
100	5.0	20	25.0*	0.500
100	2.5	20	12.5*	0.250
100	1.0	20	5.00*	0.100
Calibration standard spiking solution concentration (µg/mL)	Volume of spiking solution used (mL)	Calibration standard spiking solution total volume (mL)	Calibration standard spiking solution concentration (µg/mL)	Injected calibration standard concentration (µg/mL)
25.0	2.0	20	2.50*	0.050
12.5	2.0	20	1.25	0.025
5.00	2.0	20	0.500*	0.010
2.50	2.0	20	0.250*	0.005
0.500	2.0	20	0.050	0.001

* Aliquots of these calibration standard solutions are diluted to create lower concentration levels.

1) Reason for Amendment:

Changed the last column heading to “Injected calibration standard concentration (µg/mL)” and converted the injected calibration standard concentration values from units of µg/L to µg/mL for consistency.

2) SOP Originally States (Include page no. and/or section):

- Page 14, “Residue Calculations” section:

Quadratic equation in “Calibration curve”.

$$\text{Injected concentration (ng/mL analyte)} = -B \pm \sqrt{(B^2 - 4AC)} / 2A$$

2) SOP Amended as Follows:

$$\text{Injected concentration (µg/mL analyte)} = [-B \pm \sqrt{(B^2 - 4AC)}] / 2A$$

2) Reason for Amendment:

The injected concentration equation was changed to µg/mL for consistency in units. The numerator in this equation was clearly defined.

3) SOP Originally States (Include page no. and/or section):

- Page 14, “Residue Calculations” section:

Analyte concentrations

The analytical method contains sample dilution and the resulting ppm value taken directly from the regression curve must be multiplied by a 5X dilution factor. Enter the dilution factor into the Analyst™ “dilution factor” column to automatically calculate the final concentration. The calculated value represents the concentration of the analyte in the initial sample. The sample concentration is calculated by the software as shown in the equation below:

$$\mu\text{g/g (analyte)} = \frac{[(\mu\text{g/mL analyte found})(\text{final volume})]}{\text{sample weight (g)}} \times \frac{\text{extract volume}}{\text{extract aliquot volume}}$$

3) SOP Amended as Follows:

Analyte concentrations

The analytical method contains sample dilution and the resulting concentration value ($\mu\text{g/mL analyte}$) derived from the regression curve must be multiplied by an appropriate dilution factor. Enter the dilution factor into the Analyst™ “dilution factor” column to automatically calculate the final concentration in the raw sample. The dilution factor is calculated manually using the following equation:

$$\text{dilution factor (mL/g)} = \frac{\text{final volume (mL)}}{\text{sample weight (g)}} \times \frac{\text{extract volume (mL)}}{\text{extract aliquot volume (mL)}}$$

where:

- final volume is the volume of the standard solutions (5 mL)
- sample weight is the raw sample weight (10 g)
- extract volume is the volume of extraction solvent (100 mL)
- extract aliquot volume is the volume of the extract aliquot carried through the method (normally 10 mL but will be lower for samples requiring additional dilution)

Using the sample weights and volumes (above) dictated by the method, the dilution factor calculated by the above equation and entered into the Analyst™ software is ‘5’. For samples that require additional dilution due to responses out of the standard curve range, the sample dilution is included in the dilution factor calculation by modifying the ‘extract aliquot volume’ in the equation. For instance, for a 10-fold sample dilution (1-mL extract aliquot carried through the method), the calculated dilution factor is ‘50’. The raw sample concentration is calculated by the Analyst™ software as shown in the equation below:

$$\mu\text{g/g (ppm) analyte found} = (\mu\text{g/mL analyte found}) \times (\text{dilution factor})$$

Using this method, the raw sample concentration results (ppm analyte found) generated by the Analyst™ software are individual analyte concentrations. In order to convert the concentration values to parent dicamba equivalents, it is necessary to multiply the values by appropriate conversion factors accounting for the differences in molecular

weight between parent dicamba and the analytes. Based on molecular weights of 221.04, 207.01, 223.01 and 237.04 for dicamba, DCSA, DCGA and 5-hydroxydicamba, respectively, the conversion factors are 1.068, 0.991, and 0.933 for DCSA, DCGA and 5-hydroxydicamba, respectively.

Note: The Residue Information Management System III (RIMS III) software allows entry of parent/analyte conversion factors in the 'P/A Conversion' tab of the analytical interface. However, the values entered are not utilized by the RIMS III software for analytical data imported from the AnalystTM data system. The calculation for conversion to parent equivalents must be conducted outside of AnalystTM and RIMS III.

3) Reason for Amendment:

The text was modified to clarify how analyte calculations are performed and how dilution factors are entered into AnalystTM. Information was added regarding parent/analyte conversions as well.

4) SOP Originally States (Include page no. and/or section):

- Page 14, "Residue Calculations" section:

Analytical recovery

Successful method performance for each analytical set is assessed by the determination of percent recovery of known amounts of the analytes fortified into control samples. The percent recovery of each analyte is calculated as shown below:

$$\% \text{ recovery} = [(100)(\mu\text{g/g analyte found})] / \mu\text{g/g analyte added}$$

For a large study, there should be near equal numbers of fortifications at each level so the estimated analytical accuracy will not be disproportionately weighted.

4) SOP Amended as Follows:

Analytical recovery

Successful method performance for each analytical set is assessed by the determination of percent recovery of known amounts of the analytes fortified into control samples. The percent recovery of each analyte is calculated as shown below:

$$\% \text{ recovery} = (100) \times \frac{(\mu\text{g/g analyte found}) - (\mu\text{g/g analyte in control})}{\mu\text{g/g analyte added}}$$

For a large study, there should be near equal numbers of fortifications at each level so the estimated analytical accuracy will not be disproportionately weighted.

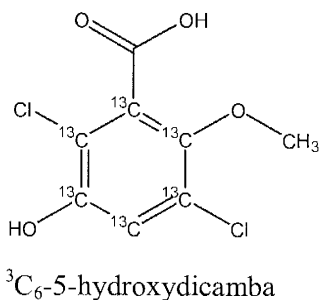
4) Reason for Amendment:

The original equation did not show that the percent recoveries were background corrected.

5) SOP Originally States (Include page no. and/or section):

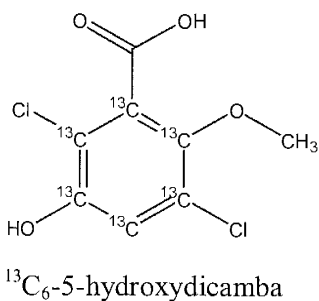
- Page 16, "Appendix A: Compound Structures"

Figure 2:
IS structures



5) SOP Amended as Follows:

Figure 2:
IS structures



5) Reason for Amendment:

The name written for structure ¹³C₆-5-hydroxydicamba was incorrect.

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3 / 19 / 10

Appendix 5. Statistical Report for the Determination of the LOD and LOQ

Statistical Report:

**Determination of Dicamba Residues in Soybean Commodities after Preemergence
and Postemergence Application to Dicamba-Tolerant Soybean MON 87708
- LOD/LOQ Determination**

Study No.: REG-08-096

Purpose

The purpose of this analysis is to estimate the limit of detection (LOD) and limit of quantitation (LOQ) for residues of dicamba and its major metabolites in soybean MON 87708 forage, hay, and seed based on the responses from a set of control and fortified RAC (raw agricultural commodities) samples. Because significant metabolites of dicamba in soybean commodities are conjugates, it was more practical to analyze the hydrolysis products of the conjugates. The analytes included dicamba, and DCSA, DCGA, and 5-OH Dicamba, which are metabolites and/or hydrolysis products of metabolites of dicamba.

Data Description

The untreated control samples for each matrix and each analyte were from control plots planted at the trial sites. Fortification of the control samples with dicamba, DCSA, DCGA, and 5-OH Dicamba standards was conducted in order to evaluate the recovery of the residues. Control samples were fortified at different levels (from 0.0005 ppm to 0.4 ppm for all four analytes with a few additional high concentration test levels) to cover the expected range of concentrations of the analytes. In addition to samples from forage, hay and seed, additional samples of ten matrices obtained from processing of the soybeans were also included in the study. The number and concentration range of fortifications of processing fractions were limited due to the small number of treated samples to be analyzed and the limited amount of some matrices.

The data were received in a Microsoft Excel file "Data for LOD and LOQ determination.xlsx" with nine worksheets: DCSA Fortified, DCSA Controls, DCGA Fortified, DCGA Controls, Dicamba Fortified, Dicamba Controls, 5-Hydroxy Dicamba Fortified, 5-Hydroxy Dicamba Controls, Processing Fraction Controls. The analysis was processed with version 9.2 of the SAS statistical program (SAS Institute Inc., 2002-2008) under Windows XP.

Statistical Methods

At first, summary statistics were obtained and listed in Table 1 by using SAS procedure PROC MEANS for the control and fortified samples of four analytes in three matrices, including mean, standard deviation (SD), recovery percentage (Rec%) and coefficient of variation (CV%).

Similarly, summary statistics for ten matrices from processing fractions were provided in Table 2. However, data for matrices from processing fractions were generally limited in fortification levels, and/or sample size. Thus they were excluded from the following LOD/LOQ analysis.

A statistical model to accommodate means and variations of the responses across fortification levels for the estimation of the LOD and LOQ is described in Jiang (2009). The following is a brief introduction of the method.

The following linear model was used for the analysis of the data:

$$y_{ij} = \alpha_m + \beta_m \cdot d_i + \varepsilon_{ij}$$

y_{ij} : Observed response;

α_m : Intercept;

β_m : Linear change of the mean response with the fortification level;

d_i : The fortification level (ppm);

ε_{ij} : Residual effect.

The biological meaning of above model is that α_m represents the background level (*i.e.*, the average response in the unfortified control samples), β_m is the average recovery of the response in fortified samples as the fortification level increases by 1 ppm. The model also assumes the standard deviation of the residual effect is a linear function of the fortification level of the samples, $\alpha_s + \beta_s \cdot d_i$, the interpretation of α_s and β_s are similar to α_m and β_m for the mean. The SAS procedure NLMIXED was used in the analysis, and the option ESTIMATE was used for the LOD and LOQ calculation, which were defined next as functions of parameters in the above model. Since the fortification level 1 ppm was far away from the region covering the LOD estimates (all less than 0.05 ppm in this study), the data from the fortification level above or equal 1 ppm were excluded from the following analysis (Jiang 2009) of LOD/LOQ estimation.

Detection Criterion: A detection criterion (C_d) is defined as the 99th percentile of the distribution of an analyte in the control samples.

$$C_d = \mu_0 + z_{0.99}\sigma_0$$

where μ_0 and σ_0 are the mean and standard deviation of the control samples, and $z_{0.99}$ is the 99th percentile of the standard normal distribution and to be equal to 2.326. A sample with response $\geq C_d$ would provide strong evidence that the analyte is present (*i.e.* shows excessive amount as compared with that in the control samples, and it could be considered as being “detected”).

Limit of detection (LOD): The LOD is defined as the smallest true concentration in the sample that will consistently result in detections (*i.e.*, response $\geq C_d$). The LOD can be expressed as

$$\text{LOD} = \frac{C_d - \alpha_m + z_{0.99}\alpha_s}{\beta_m - z_{0.99}\beta_s} = \frac{2z_{0.99}\alpha_s}{\beta_m - z_{0.99}\beta_s}$$

This detection limit has the following meaning: If the actual concentration is LOD or greater, there is at least a 99% chance of detection.

Limit of quantitation (LOQ): The LOQ is defined as the true concentration that must be in the sample in order to obtain a coefficient of variation (CV) <20% for the response in this study. The LOQ can be expressed as:

$$\text{LOQ}_{20\%} = \frac{\alpha_s - 0.2\alpha_m}{0.2\beta_m - \beta_s}$$

Statistical Results

For matrices forage, hay, and seed, the mean, standard deviation, recovery percentage and coefficient of variation (CV) of analytes 5-OH Dicamba, DCSA, DCGA, and Dicamba are listed in Table 1 for each standard level. The recovery percentages in Table 1 are all greater than 70% for all analytes across fortifications except some samples at the fortification level 0.0005 ppm and 0.0001 ppm. Large variations relative to the means and/or low recovery percentages in some samples at the fortification levels of 0.0005 ppm and 0.001 ppm were expected and are compatible with the assumptions in the statistical model used for the LOD/LOQ analysis. In general, the mean responses in Table 1, along with the standard deviations, both increase proportionally with the fortification level which justifies the use of the linear statistical model in the analysis.

The regression parameters defined in the model were estimated and listed in Table 3. The LOD and LOQ estimates were listed in Table 4 along with their standard errors. In order to estimate LOD/LOQ with a reasonable data support, one of our general suggestions for a LOD/LOQ study is to include at least one fortification level below the estimated LOD in the assay (Jiang 2009). In the current study, the lowest fortification level is 0.0005 ppm, and all LOD/LOQ estimates are greater than 0.001 ppm.

References

SAS Software Release 9.2 (TS1M0). Copyright© 2002-2008 by SAS Institute Inc., Cary NC.

Jiang, C. 2009. Limits of Detection and Limits of Quantitation in Environmental Measurements. Monsanto Technical Report Number MSL-0021714.

Table 1. Means (ppm), standard deviations (SD ppm), recovery percentage (Rec%=100*Mean/fortppm) and CV(CV%=100*SD/mean) of Dicamba, DCSA, DCGA, and 5-OH Dicamba concentrations by fortification level (fortppm) in the control and the fortified samples of three matrices (forage, hay, and seed).

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Forage	5-OH Dicamba	0.0000	28	0.0003	0.0005	.	196.786
		0.0005	8	0.0001	0.0001	15.0500	198.321
		0.0010	8	0.0004	0.0005	35.6875	152.425
		0.0100	16	0.0086	0.0012	85.6187	14.486
		0.0200	19	0.0190	0.0013	94.8684	6.874
		0.0500	10	0.0508	0.0035	101.5400	6.984
		0.1000	7	0.1035	0.0056	103.5000	5.388
		0.2000	4	0.2035	0.0211	101.7500	10.351
		0.4000	2	0.4210	0.0396	105.2500	9.406
		50.0000	2	54.5000	2.6870	109.0000	4.930
Forage	DCGA	150.0000	2	177.0000	9.8995	118.0000	5.593
		0.0000	36	0.0005	0.0007	.	146.472
		0.0005	8	0.0007	0.0003	148.6000	38.379
		0.0010	8	0.0012	0.0003	117.2625	24.938
		0.0100	15	0.0089	0.0010	88.7533	11.010
		0.0200	15	0.0190	0.0016	94.8000	8.560
		0.0500	7	0.0491	0.0075	98.1429	15.255
		0.1000	5	0.0918	0.0094	91.8400	10.269
		0.2000	10	0.1773	0.0302	88.6500	17.016
		0.4000	4	0.3725	0.0174	93.1250	4.673
		5.0000	1	5.5400	.	110.8000	.
		10.0000	1	10.8000	.	108.0000	.
		25.0000	2	24.4000	0.5657	97.6000	2.318
		50.0000	4	54.6500	4.7226	109.3000	8.642
		150.0000	2	187.5000	0.7071	125.0000	0.377

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Forage	DCSA	0.0000	46	0.0021	0.0031	.	148.413
		0.0005	8	0.0002	0.0004	49.1525	161.625
		0.0010	8	0.0008	0.0008	81.2375	96.936
		0.0100	13	0.0102	0.0012	102.2615	11.792
		0.0200	16	0.0215	0.0012	107.3125	5.423
		0.0500	11	0.0536	0.0034	107.1455	6.429
		0.1000	7	0.1091	0.0065	109.1429	5.971
		0.2000	10	0.2064	0.0048	103.2000	2.309
		0.4000	4	0.4185	0.0179	104.6250	4.281
		5.0000	1	4.2900	.	85.8000	.
		10.0000	1	8.9200	.	89.2000	.
		25.0000	2	22.2000	0.2828	88.8000	1.274
		50.0000	4	46.9250	1.9190	93.8500	4.089
		150.0000	2	155.0000	4.2426	103.3333	2.737
Forage	Dicamba	0.0000	45	0.0016	0.0029	.	188.541
		0.0005	8	0.0000	0.0000	0.0000	.
		0.0010	8	0.0006	0.0012	62.6250	192.695
		0.0100	14	0.0096	0.0025	96.1000	25.922
		0.0200	15	0.0206	0.0045	102.7667	22.005
		0.0500	10	0.0514	0.0072	102.8000	13.928
		0.1000	7	0.1069	0.0117	106.9286	10.908
		0.2000	9	0.2032	0.0189	101.6111	9.319
		0.4000	4	0.4380	0.0575	109.5000	13.130
		5.0000	1	4.4600	.	89.2000	.
		10.0000	1	9.0300	.	90.3000	.
		25.0000	2	22.3500	0.4950	89.4000	2.215
		50.0000	4	49.7250	6.8422	99.4500	13.760
		150.0000	2	179.5000	4.9497	119.6667	2.758
Hay	5-OH Dicamba	0.0000	27	0.0006	0.0018	.	305.788

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Hay	DCGA	0.0005	12	0.0004	0.0005	84.4000	118.602
		0.0010	12	0.0005	0.0005	46.2750	110.766
		0.0100	13	0.0070	0.0032	70.4308	45.965
		0.0200	14	0.0178	0.0027	88.8929	14.911
		0.0500	11	0.0500	0.0033	100.0000	6.553
		0.1000	6	0.1033	0.0023	103.3333	2.263
		0.2000	2	0.2080	0.0184	104.0000	8.839
		0.4000	1	0.4090	.	102.2500	.
		0.0000	39	0.0005	0.0009	.	203.446
		0.0005	8	0.0004	0.0004	76.2500	97.868
		0.0010	8	0.0006	0.0005	55.6750	91.104
		0.0100	12	0.0086	0.0021	85.5667	24.917
		0.0200	13	0.0182	0.0021	90.8077	11.339
		0.0500	10	0.0474	0.0047	94.7000	9.911
		0.1000	5	0.0795	0.0071	79.4600	8.880
		0.2000	7	0.1801	0.0276	90.0714	15.322
		0.4000	7	0.3574	0.0670	89.3571	18.748
		0.8000	1	0.9180	.	114.7500	.
		10.0000	2	7.7600	0.0566	77.6000	0.729
		50.0000	3	49.7667	3.3501	99.5333	6.732
Hay	DCSA	100.0000	2	92.7000	0.7071	92.7000	0.763
		150.0000	2	147.0000	4.2426	98.0000	2.886
		0.0005	8	0.0018	0.0014	361.4825	79.533
		0.0010	8	0.0021	0.0008	207.5250	39.692
		0.0100	12	0.0104	0.0017	104.1083	16.538
		0.0200	13	0.0228	0.0025	113.8462	11.084
		0.0500	10	0.0546	0.0023	109.2400	4.229
		0.1000	5	0.1124	0.0048	112.4000	4.294
		0.2000	8	0.2119	0.0095	105.9375	4.474

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
		0.4000	8	0.4265	0.0173	106.6250	4.063
		5.0000	1	4.6000	.	92.0000	.
		10.0000	2	9.8750	0.3182	98.7500	3.222
		50.0000	2	53.3000	0.8485	106.6000	1.592
		100.0000	2	107.0000	1.4142	107.0000	1.322
		150.0000	2	136.5000	2.1213	91.0000	1.554
Hay	Dicamba	0.0000	28	0.0017	0.0021	.	124.324
		0.0005	8	0.0029	0.0016	582.3250	56.482
		0.0010	8	0.0020	0.0015	202.5000	75.766
		0.0100	12	0.0109	0.0029	108.6000	26.612
		0.0200	13	0.0202	0.0032	100.7692	15.925
		0.0500	10	0.0544	0.0074	108.7800	13.616
		0.1000	5	0.1039	0.0040	103.9000	3.826
		0.2000	3	0.2233	0.0235	111.6667	10.504
		0.4000	3	0.4633	0.0093	115.8333	2.005
		50.0000	2	56.3000	2.9698	112.6000	5.275
Seed	5-OH Dicamba	0.0000	37	0.0008	0.0025	.	325.872
		0.0005	8	0.0002	0.0004	36.9750	224.736
		0.0010	8	0.0001	0.0003	13.6625	235.878
		0.0100	13	0.0076	0.0035	76.1308	46.344
		0.0200	15	0.0189	0.0038	94.5000	20.362
		0.0500	15	0.0478	0.0067	95.6933	13.916
		0.1000	4	0.1120	0.0032	112.0000	2.823
		0.2000	6	0.1988	0.0202	99.4167	10.176
		0.4000	4	0.3890	0.0189	97.2500	4.846
		1.0000	1	1.0400	.	104.0000	.
		5.0000	2	5.5200	0.0990	110.4000	1.793
Seed	DCGA	0.0000	35	0.0006	0.0008	.	128.316
		0.0005	7	0.0016	0.0017	327.4286	103.130

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Seed	DCSA	0.0010	14	0.0011	0.0010	108.5357	90.104
		0.0100	12	0.0088	0.0011	87.8583	13.069
		0.0200	15	0.0190	0.0022	95.1000	11.647
		0.0500	13	0.0483	0.0067	96.5846	13.919
		0.1000	4	0.0909	0.0059	90.8750	6.458
		0.2000	5	0.1960	0.0407	98.0000	20.759
		0.4000	4	0.3943	0.0587	98.5625	14.882
		1.0000	2	1.2150	0.2192	121.5000	18.041
		5.0000	2	6.5650	0.2616	131.3000	3.985
		0.0000	34	0.0004	0.0007		174.710
		0.0005	4	0.0005	0.0004	103.4500	85.142
		0.0010	12	0.0004	0.0009	44.7083	190.633
		0.0100	12	0.0106	0.0014	106.1000	13.640
		0.0200	14	0.0213	0.0023	106.2500	10.780
		0.0500	14	0.0530	0.0032	105.9143	6.047
		0.1000	4	0.1130	0.0022	113.0000	1.912
		0.2000	5	0.2106	0.0135	105.3000	6.394
		0.4000	4	0.4270	0.0337	106.7500	7.884
Seed	Dicamba	1.0000	2	1.0550	0.0778	105.5000	7.373
		5.0000	2	4.9750	0.2192	99.5000	4.406
		0.0000	34	0.0010	0.0019		202.208
		0.0005	4	0.0002	0.0004	45.5950	191.071
		0.0010	12	0.0000	0.0001	4.8283	282.590
		0.0100	12	0.0089	0.0028	88.9750	30.928
		0.0200	14	0.0190	0.0024	95.0357	12.708
		0.0500	14	0.0505	0.0053	100.9143	10.603
		0.1000	4	0.1026	0.0048	102.6250	4.696
		0.2000	5	0.1986	0.0109	99.3000	5.477
		0.4000	4	0.3888	0.0233	97.1875	5.983

Matrix	Analyte	Fortppm	N	Mean	SD	Rec%	CV%
		(ppm)		(ppm)	(ppm)		
		1.0000	2	1.0750	0.0636	107.5000	5.920
		5.0000	2	4.9500	0.1697	99.0000	3.428

Table 2. Means (ppm), standard deviations (SD ppm), recovery percentage (Rec%=100*Mean/fortppm) and CV(CV%=100*SD/mean) of Dicamba, DCSA, DCGA, and 5-OH Dicamba concentrations by fortification level (fortppm) in the control and the fortified samples of ten matrices from processing fraction.

Matrix	Analyte	Fortppm	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Crude Lecithin	5-OH Dicamba	0.0000	4	0.0001	0.0002	.	200.000
		0.0100	3	0.0085	0.0006	85.1333	6.754
		0.2000	3	0.1980	0.0079	99.0000	4.009
		0.4000	2	0.4280	0.0156	107.0000	3.635
		2.0000	2	2.0600	0.2263	103.0000	10.984
Crude Lecithin	DCGA	0.0000	4	0.0001	0.0001	.	146.191
		0.0100	3	0.0071	0.0005	71.3000	7.536
		0.2000	3	0.1577	0.0032	78.8333	2.039
		0.4000	2	0.3630	0.0156	90.7500	4.285
		2.0000	2	2.0200	0.0424	101.0000	2.100
Crude Lecithin	DCSA	0.0000	4	0.0005	0.0006	.	107.523
		0.0100	3	0.0099	0.0005	99.2333	5.172
		0.2000	3	0.1940	0.0157	97.0000	8.101
		0.4000	2	0.4290	0.0042	107.2500	0.989
		2.0000	2	2.1550	0.0354	107.7500	1.641
Crude Lecithin	Dicamba	0.0000	4	0.0004	0.0008	.	200.000
		0.0100	3	0.0089	0.0019	89.0000	20.867
		0.2000	3	0.1727	0.0180	86.3333	10.446
		0.4000	2	0.4270	0.0141	106.7500	3.312
		2.0000	2	2.1400	0.0141	107.0000	0.661
Defatted Flour	5-OH Dicamba	0.0000	4	0.0000	0.0001	.	200.000
		0.0100	3	0.0078	0.0004	77.9000	4.634
		0.0200	2	0.0154	0.0037	77.0000	23.876
		0.0500	2	0.0459	0.0021	91.8000	4.622
		0.4000	1	0.3620	.	90.5000	.
		2.0000	1	1.9800	.	99.0000	.

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Defatted Flour	DCGA	0.0000	3	0.0018	0.0006	.	30.606
		0.0100	1	0.0100	.	100.0000	.
		0.0200	2	0.0208	0.0025	103.7500	11.927
		0.0500	2	0.0458	0.0087	91.5000	19.011
Defatted Flour	DCSA	0.0000	4	0.0009	0.0010	.	116.519
		0.0100	3	0.0106	0.0015	106.3000	14.016
		0.0200	2	0.0208	0.0005	103.7500	2.385
		0.0500	2	0.0509	0.0004	101.8000	0.834
		0.4000	1	0.3690	.	92.2500	.
		2.0000	1	1.7900	.	89.5000	.
Defatted Flour	Dicamba	0.0000	4	0.0000	0.0000	.	.
		0.0100	3	0.0105	0.0014	104.6000	13.651
		0.0200	2	0.0190	0.0023	94.7500	12.314
		0.0500	2	0.0519	0.0018	103.8000	3.542
		0.4000	1	0.3910	.	97.7500	.
		2.0000	1	1.7000	.	85.0000	.
Degummed Oil	5-OH Dicamba	0.0000	4	0.0005	0.0006	.	116.165
		0.0100	3	0.0091	0.0014	90.6000	14.919
		0.2000	2	0.1910	0.0099	95.5000	5.183
Degummed Oil	DCGA	0.0000	4	0.0003	0.0002	.	75.652
		0.0100	3	0.0072	0.0001	71.8667	1.315
		0.2000	2	0.1670	0.0085	83.5000	5.081
Degummed Oil	DCSA	0.0000	4	0.0005	0.0003	.	67.357
		0.0100	3	0.0094	0.0006	93.7000	6.383
		0.2000	2	0.1960	0.0141	98.0000	7.215
Degummed Oil	Dicamba	0.0000	4	0.0000	0.0000	.	200.000
		0.0100	3	0.0083	0.0009	83.0000	11.443

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Protein Concentrates	5-OH Dicamba	0.2000	2	0.2020	0.0057	101.0000	2.800
		0.0000	4	0.0013	0.0008	.	63.872
		0.0100	4	0.0098	0.0008	98.0750	8.141
		0.0200	1	0.0209	.	104.5000	.
		0.0500	2	0.0516	0.0003	103.2000	0.548
Protein Concentrates	DCGA	0.2000	2	0.1845	0.0035	92.2500	1.916
		0.0000	3	0.0001	0.0002	.	173.205
		0.0100	2	0.0087	0.0014	86.6000	16.657
		0.0200	1	0.0206	.	103.0000	.
		0.0500	2	0.0463	0.0038	92.6000	8.247
Protein Concentrates	DCSA	0.0000	4	0.0003	0.0006	.	200.000
		0.0100	4	0.0104	0.0003	103.5000	2.899
		0.0200	1	0.0216	.	108.0000	.
		0.0500	2	0.0505	0.0001	100.9000	0.140
		0.2000	2	0.1890	0.0028	94.5000	1.497
Protein Concentrates	Dicamba	0.0000	4	0.0013	0.0016	.	117.409
		0.0100	4	0.0090	0.0009	90.4500	9.944
		0.0200	1	0.0214	.	107.0000	.
		0.0500	2	0.0486	0.0055	97.2000	11.349
		0.2000	2	0.1965	0.0064	98.2500	3.239
Protein Isolates	5-OH Dicamba	0.0000	4	0.0013	0.0006	.	50.408
		0.0100	4	0.0098	0.0008	98.1250	8.605
		0.0200	1	0.0208	.	104.0000	.
		0.0500	1	0.0490	.	98.0000	.
		0.2000	3	0.1863	0.0140	93.1667	7.539

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Protein Isolates	DCGA	0.0000	3	0.0001	0.0001	.	173.205
		0.0100	2	0.0086	0.0007	85.7500	8.494
		0.0200	1	0.0199	.	99.5000	.
		0.0500	1	0.0529	.	105.8000	.
		0.2000	1	0.1740	.	87.0000	.
Protein Isolates	DCSA	0.0000	4	0.0003	0.0006	.	200.000
		0.0100	4	0.0101	0.0008	100.8000	7.941
		0.0200	1	0.0220	.	110.0000	.
		0.0500	1	0.0535	.	107.0000	.
		0.2000	3	0.1957	0.0070	97.8333	3.590
Protein Isolates	Dicamba	0.0000	4	0.0021	0.0024	.	115.585
		0.0100	4	0.0098	0.0008	98.2000	8.296
		0.0200	1	0.0170	.	85.0000	.
		0.0500	1	0.0514	.	102.8000	.
		0.2000	3	0.1870	0.0190	93.5000	10.160
RBD Oil	5-OH Dicamba	0.0000	4	0.0007	0.0008	.	103.673
		0.0100	3	0.0085	0.0006	85.4333	7.080
		0.2000	1	0.1820	.	91.0000	.
		0.4000	1	0.3840	.	96.0000	.
RBD Oil	DCGA	0.0000	4	0.0002	0.0002	.	136.028
		0.0100	3	0.0076	0.0004	76.0667	5.792
		0.2000	1	0.1660	.	83.0000	.
		0.4000	1	0.4420	.	110.5000	.
RBD Oil	DCSA	0.0000	4	0.0005	0.0004	.	75.482
		0.0100	3	0.0102	0.0005	101.8333	4.455
		0.2000	1	0.2040	.	102.0000	.
		0.4000	1	0.3900	.	97.5000	.

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
RBD Oil	Dicamba	0.0000	4	0.0000	0.0000	.	.
		0.0100	3	0.0086	0.0007	85.7000	8.691
		0.2000	1	0.1900	.	95.0000	.
		0.4000	1	0.3770	.	94.2500	.
Seed Hulls	5-OH Dicamba	0.0000	4	0.0000	0.0000	.	.
		0.0100	2	0.0081	0.0001	80.8500	1.837
		0.0200	1	0.0164	.	82.0000	.
		0.0500	1	0.0526	.	105.2000	.
		0.4000	1	0.4090	.	102.2500	.
		2.0000	1	2.0300	.	101.5000	.
Seed Hulls	DCGA	0.0000	4	0.0002	0.0002	.	116.528
		0.0100	2	0.0076	0.0004	76.0000	5.582
		0.0200	1	0.0194	.	97.0000	.
		0.0500	1	0.0447	.	89.4000	.
		0.4000	1	0.4230	.	105.7500	.
		2.0000	1	2.3300	.	116.5000	.
Seed Hulls	DCSA	0.0000	4	0.0000	0.0000	.	.
		0.0100	2	0.0079	0.0008	79.1500	10.095
		0.0200	1	0.0217	.	108.5000	.
		0.0500	1	0.0505	.	101.0000	.
		0.4000	1	0.3950	.	98.7500	.
		2.0000	1	1.9600	.	98.0000	.
Seed Hulls	Dicamba	0.0000	4	0.0006	0.0012	.	200.000
		0.0100	2	0.0078	0.0007	78.3000	9.573
		0.0200	1	0.0187	.	93.5000	.
		0.0500	1	0.0512	.	102.4000	.
		0.4000	1	0.3870	.	96.7500	.
		2.0000	1	1.9100	.	95.5000	.
Soymilk	5-OH Dicamba	0.0000	4	0.0011	0.0008	.	67.604

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Soymilk	DCGA	0.0100	3	0.0092	0.0004	92.3000	4.822
		0.0200	1	0.0211	.	105.5000	.
		0.0500	1	0.0503	.	100.6000	.
		0.2000	3	0.1873	0.0176	93.6667	9.404
		0.0000	3	0.0001	0.0001	.	173.205
		0.0100	2	0.0086	0.0015	85.8500	17.544
		0.0200	1	0.0205	.	102.5000	.
		0.0500	1	0.0513	.	102.6000	.
Soymilk	DCSA	0.2000	1	0.1850	.	92.5000	.
		0.0000	4	0.0000	0.0000	.	.
		0.0100	3	0.0099	0.0001	99.0000	0.926
		0.0200	1	0.0209	.	104.5000	.
		0.0500	1	0.0549	.	109.8000	.
		0.2000	3	0.1900	0.0125	95.0000	6.595
		0.0000	4	0.0000	0.0000	.	.
		0.0100	3	0.0090	0.0007	90.2667	8.285
Soymilk	Dicamba	0.0200	1	0.0166	.	83.0000	.
		0.0500	1	0.0530	.	106.0000	.
		0.2000	3	0.1887	0.0140	94.3333	7.446
		0.0000	4	0.0000	0.0000	.	.
		0.0100	3	0.0066	0.0007	66.2333	10.153
		0.2000	1	0.2040	.	102.0000	.
		0.4000	1	0.3610	.	90.2500	.
		2.0000	1	1.9200	.	96.0000	.
Toasted Defatted Meal	5-OH Dicamba	0.0000	4	0.0000	0.0000	.	.
		0.0100	3	0.0066	0.0007	66.2333	10.153
		0.2000	1	0.2040	.	102.0000	.
		0.4000	1	0.3610	.	90.2500	.
		2.0000	1	1.9200	.	96.0000	.
		0.0000	4	0.0024	0.0001	.	3.927
		0.0100	3	0.0096	0.0001	95.8333	1.417
		0.2000	1	0.1600	.	80.0000	.
Toasted Defatted Meal	DCGA	0.4000	1	0.3230	.	80.7500	.

Matrix	Analyte	Fortppm (ppm)	N	Mean (ppm)	SD (ppm)	Rec%	CV%
Toasted Defatted Meal	DCSA	2.0000	1	2.1000	.	105.0000	.
		0.0000	4	0.0007	0.0009	.	143.460
		0.0100	3	0.0109	0.0004	108.6667	3.484
		0.2000	1	0.1980	.	99.0000	.
		0.4000	1	0.3730	.	93.2500	.
Toasted Defatted Meal	Dicamba	2.0000	1	1.8400	.	92.0000	.
		0.0000	4	0.0000	0.0000	.	.
		0.0100	3	0.0076	0.0003	75.8667	3.986
		0.2000	1	0.2040	.	102.0000	.
		0.4000	1	0.3930	.	98.2500	.
Tofu	5-OH Dicamba	2.0000	1	1.6700	.	83.5000	.
		0.0000	4	0.0005	0.0003	.	65.028
		0.0100	3	0.0101	0.0003	100.8667	2.778
		0.2000	3	0.1993	0.0098	99.6667	4.924
		0.4000	1	0.3930	.	98.2500	.
Tofu	DCGA	2.0000	1	1.6700	.	83.5000	.
		0.0000	4	0.0005	0.0003	.	65.028
		0.0100	3	0.0101	0.0003	100.8667	2.778
		0.2000	3	0.1993	0.0098	99.6667	4.924
		0.4000	1	0.3930	.	98.2500	.
Tofu	DCSA	2.0000	1	1.6700	.	83.5000	.
		0.0000	4	0.0005	0.0003	.	65.028
		0.0100	3	0.0101	0.0003	100.8667	2.778
		0.2000	3	0.1993	0.0098	99.6667	4.924
		0.4000	1	0.3930	.	98.2500	.
Tofu	Dicamba	2.0000	1	1.6700	.	83.5000	.
		0.0000	4	0.0005	0.0003	.	65.028
		0.0100	3	0.0101	0.0003	100.8667	2.778
		0.2000	3	0.1993	0.0098	99.6667	4.924
		0.4000	1	0.3930	.	98.2500	.
Tofu	DCGA	2.0000	1	1.6700	.	83.5000	.
		0.0000	4	0.0005	0.0003	.	65.028
		0.0100	3	0.0101	0.0003	100.8667	2.778
		0.2000	3	0.1993	0.0098	99.6667	4.924
		0.4000	1	0.3930	.	98.2500	.
Tofu	DCSA	2.0000	1	1.6700	.	83.5000	.
		0.0000	4	0.0005	0.0003	.	65.028
		0.0100	3	0.0101	0.0003	100.8667	2.778
		0.2000	3	0.1993	0.0098	99.6667	4.924
		0.4000	1	0.3930	.	98.2500	.
Tofu	Dicamba	2.0000	1	1.6700	.	83.5000	.
		0.0000	4	0.0005	0.0003	.	65.028
		0.0100	3	0.0101	0.0003	100.8667	2.778
		0.2000	3	0.1993	0.0098	99.6667	4.924
		0.4000	1	0.3930	.	98.2500	.

Table 3. Summary of the estimated regression coefficients (am, bm, as, bs in this table corresponding to α_m , β_m , α_s , β_s in the statistical model, respectively) used to describe the change in the means and standard deviations of the responses with the fortification levels in the control and fortified samples by matrix and analyte.

Matrix	Analyte	Parameter	Estimate	Standard Error
Forage	5-OH Dicamba	am	-.0001	.00010
		bm	.98033	.01413
		as	.00061	.00007
		bs	.07244	.00994
Forage	DCGA	am	.00041	.00008
		bm	.90889	.01599
		as	.00059	.00006
		bs	.09648	.01039
Forage	DCSA	am	.00125	.00028
		bm	1.0391	.00788
		as	.00257	.00019
		bs	.02296	.00495
Forage	Dicamba	am	.00081	.00032
		bm	1.0250	.02036
		as	.00260	.00022
		bs	.09062	.01351
Hay	5-OH Dicamba	am	-.0002	.00028
		bm	.98085	.02534
		as	.00173	.00024
		bs	.06443	.02363
Hay	DCGA	am	.00028	.00012
		bm	.88958	.01940
		as	.00085	.00008
		bs	.11599	.01300
Hay	DCSA	am	.00086	.00027
		bm	1.0697	.00942

Matrix	Analyte	Parameter	Estimate	Standard Error
		as	.00132	.00020
		bs	.03996	.00707
		am	.00140	.00029
		bm	1.0459	.02386
Hay	Dicamba	as	.00193	.00020
		bs	.09022	.01689
		am	.00005	.00030
		bm	.97507	.02058
Seed	5-OH Dicamba	as	.00228	.00022
		bs	.08670	.01553
		am	.00054	.00013
		bm	.93373	.01996
Seed	DCGA	as	.00092	.00009
		bs	.11015	.01332
		am	.00014	.00011
		bm	1.0630	.01192
Seed	DCSA	as	.00082	.00008
		bs	.05912	.00855
		am	.00021	.00024
		bm	.98497	.01375
Seed	Dicamba	as	.00186	.00018
		bs	.05164	.01029

Table 4. Estimated detection criterion (C_d), limits of detection (LOD) and the limit of quantitation ($LOQ_{20\%}$, corresponding to a coefficient of variation of 20%) in the unit of ppm by matrix and analyte.

Matrix	Analyte	Parameter	Estimate	Standard Error
Forage	5-OH Dicamba	Cd	0.0013	0.0002
		LOD	0.0035	0.0004
		$LOQ_{20\%}$	0.0050	0.0006
Forage	DCGA	Cd	0.0018	0.0002
		LOD	0.0040	0.0004
		$LOQ_{20\%}$	0.0059	0.0010
Forage	DCSA	Cd	0.0072	0.0005
		LOD	0.0121	0.0009
		$LOQ_{20\%}$	0.0125	0.0011
Forage	Dicamba	Cd	0.0069	0.0006
		LOD	0.0149	0.0013
		$LOQ_{20\%}$	0.0213	0.0029
Hay	5-OH Dicamba	Cd	0.0038	0.0005
		LOD	0.0097	0.0009
		$LOQ_{20\%}$	0.0135	0.0017
Hay	DCGA	Cd	0.0023	0.0002
		LOD	0.0064	0.0007
		$LOQ_{20\%}$	0.0128	0.0030
Hay	DCSA	Cd	0.0039	0.0005
		LOD	0.0063	0.0009
		$LOQ_{20\%}$	0.0066	0.0011
Hay	Dicamba	Cd	0.0059	0.0005
		LOD	0.0107	0.0011
		$LOQ_{20\%}$	0.0139	0.0022
Seed	5-OH Dicamba	Cd	0.0053	0.0006
		LOD	0.0137	0.0012
		$LOQ_{20\%}$	0.0209	0.0030

Matrix	Analyte	Parameter	Estimate	Standard Error
Seed	DCGA	Cd	0.0027	0.0002
		LOD	0.0063	0.0006
		LOQ20%	0.0106	0.0021
Seed	DCSA	Cd	0.0020	0.0002
		LOD	0.0041	0.0004
		LOQ20%	0.0052	0.0005
Seed	Dicamba	Cd	0.0045	0.0005
		LOD	0.0100	0.0009
		LOQ20%	0.0125	0.0012

Report Submitted by:

Changjian Jiang

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Statistics Technology Center
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8/25/09

Date

Appendix 6. Recovery Tables

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN FORAGE

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00282	0.0005	0.0005	0.000	0.0000		2008DEC18_REG08096_A1472JEF_fs3_v2 028
REG08096-00282	0.0005	0.0007	0.0000	6.20		2008DEC18_REG08096_A1472JEF_fs3_v2 029
REG08096-00282	0.0005	0.0007	0.0000	9.80		2008DEC18_REG08096_A1472JEF_fs3_v2 027
REG08096-00282	0.0005	0.0007	0.0001	11.00		2008DEC18_REG08096_A1472JEF_fs3_v2 026
REG08096-00318	0.0005	0.0006	0.0002	35.40		2009MAR24_REG08096_A1472JEF_fs4reinj 009
REG08096-00318	0.0005	0.0014	0.0010	200.40		2009MAR24_REG08096_A1472JEF_fs4reinj 008
REG08096-00327	0.0005	0.0006	0.0000	7.40		2009MAR24_REG08096_A1472JEF_fs4reinj 028
REG08096-00327	0.0005	0.0008	0.0002	35.00		2009MAR24_REG08096_A1472JEF_fs4reinj 029
REG08096-00255	0.0010	0.0014	0.0014	135.00		2008DEC18_REG08096_A1472JEF_fs3_v2 009
REG08096-00255	0.0010	0.0014	0.0014	139.00		2008DEC18_REG08096_A1472JEF_fs3_v2 008
REG08096-00282	0.0010	0.0008	0.0002	20.40		2008DEC18_REG08096_A1472JEF_fs3_v2 023
REG08096-00282	0.0010	0.0008	0.0002	20.50		2008DEC18_REG08096_A1472JEF_fs3_v2 024
REG08096-00318	0.0010	0.0013	0.0008	82.20		2009MAR24_REG08096_A1472JEF_fs4reinj 005
REG08096-00318	0.0010	0.0017	0.0012	123.20		2009MAR24_REG08096_A1472JEF_fs4reinj 006
REG08096-00327	0.0010	0.0010	0.0004	44.60		2009MAR24_REG08096_A1472JEF_fs4reinj 027
REG08096-00327	0.0010	0.0011	0.0005	46.60		2009MAR24_REG08096_A1472JEF_fs4reinj 026
REG08096-00255	0.0100	0.0089	0.0089	89.20		2008DEC18_REG08096_A1472JEF_fs3_v2 003
REG08096-00264	0.0100	0.0112	0.0112	112.00		2009MAR13_REG08096_A1472JEF_fs1 003
REG08096-00291	0.0100	0.0086	0.0081	80.76		2008DEC03_REG08096_A1472JEF_fs2_v2ppm 003
REG08096-00318	0.0100	0.0087	0.0083	82.82		2009MAR24_REG08096_A1472JEF_fs4reinj 004
REG08096-00318	0.0100	0.0088	0.0084	83.92		2009MAR24_REG08096_A1472JEF_fs4reinj 003
REG08096-00327	0.0100	0.0085	0.0080	79.56		2009MAR24_REG08096_A1472JEF_fs4reinj 023
REG08096-00327	0.0100	0.0090	0.0084	83.66		2009MAR24_REG08096_A1472JEF_fs4reinj 024
REG08096-00345	0.0100	0.0089	0.0079	79.36		2009MAR13_REG08096_A1472JEF_fs5 015
REG08096-00354	0.0100	0.0080	0.0080	80.00		2009JAN22_REG08096_A1472JEF_fs8 003
REG08096-00372	0.0100	0.0088	0.0083	82.75		2008DEC03_REG08096_A1472JEF_fs2_v2ppm 030
REG08096-00399	0.0100	0.0099	0.0082	82.00		2008DEC18_REG08096_A1472JEF_fs7_v2 003
REG08096-00426	0.0100	0.0075	0.0075	74.80		2009APR27_REG08096_A1472JEF_sfhS1 016
REG08096-00426	0.0100	0.0079	0.0079	78.90		2009APR27_REG08096_A1472JEF_sfhS1 017

Recovery Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00426	0.0100	0.0080	0.0080	80.40		2009APR27_REG08096_A1472JEF_sfhS1_015
REG08096-00435	0.0100	0.0104	0.0087	87.30		2008DEC17_REG08096_A1472JEF_fs6reinj_v2_003
REG08096-00255	0.0200	0.0197	0.0197	98.50		2008DEC18_REG08096_A1472JEF_fs3_v2_004
REG08096-00300	0.0200	0.0172	0.0166	83.12		2008DEC03_REG08096_A1472JEF_fs2_v2ppm_015
REG08096-00309	0.0200	0.0187	0.0179	89.33		2009MAR13_REG08096_A1472JEF_fs5_003
REG08096-00318	0.0200	0.0195	0.0191	95.36		2009MAR24_REG08096_A1472JEF_fs4reinj_040
REG08096-00318	0.0200	0.0198	0.0194	96.86		2009MAR24_REG08096_A1472JEF_fs4reinj_041
REG08096-00327	0.0200	0.0191	0.0185	92.58		2009MAR24_REG08096_A1472JEF_fs4reinj_043
REG08096-00327	0.0200	0.0193	0.0187	93.58		2009MAR24_REG08096_A1472JEF_fs4reinj_042
REG08096-00336	0.0200	0.0214	0.0214	107.00		2009MAR13_REG08096_A1472JEF_fs1_028
REG08096-00363	0.0200	0.0213	0.0207	103.48		2008DEC17_REG08096_A1472JEF_fs6reinj_v2_028
REG08096-00381	0.0200	0.0211	0.0202	101.17		2008DEC17_REG08096_A1472JEF_fs6reinj_v2_015
REG08096-00390	0.0200	0.0162	0.0162	81.00		2009JAN22_REG08096_A1472JEF_fs8_015
REG08096-00417	0.0200	0.0191	0.0191	95.50		2008DEC18_REG08096_A1472JEF_fs7_v2_015
REG08096-00426	0.0200	0.0168	0.0168	84.00		2009APR27_REG08096_A1472JEF_sfhS1_020
REG08096-00426	0.0200	0.0175	0.0175	87.50		2009APR27_REG08096_A1472JEF_sfhS1_021
REG08096-00426	0.0200	0.0177	0.0177	88.50		2009APR27_REG08096_A1472JEF_sfhS1_018
REG08096-00255	0.0500	0.0459	0.0459	91.80		2008DEC18_REG08096_A1472JEF_fs3_v2_005
REG08096-00273	0.0500	0.0465	0.0459	91.88		2009MAR13_REG08096_A1472JEF_fs5_027
REG08096-00372	0.0500	0.0444	0.0438	87.69		2008DEC03_REG08096_A1472JEF_fs2_v2ppm_029
REG08096-00381	0.0500	0.0506	0.0497	99.47		2008DEC17_REG08096_A1472JEF_fs6reinj_v2_016
REG08096-00408	0.0500	0.0642	0.0614	122.82		2009MAR13_REG08096_A1472JEF_fs1_015
REG08096-00417	0.0500	0.0508	0.0508	101.60		2008DEC18_REG08096_A1472JEF_fs7_v2_016
REG08096-00444	0.0500	0.0411	0.0411	82.20		2009JAN22_REG08096_A1472JEF_fs8_027
REG08096-00255	0.1000	0.0866	0.0866	86.60		2008DEC18_REG08096_A1472JEF_fs3_v2_006
REG08096-00354	0.1000	0.1080	0.1080	108.00		2009MAR26_REG08096_A1472JEF_sfrtS1_v2_020
REG08096-00426	0.1000	0.0851	0.0851	85.10		2009APR27_REG08096_A1472JEF_sfhS1_024
REG08096-00426	0.1000	0.0872	0.0872	87.20		2009APR27_REG08096_A1472JEF_sfhS1_023
REG08096-00426	0.1000	0.0923	0.0923	92.30		2009APR27_REG08096_A1472JEF_sfhS1_022

Recovery Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00255	0.2000	0.1890	0.1889	94.47		2009AUG14_REG08096_A1472JEF_f 003
REG08096-00264	0.2000	0.2240	0.2240	112.00		2009APR03_REG08096_A1472JEF_fs1D 003
REG08096-00273	0.2000	0.1390	0.1384	69.22		2009MAR13_REG08096_A1472JEF_fs5 028
REG08096-00273	0.2000	0.1420	0.1417	70.84		2009MAY06_REG08096_A1472JEF_hfSall 024
REG08096-00300	0.2000	0.1980	0.1980	99.00		2009APR16_REG08096_A1472JEF_fs2D 003
REG08096-00318	0.2000	0.1950	0.1934	96.72		2009APR25_REG08096_A1472JEF_fSAIID 003
REG08096-00327	0.2000	0.1950	0.1950	97.50		2009APR02_REG08096_A1472JEF_fs7D 003
REG08096-00345	0.2000	0.1430	0.1430	71.50		2009JAN08_REG08096_A1472JEF_fs5_v2 028
REG08096-00372	0.2000	0.1790	0.1768	88.38		2009APR23_REG08096_A1472JEF_fs4D 003
REG08096-00426	0.2000	0.2020	0.2020	101.00		2009APR06_REG08096_A1472JEF_fs6D 003
REG08096-00444	0.2000	0.1560	0.1560	78.00		2009JAN22_REG08096_A1472JEF_fs7D 024
REG08096-00255	0.4000	0.3860	0.3860	96.50		2009APR02_REG08096_A1472JEF_fs1 027
REG08096-00336	0.4000	0.3770	0.3770	94.25		2009MAR13_REG08096_A1472JEF_fs5D 034
REG08096-00417	0.4000	0.3800	0.3800	95.00		2009APR09_REG08096_A1472JEF_sfhS1 041
REG08096-00426	0.4000	0.3470	0.3470	86.75		2009APR27_REG08096_A1472JEF_fs5D 003
REG08096-00399	5.0000	5.5400	5.5400	110.80		2009APR09_REG08096_A1472JEF_fs5D 020
REG08096-00408	10.0000	10.8000	10.8000	108.00		2009APR09_REG08096_A1472JEF_fs3D 003
REG08096-00336	25.0000	24.0000	24.0000	96.00		2009MAR31_REG08096_A1472JEF_fs3D 004
REG08096-00336	25.0000	24.8000	24.8000	99.20		2009MAR31_REG08096_A1472JEF_fs3D 018
REG08096-00345	50.0000	49.8000	49.8000	99.60		2009MAR31_REG08096_A1472JEF_fs3D 020
REG08096-00345	50.0000	51.4000	51.4000	102.80		2009MAR31_REG08096_A1472JEF_sfhS1 043
REG08096-00426	50.0000	58.6000	58.6000	117.20		2009APR27_REG08096_A1472JEF_sfhS1 042
REG08096-00426	50.0000	58.8000	58.8000	117.60		2009APR27_REG08096_A1472JEF_sfhS1 044
REG08096-00426	150.0000	187.0000	187.0000	124.67		2009APR27_REG08096_A1472JEF_sfhS1 045
REG08096-00426	150.0000	188.0000	188.0000	125.33		

Recovery Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00530	0.0005	0.0006	0.0001	11.80	2009FEB26_REG08096_A1472JEF_hS4 021	
REG08096-00530	0.0005	0.0007	0.0002	32.00	2009FEB26_REG08096_A1472JEF_hS4 022	
REG08096-00530	0.0005	0.0007	0.0002	40.40	2009FEB26_REG08096_A1472JEF_hS4 024	
REG08096-00530	0.0005	0.0009	0.0003	67.00	2009FEB26_REG08096_A1472JEF_hS4 023	
REG08096-00539	0.0005	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 005	
REG08096-00539	0.0005	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 009	
REG08096-00539	0.0005	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 023	
REG08096-00539	0.0005	0.0002	0.0002	34.80	2009JAN16_REG08096_A1472JEF_hS3 027	
REG08096-00503	0.0010	0.0010	0.0007	74.10	2009FEB26_REG08096_A1472JEF_hS4 009	
REG08096-00503	0.0010	0.0012	0.0009	92.50	2009FEB26_REG08096_A1472JEF_hS4 008	
REG08096-00530	0.0010	0.0010	0.0004	42.50	2009FEB26_REG08096_A1472JEF_hS4 020	
REG08096-00530	0.0010	0.0010	0.0004	44.70	2009FEB26_REG08096_A1472JEF_hS4 018	
REG08096-00539	0.0010	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 004	
REG08096-00539	0.0010	0.0001	0.0001	12.80	2009JAN16_REG08096_A1472JEF_hS3 026	
REG08096-00539	0.0010	0.0002	0.0002	23.80	2009JAN16_REG08096_A1472JEF_hS3 008	
REG08096-00548	0.0010	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 022	
REG08096-00485	0.0100	0.0067	0.0067	66.70	2009FEB05_REG08096_A1472JEF_hS2reinj 003	
REG08096-00485	0.0100	0.0074	0.0074	73.70	2009APR27_REG08096_A1472JEF_sfhS1 027	
REG08096-00485	0.0100	0.0078	0.0078	78.30	2009APR27_REG08096_A1472JEF_sfhS1 029	
REG08096-00485	0.0100	0.0079	0.0079	79.30	2009APR27_REG08096_A1472JEF_sfhS1 028	
REG08096-00503	0.0100	0.0067	0.0065	64.65	2009FEB26_REG08096_A1472JEF_hS4 003	
REG08096-00512	0.0100	0.0079	0.0079	78.80	2009JAN07_REG08096_A1472JEF_hS5 003	
REG08096-00521	0.0100	0.0083	0.0083	83.20	2009FEB05_REG08096_A1472JEF_hS2reinj 030	
REG08096-00539	0.0100	0.0074	0.0074	74.40	2009JAN16_REG08096_A1472JEF_hS3 003	
REG08096-00584	0.0100	0.0090	0.0090	90.20	2009MAR10_REG08096_A1472JEF_hS6 003	
REG08096-00611	0.0100	0.0089	0.0089	89.10	2009JAN23_REG08096_A1472JEF_hS7 003	
REG08096-00638	0.0100	0.0146	0.0096	96.40	2009MAR12_REG08096_A1472JEF_hS1 003	
REG08096-00656	0.0100	0.0100	0.0100	100.00	2009JAN31_REG08096_A1472JEF_hS8 003	
REG08096-00485	0.0200	0.0153	0.0153	76.50	2009APR27_REG08096_A1472JEF_sfhS1 030	

Recovery Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00485	0.0200	0.0158	0.0158	79.00		2009APR27_REG08096_A1472JEF_sfhS1 033
REG08096-00485	0.0200	0.0162	0.0162	81.00		2009APR27_REG08096_A1472JEF_sfhS1 031
REG08096-00494	0.0200	0.0185	0.0181	90.47		2009FEB05_REG08096_A1472JEF_hS2reinj 017
REG08096-00503	0.0200	0.0167	0.0165	82.28		2009FEB26_REG08096_A1472JEF_hS4 004
REG08096-00539	0.0200	0.0183	0.0183	91.50		2009JAN16_REG08096_A1472JEF_hS3 006
REG08096-00557	0.0200	0.0182	0.0182	91.00		2009JAN07_REG08096_A1472JEF_hS3 005
REG08096-00566	0.0200	0.0220	0.0209	104.55		2009MAR12_REG08096_A1472JEF_hS1 015
REG08096-00575	0.0200	0.0165	0.0165	82.50		2009JAN07_REG08096_A1472JEF_hS5 028
REG08096-00593	0.0200	0.0211	0.0211	105.27		2009MAR10_REG08096_A1472JEF_hS6 015
REG08096-00620	0.0200	0.0202	0.0202	100.92		2009MAR10_REG08096_A1472JEF_hS6 029
REG08096-00647	0.0200	0.0190	0.0167	83.60		2009JAN23_REG08096_A1472JEF_hS7 015
REG08096-00665	0.0200	0.0183	0.0181	90.38		2009JAN31_REG08096_A1472JEF_hS8 015
REG08096-00503	0.0500	0.0412	0.0410	81.91		2009FEB26_REG08096_A1472JEF_hS4 005
REG08096-00503	0.0500	0.0503	0.0503	100.60		2009MAR17_REG08096_A1472JEF_shtr3 027
REG08096-00521	0.0500	0.0487	0.0487	97.40		2009FEB05_REG08096_A1472JEF_hS2reinj 029
REG08096-00548	0.0500	0.0426	0.0426	85.20		2009JAN16_REG08096_A1472JEF_hS3 021
REG08096-00557	0.0500	0.0401	0.0401	80.20		2009JAN07_REG08096_A1472JEF_hS5 016
REG08096-00566	0.0500	0.0529	0.0518	103.62		2009MAR12_REG08096_A1472JEF_hS1 016
REG08096-00611	0.0500	0.0468	0.0468	93.60		2009JAN23_REG08096_A1472JEF_hS7 016
REG08096-00620	0.0500	0.0531	0.0531	106.17		2009MAR10_REG08096_A1472JEF_hS6 030
REG08096-00629	0.0500	0.0472	0.0460	92.08		2009JAN23_REG08096_A1472JEF_hS7 028
REG08096-00665	0.0500	0.0506	0.0504	100.75		2009JAN31_REG08096_A1472JEF_hS8 016
REG08096-00485	0.1000	0.0824	0.0824	82.40		2009APR27_REG08096_A1472JEF_sfhS1 035
REG08096-00485	0.1000	0.0843	0.0843	84.30		2009APR27_REG08096_A1472JEF_sfhS1 036
REG08096-00485	0.1000	0.0860	0.0860	86.00		2009APR27_REG08096_A1472JEF_sfhS1 034
REG08096-00503	0.1000	0.0756	0.0754	75.36		2009FEB26_REG08096_A1472JEF_hS4 006
REG08096-00539	0.1000	0.0690	0.0690	69.00		2009JAN16_REG08096_A1472JEF_hS3 024
REG08096-00494	0.2000	0.2210	0.2202	110.09		2009APR10_REG08096_A1472JEF_hS1D 003
REG08096-00539	0.2000	0.1420	0.1400	70.00		2009MAY06_REG08096_A1472JEF_hfSall 003

Recovery Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00548	0.2000	0.1840	0.1833	91.64	2009APR21_REG08096_A1472JEF_hS3D 003	
REG08096-00602	0.2000	0.1590	0.1590	79.50	2009APR24_REG08096_A1472JEF_hS7DR 037	
REG08096-00611	0.2000	0.1680	0.1680	84.00	2009APR18_REG08096_A1472JEF_hS5D 015	
REG08096-00620	0.2000	0.1780	0.1775	88.76	2009APR20_REG08096_A1472JEF_hS6D 003	
REG08096-00674	0.2000	0.2090	0.2073	103.67	2009JAN31_REG08096_A1472JEF_hS8 028	
REG08096-00548	0.4000	0.3770	0.3763	94.07	2009APR21_REG08096_A1472JEF_hS3D 004	
REG08096-00584	0.4000	0.3870	0.3870	96.75	2009APR14_REG08096_A1472JEF_hS4D 015	
REG08096-00602	0.4000	0.2840	0.2830	70.76	2009MAR12_REG08096_A1472JEF_hS1 028	
REG08096-00602	0.4000	0.3160	0.3160	79.00	2009APR24_REG08096_A1472JEF_hS7DR 038	
REG08096-00629	0.4000	0.3320	0.3320	83.00	2009APR18_REG08096_A1472JEF_hS5D 027	
REG08096-00665	0.4000	0.3200	0.3200	80.00	2009APR24_REG08096_A1472JEF_hS7DR 003	
REG08096-00512	0.8000	0.9180	0.9175	114.69	2009APR15_REG08096_A1472JEF_hS2D 003	
REG08096-00557	10.0000	7.8000	7.8000	78.00	2009APR21_REG08096_A1472JEF_hS3D 023	
REG08096-00602	10.0000	7.7200	7.7200	77.20	2009APR18_REG08096_A1472JEF_hS5D 003	
REG08096-00593	50.0000	46.4000	46.4000	92.80	2009APR14_REG08096_A1472JEF_hS4D 027	
REG08096-00674	50.0000	49.8000	49.8000	99.60	2009APR24_REG08096_A1472JEF_hS7DR 012	
REG08096-00674	50.0000	53.1000	53.1000	106.20	2009APR24_REG08096_A1472JEF_hS7DR 014	
REG08096-00602	100.0000	92.2000	92.2000	92.20	2009APR18_REG08096_A1472JEF_hS5D 047	
REG08096-00602	100.0000	93.2000	93.2000	93.20	2009APR18_REG08096_A1472JEF_hS5D 046	
REG08096-00575	150.0000	144.0000	144.0000	96.00	2009APR21_REG08096_A1472JEF_hS3D 035	
REG08096-00575	150.0000	150.0000	150.0000	100.00	2009APR21_REG08096_A1472JEF_hS3D 036	

Recovery Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00019	0.0005	0.000	0.000	0.0000		2009JAN30_REG08096_A1472JEF_gS10 012
REG08096-00019	0.0005	0.000	0.000	0.0000		2009JAN30_REG08096_A1472JEF_gS10 014
REG08096-00019	0.0005	0.000	0.000	0.0000		2009JAN30_REG08096_A1472JEF_gS10 016
REG08096-00100	0.0005	0.0020	0.000	0.0000		2009JAN16_REG08096_A1472JEF_gS10 012
REG08096-00100	0.0005	0.0022	0.000	0.0000		2009JAN16_REG08096_A1472JEF_gS10 014
REG08096-00100	0.0005	0.0032	0.0007	148.00		2009JAN16_REG08096_A1472JEF_gS10 016
REG08096-00100	0.0005	0.0042	0.0017	344.00		2009JAN16_REG08096_A1472JEF_gS10 015
REG08096-00019	0.0010	0.000	0.000	0.0000		2009JAN30_REG08096_A1472JEF_gS10 011
REG08096-00019	0.0010	0.0007	0.0007	71.40		2009JAN30_REG08096_A1472JEF_gS10 010
REG08096-00028	0.0010	0.0009	0.0001	8.00		2009JAN12_REG08096_A1472JEF_gS7_v2 005
REG08096-00100	0.0010	0.0020	0.000	0.0000		2009JAN16_REG08096_A1472JEF_gS10 011
REG08096-00100	0.0010	0.0028	0.0004	37.00		2009JAN16_REG08096_A1472JEF_gS10 009
REG08096-00100	0.0010	0.0033	0.0009	85.00		2009JAN16_REG08096_A1472JEF_gS10 010
REG08096-00145	0.0010	0.0005	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00145	0.0010	0.0007	0.0000	3.40		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00145	0.0010	0.0010	0.0003	32.00		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00145	0.0010	0.0013	0.0007	67.50		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00163	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00163	0.0010	0.0003	0.0003	31.60		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00163	0.0010	0.0009	0.0009	86.10		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00163	0.0010	0.0009	0.0009	88.00		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00001	0.0100	0.0087	0.0078	77.75		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 003
REG08096-00010	0.0100	0.0112	0.0095	95.30		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 003
REG08096-00019	0.0100	0.0083	0.0083	83.00		2008DEC10_REG08096_A1472JEF_gS4reinj_v2p
REG08096-00028	0.0100	0.0078	0.0078	78.10		2009APR27_REG08096_A1472JEF_sfhS1 004
REG08096-00028	0.0100	0.0079	0.0071	71.06		2009JAN12_REG08096_A1472JEF_gS7_v2 003
REG08096-00028	0.0100	0.0088	0.0088	88.00		2009APR27_REG08096_A1472JEF_sfhS1 005
REG08096-00028	0.0100	0.0090	0.0090	89.70		2009APR27_REG08096_A1472JEF_sfhS1 003
REG08096-00064	0.0100	0.0074	0.0074	74.40		2009FEB10_REG08096_A1472JEF_gS6 012

Recovery Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00073	0.0100	0.0081	0.0074	74.02		2009MAR06_REG08096_A1472JEF_gS2 003
REG08096-00145	0.0100	0.0106	0.0100	99.65		2008DEC10_REG08096_A1472JEF_gS8reinl_v2p
REG08096-00154	0.0100	0.0095	0.0093	93.17		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 003
REG08096-00181	0.0100	0.0081	0.0076	75.89		2009MAR06_REG08096_A1472JEF_gS2 024
REG08096-00001	0.0200	0.0209	0.0209	104.50		2009JAN15_REG08096_A1472JEF_gS9 003
REG08096-00028	0.0200	0.0153	0.0145	72.43		2009JAN12_REG08096_A1472JEF_gS7_v2 004
REG08096-00028	0.0200	0.0165	0.0165	82.50		2009APR27_REG08096_A1472JEF_sfhS1 008
REG08096-00028	0.0200	0.0176	0.0176	88.00		2009APR27_REG08096_A1472JEF_sfhS1 009
REG08096-00028	0.0200	0.0183	0.0183	91.50		2009APR27_REG08096_A1472JEF_sfhS1 006
REG08096-00037	0.0200	0.0235	0.0231	115.39		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 017
REG08096-00046	0.0200	0.0191	0.0191	95.50		2008DEC10_REG08096_A1472JEF_gS4reinl_v2p
REG08096-00100	0.0200	0.0188	0.0188	94.00		2009FEB10_REG08096_A1472JEF_gS6 015
REG08096-00118	0.0200	0.0189	0.0180	90.11		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 015
REG08096-00136	0.0200	0.0171	0.0165	82.51		2009MAR06_REG08096_A1472JEF_gS2 012
REG08096-00145	0.0200	0.0219	0.0213	106.33		2008DEC10_REG08096_A1472JEF_gS8reinl_v2p
REG08096-00154	0.0200	0.0198	0.0198	99.00		2009JAN30_REG08096_A1472JEF_gS10 003
REG08096-00172	0.0200	0.0208	0.0205	102.57		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 015
REG08096-00190	0.0200	0.0201	0.0199	99.62		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 028
REG08096-00001	0.0500	0.0462	0.0462	92.40		2009JAN15_REG08096_A1472JEF_gS9 004
REG08096-00028	0.0500	0.0476	0.0460	92.06		2009MAR17_REG08096_A1472JEF_shirt3 003
REG08096-00082	0.0500	0.0444	0.0444	88.80		2008DEC10_REG08096_A1472JEF_gS4reinl_v2p
REG08096-00091	0.0500	0.0527	0.0496	99.24		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 027
REG08096-00100	0.0500	0.0628	0.0611	122.12		2009MAR26_REG08096_A1472JEF_sfrt5S1_v2 003
REG08096-00109	0.0500	0.0322	0.0322	64.40		2008DEC11_REG08096_A1472JEF_gS6_v2ppm 030
REG08096-00109	0.0500	0.0477	0.0477	95.40		2009FEB10_REG08096_A1472JEF_gS6 026
REG08096-00109	0.0500	0.0489	0.0489	97.80		2009FEB10_REG08096_A1472JEF_gS6 024
REG08096-00127	0.0500	0.0365	0.0355	71.09		2009JAN12_REG08096_A1472JEF_gS7_v2 017
REG08096-00154	0.0500	0.0535	0.0535	107.00		2009JAN30_REG08096_A1472JEF_gS10 004
REG08096-00163	0.0500	0.0506	0.0506	101.20		2008DEC10_REG08096_A1472JEF_gS8reinl_v2p

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00172	0.0500	0.0514	0.0511	102.23		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 016
REG08096-00181	0.0500	0.0477	0.0472	94.42		2009MAR06_REG08096_A1472JEF_gS2 023
REG08096-00028	0.1000	0.0869	0.0869	86.90		2009APR27_REG08096_A1472JEF_sfhS1 011
REG08096-00028	0.1000	0.0871	0.0871	87.10		2009APR27_REG08096_A1472JEF_sfhS1 010
REG08096-00028	0.1000	0.0901	0.0901	90.10		2009APR27_REG08096_A1472JEF_sfhS1 012
REG08096-00118	0.1000	0.0994	0.0985	98.52		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 016
REG08096-00001	0.2000	0.1830	0.1830	91.50		2009JAN15_REG08096_A1472JEF_gS9 005
REG08096-00082	0.2000	0.1990	0.1990	99.50		2008DEC10_REG08096_A1472JEF_gS4reini_v2p
REG08096-00127	0.2000	0.1340	0.1330	66.52		2009JAN12_REG08096_A1472JEF_gS7_v2 018
REG08096-00154	0.2000	0.2300	0.2300	115.00		2009JAN30_REG08096_A1472JEF_gS10 005
REG08096-00163	0.2000	0.2340	0.2340	117.00		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00001	0.4000	0.3550	0.3550	88.75		2009JAN15_REG08096_A1472JEF_gS9 006
REG08096-00028	0.4000	0.3470	0.3470	86.75		2009APR27_REG08096_A1472JEF_sfhS1 037
REG08096-00037	0.4000	0.4000	0.3996	99.89		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 018
REG08096-00154	0.4000	0.4750	0.4750	118.75		2009JAN30_REG08096_A1472JEF_gS10 006
REG08096-00127	1.0000	1.0600	1.0584	105.84		2009MAR17_REG08096_A1472JEF_shtr3 017
REG08096-00136	1.0000	1.3700	1.3694	136.94		2009MAR06_REG08096_A1472JEF_gS2 014
REG08096-00028	5.0000	6.3800	6.3800	127.60		2009APR27_REG08096_A1472JEF_sfhS1 038
REG08096-00028	5.0000	6.7500	6.7500	135.00		2009APR27_REG08096_A1472JEF_sfhS1 039

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED CRUDE LECITHIN

Sample ID	ppm Added	DCGA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Percent Recovered		
REG08096-00699	0.0100	0.0068	0.0067	66.62	2009FEB25_REG08096_A1472JEF_pfS8_v2 016	
REG08096-00699	0.0100	0.0068	0.0067	67.02	2009FEB25_REG08096_A1472JEF_pfS8_v2 017	
REG08096-00732	0.0100	0.0078	0.0078	77.50	2009JAN29_REG08096_A1472JEF_pfS3 004	
REG08096-00699	0.2000	0.1540	0.1539	76.93	2009FEB25_REG08096_A1472JEF_pfS8_v2 018	
REG08096-00699	0.2000	0.1600	0.1599	79.93	2009FEB25_REG08096_A1472JEF_pfS8_v2 020	
REG08096-00732	0.2000	0.1590	0.1590	79.50	2009JAN29_REG08096_A1472JEF_pfS3 005	
REG08096-00732	0.4000	0.3520	0.3520	88.00	2009FEB10_REG08096_A1472JEF_pfS4 027	
REG08096-00732	0.4000	0.3740	0.3740	93.50	2009FEB10_REG08096_A1472JEF_pfS4 026	
REG08096-00732	2.0000	1.9900	1.9900	99.50	2009FEB10_REG08096_A1472JEF_pfS4 028	
REG08096-00732	2.0000	2.0500	2.0500	102.50	2009FEB10_REG08096_A1472JEF_pfS4 029	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED DEFATTED FLOUR

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr. Percent Recovered	Data Source Information
REG08096-00696	0.0100	0.0100	0.0086	85.70	2009MAR05_REG08096_A1472JEF_pIS9 003
REG08096-00696	0.0200	0.0225	0.0211	105.35	2009MAR05_REG08096_A1472JEF_pIS9 004
REG08096-00729	0.0200	0.0190	0.0169	84.73	2009JAN26_REG08096_A1472JEF_pIS1 033
REG08096-00696	0.0500	0.0519	0.0505	100.94	2009MAR05_REG08096_A1472JEF_pIS9 005
REG08096-00729	0.0500	0.0396	0.0375	75.09	2009JAN26_REG08096_A1472JEF_pIS1 034

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED DEGUMMED OIL

Sample ID	ppm Added	DCGA		DCGA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00700	0.0100	0.0071	0.0068	0.0071	0.0068	67.70	67.70	2009FEB16_REG08096_A1472JEF_pfS5 005
REG08096-00700	0.0100	0.0072	0.0069	0.0072	0.0069	69.10	69.10	2009FEB16_REG08096_A1472JEF_pfS5 004
REG08096-00733	0.0100	0.0073	0.0070	0.0073	0.0070	70.34	70.34	2009JAN26_REG08096_A1472JEF_pfS1 004
REG08096-00700	0.2000	0.1730	0.1727	0.1730	0.1727	86.35	86.35	2009FEB16_REG08096_A1472JEF_pfS5 006
REG08096-00733	0.2000	0.1610	0.1608	0.1610	0.1608	80.39	80.39	2009JAN26_REG08096_A1472JEF_pfS1 005

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED HULLS

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00694	0.0100	0.0073	0.0069	69.19	2009FEB19_REG08096_A1472JEF_pfS6 017	
REG08096-00694	0.0100	0.0079	0.0075	75.19	2009FEB19_REG08096_A1472JEF_pfS6 016	
REG08096-00727	0.0200	0.0194	0.0194	97.00	2009JAN29_REG08096_A1472JEF_pfS2 014	
REG08096-00727	0.0500	0.0447	0.0447	89.40	2009JAN29_REG08096_A1472JEF_pfS2 015	
REG08096-00694	0.4000	0.4230	0.4226	105.65	2009FEB19_REG08096_A1472JEF_pfS6 018	
REG08096-00694	2.0000	2.3300	2.3296	116.48	2009FEB19_REG08096_A1472JEF_pfS6 020	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED PROTEIN CONCENTRATES

Sample ID	ppm Added	DCGA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Percent Recovered		
REG08096-00698	0.0100	0.0097	0.0093	92.88	2009MAR05_REG08096_A1472JEF_pIS9 022	
REG08096-00731	0.0100	0.0076	0.0076	76.40	2009JAN29_REG08096_A1472JEF_pIS2 030	
REG08096-00698	0.0200	0.0206	0.0202	101.04	2009MAR05_REG08096_A1472JEF_pIS9 023	
REG08096-00698	0.0500	0.0490	0.0486	97.22	2009MAR05_REG08096_A1472JEF_pIS9 024	
REG08096-00731	0.0500	0.0436	0.0436	87.20	2009JAN29_REG08096_A1472JEF_pIS2 032	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED PROTEIN ISOLATES

Sample ID	ppm Added	DCGA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00697	0.0100	0.0091	0.0089	89.25	2009MAR05_REG08096_A1472JEF_pIS9 012	
REG08096-00730	0.0100	0.0081	0.0081	80.60	2009JAN29_REG08096_A1472JEF_pIS2 023	
REG08096-00697	0.0200	0.0199	0.0197	98.68	2009MAR05_REG08096_A1472JEF_pIS9 014	
REG08096-00697	0.0500	0.0529	0.0527	105.47	2009MAR05_REG08096_A1472JEF_pIS9 015	
REG08096-00730	0.2000	0.1740	0.1740	87.00	2009JAN29_REG08096_A1472JEF_pIS2 024	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED RBD OIL

Sample ID	ppm Added	DCGA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Percent Recovered		
REG08096-00701	0.0100	0.0071	0.0067	67.36	2009FEB16_REG08096_A1472JEF_pfS5 015	
REG08096-00701	0.0100	0.0078	0.0075	74.56	2009FEB16_REG08096_A1472JEF_pfS5 016	
REG08096-00734	0.0100	0.0079	0.0079	79.00	2009JAN26_REG08096_A1472JEF_pfS1 014	
REG08096-00701	0.2000	0.1660	0.1656	82.82	2009FEB16_REG08096_A1472JEF_pfS5 017	
REG08096-00734	0.4000	0.4420	0.4420	110.50	2009JAN26_REG08096_A1472JEF_pfS1 015	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED SEED FROM PROCESSING

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00693	0.0100	0.0070	0.0070	69.75	2009FEB19_REG08096_A1472JEF_pfS6 005	
REG08096-00693	0.0100	0.0071	0.0070	70.45	2009FEB19_REG08096_A1472JEF_pfS6 004	
REG08096-00726	0.0100	0.0084	0.0084	83.60	2009JAN29_REG08096_A1472JEF_pfS2 004	
REG08096-00693	0.2000	0.1830	0.1829	91.47	2009FEB19_REG08096_A1472JEF_pfS6 006	
REG08096-00693	0.4000	0.4570	0.4569	114.24	2009FEB19_REG08096_A1472JEF_pfS6 008	
REG08096-00726	5.0000	5.4600	5.4600	109.20	2009JAN29_REG08096_A1472JEF_pfS2 005	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED SOYMILK

Sample ID	ppm Added	DCGA		DCGA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00702	0.0100	0.0097	0.0094	0.0097	0.0094	94.34	94.34	2009MAR05_REG08096_A1472JEF_pIS9 032
REG08096-00735	0.0100	0.0075	0.0075	0.0075	0.0075	75.20	75.20	2009FEB10_REG08096_A1472JEF_pIS4 014
REG08096-00702	0.0200	0.0205	0.0203	0.0205	0.0203	101.42	101.42	2009MAR05_REG08096_A1472JEF_pIS9 033
REG08096-00702	0.0500	0.0513	0.0511	0.0513	0.0511	102.17	102.17	2009MAR05_REG08096_A1472JEF_pIS9 034
REG08096-00735	0.2000	0.1850	0.1850	0.1850	0.1850	92.50	92.50	2009FEB10_REG08096_A1472JEF_pIS4 015

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED TOASTED DEFATTED MEAL

Sample ID	ppm Added	DCGA Uncorrected ppm	DCGA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00695	0.0100	0.0096	0.0072	71.75	2009FEB16_REG08096_A1472JEF_pfS5 027	
REG08096-00695	0.0100	0.0097	0.0073	72.85	2009FEB16_REG08096_A1472JEF_pfS5 026	
REG08096-00728	0.0100	0.0094	0.0071	71.05	2009JAN26_REG08096_A1472JEF_pfS1 023	
REG08096-00728	0.2000	0.1600	0.1577	78.83	2009JAN26_REG08096_A1472JEF_pfS1 024	
REG08096-00695	0.4000	0.3230	0.3206	80.14	2009FEB16_REG08096_A1472JEF_pfS5 028	
REG08096-00695	2.0000	2.1000	2.0976	104.88	2009FEB16_REG08096_A1472JEF_pfS5 029	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED TOFU

Sample ID	ppm Added	DCGA		DCGA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00703	0.0100	0.0065	0.0064	0.0065	0.0064	63.77	63.77	2009FEB25_REG08096_A1472JEF_pfS8_v2 005
REG08096-00703	0.0100	0.0071	0.0070	0.0071	0.0070	70.37	70.37	2009FEB25_REG08096_A1472JEF_pfS8_v2 004
REG08096-00736	0.0100	0.0069	0.0069	0.0069	0.0069	68.82	68.82	2009FEB10_REG08096_A1472JEF_pfS4 004
REG08096-00703	0.2000	0.1540	0.1539	0.1540	0.1539	76.96	76.96	2009FEB25_REG08096_A1472JEF_pfS8_v2 008
REG08096-00703	0.2000	0.1550	0.1549	0.1550	0.1549	77.46	77.46	2009FEB25_REG08096_A1472JEF_pfS8_v2 006
REG08096-00736	0.2000	0.1740	0.1740	0.1740	0.1740	86.99	86.99	2009FEB10_REG08096_A1472JEF_pfS4 005

Recovery Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00255	0.0005	0.000	0.000	0.0000		2009MAR25_REG08096_A1472JEF_fs3_023
REG08096-00255	0.0005	0.0001	0.000	0.0000		2009MAR25_REG08096_A1472JEF_fs3_027
REG08096-00282	0.0005	0.0001	0.0001	29.20		2009MAR25_REG08096_A1472JEF_fs3_009
REG08096-00282	0.0005	0.0002	0.0002	39.80		2009MAR25_REG08096_A1472JEF_fs3_005
REG08096-00318	0.0005	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_009
REG08096-00318	0.0005	0.0004	0.0004	78.60		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_008
REG08096-00327	0.0005	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_029
REG08096-00327	0.0005	0.0012	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_028
REG08096-00255	0.0010	0.0007	0.0002	17.30		2009MAR25_REG08096_A1472JEF_fs3_026
REG08096-00255	0.0010	0.0007	0.0002	18.70		2009MAR25_REG08096_A1472JEF_fs3_022
REG08096-00282	0.0010	0.0006	0.0006	56.80		2009MAR25_REG08096_A1472JEF_fs3_008
REG08096-00282	0.0010	0.0012	0.0012	118.00		2009MAR25_REG08096_A1472JEF_fs3_004
REG08096-00318	0.0010	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_004
REG08096-00318	0.0010	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_005
REG08096-00327	0.0010	0.0008	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_026
REG08096-00327	0.0010	0.0025	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_024
REG08096-00264	0.0100	0.0107	0.0074	73.80		2009MAR13_REG08096_A1472JEF_fs1_003
REG08096-00273	0.0100	0.0085	0.0085	84.50		2009JAN08_REG08096_A1472JEF_fs5_v2_003
REG08096-00282	0.0100	0.0092	0.0092	91.60		2009MAR25_REG08096_A1472JEF_fs3_003
REG08096-00291	0.0100	0.0110	0.0110	110.00		2008DEC03_REG08096_A1472JEF_fs2_v2ppm_003
REG08096-00300	0.0100	0.0113	0.0089	89.40		2009MAR16_REG08096_A1472JEF_fs2_027
REG08096-00318	0.0100	0.0085	0.0085	85.30		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_003
REG08096-00345	0.0100	0.0111	0.0087	86.70		2009MAR13_REG08096_A1472JEF_fs5_015
REG08096-00354	0.0100	0.0083	0.0083	82.50		2009JAN22_REG08096_A1472JEF_fs8_003
REG08096-00372	0.0100	0.0109	0.0090	89.90		2009MAR16_REG08096_A1472JEF_fs2_003
REG08096-00399	0.0100	0.0100	0.0089	88.60		2008DEC18_REG08096_A1472JEF_fs7_v2_003
REG08096-00426	0.0100	0.0109	0.0097	96.70		2009APR27_REG08096_A1472JEF_sfhS1_017
REG08096-00426	0.0100	0.0111	0.0099	98.70		2009APR27_REG08096_A1472JEF_sfhS1_015
REG08096-00426	0.0100	0.0116	0.0104	103.70		2009APR27_REG08096_A1472JEF_sfhS1_016

Recovery Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00282	0.0200	0.0198	0.0198	99.00		2009MAR25_REG08096_A1472JEF_fs3 006
REG08096-00300	0.0200	0.0218	0.0194	97.20		2009MAR16_REG08096_A1472JEF_fs2 028
REG08096-00300	0.0200	0.0224	0.0193	96.50		2008DEC03_REG08096_A1472JEF_fs2_v2ppm 015
REG08096-00309	0.0200	0.0198	0.0169	84.40		2009JAN08_REG08096_A1472JEF_fs5_v2 015
REG08096-00309	0.0200	0.0226	0.0202	100.80		2009MAR13_REG08096_A1472JEF_fs5 003
REG08096-00318	0.0200	0.0194	0.0194	97.00		2008DEC13_REG08096_A1472JEF_fs4_v2ppm 006
REG08096-00336	0.0200	0.0216	0.0190	95.00		2009MAR13_REG08096_A1472JEF_fs1 028
REG08096-00363	0.0200	0.0207	0.0207	103.50		2009MAR19_REG08096_A1472JEF_fs6 003
REG08096-00381	0.0200	0.0212	0.0168	83.90		2008DEC17_REG08096_A1472JEF_fs6reinj_v2 015
REG08096-00381	0.0200	0.0230	0.0164	81.95		2009MAR19_REG08096_A1472JEF_fs6 017
REG08096-00390	0.0200	0.0208	0.0190	94.80		2009JAN22_REG08096_A1472JEF_fs8 015
REG08096-00417	0.0200	0.0206	0.0169	84.25		2008DEC18_REG08096_A1472JEF_fs7_v2 015
REG08096-00426	0.0200	0.0222	0.0210	104.85		2009APR27_REG08096_A1472JEF_sfhS1 020
REG08096-00426	0.0200	0.0226	0.0214	106.85		2009APR27_REG08096_A1472JEF_sfhS1 018
REG08096-00426	0.0200	0.0228	0.0216	107.85		2009APR27_REG08096_A1472JEF_sfhS1 021
REG08096-00435	0.0200	0.0221	0.0187	93.65		2009MAR19_REG08096_A1472JEF_fs6 030
REG08096-00255	0.0500	0.0502	0.0496	99.28		2009MAR25_REG08096_A1472JEF_fs3 021
REG08096-00273	0.0500	0.0517	0.0506	101.16		2009MAR13_REG08096_A1472JEF_fs5 027
REG08096-00291	0.0500	0.0522	0.0497	99.38		2009MAR16_REG08096_A1472JEF_fs2 015
REG08096-00327	0.0500	0.0567	0.0402	80.40		2008DEC13_REG08096_A1472JEF_fs4_v2ppm 023
REG08096-00345	0.0500	0.0504	0.0487	97.48		2009JAN08_REG08096_A1472JEF_fs5_v2 027
REG08096-00372	0.0500	0.0583	0.0502	100.32		2008DEC03_REG08096_A1472JEF_fs2_v2ppm 029
REG08096-00381	0.0500	0.0498	0.0454	90.76		2008DEC17_REG08096_A1472JEF_fs6reinj_v2 016
REG08096-00381	0.0500	0.0593	0.0527	105.38		2009MAR19_REG08096_A1472JEF_fs6 018
REG08096-00408	0.0500	0.0564	0.0515	102.96		2009MAR13_REG08096_A1472JEF_fs1 015
REG08096-00417	0.0500	0.0527	0.0490	97.90		2008DEC18_REG08096_A1472JEF_fs7_v2 016
REG08096-00444	0.0500	0.0516	0.0510	101.93		2009JAN22_REG08096_A1472JEF_fs8 027
REG08096-00255	0.1000	0.1000	0.0994	99.44		2009MAR25_REG08096_A1472JEF_fs3 024
REG08096-00300	0.1000	0.1150	0.1139	113.93		2009APR07_REG08096_A1472JEF_fs2D 003

Recovery Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE

Sample ID	ppm Added	DCSA		Bkg Corr. Percent Recovered	Data Source Information
		Uncorrected ppm	Bkg corr ppm		
REG08096-00327	0.1000	0.1010	0.0845	84.50	2008DEC13_REG08096_A1472JEF_fs4_v2ppm 027
REG08096-00354	0.1000	0.1070	0.1070	107.00	2009MAR26_REG08096_A1472JEF_sfrtsS1_v2 020
REG08096-00426	0.1000	0.1120	0.1108	110.77	2009APR27_REG08096_A1472JEF_sfhS1 022
REG08096-00426	0.1000	0.1140	0.1128	112.77	2009APR27_REG08096_A1472JEF_sfhS1 023
REG08096-00426	0.1000	0.1150	0.1138	113.77	2009APR27_REG08096_A1472JEF_sfhS1 024
REG08096-00255	0.2000	0.2230	0.2166	108.31	2009AUG14_REG08096_A1472JEF_f 003
REG08096-00264	0.2000	0.2090	0.2090	104.50	2009APR03_REG08096_A1472JEF_fs1D 003
REG08096-00273	0.2000	0.2060	0.2049	102.44	2009MAR13_REG08096_A1472JEF_fs5 028
REG08096-00273	0.2000	0.2080	0.2076	103.80	2009MAY06_REG08096_A1472JEF_hfSall 024
REG08096-00318	0.2000	0.2000	0.1994	99.72	2009APR07_REG08096_A1472JEF_fs2D 023
REG08096-00318	0.2000	0.2070	0.2070	103.50	2009APR25_REG08096_A1472JEF_fsAlID 003
REG08096-00327	0.2000	0.2090	0.2090	104.50	2009APR02_REG08096_A1472JEF_fs7D 003
REG08096-00345	0.2000	0.2050	0.2033	101.67	2009JAN08_REG08096_A1472JEF_fs5_v2 028
REG08096-00372	0.2000	0.2100	0.2087	104.35	2009APR23_REG08096_A1472JEF_fs4D 003
REG08096-00426	0.2000	0.1970	0.1970	98.50	2009APR06_REG08096_A1472JEF_fs6D 003
REG08096-00444	0.2000	0.2130	0.2124	106.18	2009JAN22_REG08096_A1472JEF_fs8 028
REG08096-00255	0.4000	0.4310	0.4303	107.59	2009APR02_REG08096_A1472JEF_fs7D 024
REG08096-00336	0.4000	0.3930	0.3904	97.60	2009MAR13_REG08096_A1472JEF_fs1 027
REG08096-00417	0.4000	0.4190	0.4184	104.60	2009APR09_REG08096_A1472JEF_fs5D 034
REG08096-00426	0.4000	0.4310	0.4298	107.44	2009APR27_REG08096_A1472JEF_sfhS1 041
REG08096-00399	5.0000	4.2900	4.2900	85.80	2009APR09_REG08096_A1472JEF_fs5D 003
REG08096-00408	10.0000	8.9200	8.9184	89.18	2009APR09_REG08096_A1472JEF_fs5D 020
REG08096-00336	25.0000	22.0000	22.0000	88.00	2009MAR31_REG08096_A1472JEF_fs3D 003
REG08096-00336	25.0000	22.4000	22.4000	89.60	2009MAR31_REG08096_A1472JEF_fs3D 004
REG08096-00345	50.0000	45.9000	45.8991	91.80	2009MAR31_REG08096_A1472JEF_fs3D 018
REG08096-00345	50.0000	45.9000	45.8991	91.80	2009MAR31_REG08096_A1472JEF_fs3D 020
REG08096-00426	50.0000	46.1000	46.0988	92.20	2009APR27_REG08096_A1472JEF_sfhS1 042
REG08096-00426	50.0000	49.8000	49.7988	99.60	2009APR27_REG08096_A1472JEF_sfhS1 043
REG08096-00426	150.0000	152.0000	151.9988	101.33	2009APR27_REG08096_A1472JEF_sfhS1 044

Recovery Table
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RESIDUES OF DCSA IN SOYBEAN FORAGE

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr. Percent Recovered	Data Source Information
REG08096-00426	150.0000	158.0000	157.9988	105.33	2009APR27_REG08096_A1472JEF_sfhS1 045

Recovery Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00584		0.000	0.000			2009MAR10_REG08096_A1472JEF_hS6 003
REG08096-00530	0.0005	0.0001	0.000	0.0000		2009FEB26_REG08096_A1472JEF_hS4 024
REG08096-00530	0.0005	0.0007	0.000	0.0000		2009FEB26_REG08096_A1472JEF_hS4 023
REG08096-00530	0.0005	0.0011	0.000	0.0000		2009FEB26_REG08096_A1472JEF_hS4 021
REG08096-00530	0.0005	0.0015	0.000	0.0000		2009FEB26_REG08096_A1472JEF_hS4 022
REG08096-00539	0.0005	0.0018	0.0006	120.00		2009JAN16_REG08096_A1472JEF_hS3 027
REG08096-00539	0.0005	0.0021	0.0010	192.00		2009JAN16_REG08096_A1472JEF_hS3 005
REG08096-00539	0.0005	0.0023	0.0012	232.00		2009JAN16_REG08096_A1472JEF_hS3 009
REG08096-00539	0.0005	0.0049	0.0037	734.00		2009JAN16_REG08096_A1472JEF_hS3 023
REG08096-00503	0.0010	0.0008	0.0004	44.10		2009FEB26_REG08096_A1472JEF_hS4 008
REG08096-00503	0.0010	0.0010	0.0007	68.90		2009FEB26_REG08096_A1472JEF_hS4 009
REG08096-00530	0.0010	0.0020	0.000	0.0000		2009FEB26_REG08096_A1472JEF_hS4 020
REG08096-00539	0.0010	0.0026	0.000	0.0000		2009FEB26_REG08096_A1472JEF_hS4 018
REG08096-00539	0.0010	0.0020	0.0008	78.00		2009JAN16_REG08096_A1472JEF_hS3 004
REG08096-00539	0.0010	0.0024	0.0012	124.00		2009JAN16_REG08096_A1472JEF_hS3 008
REG08096-00539	0.0010	0.0026	0.0014	139.00		2009JAN16_REG08096_A1472JEF_hS3 026
REG08096-00548	0.0010	0.0033	0.000	0.0000		2009JAN16_REG08096_A1472JEF_hS3 022
REG08096-00485	0.0100	0.0106	0.0099	99.12		2009FEB04_REG08096_A1472JEF_hS2 003
REG08096-00485	0.0100	0.0117	0.0105	105.30		2009APR27_REG08096_A1472JEF_sfhS1 029
REG08096-00485	0.0100	0.0120	0.0108	108.30		2009APR27_REG08096_A1472JEF_sfhS1 027
REG08096-00485	0.0100	0.0136	0.0124	124.30		2009APR27_REG08096_A1472JEF_sfhS1 028
REG08096-00503	0.0100	0.0104	0.0100	100.49		2009FEB26_REG08096_A1472JEF_hS4 003
REG08096-00512	0.0100	0.0072	0.0072	72.30		2009JAN07_REG08096_A1472JEF_hS5 003
REG08096-00521	0.0100	0.0102	0.0076	76.40		2009FEB04_REG08096_A1472JEF_hS2 030
REG08096-00539	0.0100	0.0105	0.0093	93.20		2009JAN16_REG08096_A1472JEF_hS3 003
REG08096-00611	0.0100	0.0092	0.0081	81.30		2009JAN23_REG08096_A1472JEF_hS7 003
REG08096-00638	0.0100	0.0080	0.0080	80.30		2009JAN27_REG08096_A1472JEF_hS1 003
REG08096-00656	0.0100	0.0102	0.0099	99.22		2009JAN31_REG08096_A1472JEF_hS8 003
REG08096-00485	0.0200	0.0228	0.0216	108.15		2009APR27_REG08096_A1472JEF_sfhS1 030

Recovery Table
RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00485	0.0200	0.0233	0.0221	110.65	2009APR27_REG08096_A1472JEF_sfhS1 031	
REG08096-00485	0.0200	0.0236	0.0224	112.15	2009APR27_REG08096_A1472JEF_sfhS1 033	
REG08096-00494	0.0200	0.0255	0.0182	91.00	2009FEB04_REG08096_A1472JEF_hs2 017	
REG08096-00503	0.0200	0.0207	0.0203	101.75	2009FEB26_REG08096_A1472JEF_hs4 004	
REG08096-00539	0.0200	0.0193	0.0181	90.60	2009JAN16_REG08096_A1472JEF_hs3 006	
REG08096-00557	0.0200	0.0201	0.0170	85.20	2009JAN07_REG08096_A1472JEF_hs5 015	
REG08096-00566	0.0200	0.0236	0.0165	82.30	2009JAN27_REG08096_A1472JEF_hs1 015	
REG08096-00575	0.0200	0.0191	0.0169	84.30	2009JAN07_REG08096_A1472JEF_hs5 028	
REG08096-00593	0.0200	0.0231	0.0203	101.55	2009MAR10_REG08096_A1472JEF_hs6 015	
REG08096-00620	0.0200	0.0282	0.0196	98.10	2009MAR10_REG08096_A1472JEF_hs6 029	
REG08096-00647	0.0200	0.0236	0.0181	90.70	2009JAN23_REG08096_A1472JEF_hs7 015	
REG08096-00665	0.0200	0.0231	0.0207	103.60	2009JAN31_REG08096_A1472JEF_hs8 015	
REG08096-00503	0.0500	0.0541	0.0537	107.50	2009FEB26_REG08096_A1472JEF_hs4 005	
REG08096-00503	0.0500	0.0554	0.0544	108.80	2009MAR17_REG08096_A1472JEF_shtr3 027	
REG08096-00521	0.0500	0.0550	0.0524	104.88	2009FEB04_REG08096_A1472JEF_hs2 029	
REG08096-00548	0.0500	0.0562	0.0513	102.68	2009JAN16_REG08096_A1472JEF_hs3 021	
REG08096-00557	0.0500	0.0504	0.0473	94.68	2009JAN07_REG08096_A1472JEF_hs5 016	
REG08096-00566	0.0500	0.0560	0.0489	97.72	2009JAN27_REG08096_A1472JEF_hs1 016	
REG08096-00611	0.0500	0.0506	0.0496	99.12	2009JAN23_REG08096_A1472JEF_hs7 016	
REG08096-00620	0.0500	0.0565	0.0479	95.84	2009MAR10_REG08096_A1472JEF_hs6 030	
REG08096-00629	0.0500	0.0552	0.0473	94.68	2009JAN23_REG08096_A1472JEF_hs7 028	
REG08096-00665	0.0500	0.0568	0.0544	108.84	2009JAN31_REG08096_A1472JEF_hs8 016	
REG08096-00485	0.1000	0.1130	0.1118	111.83	2009APR27_REG08096_A1472JEF_sfhS1 034	
REG08096-00485	0.1000	0.1150	0.1138	113.83	2009APR27_REG08096_A1472JEF_sfhS1 035	
REG08096-00485	0.1000	0.1160	0.1148	114.83	2009APR27_REG08096_A1472JEF_sfhS1 036	
REG08096-00503	0.1000	0.1140	0.1136	113.65	2009FEB26_REG08096_A1472JEF_hs4 006	
REG08096-00539	0.1000	0.1040	0.1028	102.82	2009JAN16_REG08096_A1472JEF_hs3 024	
REG08096-00494	0.2000	0.2170	0.2170	108.50	2009APR10_REG08096_A1472JEF_hs1D 003	
REG08096-00539	0.2000	0.2050	0.2045	102.27	2009MAY06_REG08096_A1472JEF_hfSall 003	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN HAY

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00548	0.2000	0.2150	0.2139	106.95		2009APR21_REG08096_A1472JEF_hS3D 003
REG08096-00602	0.2000	0.2250	0.2234	111.70		2009APR24_REG08096_A1472JEF_hS7DR 037
REG08096-00611	0.2000	0.2210	0.2190	109.51		2009APR18_REG08096_A1472JEF_hS5D 015
REG08096-00620	0.2000	0.1980	0.1943	97.17		2009APR20_REG08096_A1472JEF_hS6D 003
REG08096-00674	0.2000	0.2020	0.1968	98.41		2009APR17_REG08096_A1472JEF_hS7D 020
REG08096-00674	0.2000	0.2120	0.1992	99.60		2009JAN31_REG08096_A1472JEF_hS8 028
REG08096-00512	0.4000	0.4050	0.4050	101.25		2009APR15_REG08096_A1472JEF_hS2D 003
REG08096-00548	0.4000	0.4310	0.4299	107.47		2009APR21_REG08096_A1472JEF_hS3D 004
REG08096-00584	0.4000	0.4420	0.4398	109.96		2009APR14_REG08096_A1472JEF_hS4D 015
REG08096-00602	0.4000	0.4180	0.4039	100.98		2009JAN27_REG08096_A1472JEF_hS1 028
REG08096-00602	0.4000	0.4340	0.4324	108.10		2009APR24_REG08096_A1472JEF_hS7DR 038
REG08096-00629	0.4000	0.4490	0.4470	111.75		2009APR18_REG08096_A1472JEF_hS5D 027
REG08096-00665	0.4000	0.4000	0.3977	99.43		2009APR17_REG08096_A1472JEF_hS7D 003
REG08096-00665	0.4000	0.4330	0.4311	107.77		2009APR24_REG08096_A1472JEF_hS7DR 003
REG08096-00593	5.0000	4.6000	4.5978	91.96		2009APR14_REG08096_A1472JEF_hS4D 027
REG08096-00557	10.0000	10.1000	10.0965	100.97		2009APR21_REG08096_A1472JEF_hS3D 023
REG08096-00602	10.0000	9.6500	9.6466	96.47		2009APR18_REG08096_A1472JEF_hS5D 003
REG08096-00674	50.0000	52.7000	52.6947	105.39		2009APR24_REG08096_A1472JEF_hS7DR 012
REG08096-00674	50.0000	53.9000	53.8947	107.79		2009APR24_REG08096_A1472JEF_hS7DR 014
REG08096-00602	100.0000	106.0000	105.9966	106.00		2009APR18_REG08096_A1472JEF_hS5D 046
REG08096-00602	100.0000	108.0000	107.9966	108.00		2009APR18_REG08096_A1472JEF_hS5D 047
REG08096-00575	150.0000	135.0000	134.9995	90.00		2009APR21_REG08096_A1472JEF_hS3D 035
REG08096-00575	150.0000	138.0000	137.9995	92.00		2009APR21_REG08096_A1472JEF_hS3D 036

Recovery Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00100	0.0005	0.000	0.000	0.0000		2009JAN16_REG08096_A1472JEF_gS10 016
REG08096-00100	0.0005	0.0003	0.0003	61.60		2009JAN16_REG08096_A1472JEF_gS10 014
REG08096-00100	0.0005	0.0008	0.0008	164.60		2009JAN16_REG08096_A1472JEF_gS10 012
REG08096-00100	0.0005	0.0009	0.0009	187.60		2009JAN16_REG08096_A1472JEF_gS10 015
REG08096-00028	0.0010	0.000	0.000	0.0000		2009JAN12_REG08096_A1472JEF_gS7_v2 005
REG08096-00100	0.0010	0.0002	0.0002	18.00		2009JAN16_REG08096_A1472JEF_gS10 009
REG08096-00100	0.0010	0.0002	0.0002	18.30		2009JAN16_REG08096_A1472JEF_gS10 010
REG08096-00100	0.0010	0.0003	0.0003	29.10		2009JAN16_REG08096_A1472JEF_gS10 011
REG08096-00145	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00145	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00145	0.0010	0.0005	0.0005	45.20		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00145	0.0010	0.0031	0.0031	305.00		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00163	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00163	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00163	0.0010	0.0006	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00163	0.0010	0.0006	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00001	0.0100	0.0094	0.0094	93.90		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 003
REG08096-00010	0.0100	0.0131	0.0102	101.80		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 003
REG08096-00019	0.0100	0.0082	0.0081	81.23		2008DEC10_REG08096_A1472JEF_gS4reini_v2p
REG08096-00028	0.0100	0.0096	0.0096	95.70		2009JAN12_REG08096_A1472JEF_gS7_v2 003
REG08096-00028	0.0100	0.0114	0.0110	110.34		2009APR27_REG08096_A1472JEF_sfhS1 004
REG08096-00028	0.0100	0.0118	0.0114	114.34		2009APR27_REG08096_A1472JEF_sfhS1 005
REG08096-00028	0.0100	0.0120	0.0116	116.34		2009APR27_REG08096_A1472JEF_sfhS1 003
REG08096-00064	0.0100	0.0105	0.0105	105.00		2008DEC11_REG08096_A1472JEF_gS6_v2ppm 003
REG08096-00073	0.0100	0.0120	0.0120	120.00		2009MAR06_REG08096_A1472JEF_gS2 003
REG08096-00145	0.0100	0.0098	0.0098	98.40		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00154	0.0100	0.0094	0.0094	93.70		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 003
REG08096-00181	0.0100	0.0102	0.0102	102.00		2009MAR06_REG08096_A1472JEF_gS2 024
REG08096-00001	0.0200	0.0236	0.0225	112.55		2009JAN15_REG08096_A1472JEF_gS9 003

Recovery Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00028	0.0200	0.0189	0.0189	94.50		2009JAN12_REG08096_A1472JEF_gS7_v2 004
REG08096-00028	0.0200	0.0212	0.0208	104.17		2009APR27_REG08096_A1472JEF_sfhS1 009
REG08096-00028	0.0200	0.0231	0.0227	113.67		2009APR27_REG08096_A1472JEF_sfhS1 006
REG08096-00028	0.0200	0.0239	0.0235	117.67		2009APR27_REG08096_A1472JEF_sfhS1 008
REG08096-00037	0.0200	0.0189	0.0189	94.50		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 017
REG08096-00046	0.0200	0.0195	0.0192	95.78		2008DEC10_REG08096_A1472JEF_gS4reini_v2p
REG08096-00064	0.0200	0.0197	0.0197	98.50		2009JAN16_REG08096_A1472JEF_gS10 003
REG08096-00100	0.0200	0.0232	0.0220	109.75		2008DEC11_REG08096_A1472JEF_gS6_v2ppm 017
REG08096-00118	0.0200	0.0246	0.0224	112.10		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 015
REG08096-00136	0.0200	0.0237	0.0237	118.50		2009MAR06_REG08096_A1472JEF_gS2 012
REG08096-00145	0.0200	0.0195	0.0195	97.50		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00172	0.0200	0.0186	0.0186	93.00		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 015
REG08096-00190	0.0200	0.0191	0.0191	95.50		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 028
REG08096-00001	0.0500	0.0585	0.0574	114.82		2009JAN15_REG08096_A1472JEF_gS9 004
REG08096-00028	0.0500	0.0538	0.0538	107.60		2009MAR17_REG08096_A1472JEF_shtrf3 003
REG08096-00055	0.0500	0.0504	0.0504	100.80		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 030
REG08096-00064	0.0500	0.0506	0.0506	101.20		2009JAN16_REG08096_A1472JEF_gS10 004
REG08096-00082	0.0500	0.0482	0.0482	96.40		2008DEC10_REG08096_A1472JEF_gS4reini_v2p
REG08096-00091	0.0500	0.0557	0.0543	108.66		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 027
REG08096-00100	0.0500	0.0505	0.0505	101.00		2009MAR26_REG08096_A1472JEF_sfrf5S1_v2 003
REG08096-00100	0.0500	0.0507	0.0505	101.06		2009MAR20_REG08096_A1472JEF_gtrf5S1 003
REG08096-00109	0.0500	0.0535	0.0520	104.08		2008DEC11_REG08096_A1472JEF_gS6_v2ppm 030
REG08096-00109	0.0500	0.0555	0.0540	108.08		2008DEC11_REG08096_A1472JEF_gS6_v2ppm 029
REG08096-00127	0.0500	0.0495	0.0495	99.00		2009JAN12_REG08096_A1472JEF_gS7_v2 017
REG08096-00163	0.0500	0.0542	0.0532	106.32		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00172	0.0500	0.0521	0.0521	104.20		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 016
REG08096-00181	0.0500	0.0582	0.0582	116.40		2009MAR06_REG08096_A1472JEF_gS2 023
REG08096-00028	0.1000	0.1100	0.1096	109.63		2009APR27_REG08096_A1472JEF_sfhS1 012
REG08096-00028	0.1000	0.1130	0.1126	112.63		2009APR27_REG08096_A1472JEF_sfhS1 010

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00028	0.1000	0.1150	0.1146	114.63		2009APR27_REG08096_A1472JEF_sfhS1 011
REG08096-00118	0.1000	0.1140	0.1118	111.82		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 016
REG08096-00001	0.2000	0.2330	0.2319	115.96		2009JAN15_REG08096_A1472JEF_gS9 005
REG08096-00064	0.2000	0.2080	0.2080	104.00		2009JAN16_REG08096_A1472JEF_gS10 005
REG08096-00082	0.2000	0.1980	0.1980	99.00		2008DEC10_REG08096_A1472JEF_gS4reinj_v2p
REG08096-00127	0.2000	0.2030	0.2030	101.50		2009JAN12_REG08096_A1472JEF_gS7_v2 018
REG08096-00163	0.2000	0.2110	0.2100	104.98		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00001	0.4000	0.4730	0.4719	117.98		2009JAN15_REG08096_A1472JEF_gS9 006
REG08096-00028	0.4000	0.4290	0.4286	107.16		2009APR27_REG08096_A1472JEF_sfhS1 037
REG08096-00037	0.4000	0.3950	0.3950	98.75		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 018
REG08096-00064	0.4000	0.4110	0.4110	102.75		2009JAN16_REG08096_A1472JEF_gS10 006
REG08096-00127	1.0000	1.0000	0.9992	99.92		2009MAR17_REG08096_A1472JEF_shirt3 017
REG08096-00136	1.0000	1.1100	1.1100	111.00		2009MAR06_REG08096_A1472JEF_gS2 014
REG08096-00028	5.0000	4.8200	4.8196	96.39		2009APR27_REG08096_A1472JEF_sfhS1 038
REG08096-00028	5.0000	5.1300	5.1296	102.59		2009APR27_REG08096_A1472JEF_sfhS1 039

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED CRUDE LECITHIN

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00699	0.0100	0.0100	0.0094	93.90		2009FEB25_REG08096_A1472JEF_pfS8_v2 016
REG08096-00699	0.0100	0.0104	0.0098	98.00		2009FEB25_REG08096_A1472JEF_pfS8_v2 017
REG08096-00732	0.0100	0.0094	0.0089	88.85		2009JAN29_REG08096_A1472JEF_pfS3 004
REG08096-00699	0.2000	0.1830	0.1824	91.20		2009FEB25_REG08096_A1472JEF_pfS8_v2 018
REG08096-00699	0.2000	0.1870	0.1864	93.20		2009FEB25_REG08096_A1472JEF_pfS8_v2 020
REG08096-00732	0.2000	0.2120	0.2115	105.75		2009JAN29_REG08096_A1472JEF_pfS3 005
REG08096-00732	0.4000	0.4260	0.4260	106.50		2009FEB10_REG08096_A1472JEF_pfS4 026
REG08096-00732	0.4000	0.4320	0.4320	108.00		2009FEB10_REG08096_A1472JEF_pfS4 027
REG08096-00732	2.0000	2.1300	2.1300	106.50		2009FEB10_REG08096_A1472JEF_pfS4 029
REG08096-00732	2.0000	2.1800	2.1800	109.00		2009FEB10_REG08096_A1472JEF_pfS4 028

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED DEFATTED FLOUR

Sample ID	ppm Added	DCSA		Bkg Corr. Percent Recovered	Data Source Information
		Uncorrected ppm	Bkg corr ppm		
REG08096-00696	0.0100	0.0090	0.0090	89.90	2009FEB19_REG08096_A1472JEF_pfS6 028
REG08096-00696	0.0100	0.0110	0.0110	110.00	2009MAR05_REG08096_A1472JEF_pfS9 003
REG08096-00696	0.0100	0.0119	0.0119	119.00	2009FEB19_REG08096_A1472JEF_pfS6 029
REG08096-00696	0.0200	0.0211	0.0211	105.50	2009MAR05_REG08096_A1472JEF_pfS9 004
REG08096-00729	0.0200	0.0204	0.0186	93.10	2009JAN26_REG08096_A1472JEF_pfS1 033
REG08096-00696	0.0500	0.0512	0.0512	102.40	2009MAR05_REG08096_A1472JEF_pfS9 005
REG08096-00729	0.0500	0.0506	0.0488	97.64	2009JAN26_REG08096_A1472JEF_pfS1 034
REG08096-00696	0.4000	0.3690	0.3690	92.25	2009FEB19_REG08096_A1472JEF_pfS6 030
REG08096-00696	2.0000	1.7900	1.7900	89.50	2009FEB19_REG08096_A1472JEF_pfS6 032

Recovery Table
RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED DEGUMMED OIL

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00700	0.0100	0.0088	0.0082	81.82	2009FEB16_REG08096_A1472JEF_pfS5 004	
REG08096-00700	0.0100	0.0093	0.0087	86.72	2009FEB16_REG08096_A1472JEF_pfS5 005	
REG08096-00733	0.0100	0.0100	0.0097	97.11	2009JAN26_REG08096_A1472JEF_pfS1 004	
REG08096-00700	0.2000	0.1860	0.1854	92.69	2009FEB16_REG08096_A1472JEF_pfS5 006	
REG08096-00733	0.2000	0.2060	0.2057	102.86	2009JAN26_REG08096_A1472JEF_pfS1 005	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED HULLS

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00694	0.0100	0.0074	0.0074	73.50	2009FEB19_REG08096_A1472JEF_pfS6 017	
REG08096-00694	0.0100	0.0085	0.0085	84.80	2009FEB19_REG08096_A1472JEF_pfS6 016	
REG08096-00727	0.0200	0.0217	0.0217	108.50	2009JAN29_REG08096_A1472JEF_pfS2 014	
REG08096-00727	0.0500	0.0505	0.0505	101.00	2009JAN29_REG08096_A1472JEF_pfS2 015	
REG08096-00694	0.4000	0.3950	0.3950	98.75	2009FEB19_REG08096_A1472JEF_pfS6 018	
REG08096-00694	2.0000	1.9600	1.9600	98.00	2009FEB19_REG08096_A1472JEF_pfS6 020	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED PROTEIN CONCENTRATES

Sample ID	ppm Added	DCSA		DCSA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00698	0.0100	0.0101	0.0095	0.0101	0.0095	95.20	95.20	2009FEB26_REG08096_A1472JEF_pfS7 017
REG08096-00698	0.0100	0.0105	0.0099	0.0105	0.0099	99.20	99.20	2009FEB26_REG08096_A1472JEF_pfS7 016
REG08096-00698	0.0100	0.0107	0.0107	0.0107	0.0107	107.00	107.00	2009MAR05_REG08096_A1472JEF_pfS9 022
REG08096-00731	0.0100	0.0101	0.0101	0.0101	0.0101	101.00	101.00	2009JAN29_REG08096_A1472JEF_pfS2 030
REG08096-00698	0.0200	0.0216	0.0216	0.0216	0.0216	108.00	108.00	2009MAR05_REG08096_A1472JEF_pfS9 023
REG08096-00698	0.0500	0.0504	0.0504	0.0504	0.0504	100.80	100.80	2009MAR05_REG08096_A1472JEF_pfS9 024
REG08096-00731	0.0500	0.0505	0.0505	0.0505	0.0505	101.00	101.00	2009JAN29_REG08096_A1472JEF_pfS2 032
REG08096-00698	0.2000	0.1870	0.1864	0.1870	0.1864	93.21	93.21	2009FEB26_REG08096_A1472JEF_pfS7 020
REG08096-00698	0.2000	0.1910	0.1904	0.1910	0.1904	95.21	95.21	2009FEB26_REG08096_A1472JEF_pfS7 018

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED PROTEIN ISOLATES

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00697	0.0100	0.0099	0.0093	93.20		2009FEB26_REG08096_A1472JEF_pfS7 005
REG08096-00697	0.0100	0.0099	0.0094	93.80		2009FEB26_REG08096_A1472JEF_pfS7 004
REG08096-00697	0.0100	0.0112	0.0112	112.00		2009MAR05_REG08096_A1472JEF_pfS9 012
REG08096-00730	0.0100	0.0093	0.0093	93.00		2009JAN29_REG08096_A1472JEF_pfS2 023
REG08096-00697	0.0200	0.0220	0.0220	110.00		2009MAR05_REG08096_A1472JEF_pfS9 014
REG08096-00697	0.0500	0.0535	0.0535	107.00		2009MAR05_REG08096_A1472JEF_pfS9 015
REG08096-00697	0.2000	0.1890	0.1884	94.22		2009FEB26_REG08096_A1472JEF_pfS7 006
REG08096-00697	0.2000	0.1950	0.1944	97.22		2009FEB26_REG08096_A1472JEF_pfS7 008
REG08096-00730	0.2000	0.2030	0.2030	101.50		2009JAN29_REG08096_A1472JEF_pfS2 024

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED RBD OIL

Sample ID	ppm Added	DCSA		DCSA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00701	0.0100	0.0099	0.0090	0.0099	0.0090	90.19	90.19	2009FEB16_REG08096_A1472JEF_pfS5 016
REG08096-00701	0.0100	0.0100	0.0092	0.0100	0.0092	91.69	91.69	2009FEB16_REG08096_A1472JEF_pfS5 015
REG08096-00734	0.0100	0.0107	0.0104	0.0107	0.0104	104.35	104.35	2009JAN26_REG08096_A1472JEF_pfS1 014
REG08096-00701	0.2000	0.2040	0.2032	0.2040	0.2032	101.58	101.58	2009FEB16_REG08096_A1472JEF_pfS5 017
REG08096-00734	0.4000	0.3900	0.3897	0.3900	0.3897	97.43	97.43	2009JAN26_REG08096_A1472JEF_pfS1 015

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED SEED FROM PROCESSING

Sample ID	ppm Added	DCSA		DCSA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00693	0.0100	0.0076	0.0076	0.0076	0.0076	76.00	76.00	2009FEB19_REG08096_A1472JEF_pfS6 005
REG08096-00693	0.0100	0.0082	0.0082	0.0082	0.0082	81.90	81.90	2009FEB19_REG08096_A1472JEF_pfS6 004
REG08096-00726	0.0100	0.0105	0.0105	0.0105	0.0099	99.00	99.00	2009JAN29_REG08096_A1472JEF_pfS2 004
REG08096-00693	0.2000	0.1880	0.1880	0.1880	0.1880	94.00	94.00	2009FEB19_REG08096_A1472JEF_pfS6 006
REG08096-00693	0.4000	0.3980	0.3980	0.3980	0.3980	99.50	99.50	2009FEB19_REG08096_A1472JEF_pfS6 008
REG08096-00726	5.0000	4.5200	4.5200	4.5200	4.5194	90.39	90.39	2009JAN29_REG08096_A1472JEF_pfS2 005

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED SOYMILK

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00702	0.0100	0.0098	0.0098	98.20	2009FEB26_REG08096_A1472JEF_piS7 029	
REG08096-00702	0.0100	0.0099	0.0099	98.80	2009FEB26_REG08096_A1472JEF_piS7 028	
REG08096-00735	0.0100	0.0100	0.0100	100.00	2009FEB10_REG08096_A1472JEF_piS4 014	
REG08096-00702	0.0200	0.0209	0.0209	104.50	2009MAR05_REG08096_A1472JEF_piS9 033	
REG08096-00702	0.0500	0.0549	0.0549	109.80	2009MAR05_REG08096_A1472JEF_piS9 034	
REG08096-00702	0.2000	0.1780	0.1780	89.00	2009FEB26_REG08096_A1472JEF_piS7 032	
REG08096-00702	0.2000	0.1890	0.1890	94.50	2009FEB26_REG08096_A1472JEF_piS7 030	
REG08096-00735	0.2000	0.2030	0.2030	101.50	2009FEB10_REG08096_A1472JEF_piS4 015	

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED TOASTED DEFATTED MEAL

Sample ID	ppm Added	DCSA		DCSA		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00695	0.0100	0.0106	0.0106	0.0106	0.0106	106.00	106.00	2009FEB16_REG08096_A1472JEF_pfS5 027
REG08096-00695	0.0100	0.0107	0.0107	0.0107	0.0107	107.00	107.00	2009FEB16_REG08096_A1472JEF_pfS5 026
REG08096-00728	0.0100	0.0113	0.0113	0.0113	0.0100	99.99	99.99	2009JAN26_REG08096_A1472JEF_pfS1 023
REG08096-00728	0.2000	0.1980	0.1980	0.1980	0.1967	98.35	98.35	2009JAN26_REG08096_A1472JEF_pfS1 024
REG08096-00695	0.4000	0.3730	0.3730	0.3730	0.3730	93.25	93.25	2009FEB16_REG08096_A1472JEF_pfS5 028
REG08096-00695	2.0000	1.8400	1.8400	1.8400	1.8400	92.00	92.00	2009FEB16_REG08096_A1472JEF_pfS5 029

Recovery Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED TOFU

Sample ID	ppm Added	DCSA Uncorrected ppm	DCSA Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00703	0.0100	0.0092	0.0088	87.58	2009FEB25_REG08096_A1472JEF_pfS8_v2 005	
REG08096-00703	0.0100	0.0099	0.0095	94.88	2009FEB25_REG08096_A1472JEF_pfS8_v2 004	
REG08096-00736	0.0100	0.0107	0.0106	105.68	2009FEB10_REG08096_A1472JEF_pfS4 004	
REG08096-00703	0.2000	0.1800	0.1796	89.78	2009FEB25_REG08096_A1472JEF_pfS8_v2 008	
REG08096-00703	0.2000	0.1910	0.1906	95.28	2009FEB25_REG08096_A1472JEF_pfS8_v2 006	
REG08096-00736	0.2000	0.2130	0.2129	106.43	2009FEB10_REG08096_A1472JEF_pfS4 005	

Recovery Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00255	0.0005	0.000	0.000	0.0000		2009MAR25_REG08096_A1472JEF_fs3_023
REG08096-00255	0.0005	0.000	0.000	0.0000		2009MAR25_REG08096_A1472JEF_fs3_027
REG08096-00282	0.0005	0.000	0.000	0.0000		2009MAR25_REG08096_A1472JEF_fs3_005
REG08096-00282	0.0005	0.000	0.000	0.0000		2009MAR25_REG08096_A1472JEF_fs3_009
REG08096-00318	0.0005	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_008
REG08096-00318	0.0005	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_009
REG08096-00327	0.0005	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_028
REG08096-00327	0.0005	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_029
REG08096-00255	0.0010	0.0019	0.0019	188.00		2009MAR25_REG08096_A1472JEF_fs3_026
REG08096-00255	0.0010	0.0031	0.0031	313.00		2009MAR25_REG08096_A1472JEF_fs3_022
REG08096-00282	0.0010	0.000	0.000	0.0000		2009MAR25_REG08096_A1472JEF_fs3_004
REG08096-00282	0.0010	0.000	0.000	0.0000		2009MAR25_REG08096_A1472JEF_fs3_008
REG08096-00318	0.0010	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_004
REG08096-00318	0.0010	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_005
REG08096-00327	0.0010	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_026
REG08096-00327	0.0010	0.000	0.000	0.0000		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_024
REG08096-00327	0.0010	0.000	0.000	0.0000		2008MAR13_REG08096_A1472JEF_fs1_003
REG08096-00264	0.0100	0.0069	0.0036	35.70		2009JAN08_REG08096_A1472JEF_fs5_v2_003
REG08096-00273	0.0100	0.0063	0.0063	63.20		2009MAR25_REG08096_A1472JEF_fs3_003
REG08096-00282	0.0100	0.0137	0.0137	137.00		2008DEC03_REG08096_A1472JEF_fs2_v2ppm_003
REG08096-00291	0.0100	0.0107	0.0088	87.70		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_003
REG08096-00318	0.0100	0.0064	0.0064	63.90		2008DEC13_REG08096_A1472JEF_fs4_v2ppm_003
REG08096-00345	0.0100	0.0101	0.0081	80.80		2009MAR13_REG08096_A1472JEF_fs5_015
REG08096-00354	0.0100	0.0066	0.0066	65.70		2009JAN22_REG08096_A1472JEF_fs8_003
REG08096-00372	0.0100	0.0104	0.0093	92.70		2008DEC03_REG08096_A1472JEF_fs2_v2ppm_030
REG08096-00399	0.0100	0.0086	0.0086	85.90		2008DEC18_REG08096_A1472JEF_fs7_v2_003
REG08096-00426	0.0100	0.0095	0.0095	95.16		2009APR27_REG08096_A1472JEF_sfhS1_016
REG08096-00426	0.0100	0.0110	0.0110	109.76		2009APR27_REG08096_A1472JEF_sfhS1_017
REG08096-00426	0.0100	0.0121	0.0121	120.76		2009APR27_REG08096_A1472JEF_sfhS1_015
REG08096-00435	0.0100	0.0088	0.0057	57.40		2008DEC17_REG08096_A1472JEF_fs6reinj_v2_003

Recovery Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00282	0.0200	0.0211	0.0211	105.50		2009MAR25_REG08096_A1472JEF_fs3 006
REG08096-00300	0.0200	0.0186	0.0183	91.54		2008DEC03_REG08096_A1472JEF_fs2_v2ppm 015
REG08096-00309	0.0200	0.0163	0.0153	76.52		2009JAN08_REG08096_A1472JEF_fs5_v2 015
REG08096-00318	0.0200	0.0199	0.0199	99.50		2008DEC13_REG08096_A1472JEF_fs4_v2ppm 006
REG08096-00336	0.0200	0.0213	0.0213	106.50		2009MAR13_REG08096_A1472JEF_fs1 028
REG08096-00363	0.0200	0.0181	0.0162	81.15		2008DEC17_REG08096_A1472JEF_fs8reinj_v2 028
REG08096-00363	0.0200	0.0202	0.0202	101.00		2009MAR19_REG08096_A1472JEF_fs6 003
REG08096-00381	0.0200	0.0169	0.0143	71.60		2008DEC17_REG08096_A1472JEF_fs8reinj_v2 015
REG08096-00381	0.0200	0.0322	0.0154	77.00		2009MAR19_REG08096_A1472JEF_fs6 017
REG08096-00390	0.0200	0.0179	0.0172	85.98		2009JAN22_REG08096_A1472JEF_fs8 015
REG08096-00417	0.0200	0.0170	0.0150	75.00		2008DEC18_REG08096_A1472JEF_fs7_v2 015
REG08096-00426	0.0200	0.0159	0.0159	79.38		2009APR27_REG08096_A1472JEF_sfhS1 018
REG08096-00426	0.0200	0.0204	0.0204	101.88		2009APR27_REG08096_A1472JEF_sfhS1 020
REG08096-00426	0.0200	0.0253	0.0253	126.38		2009APR27_REG08096_A1472JEF_sfhS1 021
REG08096-00435	0.0200	0.0272	0.0237	118.40		2009MAR19_REG08096_A1472JEF_fs6 030
REG08096-00255	0.0500	0.0538	0.0538	107.60		2009MAR25_REG08096_A1472JEF_fs3 021
REG08096-00273	0.0500	0.0574	0.0564	112.70		2009MAR13_REG08096_A1472JEF_fs5 027
REG08096-00327	0.0500	0.0466	0.0466	93.20		2008DEC13_REG08096_A1472JEF_fs4_v2ppm 023
REG08096-00345	0.0500	0.0453	0.0447	89.42		2009JAN08_REG08096_A1472JEF_fs5_v2 027
REG08096-00372	0.0500	0.0435	0.0424	84.74		2008DEC03_REG08096_A1472JEF_fs2_v2ppm 029
REG08096-00381	0.0500	0.0552	0.0526	105.24		2008DEC17_REG08096_A1472JEF_fs8reinj_v2 016
REG08096-00381	0.0500	0.0654	0.0486	97.20		2009MAR19_REG08096_A1472JEF_fs6 018
REG08096-00408	0.0500	0.0501	0.0501	100.20		2009MAR13_REG08096_A1472JEF_fs1 015
REG08096-00417	0.0500	0.0426	0.0406	81.20		2008DEC18_REG08096_A1472JEF_fs7_v2 016
REG08096-00444	0.0500	0.0541	0.0540	108.09		2009JAN22_REG08096_A1472JEF_fs8 027
REG08096-00255	0.1000	0.1120	0.1120	112.00		2009MAR25_REG08096_A1472JEF_fs3 024
REG08096-00300	0.1000	0.1130	0.1130	113.00		2009APR07_REG08096_A1472JEF_fs2D 003
REG08096-00327	0.1000	0.0825	0.0825	82.50		2008DEC13_REG08096_A1472JEF_fs4_v2ppm 027
REG08096-00354	0.1000	0.1040	0.1029	102.87		2009MAR26_REG08096_A1472JEF_sfhS1_v2 020

Recovery Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00426	0.1000	0.1070	0.1070	106.98		2009APR27_REG08096_A1472JEF_sfhS1 024
REG08096-00426	0.1000	0.1120	0.1120	111.98		2009APR27_REG08096_A1472JEF_sfhS1 023
REG08096-00426	0.1000	0.1180	0.1180	117.98		2009APR27_REG08096_A1472JEF_sfhS1 022
REG08096-00255	0.2000	0.1830	0.1830	91.50		2009AUG14_REG08096_A1472JEF_f 003
REG08096-00264	0.2000	0.2120	0.2032	101.61		2009APR03_REG08096_A1472JEF_fS1D 003
REG08096-00273	0.2000	0.1770	0.1770	88.50		2009MAY06_REG08096_A1472JEF_hfSall 024
REG08096-00273	0.2000	0.2260	0.2250	112.48		2009MAR13_REG08096_A1472JEF_fS5 028
REG08096-00318	0.2000	0.1800	0.1800	90.00		2009APR07_REG08096_A1472JEF_fS2D 023
REG08096-00318	0.2000	0.1990	0.1990	99.50		2009APR25_REG08096_A1472JEF_fSAlID 003
REG08096-00327	0.2000	0.2130	0.2128	106.41		2009APR02_REG08096_A1472JEF_fS7D 003
REG08096-00345	0.2000	0.1860	0.1854	92.71		2009JAN08_REG08096_A1472JEF_fS5_v2 028
REG08096-00372	0.2000	0.2280	0.2229	111.45		2009APR23_REG08096_A1472JEF_fS4D 003
REG08096-00444	0.2000	0.2080	0.2079	103.97		2009JAN22_REG08096_A1472JEF_fS8 028
REG08096-00255	0.4000	0.3980	0.3974	99.35		2009APR02_REG08096_A1472JEF_fS7D 024
REG08096-00336	0.4000	0.3820	0.3820	95.50		2009MAR13_REG08096_A1472JEF_fS1 027
REG08096-00417	0.4000	0.4690	0.4659	116.48		2009APR09_REG08096_A1472JEF_fS5D 034
REG08096-00426	0.4000	0.5030	0.5030	125.74		2009APR27_REG08096_A1472JEF_sfhS1 041
REG08096-00399	5.0000	4.4600	4.4593	89.19		2009APR09_REG08096_A1472JEF_fS5D 003
REG08096-00408	10.0000	9.0300	9.0300	90.30		2009APR09_REG08096_A1472JEF_fS5D 020
REG08096-00336	25.0000	22.0000	22.0000	88.00		2009MAR31_REG08096_A1472JEF_fS3D 003
REG08096-00336	25.0000	22.7000	22.7000	90.80		2009MAR31_REG08096_A1472JEF_fS3D 004
REG08096-00345	50.0000	44.0000	44.0000	88.00		2009MAR31_REG08096_A1472JEF_fS3D 018
REG08096-00345	50.0000	46.3000	46.3000	92.60		2009MAR31_REG08096_A1472JEF_fS3D 020
REG08096-00426	50.0000	49.1000	49.1000	98.20		2009APR27_REG08096_A1472JEF_sfhS1 042
REG08096-00426	50.0000	59.5000	59.5000	119.00		2009APR27_REG08096_A1472JEF_sfhS1 043
REG08096-00426	150.0000	176.0000	176.0000	117.33		2009APR27_REG08096_A1472JEF_sfhS1 044
REG08096-00426	150.0000	183.0000	183.0000	122.00		2009APR27_REG08096_A1472JEF_sfhS1 045

Recovery Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00530	0.0005	0.0026	0.000	0.0000	2009FEB26_REG08096_A1472JEF_hS4 021	
REG08096-00530	0.0005	0.0040	0.000	0.0000	2009FEB26_REG08096_A1472JEF_hS4 024	
REG08096-00530	0.0005	0.0049	0.0008	152.00	2009FEB26_REG08096_A1472JEF_hS4 022	
REG08096-00530	0.0005	0.0054	0.0013	256.00	2009FEB26_REG08096_A1472JEF_hS4 023	
REG08096-00539	0.0005	0.0010	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 027	
REG08096-00539	0.0005	0.0013	0.0002	34.00	2009JAN16_REG08096_A1472JEF_hS3 009	
REG08096-00539	0.0005	0.0020	0.0009	180.00	2009JAN16_REG08096_A1472JEF_hS3 005	
REG08096-00539	0.0005	0.0023	0.0012	240.00	2009JAN16_REG08096_A1472JEF_hS3 023	
REG08096-00503	0.0010	0.000	0.000	0.0000	2009FEB26_REG08096_A1472JEF_hS4 008	
REG08096-00503	0.0010	0.0028	0.000	0.0000	2009FEB26_REG08096_A1472JEF_hS4 009	
REG08096-00530	0.0010	0.0037	0.000	0.0000	2009FEB26_REG08096_A1472JEF_hS4 018	
REG08096-00530	0.0010	0.0041	0.0000	4.00	2009FEB26_REG08096_A1472JEF_hS4 020	
REG08096-00539	0.0010	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 004	
REG08096-00539	0.0010	0.0019	0.0008	82.00	2009JAN16_REG08096_A1472JEF_hS3 008	
REG08096-00539	0.0010	0.0020	0.0010	95.00	2009JAN16_REG08096_A1472JEF_hS3 026	
REG08096-00548	0.0010	0.0016	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 022	
REG08096-00485	0.0100	0.0087	0.0076	76.10	2009FEB04_REG08096_A1472JEF_hS2 003	
REG08096-00485	0.0100	0.0091	0.0091	90.80	2009APR27_REG08096_A1472JEF_sfhS1 029	
REG08096-00485	0.0100	0.0115	0.0115	115.00	2009APR27_REG08096_A1472JEF_sfhS1 028	
REG08096-00485	0.0100	0.0131	0.0131	131.00	2009APR27_REG08096_A1472JEF_sfhS1 027	
REG08096-00503	0.0100	0.0138	0.0102	101.80	2009FEB26_REG08096_A1472JEF_hS4 003	
REG08096-00512	0.0100	0.0126	0.0106	105.90	2009JAN07_REG08096_A1472JEF_hS5 003	
REG08096-00521	0.0100	0.0127	0.0093	92.80	2009FEB04_REG08096_A1472JEF_hS2 030	
REG08096-00539	0.0100	0.0130	0.0119	119.20	2009JAN16_REG08096_A1472JEF_hS3 003	
REG08096-00584	0.0100	0.0102	0.0071	70.50	2009MAR12_REG08096_A1472JEF_hS6reinj 002	
REG08096-00611	0.0100	0.0036	0.0036	35.90	2009JAN23_REG08096_A1472JEF_hS7 003	
REG08096-00638	0.0100	0.0094	0.0075	75.30	2009JAN27_REG08096_A1472JEF_hS1 003	
REG08096-00656	0.0100	0.0127	0.0123	122.84	2009JAN31_REG08096_A1472JEF_hS8 003	
REG08096-00485	0.0200	0.0192	0.0192	96.00	2009APR27_REG08096_A1472JEF_sfhS1 031	

Recovery Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00485	0.0200	0.0203	0.0203	101.50		2009APR27_REG08096_A1472JEF_sfhS1 033
REG08096-00485	0.0200	0.0245	0.0245	122.50		2009APR27_REG08096_A1472JEF_sfhS1 030
REG08096-00494	0.0200	0.0215	0.0201	100.45		2009FEB04_REG08096_A1472JEF_hs2 017
REG08096-00503	0.0200	0.0236	0.0200	99.90		2009FEB26_REG08096_A1472JEF_hs4 004
REG08096-00539	0.0200	0.0197	0.0186	93.10		2009JAN16_REG08096_A1472JEF_hs3 006
REG08096-00557	0.0200	0.0222	0.0202	101.20		2009JAN07_REG08096_A1472JEF_hs5 015
REG08096-00566	0.0200	0.0145	0.0145	72.50		2009JAN27_REG08096_A1472JEF_hs1 015
REG08096-00575	0.0200	0.0196	0.0170	85.05		2009JAN07_REG08096_A1472JEF_hs5 028
REG08096-00593	0.0200	0.0203	0.0203	101.50		2009MAR12_REG08096_A1472JEF_hS6reinj 015
REG08096-00620	0.0200	0.0154	0.0154	77.00		2009MAR12_REG08096_A1472JEF_hS6reinj 029
REG08096-00647	0.0200	0.0167	0.0167	83.50		2009JAN23_REG08096_A1472JEF_hs7 015
REG08096-00665	0.0200	0.0245	0.0195	97.30		2009JAN31_REG08096_A1472JEF_hs8 015
REG08096-00503	0.0500	0.0610	0.0574	114.76		2009FEB26_REG08096_A1472JEF_hs4 005
REG08096-00503	0.0500	0.0636	0.0548	109.52		2009MAR17_REG08096_A1472JEF_shtr3 027
REG08096-00521	0.0500	0.0612	0.0578	115.56		2009FEB04_REG08096_A1472JEF_hs2 029
REG08096-00548	0.0500	0.0486	0.0463	92.54		2009JAN16_REG08096_A1472JEF_hs3 021
REG08096-00557	0.0500	0.0508	0.0488	97.68		2009JAN07_REG08096_A1472JEF_hs5 016
REG08096-00566	0.0500	0.0475	0.0475	95.00		2009JAN27_REG08096_A1472JEF_hs1 016
REG08096-00611	0.0500	0.0478	0.0478	95.60		2009JAN23_REG08096_A1472JEF_hs7 016
REG08096-00620	0.0500	0.0531	0.0531	106.20		2009MAR12_REG08096_A1472JEF_hS6reinj 030
REG08096-00629	0.0500	0.0457	0.0457	91.40		2009JAN23_REG08096_A1472JEF_hs7 028
REG08096-00665	0.0500	0.0646	0.0596	119.12		2009JAN31_REG08096_A1472JEF_hs8 016
REG08096-00485	0.1000	0.1040	0.1040	104.00		2009APR27_REG08096_A1472JEF_sfhS1 036
REG08096-00485	0.1000	0.1060	0.1060	106.00		2009APR27_REG08096_A1472JEF_sfhS1 035
REG08096-00485	0.1000	0.1090	0.1090	109.00		2009APR27_REG08096_A1472JEF_sfhS1 034
REG08096-00503	0.1000	0.1020	0.0984	98.38		2009FEB26_REG08096_A1472JEF_hs4 006
REG08096-00539	0.1000	0.0985	0.0974	97.42		2009JAN16_REG08096_A1472JEF_hs3 024
REG08096-00539	0.2000	0.2180	0.2180	109.00		2009MAY06_REG08096_A1472JEF_hfSall 003
REG08096-00602	0.2000	0.2490	0.2490	124.50		2009APR24_REG08096_A1472JEF_hs7DR 037

Recovery Table
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RESIDUES OF DICAMBA IN SOYBEAN HAY

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00674	0.2000	0.2030	0.1997	99.84	2009JAN31_REG08096_A1472JEF_hs8 028	
REG08096-00602	0.4000	0.4530	0.4530	113.25	2009JAN27_REG08096_A1472JEF_hs1 028	
REG08096-00602	0.4000	0.4660	0.4660	116.50	2009APR24_REG08096_A1472JEF_hs7DR 038	
REG08096-00665	0.4000	0.4710	0.4705	117.62	2009APR24_REG08096_A1472JEF_hs7DR 003	
REG08096-00674	50.0000	54.2000	54.2000	108.40	2009APR24_REG08096_A1472JEF_hs7DR 012	
REG08096-00674	50.0000	58.4000	58.4000	116.80	2009APR24_REG08096_A1472JEF_hs7DR 014	

Recovery Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00100	0.0005	0.000	0.000	0.0000		2009JAN16_REG08096_A1472JEF_gS10 014
REG08096-00100	0.0005	0.000	0.000	0.0000		2009JAN16_REG08096_A1472JEF_gS10 015
REG08096-00100	0.0005	0.0000	0.0000	6.18		2009JAN16_REG08096_A1472JEF_gS10 016
REG08096-00100	0.0005	0.0009	0.0009	176.20		2009JAN16_REG08096_A1472JEF_gS10 012
REG08096-00028	0.0010	0.000	0.000	0.0000		2009JAN12_REG08096_A1472JEF_gS7_v2 005
REG08096-00100	0.0010	0.000	0.000	0.0000		2009JAN16_REG08096_A1472JEF_gS10 011
REG08096-00100	0.0010	0.000	0.000	0.0000		2009JAN16_REG08096_A1472JEF_gS10 010
REG08096-00100	0.0010	0.0005	0.0005	47.60		2009JAN16_REG08096_A1472JEF_gS10 009
REG08096-00145	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00145	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00145	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00145	0.0010	0.0001	0.0001	7.22		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00163	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00163	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00163	0.0010	0.000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00163	0.0010	0.0000	0.000	0.0000		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00001	0.0100	0.0074	0.0074	73.80		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 003
REG08096-00010	0.0100	0.0095	0.0095	94.84		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 003
REG08096-00019	0.0100	0.0055	0.0053	53.32		2008DEC10_REG08096_A1472JEF_gS4reini_v2p
REG08096-00028	0.0100	0.0066	0.0066	66.20		2009JAN12_REG08096_A1472JEF_gS7_v2 003
REG08096-00028	0.0100	0.0068	0.0068	68.10		2009APR27_REG08096_A1472JEF_sfhS1 003
REG08096-00028	0.0100	0.0087	0.0087	86.90		2009APR27_REG08096_A1472JEF_sfhS1 004
REG08096-00028	0.0100	0.0104	0.0104	104.00		2009APR27_REG08096_A1472JEF_sfhS1 005
REG08096-00064	0.0100	0.0061	0.0061	60.80		2008DEC11_REG08096_A1472JEF_gS6_v2ppm 003
REG08096-00073	0.0100	0.0148	0.0090	90.20		2009MAR06_REG08096_A1472JEF_gS2 003
REG08096-00145	0.0100	0.0086	0.0086	85.50		2008DEC10_REG08096_A1472JEF_gS8reini_v2p
REG08096-00154	0.0100	0.0098	0.0095	94.54		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 003
REG08096-00181	0.0100	0.0126	0.0126	126.00		2009MAR06_REG08096_A1472JEF_gS2 024
REG08096-00001	0.0200	0.0164	0.0164	82.00		2009JAN15_REG08096_A1472JEF_gS9 003

Recovery Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00028	0.0200	0.0162	0.0162	81.00		2009JAN12_REG08096_A1472JEF_gS7_v2 004
REG08096-00028	0.0200	0.0186	0.0186	93.00		2009APR27_REG08096_A1472JEF_sfhS1 008
REG08096-00028	0.0200	0.0202	0.0202	101.00		2009APR27_REG08096_A1472JEF_sfhS1 009
REG08096-00028	0.0200	0.0203	0.0203	101.50		2009APR27_REG08096_A1472JEF_sfhS1 006
REG08096-00037	0.0200	0.0174	0.0168	83.95		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 017
REG08096-00046	0.0200	0.0159	0.0159	79.50		2008DEC10_REG08096_A1472JEF_gS4reinj_v2p
REG08096-00064	0.0200	0.0153	0.0153	76.50		2009JAN16_REG08096_A1472JEF_gS10 003
REG08096-00100	0.0200	0.0221	0.0221	110.50		2008DEC11_REG08096_A1472JEF_gS6_v2ppm 017
REG08096-00118	0.0200	0.0197	0.0190	94.94		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 015
REG08096-00136	0.0200	0.0230	0.0217	108.45		2009MAR06_REG08096_A1472JEF_gS2 012
REG08096-00145	0.0200	0.0200	0.0200	100.00		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00172	0.0200	0.0200	0.0200	100.00		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 015
REG08096-00190	0.0200	0.0210	0.0210	105.00		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 028
REG08096-00001	0.0500	0.0459	0.0459	91.80		2009JAN15_REG08096_A1472JEF_gS9 004
REG08096-00028	0.0500	0.0582	0.0523	104.58		2009MAR17_REG08096_A1472JEF_shtrf3 003
REG08096-00055	0.0500	0.0558	0.0558	111.60		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 030
REG08096-00064	0.0500	0.0471	0.0471	94.20		2009JAN16_REG08096_A1472JEF_gS10 004
REG08096-00082	0.0500	0.0539	0.0539	107.80		2008DEC10_REG08096_A1472JEF_gS4reinj_v2p
REG08096-00091	0.0500	0.0491	0.0486	97.12		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 027
REG08096-00100	0.0500	0.0524	0.0489	97.82		2009MAR20_REG08096_A1472JEF_gtrf5S1 003
REG08096-00100	0.0500	0.0552	0.0489	97.96		2009MAR26_REG08096_A1472JEF_sfrf5S1_v2 003
REG08096-00109	0.0500	0.0401	0.0401	80.20		2008DEC11_REG08096_A1472JEF_gS6_v2ppm 030
REG08096-00109	0.0500	0.0443	0.0443	88.60		2008DEC11_REG08096_A1472JEF_gS6_v2ppm 029
REG08096-00127	0.0500	0.0459	0.0459	91.80		2009JAN12_REG08096_A1472JEF_gS7_v2 017
REG08096-00163	0.0500	0.0496	0.0475	95.00		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00172	0.0500	0.0519	0.0519	103.80		2008DEC04_REG08096_A1472JEF_gS5_v2ppm 016
REG08096-00181	0.0500	0.0570	0.0570	114.00		2009MAR06_REG08096_A1472JEF_gS2 023
REG08096-00028	0.1000	0.1010	0.1010	101.00		2009APR27_REG08096_A1472JEF_sfhS1 010
REG08096-00028	0.1000	0.1030	0.1030	103.00		2009APR27_REG08096_A1472JEF_sfhS1 012

Recovery Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00028	0.1000	0.1090	0.1090	109.00		2009APR27_REG08096_A1472JEF_sfhS1 011
REG08096-00118	0.1000	0.0975	0.0968	96.79		2008DEC02_REG08096_A1472JEF_gS3_v2ppm 016
REG08096-00001	0.2000	0.1810	0.1810	90.50		2009JAN15_REG08096_A1472JEF_gS9 005
REG08096-00064	0.2000	0.2110	0.2110	105.50		2009JAN16_REG08096_A1472JEF_gS10 005
REG08096-00082	0.2000	0.2000	0.2000	100.00		2008DEC10_REG08096_A1472JEF_gS4reinj_v2p
REG08096-00127	0.2000	0.2010	0.2010	100.50		2009JAN12_REG08096_A1472JEF_gS7_v2 018
REG08096-00163	0.2000	0.2000	0.1979	98.95		2008DEC10_REG08096_A1472JEF_gS8reinj_v2p
REG08096-00001	0.4000	0.3640	0.3640	91.00		2009JAN15_REG08096_A1472JEF_gS9 006
REG08096-00028	0.4000	0.4110	0.4110	102.75		2009APR27_REG08096_A1472JEF_sfhS1 037
REG08096-00037	0.4000	0.4060	0.4054	101.35		2008NOV19_REG08096_A1472JEF_gS1_v2ppm 018
REG08096-00064	0.4000	0.3740	0.3740	93.50		2009JAN16_REG08096_A1472JEF_gS10 006
REG08096-00127	1.0000	1.0300	1.0249	102.49		2009MAR17_REG08096_A1472JEF_shirt3 017
REG08096-00136	1.0000	1.1200	1.1187	111.87		2009MAR06_REG08096_A1472JEF_gS2 014
REG08096-00028	5.0000	4.8300	4.8300	96.60		2009APR27_REG08096_A1472JEF_sfhS1 038
REG08096-00028	5.0000	5.0700	5.0700	101.40		2009APR27_REG08096_A1472JEF_sfhS1 039

Recovery Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED CRUDE LECITHIN

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00699	0.0100	0.0086	0.0077	77.35		2009FEB25_REG08096_A1472JEF_pfS8_v2 017
REG08096-00699	0.0100	0.0109	0.0101	100.65		2009FEB25_REG08096_A1472JEF_pfS8_v2 016
REG08096-00732	0.0100	0.0072	0.0072	72.30		2009JAN29_REG08096_A1472JEF_pfS3 004
REG08096-00699	0.2000	0.1540	0.1532	76.58		2009FEB25_REG08096_A1472JEF_pfS8_v2 018
REG08096-00699	0.2000	0.1740	0.1732	86.58		2009FEB25_REG08096_A1472JEF_pfS8_v2 020
REG08096-00732	0.2000	0.1900	0.1900	95.00		2009JAN29_REG08096_A1472JEF_pfS3 005
REG08096-00732	0.4000	0.4170	0.4168	104.19		2009FEB10_REG08096_A1472JEF_pfS4 027
REG08096-00732	0.4000	0.4370	0.4368	109.19		2009FEB10_REG08096_A1472JEF_pfS4 026
REG08096-00732	2.0000	2.1300	2.1298	106.49		2009FEB10_REG08096_A1472JEF_pfS4 028
REG08096-00732	2.0000	2.1500	2.1498	107.49		2009FEB10_REG08096_A1472JEF_pfS4 029

Recovery Table
RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED DEFATTED FLOUR

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00696	0.0100	0.0092	0.0092	91.80	2009FEB19_REG08096_A1472JEF_pfS6 028	
REG08096-00696	0.0100	0.0102	0.0102	102.00	2009FEB19_REG08096_A1472JEF_pfS6 029	
REG08096-00696	0.0100	0.0120	0.0120	120.00	2009MAR05_REG08096_A1472JEF_pfS9 003	
REG08096-00696	0.0200	0.0206	0.0206	103.00	2009MAR05_REG08096_A1472JEF_pfS9 004	
REG08096-00729	0.0200	0.0173	0.0173	86.50	2009JAN26_REG08096_A1472JEF_pfS1 033	
REG08096-00696	0.0500	0.0532	0.0532	106.40	2009MAR05_REG08096_A1472JEF_pfS9 005	
REG08096-00729	0.0500	0.0506	0.0506	101.20	2009JAN26_REG08096_A1472JEF_pfS1 034	
REG08096-00696	0.4000	0.3910	0.3910	97.75	2009FEB19_REG08096_A1472JEF_pfS6 030	
REG08096-00696	2.0000	1.7000	1.7000	85.00	2009FEB19_REG08096_A1472JEF_pfS6 032	

Recovery Table
RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED DEGUMMED OIL

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00700	0.0100	0.0077	0.0077	76.50		2009FEB25_REG08096_A1472JEF_pfS5R 004
REG08096-00700	0.0100	0.0079	0.0079	78.60		2009FEB25_REG08096_A1472JEF_pfS5R 005
REG08096-00733	0.0100	0.0094	0.0094	93.74		2009JAN26_REG08096_A1472JEF_pfS1 004
REG08096-00700	0.2000	0.2060	0.2060	103.00		2009FEB25_REG08096_A1472JEF_pfS5R 006
REG08096-00733	0.2000	0.1980	0.1980	98.99		2009JAN26_REG08096_A1472JEF_pfS1 005

Recovery Table
RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED HULLS

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00694	0.0100	0.0073	0.0073	73.00	2009FEB19_REG08096_A1472JEF_pfS6 016	
REG08096-00694	0.0100	0.0084	0.0084	83.60	2009FEB19_REG08096_A1472JEF_pfS6 017	
REG08096-00727	0.0200	0.0187	0.0175	87.65	2009JAN29_REG08096_A1472JEF_pfS2 014	
REG08096-00727	0.0500	0.0512	0.0500	100.06	2009JAN29_REG08096_A1472JEF_pfS2 015	
REG08096-00694	0.4000	0.3870	0.3870	96.75	2009FEB19_REG08096_A1472JEF_pfS6 018	
REG08096-00694	2.0000	1.9100	1.9100	95.50	2009FEB19_REG08096_A1472JEF_pfS6 020	

Recovery Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED PROTEIN CONCENTRATES

Sample ID	ppm Added	Dicamba		Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
		Uncorrected ppm			Percent Recovered		
REG08096-00698	0.0100	0.0083		0.0083	82.50		2009FEB26_REG08096_A1472JEF_pfS7 016
REG08096-00698	0.0100	0.0084		0.0084	84.20		2009FEB26_REG08096_A1472JEF_pfS7 017
REG08096-00698	0.0100	0.0102		0.0102	102.00		2009MAR05_REG08096_A1472JEF_pfS9 022
REG08096-00731	0.0100	0.0093		0.0066	66.20		2009JAN29_REG08096_A1472JEF_pfS2 030
REG08096-00698	0.0200	0.0214		0.0214	107.00		2009MAR05_REG08096_A1472JEF_pfS9 023
REG08096-00698	0.0500	0.0525		0.0525	105.00		2009MAR05_REG08096_A1472JEF_pfS9 024
REG08096-00731	0.0500	0.0447		0.0420	84.02		2009JAN29_REG08096_A1472JEF_pfS2 032
REG08096-00698	0.2000	0.1920		0.1920	96.00		2009FEB26_REG08096_A1472JEF_pfS7 018
REG08096-00698	0.2000	0.2010		0.2010	100.50		2009FEB26_REG08096_A1472JEF_pfS7 020

Recovery Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED PROTEIN ISOLATES

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00697	0.0100	0.0091	0.0091	91.30		2009MAR05_REG08096_A1472JEF_pIS9 012
REG08096-00697	0.0100	0.0095	0.0095	95.40		2009FEB26_REG08096_A1472JEF_pIS7 004
REG08096-00697	0.0100	0.0096	0.0096	96.10		2009FEB26_REG08096_A1472JEF_pIS7 005
REG08096-00730	0.0100	0.0110	0.0069	68.80		2009JAN29_REG08096_A1472JEF_pIS2 023
REG08096-00697	0.0200	0.0170	0.0170	85.00		2009MAR05_REG08096_A1472JEF_pIS9 014
REG08096-00697	0.0500	0.0514	0.0514	102.80		2009MAR05_REG08096_A1472JEF_pIS9 015
REG08096-00697	0.2000	0.1870	0.1870	93.50		2009FEB26_REG08096_A1472JEF_pIS7 008
REG08096-00697	0.2000	0.2060	0.2060	103.00		2009FEB26_REG08096_A1472JEF_pIS7 006
REG08096-00730	0.2000	0.1680	0.1639	81.94		2009JAN29_REG08096_A1472JEF_pIS2 024

Recovery Table
RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED RBD OIL

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00701	0.0100	0.0077	0.0077	77.30		2009FEB25_REG08096_A1472JEF_pfS5R 015
REG08096-00701	0.0100	0.0088	0.0088	88.30		2009FEB25_REG08096_A1472JEF_pfS5R 016
REG08096-00734	0.0100	0.0092	0.0092	91.50		2009JAN26_REG08096_A1472JEF_pfS1 014
REG08096-00701	0.2000	0.1900	0.1900	95.00		2009FEB25_REG08096_A1472JEF_pfS5R 017
REG08096-00734	0.4000	0.3770	0.3770	94.25		2009JAN26_REG08096_A1472JEF_pfS1 015

Recovery Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED SEED FROM PROCESSING

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent	Recovered	
REG08096-00693	0.0100	0.0065	0.0065	64.90	2009FEB19_REG08096_A1472JEF_ptS6 005	
REG08096-00693	0.0100	0.0085	0.0085	85.00	2009FEB19_REG08096_A1472JEF_ptS6 004	
REG08096-00726	0.0100	0.0079	0.0079	78.50	2009JAN29_REG08096_A1472JEF_ptS2 004	
REG08096-00693	0.2000	0.2050	0.2050	102.50	2009FEB19_REG08096_A1472JEF_ptS6 006	
REG08096-00693	0.4000	0.3720	0.3720	93.00	2009FEB19_REG08096_A1472JEF_ptS6 008	
REG08096-00726	5.0000	4.6000	4.6000	92.00	2009JAN29_REG08096_A1472JEF_ptS2 005	

Recovery Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED SOYMILK

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00702	0.0100	0.0082	0.0082	81.90	2009FEB26_REG08096_A1472JEF_piS7 028	
REG08096-00702	0.0100	0.0096	0.0096	96.30	2009FEB26_REG08096_A1472JEF_piS7 029	
REG08096-00735	0.0100	0.0093	0.0093	92.60	2009FEB10_REG08096_A1472JEF_piS4 014	
REG08096-00702	0.0200	0.0166	0.0166	83.00	2009MAR05_REG08096_A1472JEF_piS9 033	
REG08096-00702	0.0500	0.0530	0.0530	106.00	2009MAR05_REG08096_A1472JEF_piS9 034	
REG08096-00702	0.2000	0.1740	0.1740	87.00	2009FEB26_REG08096_A1472JEF_piS7 030	
REG08096-00702	0.2000	0.1900	0.1900	95.00	2009FEB26_REG08096_A1472JEF_piS7 032	
REG08096-00735	0.2000	0.2020	0.2020	101.00	2009FEB10_REG08096_A1472JEF_piS4 015	

Recovery Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED TOASTED DEFATTED MEAL

Sample ID	ppm Added	Dicamba		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Percent Recovered		
REG08096-00695	0.0100	0.0073	0.0073	73.30	2009FEB25_REG08096_A1472JEF_pfS5R 026	
REG08096-00695	0.0100	0.0075	0.0075	75.10	2009FEB25_REG08096_A1472JEF_pfS5R 027	
REG08096-00728	0.0100	0.0079	0.0079	79.20	2009JAN26_REG08096_A1472JEF_pfS1 023	
REG08096-00728	0.2000	0.2040	0.2040	102.00	2009JAN26_REG08096_A1472JEF_pfS1 024	
REG08096-00695	0.4000	0.3930	0.3930	98.25	2009FEB25_REG08096_A1472JEF_pfS5R 028	
REG08096-00695	2.0000	1.6700	1.6700	83.50	2009FEB25_REG08096_A1472JEF_pfS5R 029	

Recovery Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED TOFU

Sample ID	ppm Added	Dicamba Uncorrected ppm	Dicamba Bkg corr ppm	Bkg Corr.		Data Source Information
				Percent Recovered		
REG08096-00703	0.0100	0.0091	0.0081	80.55	2009FEB25_REG08096_A1472JEF_pfS8_v2 004	
REG08096-00703	0.0100	0.0099	0.0088	87.85	2009FEB25_REG08096_A1472JEF_pfS8_v2 005	
REG08096-00736	0.0100	0.0088	0.0080	80.25	2009FEB10_REG08096_A1472JEF_pfS4 004	
REG08096-00703	0.2000	0.1800	0.1789	89.47	2009FEB25_REG08096_A1472JEF_pfS8_v2 006	
REG08096-00703	0.2000	0.1820	0.1809	90.47	2009FEB25_REG08096_A1472JEF_pfS8_v2 008	
REG08096-00736	0.2000	0.1970	0.1963	98.14	2009FEB10_REG08096_A1472JEF_pfS4 005	

Recovery Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE

Sample ID	ppm Added	5-OH Dicamba		Bkg corr ppm	Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg ppm		Percent Recovered		
REG08096-00255	0.0005	0.000	0.000	0.000	0.0000	2009MAR25_REG08096_A1472JEF_fs3_023	
REG08096-00255	0.0005	0.000	0.000	0.000	0.0000	2009MAR25_REG08096_A1472JEF_fs3_027	
REG08096-00282	0.0005	0.000	0.000	0.000	0.0000	2009MAR25_REG08096_A1472JEF_fs3_005	
REG08096-00282	0.0005	0.0004	0.0004	0.0004	80.20	2009MAR25_REG08096_A1472JEF_fs3_009	
REG08096-00318	0.0005	0.000	0.000	0.000	0.0000	2009MAR24_REG08096_A1472JEF_fs4reinj_008	
REG08096-00318	0.0005	0.0002	0.0002	0.0002	40.20	2009MAR24_REG08096_A1472JEF_fs4reinj_009	
REG08096-00327	0.0005	0.000	0.000	0.000	0.0000	2009MAR24_REG08096_A1472JEF_fs4reinj_028	
REG08096-00327	0.0005	0.000	0.000	0.000	0.0000	2009MAR24_REG08096_A1472JEF_fs4reinj_029	
REG08096-00255	0.0010	0.000	0.000	0.000	0.0000	2009MAR25_REG08096_A1472JEF_fs3_026	
REG08096-00255	0.0010	0.0016	0.0016	0.0016	160.00	2009MAR25_REG08096_A1472JEF_fs3_022	
REG08096-00282	0.0010	0.000	0.000	0.000	0.0000	2009MAR25_REG08096_A1472JEF_fs3_004	
REG08096-00282	0.0010	0.000	0.000	0.000	0.0000	2009MAR25_REG08096_A1472JEF_fs3_008	
REG08096-00318	0.0010	0.000	0.000	0.000	0.0000	2009MAR24_REG08096_A1472JEF_fs4reinj_005	
REG08096-00318	0.0010	0.0004	0.0004	0.0004	36.20	2009MAR24_REG08096_A1472JEF_fs4reinj_006	
REG08096-00327	0.0010	0.0004	0.0004	0.0004	43.20	2009MAR24_REG08096_A1472JEF_fs4reinj_027	
REG08096-00327	0.0010	0.0005	0.0005	0.0005	46.10	2009MAR24_REG08096_A1472JEF_fs4reinj_026	
REG08096-00264	0.0100	0.0097	0.0097	0.0097	96.60	2009MAR13_REG08096_A1472JEF_fs1_003	
REG08096-00273	0.0100	0.0082	0.0076	0.0076	75.53	2009JAN08_REG08096_A1472JEF_fs5_v2_003	
REG08096-00282	0.0100	0.0069	0.0069	0.0069	68.70	2009MAR25_REG08096_A1472JEF_fs3_003	
REG08096-00291	0.0100	0.0082	0.0082	0.0082	82.10	2008DEC03_REG08096_A1472JEF_fs2_v2ppm_003	
REG08096-00300	0.0100	0.0085	0.0076	0.0076	76.17	2009MAR16_REG08096_A1472JEF_fs2_027	
REG08096-00318	0.0100	0.0081	0.0081	0.0081	81.30	2009MAR24_REG08096_A1472JEF_fs4reinj_003	
REG08096-00318	0.0100	0.0088	0.0088	0.0088	88.20	2009MAR24_REG08096_A1472JEF_fs4reinj_004	
REG08096-00327	0.0100	0.0075	0.0075	0.0075	75.40	2009MAR24_REG08096_A1472JEF_fs4reinj_023	
REG08096-00327	0.0100	0.0087	0.0087	0.0087	87.30	2009MAR24_REG08096_A1472JEF_fs4reinj_024	
REG08096-00345	0.0100	0.0074	0.0074	0.0074	73.70	2009MAR13_REG08096_A1472JEF_fs5_015	
REG08096-00354	0.0100	0.0061	0.0061	0.0061	61.00	2009JAN22_REG08096_A1472JEF_fs8_003	
REG08096-00372	0.0100	0.0084	0.0081	0.0081	81.26	2009MAR16_REG08096_A1472JEF_fs2_003	
REG08096-00399	0.0100	0.0104	0.0104	0.0104	104.00	2009MAR28_REG08096_A1472JEF_fs7reinj_003	

Recovery Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE

Sample ID	ppm Added	5-OH Dicamba		Bkg corr ppm	Bkg Corr. Percent Recovered	Data Source Information
		Uncorrected ppm	Bkg ppm			
REG08096-00417	0.0100	0.0107	0.0107		107.00	2009MAR28_REG08096_A1472JEF_fs7reinj_017
REG08096-00426	0.0100	0.0086	0.0086		85.60	2009APR27_REG08096_A1472JEF_sfhs1_017
REG08096-00426	0.0100	0.0093	0.0093		93.00	2009APR27_REG08096_A1472JEF_sfhs1_015
REG08096-00426	0.0100	0.0098	0.0098		97.90	2009APR27_REG08096_A1472JEF_sfhs1_016
REG08096-00282	0.0200	0.0175	0.0175		87.50	2009MAR25_REG08096_A1472JEF_fs3_006
REG08096-00300	0.0200	0.0190	0.0181		90.74	2009MAR16_REG08096_A1472JEF_fs2_028
REG08096-00309	0.0200	0.0160	0.0143		71.25	2009JAN08_REG08096_A1472JEF_fs5_v2_015
REG08096-00309	0.0200	0.0178	0.0178		89.00	2009MAR13_REG08096_A1472JEF_fs5_003
REG08096-00318	0.0200	0.0185	0.0185		92.50	2009MAR24_REG08096_A1472JEF_fs4reinj_040
REG08096-00318	0.0200	0.0197	0.0197		98.50	2009MAR24_REG08096_A1472JEF_fs4reinj_041
REG08096-00327	0.0200	0.0175	0.0175		87.50	2009MAR24_REG08096_A1472JEF_fs4reinj_042
REG08096-00327	0.0200	0.0189	0.0189		94.50	2009MAR24_REG08096_A1472JEF_fs4reinj_043
REG08096-00336	0.0200	0.0212	0.0212		106.00	2009MAR13_REG08096_A1472JEF_fs1_028
REG08096-00363	0.0200	0.0182	0.0182		91.00	2009MAR19_REG08096_A1472JEF_fs6_003
REG08096-00381	0.0200	0.0194	0.0187		93.51	2009MAR19_REG08096_A1472JEF_fs6_017
REG08096-00390	0.0200	0.0188	0.0188		94.00	2009JAN22_REG08096_A1472JEF_fs8_015
REG08096-00417	0.0200	0.0192	0.0192		96.00	2009MAR28_REG08096_A1472JEF_fs7reinj_020
REG08096-00417	0.0200	0.0196	0.0196		98.00	2009MAR28_REG08096_A1472JEF_fs7reinj_018
REG08096-00426	0.0200	0.0195	0.0186		92.87	2009MAR28_REG08096_A1472JEF_fs7reinj_033
REG08096-00426	0.0200	0.0202	0.0202		101.00	2009APR27_REG08096_A1472JEF_sfhs1_021
REG08096-00426	0.0200	0.0206	0.0206		103.00	2009APR27_REG08096_A1472JEF_sfhs1_018
REG08096-00426	0.0200	0.0209	0.0209		104.50	2009APR27_REG08096_A1472JEF_sfhs1_020
REG08096-00435	0.0200	0.0180	0.0180		90.00	2009MAR19_REG08096_A1472JEF_fs6_030
REG08096-00255	0.0500	0.0537	0.0537		107.40	2009MAR25_REG08096_A1472JEF_fs3_021
REG08096-00273	0.0500	0.0563	0.0563		112.60	2009MAR13_REG08096_A1472JEF_fs5_027
REG08096-00291	0.0500	0.0510	0.0505		100.93	2009MAR16_REG08096_A1472JEF_fs2_015
REG08096-00345	0.0500	0.0460	0.0440		88.02	2009JAN08_REG08096_A1472JEF_fs5_v2_027
REG08096-00381	0.0500	0.0505	0.0498		99.60	2009MAR19_REG08096_A1472JEF_fs6_018
REG08096-00399	0.0500	0.0495	0.0495		99.00	2009MAR28_REG08096_A1472JEF_fs7reinj_004

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE

Sample ID	ppm Added	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	Percent Recovered	Percent Recovered	
REG08096-00408	0.0500	0.0561	0.0561	112.20	112.20	2009MAR13	REG08096_A1472JEF_fs1 015	
REG08096-00426	0.0500	0.0473	0.0464	92.75	92.75	2009MAR28	REG08096_A1472JEF_fs7reinj 035	
REG08096-00426	0.0500	0.0488	0.0479	95.75	95.75	2009MAR28	REG08096_A1472JEF_fs7reinj 034	
REG08096-00444	0.0500	0.0485	0.0485	97.00	97.00	2009JAN22	REG08096_A1472JEF_fs8 027	
REG08096-00255	0.1000	0.0939	0.0939	93.90	93.90	2009MAR25	REG08096_A1472JEF_fs3 024	
REG08096-00354	0.1000	0.1010	0.1010	101.00	101.00	2009MAR26	REG08096_A1472JEF_sfrt5S1_v2 020	
REG08096-00399	0.1000	0.1050	0.1050	105.00	105.00	2009MAR28	REG08096_A1472JEF_fs7reinj 005	
REG08096-00417	0.1000	0.0996	0.0996	99.60	99.60	2009MAR28	REG08096_A1472JEF_fs7reinj 021	
REG08096-00426	0.1000	0.1080	0.1080	108.00	108.00	2009APR27	REG08096_A1472JEF_sfhS1 023	
REG08096-00426	0.1000	0.1080	0.1080	108.00	108.00	2009APR27	REG08096_A1472JEF_sfhS1 024	
REG08096-00426	0.1000	0.1090	0.1090	109.00	109.00	2009APR27	REG08096_A1472JEF_sfhS1 022	
REG08096-00255	0.2000	0.1900	0.1899	94.95	94.95	2009AUG14	REG08096_A1472JEF_f 003	
REG08096-00273	0.2000	0.2060	0.2060	103.00	103.00	2009MAY06	REG08096_A1472JEF_hfSal1 024	
REG08096-00273	0.2000	0.2320	0.2320	116.00	116.00	2009MAR13	REG08096_A1472JEF_fs5 028	
REG08096-00345	0.2000	0.1840	0.1820	91.01	91.01	2009JAN08	REG08096_A1472JEF_fs5_v2 028	
REG08096-00444	0.2000	0.1920	0.1920	96.00	96.00	2009JAN22	REG08096_A1472JEF_fs8 028	
REG08096-00336	0.4000	0.3930	0.3930	98.25	98.25	2009MAR13	REG08096_A1472JEF_fs1 027	
REG08096-00426	0.4000	0.4490	0.4490	112.25	112.25	2009APR27	REG08096_A1472JEF_sfhS1 041	
REG08096-00426	50.0000	52.6000	52.6000	105.20	105.20	2009APR27	REG08096_A1472JEF_sfhS1 042	
REG08096-00426	50.0000	56.4000	56.4000	112.80	112.80	2009APR27	REG08096_A1472JEF_sfhS1 043	
REG08096-00426	150.0000	170.0000	170.0000	113.33	113.33	2009APR27	REG08096_A1472JEF_sfhS1 044	
REG08096-00426	150.0000	184.0000	184.0000	122.67	122.67	2009APR27	REG08096_A1472JEF_sfhS1 045	

Recovery Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY

Sample ID	ppm Added	5-OH Dicamba		Bkg Corr. Percent Recovered	Data Source Information
		Uncorrected ppm	Bkg corr ppm		
REG08096-00530	0.0005	0.000	0.000	0.0000	2009FEB26_REG08096_A1472JEF_hS4 022
REG08096-00530	0.0005	0.0006	0.0006	118.40	2009FEB26_REG08096_A1472JEF_hS4 024
REG08096-00530	0.0005	0.0010	0.0010	206.00	2009FEB26_REG08096_A1472JEF_hS4 023
REG08096-00530	0.0005	0.0015	0.0015	296.00	2009FEB26_REG08096_A1472JEF_hS4 021
REG08096-00539	0.0005	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 005
REG08096-00539	0.0005	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 009
REG08096-00539	0.0005	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 023
REG08096-00539	0.0005	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 027
REG08096-00539	0.0005	0.000	0.000	0.0000	2009MAR04_REG08096_A1472JEF_hS3reinj 009
REG08096-00539	0.0005	0.0007	0.0007	143.60	2009MAR04_REG08096_A1472JEF_hS3reinj 005
REG08096-00548	0.0005	0.0006	0.0006	119.00	2009MAR04_REG08096_A1472JEF_hS3reinj 024
REG08096-00548	0.0005	0.0006	0.0006	129.80	2009MAR04_REG08096_A1472JEF_hS3reinj 021
REG08096-00503	0.0010	0.000	0.000	0.0000	2009FEB26_REG08096_A1472JEF_hS4 009
REG08096-00503	0.0010	0.0010	0.0010	103.00	2009FEB26_REG08096_A1472JEF_hS4 008
REG08096-00530	0.0010	0.000	0.000	0.0000	2009FEB26_REG08096_A1472JEF_hS4 018
REG08096-00530	0.0010	0.0011	0.0011	109.00	2009FEB26_REG08096_A1472JEF_hS4 020
REG08096-00539	0.0010	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 004
REG08096-00539	0.0010	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 008
REG08096-00539	0.0010	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 026
REG08096-00539	0.0010	0.0006	0.0006	58.20	2009MAR04_REG08096_A1472JEF_hS3reinj 008
REG08096-00539	0.0010	0.0007	0.0007	65.20	2009MAR04_REG08096_A1472JEF_hS3reinj 004
REG08096-00548	0.0010	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_hS3 022
REG08096-00548	0.0010	0.0010	0.0010	97.90	2009MAR04_REG08096_A1472JEF_hS3reinj 023
REG08096-00548	0.0010	0.0012	0.0012	122.00	2009MAR04_REG08096_A1472JEF_hS3reinj 020
REG08096-00485	0.0100	0.0064	0.0064	63.60	2009FEB05_REG08096_A1472JEF_hS2reinj 003
REG08096-00485	0.0100	0.0074	0.0074	73.50	2009APR27_REG08096_A1472JEF_sfhS1 028
REG08096-00485	0.0100	0.0079	0.0079	78.50	2009APR27_REG08096_A1472JEF_sfhS1 027
REG08096-00485	0.0100	0.0082	0.0082	81.90	2009APR27_REG08096_A1472JEF_sfhS1 029
REG08096-00503	0.0100	0.0070	0.0070	69.90	2009FEB26_REG08096_A1472JEF_hS4 003

Recovery Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY

Sample ID	ppm Added	5-OH Dicamba		Bkg corr ppm	Percent Recovered	Data Source Information
		Uncorrected ppm	5-OH Dicamba Bkg Corr.			
REG08096-00512	0.0100	0.0158	0.0081	81.30	2009JAN07_REG08096_A1472JEF_hs5 003	
REG08096-00521	0.0100	0.0060	0.0060	60.30	2009FEB05_REG08096_A1472JEF_hs2reinj 030	
REG08096-00539	0.0100	0.0013	0.0013	13.10	2009JAN16_REG08096_A1472JEF_hs3 003	
REG08096-00539	0.0100	0.0073	0.0073	73.40	2009MAR04_REG08096_A1472JEF_hs3reinj 003	
REG08096-00584	0.0100	0.0087	0.0087	86.50	2009MAR12_REG08096_A1472JEF_hs6reinj 002	
REG08096-00611	0.0100	0.0050	0.0050	49.70	2009JAN23_REG08096_A1472JEF_hs7 003	
REG08096-00638	0.0100	0.0055	0.0055	54.70	2009JAN27_REG08096_A1472JEF_hs1 003	
REG08096-00656	0.0100	0.0053	0.0053	52.50	2009JAN31_REG08096_A1472JEF_hs8 003	
REG08096-00485	0.0200	0.0178	0.0178	89.00	2009APR27_REG08096_A1472JEF_sfhS1 033	
REG08096-00485	0.0200	0.0185	0.0185	92.50	2009APR27_REG08096_A1472JEF_sfhS1 031	
REG08096-00485	0.0200	0.0190	0.0190	95.00	2009APR27_REG08096_A1472JEF_sfhS1 030	
REG08096-00494	0.0200	0.0157	0.0157	78.50	2009FEB05_REG08096_A1472JEF_hs2reinj 017	
REG08096-00503	0.0200	0.0179	0.0179	89.50	2009FEB26_REG08096_A1472JEF_hs4 004	
REG08096-00539	0.0200	0.0108	0.0108	54.00	2009JAN16_REG08096_A1472JEF_hs3 006	
REG08096-00539	0.0200	0.0188	0.0188	94.00	2009MAR04_REG08096_A1472JEF_hs3reinj 006	
REG08096-00557	0.0200	0.0228	0.0189	94.45	2009JAN07_REG08096_A1472JEF_hs5 015	
REG08096-00566	0.0200	0.0160	0.0160	80.00	2009JAN27_REG08096_A1472JEF_hs1 015	
REG08096-00575	0.0200	0.0195	0.0155	77.25	2009JAN07_REG08096_A1472JEF_hs5 028	
REG08096-00593	0.0200	0.0189	0.0189	94.50	2009MAR12_REG08096_A1472JEF_hs6reinj 015	
REG08096-00620	0.0200	0.0184	0.0184	92.00	2009MAR12_REG08096_A1472JEF_hs6reinj 029	
REG08096-00647	0.0200	0.0164	0.0164	82.00	2009JAN23_REG08096_A1472JEF_hs7 015	
REG08096-00665	0.0200	0.0184	0.0184	92.00	2009JAN31_REG08096_A1472JEF_hs8 015	
REG08096-00503	0.0500	0.0479	0.0479	95.80	2009FEB26_REG08096_A1472JEF_hs4 005	
REG08096-00503	0.0500	0.0519	0.0519	103.80	2009MAR17_REG08096_A1472JEF_shirt3 027	
REG08096-00521	0.0500	0.0491	0.0491	98.20	2009FEB05_REG08096_A1472JEF_hs2reinj 029	
REG08096-00548	0.0500	0.0506	0.0506	101.20	2009JAN16_REG08096_A1472JEF_hs3 021	
REG08096-00548	0.0500	0.0515	0.0515	103.00	2009MAR04_REG08096_A1472JEF_hs3reinj 018	
REG08096-00557	0.0500	0.0554	0.0515	102.98	2009JAN07_REG08096_A1472JEF_hs5 016	
REG08096-00566	0.0500	0.0495	0.0495	99.00	2009JAN27_REG08096_A1472JEF_hs1 016	

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY

Sample ID	ppm Added	5-OH Dicamba		5-OH Dicamba		Bkg Corr. Percent Recovered	Data Source Information
		Uncorrected ppm	Bkg corr ppm	Bkg corr ppm	Percent Recovered		
REG08096-00611	0.0500	0.0465	0.0465	0.0465	93.00	2009JAN23_REG08096_A1472JEF_hs7 016	
REG08096-00620	0.0500	0.0524	0.0524	0.0524	104.80	2009MAR12_REG08096_A1472JEF_hS6reinj 030	
REG08096-00629	0.0500	0.0519	0.0519	0.0519	103.80	2009JAN23_REG08096_A1472JEF_hs7 028	
REG08096-00665	0.0500	0.0433	0.0433	0.0433	86.60	2009JAN31_REG08096_A1472JEF_hs8 016	
REG08096-00485	0.1000	0.1020	0.1020	0.1020	102.00	2009APR27_REG08096_A1472JEF_sfhS1 035	
REG08096-00485	0.1000	0.1030	0.1030	0.1030	103.00	2009APR27_REG08096_A1472JEF_sfhS1 036	
REG08096-00485	0.1000	0.1040	0.1040	0.1040	104.00	2009APR27_REG08096_A1472JEF_sfhS1 034	
REG08096-00503	0.1000	0.1070	0.1070	0.1070	107.00	2009FEB26_REG08096_A1472JEF_hs4 006	
REG08096-00539	0.1000	0.1000	0.1000	0.1000	100.00	2009JAN16_REG08096_A1472JEF_hs3 024	
REG08096-00548	0.1000	0.1040	0.1040	0.1040	104.00	2009MAR04_REG08096_A1472JEF_hS3reinj 022	
REG08096-00539	0.2000	0.2210	0.2210	0.2210	110.50	2009MAY06_REG08096_A1472JEF_hfSall 003	
REG08096-00674	0.2000	0.1950	0.1950	0.1950	97.50	2009JAN31_REG08096_A1472JEF_hs8 028	
REG08096-00602	0.4000	0.4090	0.4090	0.4090	102.25	2009JAN27_REG08096_A1472JEF_hs1 028	

Recovery Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED

Sample ID	ppm Added	5-OH Dicamba		Bkg corr ppm	Bkg Corr. Percent Recovered	Data Source Information
		Uncorrected ppm	5-OH Dicamba			
REG08096-00001	0.0005	0.000	0.000	0.000	0.0000	2009JAN20_REG08096_A1472JEF_gS8 006
REG08096-00001	0.0005	0.000	0.000	0.000	0.0000	2009JAN20_REG08096_A1472JEF_gS8 010
REG08096-00001	0.0005	0.000	0.000	0.000	0.0000	2009JAN20_REG08096_A1472JEF_gS8 024
REG08096-00100	0.0005	0.000	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_gS10 014
REG08096-00100	0.0005	0.000	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_gS10 015
REG08096-00100	0.0005	0.0003	0.0003	0.0003	59.80	2009JAN16_REG08096_A1472JEF_gS10 016
REG08096-00100	0.0005	0.0012	0.0012	0.0012	236.00	2009JAN16_REG08096_A1472JEF_gS10 012
REG08096-00163	0.0005	0.000	0.000	0.000	0.0000	2009JAN20_REG08096_A1472JEF_gS8 028
REG08096-00001	0.0010	0.000	0.000	0.000	0.0000	2009JAN20_REG08096_A1472JEF_gS8 005
REG08096-00001	0.0010	0.000	0.000	0.000	0.0000	2009JAN20_REG08096_A1472JEF_gS8 009
REG08096-00001	0.0010	0.000	0.000	0.000	0.0000	2009JAN20_REG08096_A1472JEF_gS8 023
REG08096-00001	0.0010	0.000	0.000	0.000	0.0000	2009JAN20_REG08096_A1472JEF_gS8 027
REG08096-00028	0.0010	0.000	0.000	0.000	0.0000	2009JAN12_REG08096_A1472JEF_gS7_v2 005
REG08096-00100	0.0010	0.000	0.000	0.000	0.0000	2009JAN16_REG08096_A1472JEF_gS10 010
REG08096-00100	0.0010	0.0002	0.0002	0.0002	17.30	2009JAN16_REG08096_A1472JEF_gS10 011
REG08096-00100	0.0010	0.0009	0.0009	0.0009	92.00	2009JAN16_REG08096_A1472JEF_gS10 009
REG08096-00001	0.0100	0.0070	0.0070	0.0070	70.10	2008NOV19_REG08096_A1472JEF_gS1_v2ppm 003
REG08096-00010	0.0100	0.0130	0.0089	0.0089	88.60	2008DEC02_REG08096_A1472JEF_gS3_v2ppm 003
REG08096-00019	0.0100	0.0061	0.0061	0.0061	61.20	2008DEC10_REG08096_A1472JEF_gS4reinj_v2p
REG08096-00028	0.0100	0.0057	0.0057	0.0057	57.20	2009JAN12_REG08096_A1472JEF_gS7_v2 003
REG08096-00028	0.0100	0.0073	0.0073	0.0073	72.90	2009MAR05_REG08096_A1472JEF_gS7 003
REG08096-00028	0.0100	0.0093	0.0093	0.0093	93.40	2009APR27_REG08096_A1472JEF_sfhS1 003
REG08096-00028	0.0100	0.0121	0.0121	0.0121	121.00	2009APR27_REG08096_A1472JEF_sfhS1 004
REG08096-00028	0.0100	0.0137	0.0137	0.0137	137.00	2009APR27_REG08096_A1472JEF_sfhS1 005
REG08096-00064	0.0100	0.0055	0.0046	0.0046	46.24	2008DEC11_REG08096_A1472JEF_gS6_v2ppm 003
REG08096-00073	0.0100	0.0053	0.0053	0.0053	52.60	2009JAN13_REG08096_A1472JEF_gS2 003
REG08096-00145	0.0100	0.0054	0.0054	0.0054	54.20	2009JAN20_REG08096_A1472JEF_gS8 003
REG08096-00154	0.0100	0.0014	0.0014	0.0014	13.90	2008DEC04_REG08096_A1472JEF_gS5_v2ppm 003
REG08096-00181	0.0100	0.0072	0.0072	0.0072	71.60	2009JAN13_REG08096_A1472JEF_gS2 028

Recovery Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED

Sample ID	ppm Added	5-OH Dicamba		5-OH Dicamba Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00001	0.0200	0.0144	0.0144	72.00	2009JAN15_REG08096_A1472JEF_gS9 003	
REG08096-00001	0.0200	0.0165	0.0165	82.50	2009JAN20_REG08096_A1472JEF_gS8 008	
REG08096-00028	0.0200	0.0125	0.0125	62.50	2009JAN12_REG08096_A1472JEF_gS7_v2 004	
REG08096-00028	0.0200	0.0182	0.0182	91.00	2009MAR05_REG08096_A1472JEF_gS7 004	
REG08096-00028	0.0200	0.0233	0.0233	116.50	2009APR27_REG08096_A1472JEF_sfhS1 009	
REG08096-00028	0.0200	0.0236	0.0236	118.00	2009APR27_REG08096_A1472JEF_sfhS1 008	
REG08096-00028	0.0200	0.0252	0.0252	126.00	2009APR27_REG08096_A1472JEF_sfhS1 006	
REG08096-00037	0.0200	0.0198	0.0198	92.00	2008NOV19_REG08096_A1472JEF_gS1_v2ppm 017	
REG08096-00046	0.0200	0.0194	0.0185	92.70	2008DEC10_REG08096_A1472JEF_gS4reinj_v2p	
REG08096-00064	0.0200	0.0166	0.0166	83.00	2009JAN16_REG08096_A1472JEF_gS10 003	
REG08096-00100	0.0200	0.0176	0.0176	88.00	2008DEC11_REG08096_A1472JEF_gS6_v2ppm 017	
REG08096-00118	0.0200	0.0239	0.0180	90.10	2008DEC02_REG08096_A1472JEF_gS3_v2ppm 015	
REG08096-00136	0.0200	0.0140	0.0140	70.00	2009JAN13_REG08096_A1472JEF_gS2 015	
REG08096-00172	0.0200	0.0201	0.0201	100.50	2008DEC04_REG08096_A1472JEF_gS5_v2ppm 015	
REG08096-00190	0.0200	0.0184	0.0184	92.00	2008DEC04_REG08096_A1472JEF_gS5_v2ppm 028	
REG08096-00001	0.0500	0.0464	0.0464	92.80	2009JAN15_REG08096_A1472JEF_gS9 004	
REG08096-00028	0.0500	0.0507	0.0507	101.40	2009MAR17_REG08096_A1472JEF_shrt3 003	
REG08096-00055	0.0500	0.0502	0.0496	99.28	2008NOV19_REG08096_A1472JEF_gS1_v2ppm 030	
REG08096-00064	0.0500	0.0480	0.0480	96.00	2009JAN16_REG08096_A1472JEF_gS10 004	
REG08096-00082	0.0500	0.0599	0.0583	116.66	2008DEC10_REG08096_A1472JEF_gS4reinj_v2p	
REG08096-00091	0.0500	0.0620	0.0485	97.00	2008DEC02_REG08096_A1472JEF_gS3_v2ppm 027	
REG08096-00100	0.0500	0.0430	0.0430	86.00	2009MAR26_REG08096_A1472JEF_sfr5S1_v2 003	
REG08096-00100	0.0500	0.0473	0.0473	94.60	2009MAR20_REG08096_A1472JEF_girt5S1 003	
REG08096-00109	0.0500	0.0380	0.0374	74.88	2008DEC11_REG08096_A1472JEF_gS6_v2ppm 029	
REG08096-00109	0.0500	0.0381	0.0375	75.08	2008DEC11_REG08096_A1472JEF_gS6_v2ppm 030	
REG08096-00127	0.0500	0.0437	0.0437	87.40	2009JAN12_REG08096_A1472JEF_gS7_v2 017	
REG08096-00127	0.0500	0.0499	0.0499	99.80	2009MAR05_REG08096_A1472JEF_gS7 014	
REG08096-00163	0.0500	0.0482	0.0482	96.40	2009JAN20_REG08096_A1472JEF_gS8 022	
REG08096-00172	0.0500	0.0490	0.0490	98.00	2008DEC04_REG08096_A1472JEF_gS5_v2ppm 016	

Recovery Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED

Sample ID	ppm Added	5-OH Dicamba		Bkg Corr. Percent Recovered	Data Source Information
		Uncorrected ppm	Bkg corr ppm		
REG08096-00181	0.0500	0.0433	0.0433	86.60	2009JAN13_REG08096_A1472JEF_gS2 027
REG08096-00028	0.1000	0.1090	0.1090	109.00	2009APR27_REG08096_A1472JEF_sfhS1 010
REG08096-00028	0.1000	0.1130	0.1130	113.00	2009APR27_REG08096_A1472JEF_sfhS1 012
REG08096-00028	0.1000	0.1160	0.1160	116.00	2009APR27_REG08096_A1472JEF_sfhS1 011
REG08096-00118	0.1000	0.1100	0.1041	104.12	2008DEC02_REG08096_A1472JEF_gS3_v2ppm 016
REG08096-00001	0.2000	0.1770	0.1770	88.50	2009JAN15_REG08096_A1472JEF_gS9 005
REG08096-00001	0.2000	0.2020	0.2020	101.00	2009JAN20_REG08096_A1472JEF_gS8 026
REG08096-00064	0.2000	0.1830	0.1830	91.50	2009JAN16_REG08096_A1472JEF_gS10 005
REG08096-00082	0.2000	0.2350	0.2334	116.72	2008DEC10_REG08096_A1472JEF_gS4reini_v2p
REG08096-00127	0.2000	0.1980	0.1980	99.00	2009JAN12_REG08096_A1472JEF_gS7_v2 018
REG08096-00127	0.2000	0.1980	0.1980	99.00	2009MAR05_REG08096_A1472JEF_gS7 015
REG08096-00001	0.4000	0.3900	0.3900	97.50	2009JAN15_REG08096_A1472JEF_gS9 006
REG08096-00028	0.4000	0.4150	0.4150	103.75	2009APR27_REG08096_A1472JEF_sfhS1 037
REG08096-00037	0.4000	0.3720	0.3720	93.00	2008NOV19_REG08096_A1472JEF_gS1_v2ppm 018
REG08096-00064	0.4000	0.3790	0.3790	94.75	2009JAN16_REG08096_A1472JEF_gS10 006
REG08096-00127	1.0000	1.0400	1.0400	104.00	2009MAR17_REG08096_A1472JEF_shtrt3 017
REG08096-00028	5.0000	5.4500	5.4500	109.00	2009APR27_REG08096_A1472JEF_sfhS1 039
REG08096-00028	5.0000	5.5900	5.5900	111.80	2009APR27_REG08096_A1472JEF_sfhS1 038

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED CRUDE LECITHIN

Sample ID	ppm Added	5-OH Dicamba		Bkg Corr. Percent Recovered	Data Source Information
		Uncorrected ppm	Bkg corr ppm		
REG08096-00699	0.0100	0.0081	0.0079	79.40	2009FEB25_REG08096_A1472JEF_pfS8_v2 017
REG08096-00699	0.0100	0.0083	0.0081	81.10	2009FEB25_REG08096_A1472JEF_pfS8_v2 016
REG08096-00732	0.0100	0.0092	0.0092	91.70	2009JAN29_REG08096_A1472JEF_pfS3 004
REG08096-00699	0.2000	0.1890	0.1888	94.42	2009FEB25_REG08096_A1472JEF_pfS8_v2 020
REG08096-00699	0.2000	0.2010	0.2008	100.42	2009FEB25_REG08096_A1472JEF_pfS8_v2 018
REG08096-00732	0.2000	0.2040	0.2040	102.00	2009JAN29_REG08096_A1472JEF_pfS3 005
REG08096-00732	0.4000	0.4170	0.4167	104.17	2009FEB10_REG08096_A1472JEF_pfS4 026
REG08096-00732	0.4000	0.4390	0.4387	109.67	2009FEB10_REG08096_A1472JEF_pfS4 027
REG08096-00732	2.0000	1.9000	1.8997	94.98	2009FEB10_REG08096_A1472JEF_pfS4 029
REG08096-00732	2.0000	2.2200	2.2197	110.98	2009FEB10_REG08096_A1472JEF_pfS4 028

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED DEFATTED FLOUR

Sample ID	ppm Added	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Bkg corr ppm	Percent Recovered	Percent Recovered		
REG08096-00696	0.0100	0.0075	0.0074	0.0074	74.22	74.22	2009FEB19_REG08096_A1472JEF_pfS6 028	
REG08096-00696	0.0100	0.0077	0.0076	0.0076	75.53	75.53	2009FEB19_REG08096_A1472JEF_pfS6 029	
REG08096-00696	0.0100	0.0082	0.0082	0.0082	82.00	82.00	2009MAR05_REG08096_A1472JEF_pfS9 003	
REG08096-00696	0.0200	0.0180	0.0180	0.0180	90.00	90.00	2009MAR05_REG08096_A1472JEF_pfS9 004	
REG08096-00729	0.0200	0.0128	0.0128	0.0128	64.00	64.00	2009JAN26_REG08096_A1472JEF_pfS1 033	
REG08096-00696	0.0500	0.0474	0.0474	0.0474	94.80	94.80	2009MAR05_REG08096_A1472JEF_pfS9 005	
REG08096-00729	0.0500	0.0444	0.0444	0.0444	88.80	88.80	2009JAN26_REG08096_A1472JEF_pfS1 034	
REG08096-00696	0.4000	0.3620	0.3619	0.3619	90.48	90.48	2009FEB19_REG08096_A1472JEF_pfS6 030	
REG08096-00696	2.0000	1.9800	1.9799	1.9799	99.00	99.00	2009FEB19_REG08096_A1472JEF_pfS6 032	

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED DEGUMMED OIL

Sample ID	ppm Added	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00700	0.0100	0.0081	0.0071	0.0071	0.0071	71.05	71.05	2009FEB16_REG08096_A1472JEF_pfS5 004
REG08096-00700	0.0100	0.0106	0.0096	0.0096	0.0096	96.35	96.35	2009FEB16_REG08096_A1472JEF_pfS5 005
REG08096-00733	0.0100	0.0085	0.0085	0.0085	0.0085	85.10	85.10	2009JAN26_REG08096_A1472JEF_pfS1 004
REG08096-00700	0.2000	0.1840	0.1830	0.1830	0.1830	91.52	91.52	2009FEB16_REG08096_A1472JEF_pfS5 006
REG08096-00733	0.2000	0.1980	0.1980	0.1980	0.1980	99.00	99.00	2009JAN26_REG08096_A1472JEF_pfS1 005

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED HULLS

Sample ID	ppm Added	5-OH Dicamba		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Percent Recovered		
REG08096-00694	0.0100	0.0080	0.0080	79.80	2009FEB19_REG08096_A1472JEF_pfS6 016	
REG08096-00694	0.0100	0.0082	0.0082	81.90	2009FEB19_REG08096_A1472JEF_pfS6 017	
REG08096-00727	0.0200	0.0164	0.0164	82.00	2009JAN29_REG08096_A1472JEF_pfS2 014	
REG08096-00727	0.0500	0.0526	0.0526	105.20	2009JAN29_REG08096_A1472JEF_pfS2 015	
REG08096-00694	0.4000	0.4090	0.4090	102.25	2009FEB19_REG08096_A1472JEF_pfS6 018	
REG08096-00694	2.0000	2.0300	2.0300	101.50	2009FEB19_REG08096_A1472JEF_pfS6 020	

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED PROTEIN CONCENTRATES

Sample ID	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
	ppm Added	Uncorrected ppm	Bkg corr ppm	Percent Recovered			
REG08096-00698	0.0100	0.0088	0.0088	87.84	2009MAR05	REG08096_A1472JEF_pIS9 022	
REG08096-00698	0.0100	0.0101	0.0081	81.05	2009FEB26	REG08096_A1472JEF_pIS7 017	
REG08096-00698	0.0100	0.0107	0.0087	87.05	2009FEB26	REG08096_A1472JEF_pIS7 016	
REG08096-00731	0.0100	0.0096	0.0090	89.99	2009JAN29	REG08096_A1472JEF_pIS2 030	
REG08096-00698	0.0200	0.0209	0.0209	104.37	2009MAR05	REG08096_A1472JEF_pIS9 023	
REG08096-00698	0.0500	0.0514	0.0514	102.75	2009MAR05	REG08096_A1472JEF_pIS9 024	
REG08096-00731	0.0500	0.0518	0.0512	102.36	2009JAN29	REG08096_A1472JEF_pIS2 032	
REG08096-00698	0.2000	0.1820	0.1800	90.00	2009FEB26	REG08096_A1472JEF_pIS7 018	
REG08096-00698	0.2000	0.1870	0.1850	92.50	2009FEB26	REG08096_A1472JEF_pIS7 020	

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED PROTEIN ISOLATES

Sample ID	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
	ppm Added	Uncorrected ppm	Bkg corr ppm	Percent Recovered			
REG08096-00697	0.0100	0.0086	0.0084	84.47	2009MAR05	REG08096_A1472JEF_pIS9 012	
REG08096-00697	0.0100	0.0102	0.0084	83.70	2009FEB26	REG08096_A1472JEF_pIS7 004	
REG08096-00697	0.0100	0.0105	0.0087	86.70	2009FEB26	REG08096_A1472JEF_pIS7 005	
REG08096-00730	0.0100	0.0100	0.0092	92.24	2009JAN29	REG08096_A1472JEF_pIS2 023	
REG08096-00697	0.0200	0.0208	0.0207	103.29	2009MAR05	REG08096_A1472JEF_pIS9 014	
REG08096-00697	0.0500	0.0490	0.0489	97.71	2009MAR05	REG08096_A1472JEF_pIS9 015	
REG08096-00697	0.2000	0.1730	0.1712	85.59	2009FEB26	REG08096_A1472JEF_pIS7 008	
REG08096-00697	0.2000	0.1850	0.1832	91.59	2009FEB26	REG08096_A1472JEF_pIS7 006	
REG08096-00730	0.2000	0.2010	0.2003	100.13	2009JAN29	REG08096_A1472JEF_pIS2 024	

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED RBD OIL

Sample ID	ppm Added	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00701	0.0100	0.0079	0.0065	0.0079	0.0065	64.85	64.85	2009FEB16_REG08096_A1472JEF_pfS5 015
REG08096-00701	0.0100	0.0088	0.0074	0.0088	0.0074	73.85	73.85	2009FEB16_REG08096_A1472JEF_pfS5 016
REG08096-00734	0.0100	0.0090	0.0088	0.0090	0.0088	88.39	88.39	2009JAN26_REG08096_A1472JEF_pfS1 014
REG08096-00701	0.2000	0.1820	0.1806	0.1820	0.1806	90.31	90.31	2009FEB16_REG08096_A1472JEF_pfS5 017
REG08096-00734	0.4000	0.3840	0.3838	0.3840	0.3838	95.96	95.96	2009JAN26_REG08096_A1472JEF_pfS1 015

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED SEED FROM PROCESSING

Sample ID	ppm Added	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00693	0.0100	0.0080	0.0080	0.0080	0.0080	79.50	2009FEB19_REG08096_A1472JEF_pfS6 005	
REG08096-00693	0.0100	0.0081	0.0081	0.0081	0.0081	80.50	2009FEB19_REG08096_A1472JEF_pfS6 004	
REG08096-00726	0.0100	0.0078	0.0078	0.0078	0.0078	78.20	2009JAN29_REG08096_A1472JEF_pfS2 004	
REG08096-00693	0.2000	0.1880	0.1880	0.1880	0.1880	94.00	2009FEB19_REG08096_A1472JEF_pfS6 006	
REG08096-00693	0.4000	0.3690	0.3690	0.3690	0.3690	92.25	2009FEB19_REG08096_A1472JEF_pfS6 008	
REG08096-00726	5.0000	4.5600	4.5600	4.5600	4.5600	91.20	2009JAN29_REG08096_A1472JEF_pfS2 005	

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED SOYMILK

Sample ID	ppm Added	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Percent Recovered				
REG08096-00702	0.0100	0.0090	0.0073	72.70	2009FEB26_REG08096_A1472JEF_piS7 028			
REG08096-00702	0.0100	0.0097	0.0080	79.80	2009FEB26_REG08096_A1472JEF_piS7 029			
REG08096-00735	0.0100	0.0089	0.0084	84.29	2009FEB10_REG08096_A1472JEF_piS4 014			
REG08096-00702	0.0200	0.0211	0.0209	104.49	2009MAR05_REG08096_A1472JEF_piS9 033			
REG08096-00702	0.0500	0.0503	0.0501	100.20	2009MAR05_REG08096_A1472JEF_piS9 034			
REG08096-00702	0.2000	0.1710	0.1692	84.62	2009FEB26_REG08096_A1472JEF_piS7 032			
REG08096-00702	0.2000	0.1850	0.1832	91.62	2009FEB26_REG08096_A1472JEF_piS7 030			
REG08096-00735	0.2000	0.2060	0.2055	102.75	2009FEB10_REG08096_A1472JEF_piS4 015			

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED TOASTED DEFATTED MEAL

Sample ID	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
	ppm Added	Uncorrected ppm	Bkg corr ppm	Percent Recovered			
REG08096-00695	0.0100	0.0067	0.0067	66.90	2009FEB16_REG08096_A1472JEF_pfS5 027		
REG08096-00695	0.0100	0.0073	0.0073	72.60	2009FEB16_REG08096_A1472JEF_pfS5 026		
REG08096-00728	0.0100	0.0059	0.0059	59.20	2009JAN26_REG08096_A1472JEF_pfS1 023		
REG08096-00728	0.2000	0.2040	0.2040	102.00	2009JAN26_REG08096_A1472JEF_pfS1 024		
REG08096-00695	0.4000	0.3610	0.3610	90.25	2009FEB16_REG08096_A1472JEF_pfS5 028		
REG08096-00695	2.0000	1.9200	1.9200	96.00	2009FEB16_REG08096_A1472JEF_pfS5 029		

Recovery Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED TOFU

Sample ID	ppm Added	5-OH Dicamba		5-OH Dicamba		Bkg Corr.		Data Source Information
		Uncorrected ppm	Bkg corr ppm	Uncorrected ppm	Bkg corr ppm	Percent Recovered	Percent Recovered	
REG08096-00703	0.0100	0.0099	0.0092	0.0092	0.0092	91.64	91.64	2009FEB25_REG08096_A1472JEF_pfS8_v2 005
REG08096-00703	0.0100	0.0104	0.0097	0.0097	0.0097	97.04	97.04	2009FEB25_REG08096_A1472JEF_pfS8_v2 004
REG08096-00736	0.0100	0.0100	0.0097	0.0097	0.0097	96.57	96.57	2009FEB10_REG08096_A1472JEF_pfS4 004
REG08096-00703	0.2000	0.1880	0.1873	0.1873	0.1873	93.65	93.65	2009FEB25_REG08096_A1472JEF_pfS8_v2 006
REG08096-00703	0.2000	0.2050	0.2043	0.2043	0.2043	102.15	102.15	2009FEB25_REG08096_A1472JEF_pfS8_v2 008
REG08096-00736	0.2000	0.2050	0.2047	0.2047	0.2047	102.33	102.33	2009FEB10_REG08096_A1472JEF_pfS4 005

Appendix 7. Raw Data Tables for RACs from Treatments 1 and 4

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days		
REG08096-00255	1	0	5.0	5960	-6.99E+1	1.30E+2	5.21E-3	-2.91E-3	0.01	0.0001	0.0001	0.0001	07/10/08	08/14/09	08/14/09	08/14/09	400	400	0	0
REG08096-00255	1	0	5.0	0	-1.27E+1	3.72E+1	-2.91E-3	0.00	0.0000	0.00	0.0000	0.0000	07/10/08	12/17/08	12/18/08	12/18/08	160	160	1	1
REG08096-00255	1	0	5.0	7890	-1.21E+1	3.25E+1	4.28E-3	0.00	0.0000	0.00	0.0000	0.0000	07/10/08	04/01/09	04/03/09	04/03/09	265	265	2	2
REG08096-00260	4	7	5.0	16900000	-6.99E+1	1.30E+2	5.21E-3	40.40	1.9700	0.00	0.0000	1.9700	07/10/08	08/14/09	08/14/09	08/14/09	400	400	0	0
REG08096-00261	4	7	5.0	4900000	-1.27E+1	3.72E+1	-2.91E-3	11.60	1.7800	0.00	0.0000	1.7800	07/10/08	12/17/08	12/18/08	12/18/08	160	160	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant		Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				A	B	C	A	B			Date	Date	Date	Date	Days	Days	
REG08096-00264	1	0	5.0	4390	6.21E+1	1.67E-2	-2.48E+1	6.21E+1	0.00	0.0000	08/14/08	04/01/09	04/03/09	04/03/09	230	230	2
REG08096-00264	1	0	5.0	0	2.83E+1	-8.26E-3	-3.72E+0	2.83E+1	0.00	0.0000	08/14/08	03/11/09	03/13/09	03/13/09	209	209	2
REG08096-00269	4	8	250.0	1930000	1.30E+2	5.21E-3	-6.99E+1	1.30E+2	2.41	4.6700	08/14/08	08/14/09	08/15/09	08/15/09	365	365	1
REG08096-00270	4	8	100.0	1360000	6.21E+1	1.67E-2	-2.48E+1	6.21E+1	3.63	5.9500	08/14/08	04/01/09	04/03/09	04/03/09	230	230	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days		
REG08096-00273	1	0	5.0	2250	-2.35E+1	7.06E+1	-2.33E-3	0.00	0.0003	0.00	0.0003	0.00	08/01/08	05/06/09	05/07/09	05/07/09	278	278	1	1
REG08096-00273	1	0	5.0	4010	-7.48E+0	2.93E+1	-1.89E-3	0.00	0.0006	0.00	0.0006	0.00	08/01/08	03/12/09	03/14/09	03/14/09	223	223	2	2
REG08096-00278	4	7	5.0	12700000	-7.48E+0	2.93E+1	-1.89E-3	8.38	1.5500	8.38	1.5500	1.5500	08/01/08	03/12/09	03/14/09	03/14/09	223	223	2	2
REG08096-00279	4	7	5.0	14700000	-7.48E+0	2.93E+1	-1.89E-3	10.40	1.9600	10.40	1.9600	1.9600	08/01/08	03/12/09	03/14/09	03/14/09	223	223	2	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant			Date	Date	Extrn. Days	Analysis Days		
REG08096-00282	1	0	5.0	1360	-1.27E+1	3.72E+1	-2.91E-3	0.00	0.0006	0.00	0.0006	08/06/08	12/17/08	12/18/08	133	1	
REG08096-00287	4	8	5.0	6110000	-1.27E+1	3.72E+1	-2.91E-3	10.70	1.6200	10.70	1.6200	08/06/08	12/17/08	12/19/08	133	2	
REG08096-00288	4	8	5.0	6650000	-1.27E+1	3.72E+1	-2.91E-3	11.40	1.7400	11.40	1.7400	08/06/08	12/17/08	12/19/08	133	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Ratio	Date	Date		Days	Days				
REG08096-00291	1	0	5.0	47900	2.86E+1	4.20E-3	-8.45E+0	2.86E+1	4.20E-3	0.01	0.0005	07/21/08	12/02/08	12/03/08	134	1		
REG08096-00296	4	7	5.0	28700000	2.86E+1	4.20E-3	-8.45E+0	2.86E+1	4.20E-3	9.11	1.7800	07/21/08	12/02/08	12/03/08	134	1		
REG08096-00297	4	7	5.0	29400000	2.86E+1	4.20E-3	-8.45E+0	2.86E+1	4.20E-3	9.22	1.8100	07/21/08	12/02/08	12/03/08	134	1		

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				No.	Days	Response	Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00300	1	0	5.0	6150			-3.59E+1	6.35E+1	1.35E-2	0.00	0.0000	08/05/08	04/14/09	04/16/09	04/16/09	252	2	2
REG08096-00300	1	0	5.0	49700			-8.45E+0	2.86E+1	4.20E-3	0.01	0.0006	08/05/08	12/02/08	12/04/08	12/04/08	119	119	2
REG08096-00305	4	8	5.0	29100000			-8.45E+0	2.86E+1	4.20E-3	9.93	1.9700	08/05/08	12/02/08	12/04/08	12/04/08	119	119	2
REG08096-00306	4	8	5.0	30800000			-8.45E+0	2.86E+1	4.20E-3	11.00	2.2100	08/05/08	12/02/08	12/04/08	12/04/08	119	119	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days	
REG08096-00309	1	0	5.0	9660	-7.48E+0	2.93E+1	-1.89E-3	0.00	0.0008	0.00	0.0008	0.0008	08/15/08	03/12/09	03/14/09	03/14/09	209	209	2
REG08096-00314	4	7	5.0	14900000	-7.48E+0	2.93E+1	-1.89E-3	11.50	2.2200	11.50	2.2200	2.2200	08/15/08	03/12/09	03/14/09	03/14/09	209	209	2
REG08096-00315	4	7	5.0	15800000	-7.48E+0	2.93E+1	-1.89E-3	11.60	2.2400	11.60	2.2400	2.2400	08/15/08	03/12/09	03/14/09	03/14/09	209	209	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00318	1	0	5.0	-2.42E+1	6.10E+1	4.53E-2	0.06	0.0016	08/01/08	04/23/09	04/25/09	04/25/09	265	2	
REG08096-00318	1	0	5.0	-5.15E+0	2.91E+1	1.66E-3	0.00	0.0004	08/01/08	03/23/09	03/24/09	03/24/09	234	1	
REG08096-00323	4	8	5.0	-5.15E+0	2.91E+1	1.66E-3	6.79	1.2200	08/01/08	03/23/09	03/24/09	03/24/09	234	1	
REG08096-00324	4	8	5.0	-5.15E+0	2.91E+1	1.66E-3	6.14	1.1000	08/01/08	03/23/09	03/24/09	03/24/09	234	1	

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				A	B	C	Constant	Curve Constant	Constant			Date	Date	Date	Date	Days	Days	
REG08096-00327	1	0	5.0	6930	-1.21E+1	3.25E+1	4.28E-3	0.00	0.0000	0.00	0.0000	07/31/08	04/01/09	04/02/09	04/02/09	244	244	1
REG08096-00327	1	0	5.0	21100	-5.15E+0	2.91E+1	1.66E-3	0.01	0.0006	0.01	0.0006	07/31/08	03/23/09	03/24/09	03/24/09	235	235	1
REG08096-00332	4	7	5.0	25300000	-5.15E+0	2.91E+1	1.66E-3	11.80	2.2000	11.80	2.2000	07/31/08	03/23/09	03/25/09	03/25/09	235	235	2
REG08096-00333	4	7	5.0	24300000	-5.15E+0	2.91E+1	1.66E-3	11.70	2.1800	11.70	2.1800	07/31/08	03/23/09	03/25/09	03/25/09	235	235	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days		
REG08096-00336	1	0	1.0	22800	-1.64E+1	3.30E+1	5.74E-3	0.00	0.0000	0.00	0.0000	0.00	07/16/08	03/31/09	03/31/09	03/31/09	258	258	0	0
REG08096-00336	1	0	5.0	0	-3.72E+0	2.83E+1	-8.26E-3	0.00	0.0000	0.00	0.0000	0.00	07/16/08	03/11/09	03/14/09	03/14/09	238	238	3	3
REG08096-00341	4	7	5.0	16000000	-3.72E+0	2.83E+1	-8.26E-3	11.90	2.2300	11.90	2.2300	2.2300	07/16/08	03/11/09	03/14/09	03/14/09	238	238	3	3
REG08096-00342	4	7	5.0	14900000	-3.72E+0	2.83E+1	-8.26E-3	11.30	2.1100	11.30	2.1100	2.1100	07/16/08	03/11/09	03/14/09	03/14/09	238	238	3	3

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Quant. Factor	Curve			Curve Constant	Curve C	Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn. Days	Extn. Analysis Days
					Constant	A	Response					Date	Date	Date	Days		
REG08096-00345	1	0	0	5.0	19500	-1.64E+1	3.30E+1	5.74E-3	0.00	0.0000	0.00	07/30/08	03/31/09	04/01/09	244	1	
REG08096-00345	1	0	0	5.0	8470	-7.48E+0	2.93E+1	-1.89E-3	0.00	0.0009	0.00	07/30/08	03/12/09	03/14/09	225	2	
REG08096-00350	4	7	7	5.0	11800000	-7.48E+0	2.93E+1	-1.89E-3	7.09	1.3000	7.09	07/30/08	03/12/09	03/14/09	225	2	
REG08096-00351	4	7	7	5.0	11700000	-7.48E+0	2.93E+1	-1.89E-3	7.47	1.3700	7.47	07/30/08	03/12/09	03/14/09	225	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Forage

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Response	Curve A		Curve B		Curve C		Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
						Constant	Response	Constant	Response	Constant	Response			Date	Date	Date	Date	Days	Days
REG08096-00354	1	0	0	5.0	0	-1.18E+2	5.59E+1	-2.17E-3	0.00	0.0000	0.00	0.0000	08/08/08	03/25/09	03/26/09	229	1		
REG08096-00354	1	0	0	5.0	3020	-7.55E+0	4.19E+1	9.61E-3	0.00	0.0000	0.00	0.0000	08/08/08	01/21/09	01/22/09	166	1		
REG08096-00359	4	7	7	10.0	16700000	-1.64E+1	3.30E+1	5.74E-3	5.83	1.9600	5.83	1.9600	08/08/08	03/31/09	04/01/09	235	1		
REG08096-00360	4	7	7	10.0	16800000	-1.64E+1	3.30E+1	5.74E-3	5.86	1.9700	5.86	1.9700	08/08/08	03/31/09	04/01/09	235	1		

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	A	B	C			Date	Date	Date	Date	Days	Days
REG08096-00363	1	0	5.0	8380	6.34E-6	2.92E-2	2.28E-3	0.01	0.0006	0.01	0.0006	08/08/08	12/15/08	12/18/08	129	129	3
REG08096-00368	4	7	10.0	11500000	-2.52E+1	6.62E+1	3.41E-2	15.40	2.5800	15.40	2.5800	08/08/08	04/22/09	04/23/09	257	257	1
REG08096-00369	4	7	10.0	11600000	-2.52E+1	6.62E+1	3.41E-2	14.70	2.4500	14.70	2.4500	08/08/08	04/22/09	04/23/09	257	257	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Forage

Sample ID	Trt	Days		No.	Appl.	Factor	Response	Curve			Constant	Curve	Constant	Response	Area	DCGA	Sampling		Extraction		Analysis	Date	Date	Days	Extn.	Days	Analysis
		Response	A					B	C	Date							Date										
REG08096-00372	1	0	5.0	5.0	104000	-2.52E+1	6.62E+1	3.41E-2	0.06	0.0022	0.0022	07/18/08	04/22/09	04/23/09	04/23/09	278	1										
REG08096-00372	1	0	5.0	5.0	45900	-8.45E+0	2.86E+1	4.20E-3	0.01	0.0006	0.0006	07/18/08	12/02/08	12/04/08	12/04/08	137	2										
REG08096-00377	4	7	100.0	100.0	215000	-2.35E+1	7.06E+1	-2.33E-3	0.25	0.3590	0.3590	07/18/08	05/06/09	05/07/09	05/07/09	292	1										
REG08096-00378	4	7	100.0	100.0	223000	-2.35E+1	7.06E+1	-2.33E-3	0.27	0.3840	0.3840	07/18/08	05/06/09	05/07/09	05/07/09	292	1										

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00381	1	0	5.0	5.0	8490	6.34E-6	2.92E-2	2.28E-3	0.01	0.0009	07/29/08	12/15/08	12/18/08	139	3	3
REG08096-00386	4	7	10.0	10.0	4820000	-2.52E+1	6.62E+1	3.41E-2	4.05	0.6210	07/29/08	04/22/09	04/24/09	267	2	2
REG08096-00387	4	7	10.0	10.0	6070000	-2.52E+1	6.62E+1	3.41E-2	5.49	0.8520	07/29/08	04/22/09	04/24/09	267	2	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	A	B	C			Date	Date	Date	Date	Days	Days
REG08096-00390	1	0	5.0	9950	-7.55E+0	4.19E+1	9.61E-3	0.01	0.0000	0.01	0.0000	08/07/08	01/21/09	01/22/09	01/22/09	167	1
REG08096-00395	4	7	5.0	14500000	-7.55E+0	4.19E+1	9.61E-3	12.10	1.5300	12.10	1.5300	07/28/08	01/21/09	01/22/09	01/22/09	177	1
REG08096-00396	4	7	5.0	14200000	-7.55E+0	4.19E+1	9.61E-3	11.10	1.4000	11.10	1.4000	07/28/08	01/21/09	01/22/09	01/22/09	177	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				No.	Days	Response	Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00399	1	0	5.0	1	0	2040	-1.07E+1	3.01E+1	4.53E-3	0.00	0.0000	07/28/08	04/07/09	04/09/09	04/09/09	253	2	2
REG08096-00399	1	0	5.0	1	0	2060	-9.04E+0	3.58E+1	-9.64E-3	0.00	0.0017	07/28/08	12/17/08	12/19/08	12/19/08	142	2	2
REG08096-00404	4	8	5.0	4	8	5640000	-9.04E+0	3.58E+1	-9.64E-3	10.10	1.5400	08/07/08	12/17/08	12/19/08	12/19/08	132	2	2
REG08096-00405	4	8	5.0	4	8	5580000	-9.04E+0	3.58E+1	-9.64E-3	10.90	1.6600	08/07/08	12/17/08	12/19/08	12/19/08	132	2	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		DCGA		Sampling		Extraction		Analysis		Samp. to Extn.		Days
				No.	Trt	Days	A	B	C	Ratio	Response	Analyte	ppm	Date	Date	Date	Date	Date	Date	Days	Days	
REG08096-00408	1	0	5.0	7000			-1.07E+1	3.01E+1	4.53E-3	0.00	0.0000	0.00	0.0000	07/18/08	04/07/09	04/09/09	04/09/09	04/09/09	04/09/09	263	2	2
REG08096-00408	1	0	5.0	12400			-3.72E+0	2.83E+1	-8.26E-3	0.01	0.0028	0.01	0.0028	07/18/08	03/11/09	03/13/09	03/13/09	03/13/09	03/13/09	236	2	2
REG08096-00413	4	7	5.0	10400000			-3.72E+0	2.83E+1	-8.26E-3	12.30	2.3100	12.30	2.3100	07/18/08	03/11/09	03/14/09	03/14/09	03/14/09	03/14/09	236	3	3
REG08096-00414	4	7	5.0	9710000			-3.72E+0	2.83E+1	-8.26E-3	11.20	2.1100	11.20	2.1100	07/18/08	03/11/09	03/14/09	03/14/09	03/14/09	03/14/09	236	3	3

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant		Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B			Date	Date	Date	Date	Days	Days		
REG08096-00417	1	0	5.0	5950	-1.07E+1	3.01E+1	4.53E-3	0.00	0.0000	0.00	08/08/08	04/07/09	04/10/09	04/10/09	242	242	3	3
REG08096-00417	1	0	5.0	0	-9.04E+0	3.58E+1	-9.64E-3	0.00	0.0000	0.00	08/08/08	12/17/08	12/19/08	12/19/08	131	131	2	2
REG08096-00422	4	7	10.0	6950000	-1.07E+1	3.01E+1	4.53E-3	4.69	1.6500	4.69	08/08/08	04/07/09	04/10/09	04/10/09	242	242	3	3
REG08096-00423	4	7	10.0	11500000	-1.07E+1	3.01E+1	4.53E-3	7.91	2.9400	7.91	08/08/08	04/07/09	04/10/09	04/10/09	242	242	3	3

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Forage

Sample ID	No.	Trt	Days after Appl.	Factor	Response			Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
					No.	Trt	Days after Appl.	Factor	Response	A	B	C	Constant	Curve	Date	Date	Date	Date	Days	Days
REG08096-00426	1	0	0	5.0	5230					-2.84E+1	6.71E+1	1.26E-2	0.01	0.0000	08/08/08	04/06/09	04/06/09	241	241	0
REG08096-00426	1	0	0	5.0	2660					-9.04E+0	3.58E+1	-9.64E-3	0.00	0.0017	08/08/08	12/17/08	12/19/08	131	131	2
REG08096-00426	1	0	0	5.0	384000					-9.04E+0	3.58E+1	-9.64E-3	0.29	0.0425	08/08/08	12/17/08	12/19/08	131	131	2
REG08096-00426	1	0	0	5.0	13000					-3.03E+0	2.91E+1	1.15E-2	0.00	0.0000	08/08/08	04/27/09	04/27/09	262	262	0
REG08096-00431	4	7	7	10.0	7720000					-2.84E+1	6.71E+1	1.26E-2	16.40	2.7600	08/08/08	04/06/09	04/06/09	241	241	0
REG08096-00432	4	7	7	10.0	5710000					-2.84E+1	6.71E+1	1.26E-2	11.50	1.8500	08/08/08	04/06/09	04/06/09	241	241	0

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve			Area		DCGA Analyte	Sampling Extraction		Analysis		Samp. to Extn.	
					Response	A	B	Constant	Curve	Constant	Ratio	Response		ppm	Date	Date	Days	Days	
REG08096-00435	1	0	5.0	5.0	13400	6.34E-6	2.92E-2	2.28E-3	0.01	0.0017	07/31/08	12/15/08	12/17/08	137	2				
REG08096-00440	4	7	10.0	10.0	10700000	-2.84E+1	6.71E+1	1.26E-2	22.40	4.0100	07/31/08	04/06/09	04/07/09	249	1				
REG08096-00441	4	7	10.0	10.0	11100000	-2.84E+1	6.71E+1	1.26E-2	22.20	3.9800	07/31/08	04/06/09	04/07/09	249	1				

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant		Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Ratio	Date		Date	Days	Days			
REG08096-00444	1	0	5.0	11300	-7.55E+0	4.19E+1	9.61E-3	0.00	0.0000	08/07/08	01/21/09	01/22/09	167	1			
REG08096-00449	4	10	10.0	7870000	-2.84E+1	6.71E+1	1.26E-2	10.60	1.7000	08/07/08	04/06/09	04/07/09	242	1			
REG08096-00450	4	10	10.0	8620000	-2.84E+1	6.71E+1	1.26E-2	12.00	1.9400	08/07/08	04/06/09	04/07/09	242	1			

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B	C			Date	Date	Date	Date	Days	Days		
REG08096-00485	1	0	5.0	6680	5.01E+1	1.04E-2	-2.64E+1	5.01E+1	1.04E-2	0.00	0.0000	07/18/08	02/04/09	02/05/09	02/05/09	201	201	1	1
REG08096-00485	1	0	5.0	8780	2.91E+1	1.15E-2	-3.03E+0	2.91E+1	1.15E-2	0.00	0.0000	07/18/08	04/27/09	04/28/09	04/28/09	283	283	1	1
REG08096-00490	4	15	10.0	13100000	6.17E+1	1.47E-2	-3.10E+1	6.17E+1	1.47E-2	10.90	1.9500	07/18/08	04/08/09	04/10/09	04/10/09	264	264	2	2
REG08096-00491	4	15	10.0	15200000	6.17E+1	1.47E-2	-3.10E+1	6.17E+1	1.47E-2	13.40	2.4800	07/18/08	04/08/09	04/10/09	04/10/09	264	264	2	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Extn. Days	Analysis Days	
REG08096-00494	1	0	0	5.0	31800	-3.10E+1	6.17E+1	1.47E-2	0.02	0.0008	08/30/08	04/08/09	04/10/09	221	2	
REG08096-00494	1	0	0	5.0	27800	-2.64E+1	5.01E+1	1.04E-2	0.01	0.0004	08/30/08	02/04/09	02/05/09	158	1	
REG08096-00499	4	24	24	5.0	6510000	-2.64E+1	5.01E+1	1.04E-2	4.14	0.4320	08/30/08	02/04/09	02/05/09	158	1	
REG08096-00500	4	24	24	5.0	6350000	-2.64E+1	5.01E+1	1.04E-2	3.64	0.3770	08/30/08	02/04/09	02/05/09	158	1	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Factor	Response			Curve			Area	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	Analysis Days
					A	B	C	Constant	Constant	Constant			Date	Date				
REG08096-00503	1	0	0	5.0	1130	-1.47E+1	5.27E+1	-2.09E-3	0.00	0.0002	08/11/08	02/25/09	02/26/09	198	1			
REG08096-00503	1	0	0	5.0	1600	-1.75E+0	2.92E+1	1.47E-3	0.00	0.0000	08/11/08	03/17/09	03/17/09	218	0			
REG08096-00508	4	17	10.0	19800000		-3.10E+1	6.17E+1	1.47E-2	18.90	3.7700	08/11/08	04/08/09	04/10/09	240	2			
REG08096-00509	4	17	10.0	19300000		-3.10E+1	6.17E+1	1.47E-2	18.40	3.6500	08/11/08	04/08/09	04/10/09	240	2			

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve		Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Response	Constant	Curve Constant	Constant	Curve Constant			Date	Date	Date	Days	Days	Days
REG08096-00512	1	0	5.0	5150	-6.50E+0	3.70E+1	9.03E-3	0.00	0.0000	0.00	08/16/08	01/06/09	01/07/09	143	1	
REG08096-00512	1	0	5.0	22900	-1.80E+0	2.75E+1	8.25E-3	0.01	0.0005	0.01	08/16/08	04/14/09	04/15/09	241	1	
REG08096-00517	4	18	50.0	7360000	-1.80E+0	2.75E+1	8.25E-3	3.43	6.2600	3.43	08/16/08	04/14/09	04/15/09	241	1	
REG08096-00518	4	18	50.0	7500000	-1.80E+0	2.75E+1	8.25E-3	3.20	5.8300	3.20	08/16/08	04/14/09	04/15/09	241	1	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Quant.	Response			Curve Constant		Area Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				No.	Appl.	Factor	A	B			Date	Date	Date	Date	Days	Days
REG08096-00521	1	0	5.0	0		5.0	-2.64E+1	5.01E+1	1.04E-2	0.00	0.0000	08/04/08	02/04/09	02/05/09	184	1
REG08096-00526	4	21	5.0	7210000		5.0	-2.64E+1	5.01E+1	1.04E-2	4.03	0.4200	08/04/08	02/04/09	02/05/09	184	1
REG08096-00527	4	21	5.0	10400000		5.0	-2.64E+1	5.01E+1	1.04E-2	7.09	0.7680	08/04/08	02/04/09	02/05/09	184	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		DCGA		Sampling Extraction		Analysis		Samp. to Extn.	
				No.	Days	Response	Constant	Curve	Constant	Ratio	Response	Analyte	ppm	Date	Date	Date	Days	Days	Days
REG08096-00530	1	0	5.0	4510			-1.47E+1	5.27E+1	-2.09E-3	0.00		0.0005		08/15/08	02/25/09	02/26/09	194	1	
REG08096-00535	4	18	5.0	8270000			-1.47E+1	5.27E+1	-2.09E-3	13.10		1.3400		08/15/08	02/25/09	02/26/09	194	1	
REG08096-00536	4	18	5.0	8020000			-1.47E+1	5.27E+1	-2.09E-3	13.80		1.4200		08/15/08	02/25/09	02/26/09	194	1	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant		Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				A	B	C	A	B			Date	Date	Date	Date	Days	Days	
REG08096-00539	1	0	5.0	33300	-2.35E+1	7.06E+1	-2.33E-3	0.03	0.0020	0.0020	08/23/08	05/06/09	05/06/09	05/06/09	256	0	0
REG08096-00539	1	0	5.0	0	-7.89E+0	3.67E+1	9.27E-4	0.00	0.0000	0.0000	08/23/08	01/15/09	01/17/09	01/17/09	145	2	2
REG08096-00544	4	15	100.0	4200000	-1.80E+0	2.75E+1	8.25E-3	1.78	6.4700	6.4700	08/23/08	04/14/09	04/15/09	04/15/09	234	1	1
REG08096-00545	4	15	10.0	19100000	-1.80E+0	2.75E+1	8.25E-3	12.50	4.6600	4.6600	08/23/08	04/14/09	04/15/09	04/15/09	234	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Curve			Curve		Area	DCGA	Sampling		Extraction		Analysis		Samp. to Extn.			
				Response	Constant	A	Constant	B			Constant	C	Ratio	Analyte	ppm	Date	Date	Date	Days	Days
REG08096-00548	1	0	0	5.0	0	-7.89E+0	3.67E+1	9.27E-4	0.00	0.0000	08/14/08	01/15/09	01/17/09	01/17/09	154	2				
REG08096-00548	1	0	0	5.0	48700	-6.43E+0	3.05E+1	8.36E-3	0.01	0.0007	08/14/08	04/20/09	04/21/09	04/21/09	249	1				
REG08096-00553	4	21	5.0	4590000	-7.89E+0	3.67E+1	9.27E-4	7.81	1.1200	08/14/08	01/15/09	01/17/09	01/17/09	154	2					
REG08096-00554	4	21	5.0	5370000	-7.89E+0	3.67E+1	9.27E-4	10.20	1.4900	08/14/08	01/15/09	01/17/09	01/17/09	154	2					

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve		Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days
				Constant A	Constant B			Date	Date			
REG08096-00557	1	0	5.0	-6.50E+0	3.70E+1	0.00	0.0000	08/11/08	01/06/09	01/07/09	148	1
REG08096-00557	1	0	5.0	-6.43E+0	3.05E+1	0.01	0.0000	08/11/08	04/20/09	04/21/09	252	1
REG08096-00562	4	18	5.0	-6.50E+0	3.70E+1	9.95	1.4100	08/11/08	01/06/09	01/07/09	148	1
REG08096-00563	4	18	5.0	-6.50E+0	3.70E+1	9.35	1.3200	08/11/08	01/06/09	01/07/09	148	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00566	1	0	5.0	5.0	5510	-4.89E+0	2.95E+1	-2.97E-3	0.00	0.0011	07/29/08	03/11/09	03/13/09	03/13/09	225	2
REG08096-00571	4	20	5.0	5.0	9850000	-4.89E+0	2.95E+1	-2.97E-3	11.20	2.0200	07/29/08	03/11/09	03/13/09	03/13/09	225	2
REG08096-00572	4	20	5.0	5.0	9810000	-4.89E+0	2.95E+1	-2.97E-3	10.80	1.9500	07/29/08	03/11/09	03/13/09	03/13/09	225	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Factor	Response			Curve		Area	DCGA Analyte	Sampling Extraction		Analysis		Samp. to Extn.	
					Constant	A	Response	Constant	B			Constant	C	Date	Date	Date	Days
REG08096-00575	1	0	0	5.0	2500	-6.50E+0	3.70E+1	9.03E-3	0.00	0.0000	08/06/08	01/06/09	01/07/09	153	1		
REG08096-00575	1	0	0	5.0	35000	-6.43E+0	3.05E+1	8.36E-3	0.01	0.0000	08/06/08	04/20/09	04/22/09	257	2		
REG08096-00580	4	14	14	50.0	8800000	-6.43E+0	3.05E+1	8.36E-3	2.11	3.4900	08/06/08	04/20/09	04/22/09	257	2		
REG08096-00581	4	14	14	5.0	16200000	-6.50E+0	3.70E+1	9.03E-3	16.30	2.4100	08/06/08	01/06/09	01/07/09	153	1		

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00584	1	0	5.0	21300	-4.87E+0	3.04E+1	1.06E-2	0.01	0.0000	08/18/08	04/14/09	04/14/09	04/14/09	239	0
REG08096-00584	1	0	5.0	1210	1.79E+0	2.82E+1	3.57E-3	0.00	0.0000	08/18/08	03/09/09	03/10/09	03/10/09	203	1
REG08096-00589	4	17	5.0	10200000	1.79E+0	2.82E+1	3.57E-3	13.50	2.3300	08/18/08	03/09/09	03/10/09	03/10/09	203	1
REG08096-00590	4	17	5.0	9330000	1.79E+0	2.82E+1	3.57E-3	11.50	1.9800	08/18/08	03/09/09	03/10/09	03/10/09	203	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
					A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days	
REG08096-00593	1	0	5.0	5.0	16500	-4.87E+0	3.04E+1	1.06E-2	0.00	0.0000	0.00	0.0000	0.00	08/19/08	04/14/09	04/15/09	04/15/09	238	238	1
REG08096-00593	1	0	5.0	5.0	6710	1.79E+0	2.82E+1	3.57E-3	0.00	0.0000	0.00	0.0000	0.00	08/19/08	03/09/09	03/10/09	03/10/09	202	202	1
REG08096-00598	4	18	5.0	5.0	10600000	1.79E+0	2.82E+1	3.57E-3	11.70	2.0200	11.70	2.0200	2.0200	08/19/08	03/09/09	03/10/09	03/10/09	202	202	1
REG08096-00599	4	18	10.0	10.0	23400000	-4.87E+0	3.04E+1	1.06E-2	11.80	4.1500	11.80	4.1500	4.1500	08/19/08	04/14/09	04/15/09	04/15/09	238	238	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				No.	Days	Response	Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00602	1	0	5.0	6880			-5.17E+0	2.98E+1	9.04E-3	0.00	0.0000	07/30/08	04/23/09	04/25/09	04/25/09	267	2
REG08096-00602	1	0	5.0	0			-4.99E+0	3.10E+1	3.87E-3	0.00	0.0000	07/30/08	04/16/09	04/18/09	04/18/09	260	2
REG08096-00602	1	0	5.0	4080			-4.89E+0	2.95E+1	-2.97E-3	0.00	0.0010	07/30/08	03/11/09	03/13/09	03/13/09	224	2
REG08096-00607	4	19	5.0	5410000			-4.89E+0	2.95E+1	-2.97E-3	4.44	0.7720	07/30/08	03/11/09	03/13/09	03/13/09	224	2
REG08096-00608	4	19	5.0	4860000			-4.89E+0	2.95E+1	-2.97E-3	4.07	0.7060	07/30/08	03/11/09	03/13/09	03/13/09	224	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte	Sampling Extraction		Analysis		Samp. to Extn. Days	Extn. Days
					Constant	A	B			Date	Date	Date	Date		
REG08096-00611	1	0	5.0	0	-4.99E+0	3.10E+1	3.87E-3	0.00	0.0000	08/07/08	04/16/09	04/18/09	252	2	
REG08096-00611	1	0	5.0	0	-2.92E+0	3.25E+1	-3.99E-3	0.00	0.0000	08/07/08	01/22/09	01/24/09	168	2	
REG08096-00616	4	16	50.0	9860000	-4.99E+0	3.10E+1	3.87E-3	2.91	4.7600	08/07/08	04/16/09	04/18/09	252	2	
REG08096-00617	4	16	50.0	10200000	-4.99E+0	3.10E+1	3.87E-3	2.90	4.7400	08/07/08	04/16/09	04/18/09	252	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve		Area		DCGA		Sampling		Extraction		Analysis		Samp. to Extn.	
				No.	Days	Response	Constant	Curve	Constant	Ratio	Analyte	ppm	Date	Date	Date	Date	Days	Days		
REG08096-00620	1	0	5.0	27000	-2.73E+1	7.10E+1	5.39E-3	0.01	0.0005	0.0005	0.0005	08/13/08	04/20/09	04/20/09	04/20/09	250	250	0	0	
REG08096-00620	1	0	5.0	7170	1.79E+0	2.82E+1	3.57E-3	0.00	0.0000	0.0000	0.0000	08/13/08	03/09/09	03/10/09	03/10/09	208	208	1	1	
REG08096-00625	4	14	5.0	8420000	1.79E+0	2.82E+1	3.57E-3	7.59	1.3200	7.59	1.3200	08/04/08	03/09/09	03/10/09	03/10/09	217	217	1	1	
REG08096-00626	4	14	5.0	9420000	1.79E+0	2.82E+1	3.57E-3	8.62	1.5000	8.62	1.5000	08/04/08	03/09/09	03/10/09	03/10/09	217	217	1	1	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				No.	Days	Factor	A	B	C			Date	Date	Date	Date	Days	Days	
REG08096-00629	1	0	5.0	0	5.0	0	-4.99E+0	3.10E+1	3.87E-3	0.00	0.0000	08/04/08	04/16/09	04/18/09	04/18/09	255	2	
REG08096-00629	1	0	5.0	8450	5.0		-2.92E+0	3.25E+1	-3.99E-3	0.00	0.0012	08/04/08	01/22/09	01/25/09	01/25/09	171	3	
REG08096-00634	4	14	10.0	15900000	10.0		-4.99E+0	3.10E+1	3.87E-3	9.89	3.3700	08/13/08	04/16/09	04/19/09	04/19/09	246	3	
REG08096-00635	4	14	10.0	16700000	10.0		-4.99E+0	3.10E+1	3.87E-3	10.60	3.6400	08/13/08	04/16/09	04/19/09	04/19/09	246	3	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Ratio	DCGA Analyte	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant			Date	Date	Days	Days		
REG08096-00638	1	0	5.0	38800	-4.89E+0	2.95E+1	-2.97E-3	0.03	0.0050	0.03	0.0050	07/31/08	03/11/09	03/12/09	223	1	
REG08096-00643	4	20	5.0	1240000	-4.89E+0	2.95E+1	-2.97E-3	0.99	0.1690	0.99	0.1690	07/31/08	03/11/09	03/13/09	223	2	
REG08096-00644	4	20	5.0	1270000	-4.89E+0	2.95E+1	-2.97E-3	1.06	0.1810	1.06	0.1810	07/31/08	03/11/09	03/13/09	223	2	

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	A	B	C			Date	Date	Date	Date	Days	Days
REG08096-00647	1	0	5.0	26100	3.25E+1	-3.99E-3	-2.92E+0	7.10E+1	5.39E-3	0.01	0.0023	08/19/08	01/22/09	01/24/09	01/24/09	156	2
REG08096-00652	4	18	10.0	22000000	7.10E+1	5.39E-3	-2.73E+1	7.10E+1	5.39E-3	26.30	4.4700	08/19/08	04/20/09	04/20/09	04/20/09	244	0
REG08096-00653	4	18	100.0	7060000	7.10E+1	5.39E-3	-2.73E+1	7.10E+1	5.39E-3	2.65	3.7700	08/19/08	04/20/09	04/20/09	04/20/09	244	0

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte		Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant		ppm	Date	Date	Date	Days	Days		
REG08096-00656	1	0	5.0	1210	-1.93E+1	3.88E+1	7.19E-3	0.00	0.0000	0.00	0.0000	08/15/08	01/31/09	01/31/09	169	0		
REG08096-00661	4	14	10.0	17700000	-2.73E+1	7.10E+1	5.39E-3	13.10	2.0000	13.10	2.0000	08/15/08	04/20/09	04/21/09	248	1		
REG08096-00662	4	14	10.0	16600000	-2.73E+1	7.10E+1	5.39E-3	11.20	1.6900	11.20	1.6900	08/15/08	04/20/09	04/21/09	248	1		

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				No.	Days	Response	Constant A	Constant B	Constant C			Date	Date	Date	Days	Days	
REG08096-00665	1	0	5.0	17000	-1.93E+1	3.88E+1	7.19E-3	0.01	0.0002	08/11/08	01/31/09	01/31/09	173	0			
REG08096-00665	1	0	5.0	27700	-5.17E+0	2.98E+1	9.04E-3	0.01	0.0000	08/11/08	04/23/09	04/24/09	255	1			
REG08096-00670	4	18	10.0	16600000	-5.17E+0	2.98E+1	9.04E-3	6.82	2.3900	08/11/08	04/23/09	04/24/09	255	1			
REG08096-00671	4	18	10.0	16600000	-5.17E+0	2.98E+1	9.04E-3	7.01	2.4500	08/11/08	04/23/09	04/24/09	255	1			

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte		Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant		ppm	Date	Date	Date	Days	Days		
REG08096-00674	1	0	5.0	36500	-1.93E+1	3.88E+1	7.19E-3	0.02	0.0017	0.02	0.0017	08/19/08	01/31/09	01/31/09	165	0		
REG08096-00674	1	0	5.0	15900	-5.17E+0	2.98E+1	9.04E-3	0.00	0.0000	0.00	0.0000	08/19/08	04/23/09	04/24/09	247	1		
REG08096-00679	4	22	50.0	12800000	-5.17E+0	2.98E+1	9.04E-3	4.18	7.1800	4.18	7.1800	08/19/08	04/23/09	04/24/09	247	1		
REG08096-00680	4	22	50.0	12500000	-5.17E+0	2.98E+1	9.04E-3	4.27	7.3300	4.27	7.3300	08/19/08	04/23/09	04/24/09	247	1		

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response			DCGA Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days			Analysis Date		
				Response			A			Ratio			ppm			Date			Date			Days			Date		
REG08096-00001	1	0	5.0	0	0	0	-7.10E+0	3.73E+1	1.61E-3	0.00	0.0000	0.00	0.0000	0.0000	0.0000	09/30/08	01/14/09	01/15/09	01/15/09	01/15/09	01/15/09	106	1	106	01/15/09	01/15/09	01/15/09
REG08096-00001	1	0	5.0	9690	9690	9690	-5.03E+0	2.56E+1	1.25E-3	0.01	0.0009	0.01	0.0009	0.0009	0.0009	09/30/08	11/18/08	11/19/08	11/19/08	11/19/08	11/19/08	49	1	49	11/19/08	11/19/08	11/19/08
REG08096-00006	4	89	5.0	111000	111000	111000	-5.03E+0	2.56E+1	1.25E-3	0.04	0.0077	0.04	0.0077	0.0077	0.0077	09/30/08	11/18/08	11/19/08	11/19/08	11/19/08	11/19/08	49	1	49	11/19/08	11/19/08	11/19/08
REG08096-00007	4	89	5.0	118000	118000	118000	-5.03E+0	2.56E+1	1.25E-3	0.03	0.0060	0.03	0.0060	0.0060	0.0060	09/30/08	11/18/08	11/19/08	11/19/08	11/19/08	11/19/08	49	1	49	11/19/08	11/19/08	11/19/08

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00010	1	0	5.0	26200	-4.53E+0	2.72E+1	1.80E-4	0.01	0.0017	10/22/08	12/01/08	12/03/08	40	2	
REG08096-00015	4	77	5.0	1760000	-4.53E+0	2.72E+1	1.80E-4	0.69	0.1270	10/22/08	12/01/08	12/03/08	40	2	
REG08096-00016	4	77	5.0	1990000	-4.53E+0	2.72E+1	1.80E-4	0.73	0.1360	10/22/08	12/01/08	12/03/08	40	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days		
REG08096-00019	1	0	5.0	160	4.81E+1	4.61E-3	-1.98E+1	4.81E+1	4.61E-3	0.00	0.00	0.0000	10/13/08	01/29/09	12/10/08	12/10/08	108	56	0	2
REG08096-00019	1	0	5.0	5920	3.21E+1	9.83E-3	-4.70E+0	3.21E+1	9.83E-3	0.00	0.00	0.0000	10/13/08	12/08/08	12/10/08	12/10/08	56	56	2	2
REG08096-00024	4	80	5.0	284000	3.21E+1	9.83E-3	-4.70E+0	3.21E+1	9.83E-3	0.09	0.09	0.0121	10/13/08	12/08/08	12/10/08	12/10/08	56	56	2	2
REG08096-00025	4	80	5.0	312000	3.21E+1	9.83E-3	-4.70E+0	3.21E+1	9.83E-3	0.09	0.09	0.0125	10/13/08	12/08/08	12/10/08	12/10/08	56	56	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Seed

Sample ID	No.	Trt	Days		Response	Curve		Constant	Curve	Area	Response	DCGA Analyte	Sampling Extraction		Analysis Date	Samp. to Extn.	
			Appl.	Factor		Constant	Constant						Date	Date		Days	Days
REG08096-00028	1	0	0	5.0	13700	-1.27E+1	4.39E+1	5.48E-4	0.01	0.0008	0.01	0.0008	11/01/08	01/12/09	01/12/09	72	0
REG08096-00028	1	0	0	5.0	17000	-3.03E+0	2.91E+1	1.15E-2	0.01	0.0000	0.01	0.0000	11/01/08	04/27/09	04/27/09	177	0
REG08096-00028	1	0	0	5.0	38700	-1.75E+0	2.92E+1	1.47E-3	0.01	0.0016	0.01	0.0016	11/01/08	03/17/09	03/17/09	136	0
REG08096-00033	4	95	95	5.0	151000	-1.27E+1	4.39E+1	5.48E-4	0.16	0.0177	0.16	0.0177	11/01/08	01/12/09	01/12/09	72	0
REG08096-00034	4	95	95	5.0	176000	-1.27E+1	4.39E+1	5.48E-4	0.12	0.0141	0.12	0.0141	11/01/08	01/12/09	01/12/09	72	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days		
REG08096-00037	1	0	5.0	8030			-5.03E+0	2.56E+1	1.25E-3		0.00	0.0004	10/17/08	11/18/08	11/19/08	11/19/08	32	32	1	1
REG08096-00042	4	95	5.0	129000			-5.03E+0	2.56E+1	1.25E-3		0.09	0.0179	10/17/08	11/18/08	11/20/08	11/20/08	32	32	2	2
REG08096-00043	4	95	5.0	153000			-5.03E+0	2.56E+1	1.25E-3		0.05	0.0101	10/17/08	11/18/08	11/20/08	11/20/08	32	32	2	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant	Ratio	Ratio		Date	Date	Days	Days		
REG08096-00046	1	0	5.0	0	3.21E+1	9.83E-3	-4.70E+0	3.21E+1	9.83E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	59	59	2	
REG08096-00051	4	74	5.0	440000	3.21E+1	9.83E-3	-4.70E+0	3.21E+1	9.83E-3	0.18	0.0261	10/10/08	12/08/08	12/10/08	59	59	2	
REG08096-00052	4	74	5.0	408000	3.21E+1	9.83E-3	-4.70E+0	3.21E+1	9.83E-3	0.16	0.0235	10/10/08	12/08/08	12/10/08	59	59	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00055	1	0	5.0	-5.03E+0	2.56E+1	1.25E-3	0.00	0.0006	10/20/08	11/18/08	11/20/08	11/20/08	29	29	2
REG08096-00060	4	73	5.0	-5.03E+0	2.56E+1	1.25E-3	0.20	0.0381	10/20/08	11/18/08	11/20/08	11/20/08	29	29	2
REG08096-00061	4	73	5.0	-5.03E+0	2.56E+1	1.25E-3	0.26	0.0508	10/20/08	11/18/08	11/20/08	11/20/08	29	29	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		DCGA		Sampling Extraction		Analysis		Samp. to Extn.		Days
				No.	Days	Response	Constant	Curve	Constant	Response	Ratio	Analyte	ppm	Date	Date	Date	Date	Days	Days	
REG08096-00064	1	0	5.0	273			-1.94E+1	4.82E+1	1.12E-2	0.00	0.0000	0.00	0.0000	10/27/08	02/10/09	02/11/09	02/11/09	106	106	1
REG08096-00064	1	0	5.0	8140			-1.08E+1	4.66E+1	-8.31E-3	0.01	0.0020	0.01	0.0020	10/27/08	01/15/09	01/16/09	01/16/09	80	80	1
REG08096-00064	1	0	5.0	9510			-8.13E+0	3.33E+1	5.19E-3	0.00	0.0000	0.00	0.0000	10/27/08	12/09/08	12/11/08	12/11/08	43	43	2
REG08096-00069	4	95	5.0	243000			-1.94E+1	4.82E+1	1.12E-2	0.11	0.0106	0.11	0.0106	10/27/08	02/10/09	02/11/09	02/11/09	106	106	1
REG08096-00070	4	95	5.0	206000			-1.94E+1	4.82E+1	1.12E-2	0.10	0.0092	0.10	0.0092	10/27/08	02/10/09	02/11/09	02/11/09	106	106	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant	Ratio	Ratio		Date	Date	Days	Days		
REG08096-00073	1	0	5.0	1570	-1.48E+1	4.44E+1	-2.74E-3	0.00	0.0007	10/09/08	03/05/09	03/06/09	147	1				
REG08096-00078	4	77	5.0	67500	-1.48E+1	4.44E+1	-2.74E-3	0.14	0.0159	10/09/08	03/05/09	03/06/09	147	1				
REG08096-00079	4	77	5.0	71200	-1.48E+1	4.44E+1	-2.74E-3	0.14	0.0155	10/09/08	03/05/09	03/06/09	147	1				

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days	
REG08096-00082	1	0	5.0	9750			-4.70E+0	3.21E+1	9.83E-3		0.00	0.0000	10/02/08	12/08/08	12/10/08	12/10/08	67	67	2
REG08096-00087	4	85	5.0	111000			-4.70E+0	3.21E+1	9.83E-3		0.05	0.0056	10/02/08	12/08/08	12/10/08	12/10/08	67	67	2
REG08096-00088	4	85	5.0	111000			-4.70E+0	3.21E+1	9.83E-3		0.05	0.0064	10/02/08	12/08/08	12/10/08	12/10/08	67	67	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Seed

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio		DCGA Analyte ppm	Sampling Extraction Date		Analysis Date		Samp. to Extn. Days	
					No.	Trt	Days after Appl.	Quant. Factor	Response	A	B	C	Ratio	ppm	Date	Date	Date	Days	Days
REG08096-00091	1	0	5.0	5.0	59700					-4.53E+0	2.72E+1	1.80E-4	0.02	0.0031	10/19/08	12/01/08	12/03/08	43	2
REG08096-00096	4	88	5.0	5.0	1200000					-4.53E+0	2.72E+1	1.80E-4	0.34	0.0618	10/19/08	12/01/08	12/03/08	43	2
REG08096-00097	4	88	5.0	5.0	1030000					-4.53E+0	2.72E+1	1.80E-4	0.30	0.0555	10/19/08	12/01/08	12/03/08	43	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00100	1	0	5.0	32100	-1.18E+2	5.59E+1	-2.17E-3	0.02	0.0017	10/18/08	03/25/09	03/26/09	158	1
REG08096-00100	1	0	5.0	62	-1.94E+1	4.82E+1	1.12E-2	0.00	0.0000	10/18/08	02/10/09	02/11/09	115	1
REG08096-00100	1	0	5.0	11400	-1.08E+1	4.66E+1	-8.31E-3	0.01	0.0024	10/18/08	01/15/09	01/16/09	89	1
REG08096-00100	1	0	5.0	10900	-8.13E+0	3.33E+1	5.19E-3	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	2
REG08096-00105	4	78	5.0	1040000	-1.94E+1	4.82E+1	1.12E-2	0.43	0.0432	10/18/08	02/10/09	02/11/09	115	1
REG08096-00106	4	78	5.0	1050000	-1.94E+1	4.82E+1	1.12E-2	0.45	0.0452	10/18/08	02/10/09	02/11/09	115	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Curve Constant	Area Response	DCGA Analyte	Sampling Extraction		Analysis		Samp. to Extn. Days	Extn. Days
				Response	A	B				Date	Date	Date	Date		
REG08096-00109	1	0	5.0	19200	-1.94E+1	4.82E+1	1.12E-2	0.01	0.0000	10/18/08	02/10/09	02/11/09	115	1	
REG08096-00109	1	0	5.0	7650	-8.13E+0	3.33E+1	5.19E-3	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	2	
REG08096-00114	4	78	5.0	875000	-1.94E+1	4.82E+1	1.12E-2	0.47	0.0480	10/18/08	02/10/09	02/11/09	115	1	
REG08096-00115	4	78	5.0	1060000	-1.94E+1	4.82E+1	1.12E-2	0.53	0.0539	10/18/08	02/10/09	02/11/09	115	1	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00118	1	0	5.0	-4.53E+0	2.72E+1	1.80E-4	0.00	0.0009	09/30/08	12/01/08	12/03/08	12/03/08	62	2
REG08096-00123	4	81	5.0	-4.53E+0	2.72E+1	1.80E-4	0.07	0.0137	09/30/08	12/01/08	12/03/08	12/03/08	62	2
REG08096-00124	4	81	5.0	-4.53E+0	2.72E+1	1.80E-4	0.09	0.0160	09/30/08	12/01/08	12/03/08	12/03/08	62	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				A	B	C	Constant	Constant	Constant			Date	Date	Date	Date	Days	Days	
REG08096-00127	1	0	5.0	12300	-1.27E+1	4.39E+1	5.48E-4			0.01	0.0010	10/17/08	01/12/09	01/12/09	01/12/09	87	87	0
REG08096-00127	1	0	5.0	40300	-1.75E+0	2.92E+1	1.47E-3			0.01	0.0016	10/17/08	03/17/09	03/17/09	03/17/09	151	151	0
REG08096-00132	4	87	5.0	658000	-1.27E+1	4.39E+1	5.48E-4			0.42	0.0481	10/17/08	01/12/09	01/12/09	01/12/09	87	87	0
REG08096-00133	4	87	5.0	592000	-1.27E+1	4.39E+1	5.48E-4			0.36	0.0409	10/17/08	01/12/09	01/12/09	01/12/09	87	87	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Curve Constant	Area Response	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn. Days	Extn. Days	Analysis Days
				Constant	A	Response				Date	Date	Date	Date			
REG08096-00136	1	0	5.0	1390	-1.48E+1	4.44E+1	-2.74E-3	0.00	0.0006	10/16/08	03/05/09	03/06/09	140	1		
REG08096-00141	4	87	5.0	130000	-1.48E+1	4.44E+1	-2.74E-3	0.26	0.0300	10/16/08	03/05/09	03/06/09	140	1		
REG08096-00142	4	87	5.0	121000	-1.48E+1	4.44E+1	-2.74E-3	0.25	0.0288	10/16/08	03/05/09	03/06/09	140	1		

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	A	B	C			Date	Date	Date	Date	Days	Days
REG08096-00145	1	0	5.0	10300	-1.04E+1	3.00E+1	1.51E-3	0.01	0.0006	0.01	0.0006	10/24/08	12/08/08	12/10/08	12/10/08	45	2
REG08096-00150	4	86	5.0	133000	-1.04E+1	3.00E+1	1.51E-3	0.09	0.0151	0.09	0.0151	10/24/08	12/08/08	12/11/08	12/11/08	45	3
REG08096-00151	4	86	5.0	165000	-1.04E+1	3.00E+1	1.51E-3	0.10	0.0163	0.10	0.0163	10/24/08	12/08/08	12/11/08	12/11/08	45	3

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B	C			Date	Date	Date	Date	Days	Days		
REG08096-00154	1	0	5.0	174	-1.98E+1	4.81E+1	4.61E-3	0.00	0.0000	0.00	0.0000	10/07/08	01/29/09	01/30/09	01/30/09	114	1	1	1
REG08096-00154	1	0	5.0	30400	6.66E-1	2.55E+1	1.98E-3	0.00	0.0002	0.00	0.0002	10/07/08	12/03/08	12/04/08	12/04/08	57	1	1	1
REG08096-00159	4	88	5.0	108000	6.66E-1	2.55E+1	1.98E-3	0.01	0.0011	0.01	0.0011	10/07/08	12/03/08	12/04/08	12/04/08	57	1	1	1
REG08096-00160	4	88	5.0	96100	6.66E-1	2.55E+1	1.98E-3	0.01	0.0013	0.01	0.0013	10/07/08	12/03/08	12/04/08	12/04/08	57	1	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Seed

Sample ID	No.	Trt	Days after Appl.	Factor	Response			Curve			Area		DCGA		Sampling		Extraction		Analysis		Samp. to Extn.	
					No.	Days	Factor	Response	A	B	C	Ratio	ppm	Date	Date	Date	Date	Days	Days	Days	Days	
REG08096-00163	1	0	5.0	0			-1.04E+1	3.00E+1	1.51E-3	0.00	0.0000	10/16/08	12/08/08	12/11/08	53	53	3	3				
REG08096-00168	4	76	5.0	598000			-1.04E+1	3.00E+1	1.51E-3	0.34	0.0566	10/16/08	12/08/08	12/11/08	53	53	3	3				
REG08096-00169	4	76	5.0	542000			-1.04E+1	3.00E+1	1.51E-3	0.31	0.0510	10/16/08	12/08/08	12/11/08	53	53	3	3				

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio		DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant	Ratio	Ratio		Date	Date	Days	Days		
REG08096-00172	1	0	5.0	33500	6.66E-1	2.55E+1	1.98E-3	0.00	0.0003	0.00	0.0003	10/28/08	12/03/08	12/05/08	36	2		
REG08096-00177	4	88	5.0	259000	6.66E-1	2.55E+1	1.98E-3	0.03	0.0048	0.03	0.0048	10/28/08	12/03/08	12/05/08	36	2		
REG08096-00178	4	88	5.0	247000	6.66E-1	2.55E+1	1.98E-3	0.03	0.0051	0.03	0.0051	10/28/08	12/03/08	12/05/08	36	2		

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio		DCGA Analyte ppm		Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Extn. Analysis Days
				No.	Days	Response	A	B	C	Ratio	Ratio	Analyte	ppm	Date	Date	Date	Date	Days	Days	
REG08096-00181	1	0	5.0	785			-1.48E+1	4.44E+1	-2.74E-3	0.00	0.00	0.0005		10/16/08	03/05/09	03/06/09	03/06/09	140	140	1
REG08096-00186	4	85	5.0	345000			-1.48E+1	4.44E+1	-2.74E-3	0.63	0.63	0.0720		10/17/08	03/05/09	03/06/09	03/06/09	139	139	1
REG08096-00187	4	85	5.0	305000			-1.48E+1	4.44E+1	-2.74E-3	0.57	0.57	0.0647		10/17/08	03/05/09	03/06/09	03/06/09	139	139	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: WI-2, Fitchburg
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00190	1	0	5.0	31700	6.66E-1	2.55E+1	1.98E-3	0.00	0.0002	11/03/08	12/03/08	12/05/08	30	2	
REG08096-00195	4	98	5.0	138000	6.66E-1	2.55E+1	1.98E-3	0.01	0.0022	11/03/08	12/03/08	12/05/08	30	2	
REG08096-00196	4	98	5.0	118000	6.66E-1	2.55E+1	1.98E-3	0.01	0.0020	11/03/08	12/03/08	12/05/08	30	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00255	1	0	5.0	-2.06E+0	8.09E+0	1.95E-3	0.00	0.0007	07/10/08	04/01/09	04/03/09	04/03/09	265	2
REG08096-00255	1	0	5.0	-1.96E+0	9.12E+0	1.39E-3	0.01	0.0064	07/10/08	08/14/09	08/14/09	08/14/09	400	0
REG08096-00255	1	0	5.0	-1.60E+0	8.30E+0	1.03E-3	0.00	0.0006	07/10/08	03/23/09	03/25/09	03/25/09	256	2
REG08096-00260	4	7	250.0	-1.96E+0	9.12E+0	1.39E-3	0.73	20.2000	07/10/08	08/14/09	08/15/09	08/15/09	400	1
REG08096-00261	4	7	50.0	-2.06E+0	8.09E+0	1.95E-3	2.57	17.4000	07/10/08	04/01/09	04/03/09	04/03/09	265	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCSA Analyte		Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant		ppm	Date	Date	Days	Days			
REG08096-00264	1	0	5.0	54500	-2.24E+0	8.57E+0	1.46E-4	0.01	0.0033	0.01	0.0033	08/14/08	03/11/09	03/13/09	209	209	2	
REG08096-00264	1	0	5.0	14800	-1.11E+0	7.76E+0	4.44E-3	0.00	0.0000	0.00	0.0000	08/14/08	04/01/09	04/03/09	230	230	2	
REG08096-00269	4	8	250.0	13500000	-1.96E+0	9.12E+0	1.39E-3	1.68	47.9000	1.68	47.9000	08/14/08	08/14/09	08/15/09	365	365	1	
REG08096-00270	4	8	500.0	8510000	-1.75E+0	8.84E+0	3.76E-3	0.81	46.2000	0.81	46.2000	08/14/08	04/23/09	04/25/09	252	252	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Forage

Sample ID	Trt No.	Days		Response	Curve Constant		Curve C	Area Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn. Days
		No.	after Appl.		A	B				Date	Date	Date	Days	
REG08096-00273	1	0	5.0	26500	-2.56E+0	8.71E+0	1.86E-3	0.00	0.0004	08/01/08	05/06/09	05/07/09	278	1
REG08096-00273	1	0	5.0	23200	-2.39E+0	8.47E+0	5.28E-4	0.00	0.0011	08/01/08	03/12/09	03/14/09	223	2
REG08096-00273	1	0	5.0	0	-1.88E+0	7.80E+0	1.29E-3	0.00	0.0000	08/01/08	01/07/09	01/08/09	159	1
REG08096-00278	4	7	50.0	8850000	-1.11E+0	7.76E+0	4.44E-3	1.97	13.2000	08/01/08	04/01/09	04/03/09	243	2
REG08096-00279	4	7	50.0	8870000	-1.11E+0	7.76E+0	4.44E-3	2.00	13.3000	08/01/08	04/01/09	04/03/09	243	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant		Curve C	Area Response		DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B		A	B		Ratio			Date		Date		Days	Days
REG08096-00282	1	0	5.0	10800	-1.60E+0	8.30E+0	1.03E-3	0.00	0.0000	0.00	0.0000	0.0000	08/06/08	03/23/09	03/25/09	03/25/09	229	2
REG08096-00287	4	8	50.0	12800000	-1.75E+0	8.84E+0	3.76E-3	1.61	9.4500	1.61	9.4500	9.4500	08/06/08	04/23/09	04/25/09	04/25/09	260	2
REG08096-00288	4	8	50.0	12900000	-1.75E+0	8.84E+0	3.76E-3	1.63	9.5400	1.63	9.5400	9.5400	08/06/08	04/23/09	04/25/09	04/25/09	260	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days		
REG08096-00291	1	0	5.0	44600	-7.89E-1	8.41E+0	-1.27E-4	0.00	0.0025	0.00	0.0025	0.0025	07/21/08	03/16/09	03/17/09	03/17/09	238	238	1	1
REG08096-00291	1	0	5.0	9940	-6.70E-1	9.25E+0	2.91E-3	0.00	0.0000	0.00	0.0000	0.0000	07/21/08	12/02/08	12/03/08	12/03/08	134	134	1	1
REG08096-00296	4	7	50.0	8670000	-1.11E+0	7.76E+0	4.44E-3	1.95	13.0000	1.95	13.0000	13.0000	07/21/08	04/01/09	04/03/09	04/03/09	254	254	2	2
REG08096-00297	4	7	50.0	8560000	-1.11E+0	7.76E+0	4.44E-3	1.87	12.5000	1.87	12.5000	12.5000	07/21/08	04/01/09	04/03/09	04/03/09	254	254	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Forage

Sample ID	No.	Trt	Days after Appl.	Factor	Curve			Constant	Curve	Area	Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	Extn. Days	Analysis Days
					Response	A	B						Constant	Date	Date				
REG08096-00300	1	0	0	5.0	43000	-7.89E-1	8.41E+0	-1.27E-4		0.00	0.0024		08/05/08	03/16/09	03/17/09	223	1		
REG08096-00300	1	0	0	5.0	62500	-6.70E-1	9.25E+0	2.91E-3		0.01	0.0031		08/05/08	12/02/08	12/04/08	119	2		
REG08096-00300	1	0	0	5.0	34200	-4.03E-1	7.64E+0	1.34E-3		0.00	0.0011		08/05/08	04/06/09	04/07/09	244	1		
REG08096-00305	4	8	8	50.0	13700000	-4.03E-1	7.64E+0	1.34E-3		1.90	12.6000		08/05/08	04/06/09	04/07/09	244	1		
REG08096-00306	4	8	8	50.0	14200000	-4.03E-1	7.64E+0	1.34E-3		1.99	13.2000		08/05/08	04/06/09	04/07/09	244	1		

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				A	B	C	Constant	Curve	Constant			Date	Date	Date	Date	Days	Days	
REG08096-00309	1	0	5.0	50700	-2.39E+0	8.47E+0	5.28E-4			0.00	0.0024	08/15/08	03/12/09	03/14/09	03/14/09	209	2	
REG08096-00309	1	0	5.0	47600	-1.88E+0	7.80E+0	1.29E-3			0.01	0.0029	08/15/08	01/07/09	01/08/09	01/08/09	145	1	
REG08096-00314	4	7	50.0	16700000	-4.03E-1	7.64E+0	1.34E-3			2.41	16.0000	08/15/08	04/06/09	04/07/09	04/07/09	234	1	
REG08096-00315	4	7	50.0	15600000	-4.03E-1	7.64E+0	1.34E-3			2.11	14.0000	08/15/08	04/06/09	04/07/09	04/07/09	234	1	

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Extn. Days	Analysis Days	
REG08096-00318	1	0	5.0	-1.75E+0	8.84E+0	3.76E-3	0.00	0.0000	08/01/08	04/23/09	04/25/09	04/25/09	265	2	
REG08096-00318	1	0	5.0	-4.03E-1	7.64E+0	1.34E-3	0.00	0.0006	08/01/08	04/06/09	04/07/09	04/07/09	248	1	
REG08096-00318	1	0	5.0	5.90E-2	9.83E+0	3.64E-3	0.00	0.0000	08/01/08	12/11/08	12/13/08	12/13/08	132	2	
REG08096-00323	4	8	50.0	-4.03E-1	7.64E+0	1.34E-3	2.68	17.8000	08/01/08	04/06/09	04/07/09	04/07/09	248	1	
REG08096-00324	4	8	50.0	-4.03E-1	7.64E+0	1.34E-3	2.74	18.3000	08/01/08	04/06/09	04/07/09	04/07/09	248	1	

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Extn. Days	Analysis Days	
REG08096-00327	1	0	5.0	-2.06E+0	8.09E+0	1.95E-3	0.00	0.0000	07/31/08	04/01/09	04/02/09	04/02/09	244	244	1
REG08096-00327	1	0	5.0	5.90E-2	9.83E+0	3.64E-3	0.04	0.0165	07/31/08	12/11/08	12/13/08	12/13/08	133	133	2
REG08096-00332	4	7	50.0	-2.06E+0	8.09E+0	1.95E-3	2.82	19.3000	07/31/08	04/01/09	04/02/09	04/02/09	244	244	1
REG08096-00333	4	7	50.0	-2.06E+0	8.09E+0	1.95E-3	2.89	19.9000	07/31/08	04/01/09	04/02/09	04/02/09	244	244	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00336	1	0	5.0	47600	-2.24E+0	8.57E+0	1.46E-4	0.00	0.0026	07/16/08	03/11/09	03/14/09	238	3	
REG08096-00336	1	0	1.0	32200	-1.79E+0	7.61E+0	2.02E-3	0.00	0.0000	07/16/08	03/31/09	03/31/09	258	0	
REG08096-00341	4	7	50.0	16400000	-1.79E+0	7.61E+0	2.02E-3	2.50	17.9000	07/16/08	03/31/09	03/31/09	258	0	
REG08096-00342	4	7	50.0	16700000	-1.79E+0	7.61E+0	2.02E-3	2.54	18.3000	07/16/08	03/31/09	03/31/09	258	0	

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
				A	B	C	Constant	Curve Constant	C			Date	Date	Date	Date	Days	Days		
REG08096-00345	1	0	5.0	46500	-2.39E+0	8.47E+0	5.28E-4	0.00	0.0024	0.00	0.0024	07/30/08	03/12/09	03/14/09	03/14/09	225	2	225	2
REG08096-00345	1	0	5.0	27300	-1.88E+0	7.80E+0	1.29E-3	0.00	0.0017	0.00	0.0017	07/30/08	01/07/09	01/08/09	01/08/09	161	1	161	1
REG08096-00345	1	0	5.0	52000	-1.79E+0	7.61E+0	2.02E-3	0.00	0.0009	0.00	0.0009	07/30/08	03/31/09	04/01/09	04/01/09	244	1	244	1
REG08096-00350	4	7	50.0	13300000	-1.75E+0	8.84E+0	3.76E-3	1.62	9.5200	1.62	9.5200	07/30/08	04/23/09	04/25/09	04/25/09	267	2	267	2
REG08096-00351	4	7	20.0	17900000	-1.79E+0	7.61E+0	2.02E-3	2.86	8.3400	2.86	8.3400	07/30/08	03/31/09	04/01/09	04/01/09	244	1	244	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant		Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	A	B			Date	Date	Date	Date	Days	Days
REG08096-00354	1	0	5.0	1700	-1.39E+0	2.14E-3		7.08E+0	0.00	0.0000	08/08/08	01/21/09	01/22/09	01/22/09	166	1
REG08096-00354	1	0	5.0	23200	-9.39E-1	5.34E-3		7.73E+0	0.00	0.0000	08/08/08	03/25/09	03/26/09	03/26/09	229	1
REG08096-00359	4	7	50.0	14400000	-1.79E+0	2.02E-3		7.61E+0	1.85	12.9000	08/08/08	03/31/09	04/01/09	04/01/09	235	1
REG08096-00360	4	7	50.0	14200000	-1.79E+0	2.02E-3		7.61E+0	1.91	13.4000	08/08/08	03/31/09	04/01/09	04/01/09	235	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve		Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
					Response	A	B	Constant	C			Date	Date	Days	Days		
REG08096-00363	1	0	5.0	5.0	14500	-5.36E-1	7.97E+0	2.05E-3	0.00	0.0000	08/08/08	03/19/09	03/19/09	223	0		
REG08096-00368	4	7	100.0	100.0	9470000	-2.09E+0	9.13E+0	2.19E-3	1.23	13.9000	08/08/08	04/22/09	04/23/09	257	1		
REG08096-00369	4	7	100.0	100.0	9310000	-2.09E+0	9.13E+0	2.19E-3	1.19	13.4000	08/08/08	04/22/09	04/23/09	257	1		

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant		Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	A	B			Date	Date	Date	Date	Days	Days
REG08096-00372	1	0	5.0	57600	-2.09E+0	9.13E+0	2.19E-3	0.00	0.0013	0.00	07/18/08	04/22/09	04/23/09	04/23/09	278	1
REG08096-00372	1	0	5.0	29100	-7.89E-1	8.41E+0	-1.27E-4	0.00	0.0019	0.00	07/18/08	03/16/09	03/16/09	03/16/09	241	0
REG08096-00372	1	0	5.0	131000	-6.70E-1	9.25E+0	2.91E-3	0.02	0.0081	0.02	07/18/08	12/02/08	12/04/08	12/04/08	137	2
REG08096-00377	4	7	100.0	10000000	-2.09E+0	9.13E+0	2.19E-3	1.49	17.0000	1.49	07/18/08	04/22/09	04/24/09	04/24/09	278	2
REG08096-00378	4	7	100.0	9280000	-2.09E+0	9.13E+0	2.19E-3	1.34	15.2000	1.34	07/18/08	04/22/09	04/24/09	04/24/09	278	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00381	1	0	5.0	-5.36E-1	7.97E+0	2.05E-3	0.01	0.0066	07/29/08	03/19/09	03/19/09	03/19/09	233	0	0
REG08096-00381	1	0	5.0	8.31E-8	9.90E-3	2.04E-3	0.01	0.0044	07/29/08	12/15/08	12/18/08	12/18/08	139	3	3
REG08096-00386	4	7	50.0	-2.09E+0	9.13E+0	2.19E-3	1.95	11.3000	07/29/08	04/22/09	04/24/09	04/24/09	267	2	2
REG08096-00387	4	7	50.0	-2.09E+0	9.13E+0	2.19E-3	2.06	11.9000	07/29/08	04/22/09	04/24/09	04/24/09	267	2	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response			Curve Constant			Area Response Ratio	DCSA Analyte ppm		Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Analysis Days
				A	B	C	A	B	C										
REG08096-00390	1	0	5.0	58500	-1.39E+0	7.08E+0	-1.39E+0	7.08E+0	2.14E-3	0.00	0.0018	0.0018	08/07/08	01/21/09	01/22/09	01/22/09	167	1	1
REG08096-00395	4	7	50.0	11000000	-1.80E+0	7.96E+0	-1.80E+0	7.96E+0	2.53E-3	1.80	11.9000	11.9000	07/28/08	04/07/09	04/09/09	04/09/09	253	2	2
REG08096-00396	4	7	50.0	10600000	-1.80E+0	7.96E+0	-1.80E+0	7.96E+0	2.53E-3	1.74	11.5000	11.5000	07/28/08	04/07/09	04/09/09	04/09/09	253	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00399	1	0	5.0	-1.80E+0	7.96E+0	2.53E-3	0.00	0.0000	07/28/08	04/07/09	04/09/09	04/09/09	253	2	2
REG08096-00399	1	0	5.0	-9.66E-1	1.05E+1	1.87E-3	0.00	0.0011	07/28/08	12/17/08	12/19/08	12/19/08	142	2	2
REG08096-00404	4	8	50.0	-1.80E+0	7.96E+0	2.53E-3	1.95	13.0000	08/07/08	04/07/09	04/09/09	04/09/09	243	2	2
REG08096-00405	4	8	50.0	-1.80E+0	7.96E+0	2.53E-3	1.96	13.0000	08/07/08	04/07/09	04/09/09	04/09/09	243	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00408	1	0	5.0	-2.24E+0	8.57E+0	1.46E-4	0.01	0.0049	07/18/08	03/11/09	03/13/09	03/13/09	236	236	2
REG08096-00408	1	0	5.0	-1.80E+0	7.96E+0	2.53E-3	0.01	0.0016	07/18/08	04/07/09	04/09/09	04/09/09	263	263	2
REG08096-00413	4	7	50.0	-1.80E+0	7.96E+0	2.53E-3	2.71	18.5000	07/18/08	04/07/09	04/10/09	04/10/09	263	263	3
REG08096-00414	4	7	50.0	-1.80E+0	7.96E+0	2.53E-3	2.64	18.0000	07/18/08	04/07/09	04/10/09	04/10/09	263	263	3

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days		
REG08096-00417	1	0	5.0	-1.80E+0	7.96E+0	2.53E-3	0.00	0.0006	08/08/08	04/07/09	04/10/09	04/10/09	242	242	3	3
REG08096-00417	1	0	5.0	-9.66E-1	1.05E+1	1.87E-3	0.01	0.0038	08/08/08	12/17/08	12/19/08	12/19/08	131	131	2	2
REG08096-00422	4	7	50.0	-1.80E+0	7.96E+0	2.53E-3	1.81	12.0000	08/08/08	04/07/09	04/10/09	04/10/09	242	242	3	3
REG08096-00423	4	7	50.0	-1.80E+0	7.96E+0	2.53E-3	2.09	14.0000	08/08/08	04/07/09	04/10/09	04/10/09	242	242	3	3

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Forage

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00426	1	0	0	5.0	-2.75E+0	9.02E+0	2.67E-5	0.00	0.0012	08/08/08	04/27/09	04/27/09	04/27/09	262	262	0
REG08096-00426	1	0	0	5.0	-1.99E+0	8.16E+0	1.89E-3	0.00	0.0000	08/08/08	04/06/09	04/06/09	04/06/09	241	241	0
REG08096-00426	1	0	0	5.0	-9.66E-1	1.05E+1	1.87E-3	0.01	0.0055	08/08/08	12/17/08	12/17/08	12/19/08	131	131	2
REG08096-00426	1	0	0	5.0	-9.66E-1	1.05E+1	1.87E-3	0.10	0.0488	08/08/08	12/17/08	12/17/08	12/19/08	131	131	2
REG08096-00431	4	7	7	50.0	-1.99E+0	8.16E+0	1.89E-3	2.38	15.8000	08/08/08	04/06/09	04/06/09	04/06/09	241	241	0
REG08096-00432	4	7	7	50.0	-1.99E+0	8.16E+0	1.89E-3	2.30	15.2000	08/08/08	04/06/09	04/06/09	04/06/09	241	241	0

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days
REG08096-00435	1	0	5.0	69800	-5.36E-1	7.97E+0	2.05E-3	0.01	0.0034	0.01	0.0034	0.0034	07/31/08	03/19/09	03/19/09	03/19/09	231	0
REG08096-00440	4	7	50.0	10400000	-1.99E+0	8.16E+0	1.89E-3	2.09	13.7000	2.09	13.7000	13.7000	07/31/08	04/06/09	04/07/09	04/07/09	249	1
REG08096-00441	4	7	50.0	11100000	-1.99E+0	8.16E+0	1.89E-3	2.23	14.7000	2.23	14.7000	14.7000	07/31/08	04/06/09	04/07/09	04/07/09	249	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Quant.	Curve			Curve Constant	Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.		Analysis Days
			Response	Constant A	Constant B				Date	Date	Date	Days	Days		
REG08096-00444	1	0	5.0	33800	-1.39E+0	7.08E+0	2.14E-3	0.00	0.0006	08/07/08	01/21/09	01/22/09	167	1	
REG08096-00449	4	10	50.0	10400000	-1.99E+0	8.16E+0	1.89E-3	2.23	14.7000	08/07/08	04/06/09	04/07/09	242	1	
REG08096-00450	4	10	50.0	12300000	-1.99E+0	8.16E+0	1.89E-3	2.16	14.2000	08/07/08	04/06/09	04/07/09	242	1	

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days	
REG08096-00485	1	0	5.0	18100	-2.75E+0	9.02E+0	2.67E-5	0.00	0.0012	0.00	0.0012	0.00	0.0007	0.00	0.0007	0.00	0.0012	0.00	0.0012
REG08096-00485	1	0	5.0	22100	-1.58E+0	7.07E+0	1.34E-3	0.00	0.0007	0.00	0.0007	0.00	0.0007	0.00	0.0007	0.00	0.0007	0.00	0.0007
REG08096-00490	4	15	100.0	14000000	-1.50E+0	7.74E+0	1.91E-3	2.06	28.2000	2.06	28.2000	2.06	28.2000	2.06	28.2000	2.06	28.2000	2.06	28.2000
REG08096-00491	4	15	100.0	16000000	-1.50E+0	7.74E+0	1.91E-3	2.67	37.1000	2.67	37.1000	2.67	37.1000	2.67	37.1000	2.67	37.1000	2.67	37.1000

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Quant. Factor	Response			Curve			Area		DCSA		Sampling Extraction		Analysis		Samp. to Extn.		Days	Analysis Days
					A	B	C	Constant	Curve	Constant	Response	Ratio	Analyte	ppm	Date	Date	Date	Date	Extn. Days	Days		
REG08096-00494	1	0	0	5.0	110000	-1.58E+0	7.07E+0	1.34E-3			0.01	0.0073	0.0073	0.0073	08/30/08	02/04/09	02/04/09	02/04/09	158	0		
REG08096-00494	1	0	0	5.0	22700	-1.50E+0	7.74E+0	1.91E-3			0.00	0.0000	0.0000	0.0000	08/30/08	04/08/09	04/10/09	04/10/09	221	2		
REG08096-00499	4	24	24	50.0	12800000	-2.56E+0	8.71E+0	1.86E-3			1.86	11.4000	11.4000	11.4000	08/30/08	05/06/09	05/06/09	05/06/09	249	0		
REG08096-00500	4	24	24	50.0	12800000	-1.50E+0	7.74E+0	1.91E-3			1.84	12.5000	12.5000	12.5000	08/30/08	04/08/09	04/10/09	04/10/09	221	2		

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days	Analysis Days
					A	B	C	Constant	Curve	Constant			Date	Date	Date	Date	Days	Days		
REG08096-00503	1	0	0	5.0	30200	-1.43E+0	8.07E+0	1.31E-3	0.00	0.0010	0.00	0.0010	08/11/08	03/17/09	03/17/09	03/17/09	218	218	0	0
REG08096-00503	1	0	0	5.0	30000	-3.50E-2	7.57E+0	2.99E-3	0.00	0.0004	0.00	0.0004	08/11/08	02/25/09	02/26/09	02/26/09	198	198	1	1
REG08096-00508	4	17	100.0	100.0	15100000	-1.50E+0	7.74E+0	1.91E-3	2.43	33.6000	2.43	33.6000	08/11/08	04/08/09	04/10/09	04/10/09	240	240	2	2
REG08096-00509	4	17	100.0	100.0	14100000	-1.50E+0	7.74E+0	1.91E-3	2.19	30.0000	2.19	30.0000	08/11/08	04/08/09	04/10/09	04/10/09	240	240	2	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		DCSA		Sampling		Extraction		Analysis		Samp. to Extn.		Days	Analysis Days
				No.	Days	Response	Constant	A	Constant	B	Constant	C	Ratio	Analyte	ppm	Date	Date	Date	Date	Days	Days		
REG08096-00512	1	0	5.0	0	5.0	0	-1.50E+0	9.99E+0	1.91E-3	0.00	0.0000	0.00	0.0000	08/16/08	01/06/09	01/07/09	01/07/09	01/07/09	01/07/09	143	1	1	1
REG08096-00512	1	0	5.0	32400	5.0	32400	-1.47E+0	7.89E+0	3.15E-3	0.00	0.0000	0.00	0.0000	08/16/08	04/14/09	04/15/09	04/15/09	04/15/09	04/15/09	241	1	1	1
REG08096-00517	4	18	50.0	25600000	50.0	25600000	-1.47E+0	7.89E+0	3.15E-3	3.18	22.0000	3.18	22.0000	08/16/08	04/14/09	04/15/09	04/15/09	04/15/09	04/15/09	241	1	1	1
REG08096-00518	4	18	50.0	25600000	50.0	25600000	-1.47E+0	7.89E+0	3.15E-3	3.28	22.7000	3.28	22.7000	08/16/08	04/14/09	04/15/09	04/15/09	04/15/09	04/15/09	241	1	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve		Area Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
					Response	A	B	Constant	Curve Constant			Date	Date	Days	Days		
REG08096-00521	1	0	5.0	5.0	52800	-1.58E+0	7.07E+0	1.34E-3	0.00	0.0026	08/04/08	02/04/09	02/05/09	184	1		
REG08096-00526	4	21	50.0	50.0	24400000	-1.47E+0	7.89E+0	3.15E-3	2.82	19.2000	08/04/08	04/14/09	04/15/09	253	1		
REG08096-00527	4	21	50.0	50.0	25600000	-1.47E+0	7.89E+0	3.15E-3	2.98	20.4000	08/04/08	04/14/09	04/15/09	253	1		

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	Constant	B	Constant	C	Date			Date	Days	Days			
REG08096-00530	1	0	5.0	62800	-3.50E-2	7.57E+0	2.99E-3	0.01	0.0047	08/15/08	02/25/09	02/26/09	194	1			
REG08096-00535	4	18	50.0	20700000	-1.47E+0	7.89E+0	3.15E-3	1.96	13.1000	08/15/08	04/14/09	04/15/09	242	1			
REG08096-00536	4	18	50.0	22300000	-1.47E+0	7.89E+0	3.15E-3	2.22	14.9000	08/15/08	04/14/09	04/15/09	242	1			

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Hay

Sample ID	No.	Trt	Days		Response	Curve			Area Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
			Appl.	after Quant.		Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00539	1	0	0	5.0	25600	-2.56E+0	8.71E+0	1.86E-3	0.00	0.0005	08/23/08	05/06/09	05/06/09	05/06/09	256	0
REG08096-00539	1	0	0	5.0	18700	-1.18E+0	9.74E+0	2.88E-3	0.01	0.0012	08/23/08	01/15/09	01/17/09	01/17/09	145	2
REG08096-00544	4	15	100.0	100.0	21900000	-1.47E+0	7.89E+0	3.15E-3	2.26	30.3000	08/23/08	04/14/09	04/15/09	04/15/09	234	1
REG08096-00545	4	15	100.0	100.0	20700000	-1.47E+0	7.89E+0	3.15E-3	1.89	25.1000	08/23/08	04/14/09	04/15/09	04/15/09	234	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
					A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days		
REG08096-00548	1	0	0	5.0	44300	-1.65E+0	8.05E+0	1.95E-3	0.00	0.0011	0.00	0.0011	0.0011	08/14/08	04/20/09	04/21/09	04/21/09	249	249	1	1
REG08096-00548	1	0	0	5.0	43300	-1.18E+0	9.74E+0	2.88E-3	0.01	0.0049	0.01	0.0049	0.0049	08/14/08	01/15/09	01/17/09	01/17/09	154	154	2	2
REG08096-00553	4	21	100.0	100.0	18600000	-1.65E+0	8.05E+0	1.95E-3	3.31	45.3000	3.31	45.3000	45.3000	08/14/08	04/20/09	04/21/09	04/21/09	249	249	1	1
REG08096-00554	4	21	100.0	100.0	17700000	-1.65E+0	8.05E+0	1.95E-3	3.09	42.0000	3.09	42.0000	42.0000	08/14/08	04/20/09	04/21/09	04/21/09	249	249	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve			Area Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days	Analysis Days
					A	B	C	Constant	Constant	Constant			Date	Date	Date	Date	Days	Days		
REG08096-00557	1	0	5.0	5.0	104000	-1.65E+0	8.05E+0	1.95E-3	0.01	0.0035	0.01	0.0035	08/11/08	04/20/09	04/21/09	04/21/09	252	252	1	1
REG08096-00557	1	0	5.0	5.0	50600	-1.50E+0	9.99E+0	1.91E-3	0.01	0.0031	0.01	0.0031	08/11/08	01/06/09	01/07/09	01/07/09	148	148	1	1
REG08096-00562	4	18	100.0	100.0	14000000	-1.65E+0	8.05E+0	1.95E-3	2.24	29.6000	2.24	29.6000	08/11/08	04/20/09	04/21/09	04/21/09	252	252	1	1
REG08096-00563	4	18	100.0	100.0	16200000	-1.65E+0	8.05E+0	1.95E-3	2.58	34.5000	2.58	34.5000	08/11/08	04/20/09	04/21/09	04/21/09	252	252	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00566	1	0	0	5.0	88700	-2.13E-1	9.83E+0	4.84E-3	0.02	0.0071	07/29/08	01/26/09	01/27/09	01/27/09	181	1
REG08096-00571	4	20	100.0	100.0	17500000	-2.15E+0	8.04E+0	1.85E-3	3.04	42.7000	07/29/08	04/14/09	04/14/09	04/14/09	259	0
REG08096-00572	4	20	100.0	100.0	13300000	-2.15E+0	8.04E+0	1.85E-3	3.14	44.4000	07/29/08	04/14/09	04/14/09	04/14/09	259	0

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00575	1	0	5.0	-1.65E+0	8.05E+0	1.95E-3	0.00	0.0005	08/06/08	04/20/09	04/22/09	04/22/09	257	257	2
REG08096-00575	1	0	5.0	-1.50E+0	9.99E+0	1.91E-3	0.01	0.0022	08/06/08	01/06/09	01/07/09	01/07/09	153	153	1
REG08096-00580	4	14	50.0	-1.65E+0	8.05E+0	1.95E-3	3.00	20.3000	08/06/08	04/20/09	04/22/09	04/22/09	257	257	2
REG08096-00581	4	14	50.0	-1.65E+0	8.05E+0	1.95E-3	2.54	16.9000	08/06/08	04/20/09	04/22/09	04/22/09	257	257	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00584	1	0	5.0	60600	-2.15E+0	8.04E+0	1.85E-3	0.01	0.0022	08/18/08	04/14/09	04/14/09	239	0	0
REG08096-00584	1	0	5.0	110000	-1.46E+0	8.54E+0	2.00E-4	0.02	0.0113	08/18/08	03/09/09	03/10/09	203	1	1
REG08096-00589	4	17	100.0	17500000	-2.15E+0	8.04E+0	1.85E-3	2.36	32.1000	08/18/08	04/14/09	04/14/09	239	0	0
REG08096-00590	4	17	100.0	12400000	-2.15E+0	8.04E+0	1.85E-3	2.06	27.7000	08/18/08	04/14/09	04/14/09	239	0	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00593	1	0	5.0	5.0	62200	-2.15E+0	8.04E+0	1.85E-3	0.01	0.0022	08/19/08	04/14/09	04/15/09	238	1
REG08096-00593	1	0	5.0	5.0	24800	-1.46E+0	8.54E+0	2.00E-4	0.00	0.0028	08/19/08	03/09/09	03/10/09	202	1
REG08096-00598	4	18	100.0	100.0	20500000	-2.15E+0	8.04E+0	1.85E-3	2.74	38.0000	08/19/08	04/14/09	04/15/09	238	1
REG08096-00599	4	18	100.0	100.0	20400000	-2.15E+0	8.04E+0	1.85E-3	3.13	44.2000	08/19/08	04/14/09	04/15/09	238	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	A	B	C			Date	Date	Date	Date	Days	Days
REG08096-00602	1	0	5.0	89000	-1.27E+0	8.19E+0	1.44E-3	0.01	0.0034	0.01	0.0034	07/30/08	04/16/09	04/18/09	04/18/09	260	2
REG08096-00602	1	0	5.0	84600	-1.22E+0	8.79E+0	3.01E-3	0.01	0.0016	0.01	0.0016	07/30/08	04/23/09	04/25/09	04/25/09	267	2
REG08096-00602	1	0	5.0	169000	-2.13E-1	9.83E+0	4.84E-3	0.03	0.0141	0.03	0.0141	07/30/08	01/26/09	01/27/09	01/27/09	180	1
REG08096-00607	4	19	50.0	18200000	-1.27E+0	8.19E+0	1.44E-3	3.11	20.2000	3.11	20.2000	07/30/08	04/16/09	04/18/09	04/18/09	260	2
REG08096-00608	4	19	50.0	18500000	-1.27E+0	8.19E+0	1.44E-3	3.20	20.9000	3.20	20.9000	07/30/08	04/16/09	04/18/09	04/18/09	260	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Quant. Factor	Curve			Constant	Curve	Area	Response	Ratio	DCSA	Sampling		Extraction		Analysis		Samp. to Extn.
					Response	A	B							Date	Date	Date	Date	Days	Days	
REG08096-00611	1	0	0	5.0	28100	-1.69E+0	9.27E+0	1.92E-3	0.00	0.0010	0.00	0.0010	08/07/08	01/22/09	01/24/09	01/24/09	168	2	2	
REG08096-00611	1	0	0	5.0	57500	-1.27E+0	8.19E+0	1.44E-3	0.00	0.0020	0.00	0.0020	08/07/08	04/16/09	04/18/09	04/18/09	252	2	2	
REG08096-00616	4	16	16	50.0	20200000	-1.27E+0	8.19E+0	1.44E-3	3.77	24.9000	3.77	24.9000	08/07/08	04/16/09	04/18/09	04/18/09	252	2	2	
REG08096-00617	4	16	16	50.0	20100000	-1.27E+0	8.19E+0	1.44E-3	3.72	24.5000	3.72	24.5000	08/07/08	04/16/09	04/18/09	04/18/09	252	2	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00620	1	0	5.0	-1.46E+0	8.54E+0	2.00E-4	0.01	0.0086	08/13/08	03/09/09	03/10/09	03/10/09	208	1
REG08096-00620	1	0	5.0	-1.46E+0	8.05E+0	2.44E-3	0.01	0.0037	08/13/08	04/20/09	04/20/09	04/20/09	250	0
REG08096-00625	4	14	100.0	-1.46E+0	8.05E+0	2.44E-3	2.37	31.2000	08/04/08	04/20/09	04/20/09	04/20/09	259	0
REG08096-00626	4	14	100.0	-1.46E+0	8.05E+0	2.44E-3	2.64	35.0000	08/04/08	04/20/09	04/20/09	04/20/09	259	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.	
				No.	Days	Response	Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00629	1	0	5.0	108000			-1.69E+0	9.27E+0	1.92E-3	0.02	0.0079	08/04/08	01/22/09	01/25/09	01/25/09	171	3
REG08096-00629	1	0	5.0	55200			-1.27E+0	8.19E+0	1.44E-3	0.00	0.0020	08/04/08	04/16/09	04/18/09	04/18/09	255	2
REG08096-00634	4	14	100.0	16600000			-1.27E+0	8.19E+0	1.44E-3	2.74	35.3000	08/13/08	04/16/09	04/19/09	04/19/09	246	3
REG08096-00635	4	14	100.0	16700000			-1.27E+0	8.19E+0	1.44E-3	2.78	36.0000	08/13/08	04/16/09	04/19/09	04/19/09	246	3

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Ratio	DCSA Analyte			Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				A	B	C	A	B	C		ppm	ppm	ppm	Date	Date	Date	Date	Days	Days	
REG08096-00638	1	0	5.0	8470	-2.13E-1	9.83E+0	4.84E-3	0.00	0.0000	0.00	0.0000	0.00	0.0000	07/31/08	01/26/09	01/27/09	01/27/09	179	179	1
REG08096-00643	4	20	100.0	13100000	-1.27E+0	8.19E+0	1.44E-3	2.16	27.5000	2.16	27.5000	2.16	27.5000	07/31/08	04/16/09	04/19/09	04/19/09	259	259	3
REG08096-00644	4	20	100.0	16200000	-1.27E+0	8.19E+0	1.44E-3	2.56	32.9000	2.56	32.9000	2.56	32.9000	07/31/08	04/16/09	04/19/09	04/19/09	259	259	3

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days
REG08096-00647	1	0	5.0	76100	-1.69E+0	9.27E+0	1.92E-3	0.01	0.0055	0.01	0.0055	0.0055	08/19/08	01/22/09	01/24/09	01/24/09	156	2
REG08096-00652	4	18	100.0	16500000	-1.46E+0	8.05E+0	2.44E-3	2.61	34.5000	2.61	34.5000	34.5000	08/19/08	04/20/09	04/20/09	04/20/09	244	0
REG08096-00653	4	18	100.0	15700000	-1.46E+0	8.05E+0	2.44E-3	2.49	32.9000	2.49	32.9000	32.9000	08/19/08	04/20/09	04/20/09	04/20/09	244	0

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Ratio	DCSA Analyte			Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				A	B	C	A	B	C		ppm	ppm	ppm	Date	Date	Date	Date	Days	Days	
REG08096-00656	1	0	5.0	28900	3.29E-1	6.94E+0	3.18E-3	0.00	0.0003	0.00	0.0003	0.00	0.0003	08/15/08	01/31/09	01/31/09	01/31/09	169	169	0
REG08096-00661	4	14	100.0	15400000	-1.46E+0	8.05E+0	2.44E-3	2.21	28.9000	2.21	28.9000	2.21	28.9000	08/15/08	04/20/09	04/21/09	04/21/09	248	248	1
REG08096-00662	4	14	100.0	14000000	-1.46E+0	8.05E+0	2.44E-3	2.13	27.9000	2.13	27.9000	2.13	27.9000	08/15/08	04/20/09	04/21/09	04/21/09	248	248	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				A	B	C	Constant	Curve Constant	C			Date	Date	Date	Date	Days	Days
REG08096-00665	1	0	5.0	76000	-1.43E+0	7.81E+0	2.83E-3	0.01	0.0023	0.01	0.0023	08/11/08	04/15/09	04/17/09	04/17/09	247	2
REG08096-00665	1	0	5.0	103000	-1.22E+0	8.79E+0	3.01E-3	0.01	0.0019	0.01	0.0019	08/11/08	04/23/09	04/24/09	04/24/09	255	1
REG08096-00665	1	0	5.0	53100	3.29E-1	6.94E+0	3.18E-3	0.01	0.0024	0.01	0.0024	08/11/08	01/31/09	01/31/09	01/31/09	173	0
REG08096-00670	4	18	100.0	14600000	-1.43E+0	7.81E+0	2.83E-3	2.18	29.4000	2.18	29.4000	08/11/08	04/15/09	04/17/09	04/17/09	247	2
REG08096-00671	4	18	100.0	14800000	-1.43E+0	7.81E+0	2.83E-3	2.24	30.4000	2.24	30.4000	08/11/08	04/15/09	04/17/09	04/17/09	247	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00674	1	0	5.0	124000	-1.43E+0	7.81E+0	2.83E-3	0.01	0.0052	08/19/08	04/15/09	04/17/09	239	2
REG08096-00674	1	0	5.0	142000	-1.22E+0	8.79E+0	3.01E-3	0.01	0.0053	08/19/08	04/23/09	04/24/09	247	1
REG08096-00674	1	0	5.0	151000	3.29E-1	6.94E+0	3.18E-3	0.02	0.0128	08/19/08	01/31/09	01/31/09	165	0
REG08096-00679	4	22	500.0	10100000	-1.22E+0	8.79E+0	3.01E-3	0.98	56.4000	08/19/08	04/23/09	04/24/09	247	1
REG08096-00680	4	22	500.0	10400000	-1.22E+0	8.79E+0	3.01E-3	0.99	57.1000	08/19/08	04/23/09	04/24/09	247	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
				A	B	C	Constant	Constant	Constant			Date	Date	Date	Date	Days	Days		
REG08096-00001	1	0	5.0	0	9.94E+0	-8.93E-4	-1.35E+0	9.94E+0	9.94E+0	0.00	0.0000	09/30/08	11/18/08	11/19/08	11/19/08	49	49	1	1
REG08096-00001	1	0	5.0	8090	9.89E+0	-1.13E-3	1.30E-1	9.89E+0	9.89E+0	0.00	0.0011	09/30/08	01/14/09	01/15/09	01/15/09	106	106	1	1
REG08096-00006	4	89	5.0	232000	9.94E+0	-8.93E-4	-1.35E+0	9.94E+0	9.94E+0	0.06	0.0315	09/30/08	11/18/08	11/19/08	11/19/08	49	49	1	1
REG08096-00007	4	89	5.0	415000	9.94E+0	-8.93E-4	-1.35E+0	9.94E+0	9.94E+0	0.09	0.0438	09/30/08	11/18/08	11/19/08	11/19/08	49	49	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response			DCSA Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days		
				A	B	C	A	B	C	Ratio	ppm	Date	Date	Date	Days	Days	Days	Days	Date	Date	Date	Days	Days	Days
REG08096-00010	1	0	5.0	31500	-1.52E-1	9.59E+0	-1.10E-3	0.00	0.0029	10/22/08	12/01/08	12/03/08	12/03/08	12/03/08	40	2								
REG08096-00015	4	77	5.0	3990000	-1.52E-1	9.59E+0	-1.10E-3	0.78	0.4080	10/22/08	12/01/08	12/03/08	12/03/08	12/03/08	40	2								
REG08096-00016	4	77	5.0	3860000	-1.52E-1	9.59E+0	-1.10E-3	0.79	0.4110	10/22/08	12/01/08	12/03/08	12/03/08	12/03/08	40	2								

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio		DCSA Analyte ppm		Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	A	B	C	Ratio	Ratio	Analyte	ppm	Date	Date	Date	Date	Days	Days		
REG08096-00019	1	0	5.0	7740			-2.79E+0	1.02E+1	8.31E-4		0.00	0.0000		10/13/08	12/08/08	12/10/08	12/10/08	56	56	2	2
REG08096-00024	4	80	5.0	195000			-2.79E+0	1.02E+1	8.31E-4		0.02	0.0110		10/13/08	12/08/08	12/10/08	12/10/08	56	56	2	2
REG08096-00025	4	80	5.0	235000			-2.79E+0	1.02E+1	8.31E-4		0.03	0.0129		10/13/08	12/08/08	12/10/08	12/10/08	56	56	2	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Seed

Sample ID	No.	Trt	Days		Response	Curve			Area Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
			Appl.	after Quant.		Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00028	1	0	0	5.0	0	-3.23E+0	8.06E+0	-9.71E-4	0.00	0.0000	11/01/08	01/12/09	01/12/09	01/12/09	72	0
REG08096-00028	1	0	0	5.0	8350	-2.75E+0	9.02E+0	2.67E-5	0.00	0.0004	11/01/08	04/27/09	04/27/09	04/27/09	177	0
REG08096-00028	1	0	0	5.0	9880	-1.43E+0	8.07E+0	1.31E-3	0.00	0.0000	11/01/08	03/17/09	03/17/09	03/17/09	136	0
REG08096-00033	4	95	95	5.0	76700	-3.23E+0	8.06E+0	-9.71E-4	0.02	0.0105	11/01/08	01/12/09	01/12/09	01/12/09	72	0
REG08096-00034	4	95	95	5.0	98200	-3.23E+0	8.06E+0	-9.71E-4	0.02	0.0101	11/01/08	01/12/09	01/12/09	01/12/09	72	0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Seed

Sample ID	Trt	Days after Quant.	Curve			Curve Constant	Curve Constant	Area Response	DCSA Analyte	Sampling Extraction		Analysis		Samp. to Extrn. Days
			Response	A	B					Date	Date	Date	Days	
REG08096-00037	1	0	5.0	0	-1.35E+0	9.94E+0	-8.93E-4	0.00	0.0000	10/17/08	11/18/08	11/19/08	32	1
REG08096-00042	4	95	5.0	140000	-1.35E+0	9.94E+0	-8.93E-4	0.03	0.0157	10/17/08	11/18/08	11/20/08	32	2
REG08096-00043	4	95	5.0	142000	-1.35E+0	9.94E+0	-8.93E-4	0.02	0.0095	10/17/08	11/18/08	11/20/08	32	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant	Ratio	Ratio		Date	Date	Days	Days		
REG08096-00046	1	0	5.0	13400	-2.79E+0	1.02E+1	8.31E-4	0.00	0.0003	0.00	0.0003	10/10/08	12/08/08	12/10/08	59	59	2	2
REG08096-00051	4	74	5.0	832000	-2.79E+0	1.02E+1	8.31E-4	0.09	0.0453	0.09	0.0453	10/10/08	12/08/08	12/10/08	59	59	2	2
REG08096-00052	4	74	5.0	854000	-2.79E+0	1.02E+1	8.31E-4	0.10	0.0465	0.10	0.0465	10/10/08	12/08/08	12/10/08	59	59	2	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response			DCSA Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days			Analysis Date		
				A	B	C	A	B	C	Ratio	ppm	Date	Date	Date	Date	Date	Days	Days	Days	Days	Days	Days	Days	Days	Days	Days	Days
REG08096-00055	1	0	5.0	0	9.94E+0	-8.93E-4	-1.35E+0	9.94E+0	-8.93E-4	0.00	0.0000	10/20/08	11/18/08	11/20/08	11/20/08	11/20/08	29	29	29	29	29	29	29	29	29	29	29
REG08096-00060	4	73	5.0	638000	9.94E+0	-8.93E-4	-1.35E+0	9.94E+0	-8.93E-4	0.08	0.0417	10/20/08	11/18/08	11/20/08	11/20/08	11/20/08	29	29	29	29	29	29	29	29	29	29	29
REG08096-00061	4	73	5.0	555000	9.94E+0	-8.93E-4	-1.35E+0	9.94E+0	-8.93E-4	0.08	0.0385	10/20/08	11/18/08	11/20/08	11/20/08	11/20/08	29	29	29	29	29	29	29	29	29	29	29

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant	Ratio	Ratio		Date	Date	Days	Days		
REG08096-00064	1	0	5.0	0	9.75E+0	-1.13E-3	-3.65E+0	9.75E+0	-1.13E-3	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2		
REG08096-00064	1	0	5.0	694	7.17E+0	6.58E-4	-3.80E-1	7.17E+0	6.58E-4	0.00	0.0000	10/27/08	01/15/09	01/16/09	80	1		
REG08096-00069	4	95	5.0	260000	9.75E+0	-1.13E-3	-3.65E+0	9.75E+0	-1.13E-3	0.04	0.0221	10/27/08	12/09/08	12/11/08	43	2		
REG08096-00070	4	95	5.0	211000	9.75E+0	-1.13E-3	-3.65E+0	9.75E+0	-1.13E-3	0.04	0.0190	10/27/08	12/09/08	12/11/08	43	2		

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response			DCSA Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days		
				A	B	C	A	B	C	Ratio	ppm	Date	Date	Date	Days	Days	Days	Days	Date	Date	Date	Days	Days	Days
REG08096-00073	1	0	5.0	0	1.90E-1	8.81E+0	-9.38E-4	0.00	0.0000	10/09/08	03/05/09	03/06/09	147	1										
REG08096-00078	4	77	5.0	80900	1.90E-1	8.81E+0	-9.38E-4	0.02	0.0118	10/09/08	03/05/09	03/06/09	147	1										
REG08096-00079	4	77	5.0	103000	1.90E-1	8.81E+0	-9.38E-4	0.03	0.0148	10/09/08	03/05/09	03/06/09	147	1										

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days	
REG08096-00082	1	0	5.0	5740			-2.79E+0	1.02E+1	8.31E-4		0.00	0.0000	10/02/08	12/08/08	12/10/08	12/10/08	67	67	2
REG08096-00087	4	85	5.0	356000			-2.79E+0	1.02E+1	8.31E-4		0.04	0.0193	10/02/08	12/08/08	12/10/08	12/10/08	67	67	2
REG08096-00088	4	85	5.0	297000			-2.79E+0	1.02E+1	8.31E-4		0.03	0.0162	10/02/08	12/08/08	12/10/08	12/10/08	67	67	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00091	1	0	5.0	-1.52E-1	9.59E+0	-1.10E-3	0.00	0.0014	10/19/08	12/01/08	12/03/08	12/03/08	43	43	2
REG08096-00096	4	88	5.0	-1.52E-1	9.59E+0	-1.10E-3	0.17	0.0887	10/19/08	12/01/08	12/03/08	12/03/08	43	43	2
REG08096-00097	4	88	5.0	-1.52E-1	9.59E+0	-1.10E-3	0.16	0.0844	10/19/08	12/01/08	12/03/08	12/03/08	43	43	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00100	1	0	5.0	9580	-3.65E+0	9.75E+0	-1.13E-3	0.00	0.0013	10/18/08	12/09/08	12/11/08	52	2
REG08096-00100	1	0	5.0	1640	-2.18E+0	8.79E+0	-1.46E-4	0.00	0.0002	10/18/08	03/19/09	03/20/09	152	1
REG08096-00100	1	0	5.0	5100	-9.39E-1	7.73E+0	5.34E-3	0.00	0.0000	10/18/08	03/25/09	03/26/09	158	1
REG08096-00100	1	0	5.0	2510	-3.80E-1	7.17E+0	6.58E-4	0.00	0.0000	10/18/08	01/15/09	01/16/09	89	1
REG08096-00105	4	78	5.0	699000	-3.65E+0	9.75E+0	-1.13E-3	0.10	0.0502	10/18/08	12/09/08	12/11/08	52	2
REG08096-00106	4	78	5.0	711000	-3.65E+0	9.75E+0	-1.13E-3	0.10	0.0523	10/18/08	12/09/08	12/11/08	52	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Curve Constant	Area Response	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				Constant	A	Response				Date	Date	Days	Days		
REG08096-00109	1	0	5.0	12700	-3.65E+0	9.75E+0	-1.13E-3	0.00	0.0015	10/18/08	12/09/08	12/11/08	52	2	
REG08096-00114	4	78	5.0	850000	-3.65E+0	9.75E+0	-1.13E-3	0.13	0.0663	10/18/08	12/09/08	12/12/08	52	3	
REG08096-00115	4	78	5.0	846000	-3.65E+0	9.75E+0	-1.13E-3	0.13	0.0687	10/18/08	12/09/08	12/12/08	52	3	

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response			DCSA Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days		
				No.	Appl.	Factor	Response	A	Constant	B	Curve Constant	C	Ratio	Response	Analyte	ppm	Date	Date	Date	Extn. Days	Analysis Days			
REG08096-00118	1	0	5.0	20500	-1.52E-1	9.59E+0	-1.10E-3	0.00	0.0022	09/30/08	12/01/08	12/03/08	62	2										
REG08096-00123	4	81	5.0	243000	-1.52E-1	9.59E+0	-1.10E-3	0.03	0.0186	09/30/08	12/01/08	12/03/08	62	2										
REG08096-00124	4	81	5.0	310000	-1.52E-1	9.59E+0	-1.10E-3	0.04	0.0238	09/30/08	12/01/08	12/03/08	62	2										

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				A	B	C	Constant	Curve Constant	C			Date	Date	Date	Date	Days	Days		
REG08096-00127	1	0	5.0	0	8.06E+0	-9.71E-4	-3.23E+0	8.06E+0	-9.71E-4	0.00	0.0000	10/17/08	01/12/09	01/12/09	01/12/09	87	87	0	0
REG08096-00127	1	0	5.0	25100	8.07E+0	1.31E-3	-1.43E+0	8.07E+0	1.31E-3	0.00	0.0008	10/17/08	03/17/09	03/17/09	03/17/09	151	151	0	0
REG08096-00132	4	87	5.0	584000	8.06E+0	-9.71E-4	-3.23E+0	8.06E+0	-9.71E-4	0.09	0.0549	10/17/08	01/12/09	01/12/09	01/12/09	87	87	0	0
REG08096-00133	4	87	5.0	530000	8.06E+0	-9.71E-4	-3.23E+0	8.06E+0	-9.71E-4	0.08	0.0480	10/17/08	01/12/09	01/12/09	01/12/09	87	87	0	0

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed

Sample ID	No.	Trt	Days		Response	Curve			Area	DCSA		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
			Appl.	after Quant.		Constant	Curve	Constant		Response	Analyte				Days	Days
						A	B	C	Ratio	ppm						
REG08096-00136	1	0	0	5.0	0	1.90E-1	8.81E+0	-9.38E-4	0.00	0.0000		10/16/08	03/05/09	03/06/09	140	1
REG08096-00141	4	87	87	5.0	170000	1.90E-1	8.81E+0	-9.38E-4	0.05	0.0266		10/16/08	03/05/09	03/06/09	140	1
REG08096-00142	4	87	87	5.0	159000	1.90E-1	8.81E+0	-9.38E-4	0.04	0.0238		10/16/08	03/05/09	03/06/09	140	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Response			Curve			Area Ratio	DCSA Analyte ppm	Sampling		Extraction		Analysis		Samp. to Extn. Days
				A	B	C	Constant	Curve	Constant			Date	Date	Date	Days			
REG08096-00145	1	0	5.0	3070	8.58E-1	9.32E+0	1.54E-3	0.00	0.0000	0.00	10/24/08	12/08/08	12/10/08	45	2			
REG08096-00150	4	86	5.0	397000	8.58E-1	9.32E+0	1.54E-3	0.05	0.0273	0.05	10/24/08	12/08/08	12/11/08	45	3			
REG08096-00151	4	86	5.0	436000	8.58E-1	9.32E+0	1.54E-3	0.06	0.0303	0.06	10/24/08	12/08/08	12/11/08	45	3			

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00154	1	0	5.0	2110	6.31E-1	8.74E+0	2.05E-3	0.00	0.0000	10/07/08	12/03/08	12/04/08	57	57	1
REG08096-00159	4	88	5.0	242000	6.31E-1	8.74E+0	2.05E-3	0.03	0.0184	10/07/08	12/03/08	12/04/08	57	57	1
REG08096-00160	4	88	5.0	231000	6.31E-1	8.74E+0	2.05E-3	0.04	0.0202	10/07/08	12/03/08	12/04/08	57	57	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	DCSA Analyte ppm			Sampling Date	Extraction Date	Analysis Date	Samp. to Extn. Days	Extn. Days	Analysis Days
				A	B	C	Constant	Curve	Constant										
REG08096-00163	1	0	5.0	23000	8.58E-1	9.32E+0	1.54E-3	0.00	0.0010	0.00	0.0010	10/16/08	12/08/08	12/11/08	53	53	3	3	3
REG08096-00168	4	76	5.0	1590000	8.58E-1	9.32E+0	1.54E-3	0.22	0.1140	0.22	0.1140	10/16/08	12/08/08	12/11/08	53	53	3	3	3
REG08096-00169	4	76	5.0	1420000	8.58E-1	9.32E+0	1.54E-3	0.20	0.1080	0.20	0.1080	10/16/08	12/08/08	12/11/08	53	53	3	3	3

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00172	1	0	5.0	6.31E-1	8.74E+0	2.05E-3	0.00	0.0000	10/28/08	12/03/08	12/05/08	12/05/08	36	2
REG08096-00177	4	88	5.0	6.31E-1	8.74E+0	2.05E-3	0.08	0.0433	10/28/08	12/03/08	12/05/08	12/05/08	36	2
REG08096-00178	4	88	5.0	6.31E-1	8.74E+0	2.05E-3	0.08	0.0465	10/28/08	12/03/08	12/05/08	12/05/08	36	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Curve Constant			Area Response			DCSA Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days		
				No.	Response	A	Constant	B	Constant	C	Ratio	Response	Analyte	Date	Date	Date	Days	Days	Days								
REG08096-00181	1	0	5.0	0		1.90E-1	8.81E+0	-9.38E-4	0.00	0.0000	10/16/08	03/05/09	03/06/09	140	1												
REG08096-00186	4	85	5.0	528000		1.90E-1	8.81E+0	-9.38E-4	0.13	0.0738	10/17/08	03/05/09	03/06/09	139	1												
REG08096-00187	4	85	5.0	466000		1.90E-1	8.81E+0	-9.38E-4	0.12	0.0703	10/17/08	03/05/09	03/06/09	139	1												

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Curve			Area Response	DCSA Analyte	Sampling		Extraction		Analysis Date	Samp. to Extn.	
				Constant	Response	A	Constant	Response	B			Constant	Response	C	Date		Date	Days
REG08096-00190	1	0	5.0	0	6.31E-1	8.74E+0	2.05E-3	0.00	0.0000	11/03/08	12/03/08	12/05/08	30	2				
REG08096-00195	4	98	5.0	160000	6.31E-1	8.74E+0	2.05E-3	0.02	0.0115	11/03/08	12/03/08	12/05/08	30	2				
REG08096-00196	4	98	5.0	122000	6.31E-1	8.74E+0	2.05E-3	0.02	0.0087	11/03/08	12/03/08	12/05/08	30	2				

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
				No.	Days	Response	Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days		
REG08096-00255	1	0	5.0	298			-4.98E+0	2.43E+1	8.76E-5	0.00	0.0006	07/10/08	04/01/09	04/03/09	04/03/09	265	265	2	2
REG08096-00255	1	0	5.0	0			-1.28E+0	2.31E+1	2.49E-3	0.00	0.0000	07/10/08	08/14/09	08/14/09	08/14/09	400	400	0	0
REG08096-00255	1	0	5.0	0			2.54E-1	2.22E+1	-6.86E-4	0.00	0.0000	07/10/08	03/23/09	03/25/09	03/25/09	256	256	2	2
REG08096-00260	4	7	5.0	15800			-1.28E+0	2.31E+1	2.49E-3	0.24	0.0512	07/10/08	08/14/09	08/14/09	08/14/09	400	400	0	0
REG08096-00261	4	7	5.0	41300			2.54E-1	2.22E+1	-6.86E-4	0.26	0.0577	07/10/08	03/23/09	03/25/09	03/25/09	256	256	2	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Forage

Sample ID	Trt	Days after Quant.		Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
		No.	Appl. Factor		Constant	B	C			Date	Date	Date	Days	Days	Days
REG08096-00264	1	0	5.0	1860	-6.56E+0	2.48E+1	2.52E-2	0.07	0.0088	08/14/08	04/01/09	04/03/09	230	2	
REG08096-00264	1	0	5.0	795	-8.35E-1	2.25E+1	-1.52E-3	0.01	0.0033	08/14/08	03/11/09	03/13/09	209	2	
REG08096-00269	4	8	5.0	3970	-1.28E+0	2.31E+1	2.49E-3	0.04	0.0078	08/14/08	08/14/09	08/14/09	365	0	
REG08096-00270	4	8	5.0	24700	-8.35E-1	2.25E+1	-1.52E-3	0.06	0.0146	08/14/08	03/11/09	03/13/09	209	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	Dicamba Analyte		Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
				No.	Days	Response	Constant A	Constant B	Constant C		ppm	ppm	Date	Date	Date	Date	Days	Days		
REG08096-00273	1	0	5.0	0	0	0	-3.50E+0	2.13E+1	1.84E-3	0.00	0.0000	0.0000	08/01/08	05/06/09	05/07/09	05/07/09	278	1	1	1
REG08096-00273	1	0	5.0	0	0	0	-2.17E+0	2.25E+1	-3.33E-4	0.00	0.0000	0.0000	08/01/08	01/07/09	01/08/09	01/08/09	159	1	1	1
REG08096-00273	1	0	5.0	446	0	446	-8.36E-2	2.21E+1	3.69E-3	0.01	0.0011	0.0011	08/01/08	03/12/09	03/14/09	03/14/09	223	2	2	2
REG08096-00278	4	7	5.0	12400	7	12400	-2.17E+0	2.25E+1	-3.33E-4	0.04	0.0084	0.0084	08/01/08	01/07/09	01/08/09	01/08/09	159	1	1	1
REG08096-00279	4	7	5.0	14400	7	14400	-2.17E+0	2.25E+1	-3.33E-4	0.04	0.0094	0.0094	08/01/08	01/07/09	01/08/09	01/08/09	159	1	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio		Dicamba Analyte ppm		Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Analysis Days
				A	B	C	A	B	C	Ratio	Ratio	Analyte	ppm	Date	Date	Date	Date	Days	Days	
REG08096-00282	1	0	5.0	0	2.54E-1	2.22E+1	-6.86E-4	0.00	0.0000	0.00	0.0000	0.0000	0.0000	08/06/08	03/23/09	03/25/09	03/25/09	229	229	2
REG08096-00287	4	8	5.0	17100	2.54E-1	2.22E+1	-6.86E-4	0.11	0.0249	0.11	0.0249	0.0249	0.0249	08/06/08	03/23/09	03/25/09	03/25/09	229	229	2
REG08096-00288	4	8	5.0	21400	2.54E-1	2.22E+1	-6.86E-4	0.13	0.0297	0.13	0.0297	0.0297	0.0297	08/06/08	03/23/09	03/25/09	03/25/09	229	229	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date		Days	Days
REG08096-00291	1	0	5.0	5.0	2120	1.39E+0	2.36E+1	2.40E-3	0.01	0.0019	07/21/08	12/02/08	12/03/08	134	1
REG08096-00296	4	7	5.0	5.0	18600	1.39E+0	2.36E+1	2.40E-3	0.10	0.0199	07/21/08	12/02/08	12/03/08	134	1
REG08096-00297	4	7	5.0	5.0	23600	1.39E+0	2.36E+1	2.40E-3	0.14	0.0287	07/21/08	12/02/08	12/03/08	134	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		Dicamba		Sampling		Extraction		Analysis		Samp. to Extn.		Days
				No.	Days	Response	Constant	Curve	Constant	Response	Ratio	Analyte	ppm	Date	Date	Date	Date	Date	Days	Days	Days	Days
REG08096-00300	1	0	5.0	0	5.0	0	-4.58E+0	2.37E+1	4.47E-2	0.00	0.0000	0.0000	0.0000	08/05/08	04/06/09	04/07/09	04/07/09	04/07/09	244	244	1	1
REG08096-00300	1	0	5.0	758	5.0	758	1.39E+0	2.36E+1	2.40E-3	0.00	0.0003	0.00	0.0003	08/05/08	12/02/08	12/04/08	12/04/08	12/04/08	119	119	2	2
REG08096-00305	4	8	5.0	10100	5.0	10100	1.39E+0	2.36E+1	2.40E-3	0.05	0.0098	0.05	0.0098	08/05/08	12/02/08	12/04/08	12/04/08	12/04/08	119	119	2	2
REG08096-00306	4	8	5.0	9480	5.0	9480	1.39E+0	2.36E+1	2.40E-3	0.05	0.0102	0.05	0.0102	08/05/08	12/02/08	12/04/08	12/04/08	12/04/08	119	119	2	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Quant.	Factor	Response	Curve		Constant	Curve	Area	Dicamba	Sampling Extraction		Analysis		Samp. to Extn.	
						Constant	B					Constant	C	Ratio	Analyte	Date	Date
REG08096-00309	1	0	5.0	5.0	1390	-2.17E+0	2.25E+1	-3.33E-4	0.00	0.0010	0.0010	08/15/08	01/07/09	01/08/09	01/08/09	145	1
REG08096-00314	4	7	5.0	5.0	947000	-2.17E+0	2.25E+1	-3.33E-4	4.90	1.1100	1.1100	08/15/08	01/07/09	01/08/09	01/08/09	145	1
REG08096-00315	4	7	5.0	5.0	1600000	-2.17E+0	2.25E+1	-3.33E-4	5.70	1.3000	1.3000	08/15/08	01/07/09	01/08/09	01/08/09	145	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00318	1	0	5.0	279	-4.58E+0	2.37E+1	4.47E-2	0.01	0.0000	08/01/08	04/06/09	04/07/09	04/07/09	248	248	1
REG08096-00318	1	0	5.0	0	-2.66E+0	2.20E+1	3.36E-3	0.00	0.0000	08/01/08	04/23/09	04/25/09	04/25/09	265	265	2
REG08096-00318	1	0	5.0	291	1.22E+0	2.69E+1	1.09E-2	0.01	0.0000	08/01/08	12/11/08	12/13/08	12/13/08	132	132	2
REG08096-00323	4	8	5.0	2160	1.22E+0	2.69E+1	1.09E-2	0.05	0.0071	08/01/08	12/11/08	12/13/08	12/13/08	132	132	2
REG08096-00324	4	8	5.0	2270	1.22E+0	2.69E+1	1.09E-2	0.05	0.0068	08/01/08	12/11/08	12/13/08	12/13/08	132	132	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm		Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Extn. Analysis Days
				No.	Days	Response	Constant A	Constant B	Constant C				Date	Date	Date	Date	Days	Days	
REG08096-00327	1	0	5.0	73			-4.98E+0	2.43E+1	8.76E-5	0.00	0.0002		07/31/08	04/01/09	04/02/09	04/02/09	244	244	1
REG08096-00327	1	0	5.0	0			1.22E+0	2.69E+1	1.09E-2	0.00	0.0000		07/31/08	12/11/08	12/13/08	12/13/08	133	133	2
REG08096-00332	4	7	5.0	4270			1.22E+0	2.69E+1	1.09E-2	0.09	0.0141		07/31/08	12/11/08	12/14/08	12/14/08	133	133	3
REG08096-00333	4	7	5.0	3420			1.22E+0	2.69E+1	1.09E-2	0.08	0.0128		07/31/08	12/11/08	12/14/08	12/14/08	133	133	3

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		Dicamba		Sampling		Extraction		Analysis		Samp. to Extn.		Days	Analysis Days
				No.	Response	A	Constant	B	C	Ratio	Response	Analyte	ppm	Date	Date	Date	Date	Date	Date	Days	Days		
REG08096-00336	1	0	1.0	0	0	-3.09E+0	2.34E+1	-4.27E-3	0.00	0.0000	0.00	0.0000	0.00	07/16/08	03/31/09	03/31/09	03/31/09	03/31/09	03/31/09	258	258	0	0
REG08096-00336	1	0	5.0	0	0	-8.35E-1	2.25E+1	-1.52E-3	0.00	0.0000	0.00	0.0000	0.00	07/16/08	03/11/09	03/11/09	03/14/09	03/14/09	03/14/09	238	238	3	3
REG08096-00341	4	7	5.0	77300	77300	-8.35E-1	2.25E+1	-1.52E-3	0.43	0.0950	0.43	0.0950	0.43	07/16/08	03/11/09	03/11/09	03/14/09	03/14/09	03/14/09	238	238	3	3
REG08096-00342	4	7	5.0	72400	72400	-8.35E-1	2.25E+1	-1.52E-3	0.43	0.0969	0.43	0.0969	0.43	07/16/08	03/11/09	03/11/09	03/14/09	03/14/09	03/14/09	238	238	3	3

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		Dicamba		Sampling		Extraction		Analysis		Samp. to Extn.		Days		Extn. Days	Analysis Days
				No.	Response	A	Constant	B	C	Ratio	Response	Analyte	ppm	Date	Date	Date	Date	Date	Date	Days	Days	Days	Days		
REG08096-00345	1	0	5.0	0	0	-3.09E+0	2.34E+1	-4.27E-3	0.00	0.0000	0.00	0.0000	0.0000	07/30/08	03/31/09	04/01/09	04/01/09	04/01/09	04/01/09	244	244	1	1	1	1
REG08096-00345	1	0	5.0	816	816	-2.17E+0	2.25E+1	-3.33E-4	0.00	0.0006	0.00	0.0006	0.0006	07/30/08	01/07/09	01/08/09	01/08/09	01/08/09	01/08/09	161	161	1	1	1	1
REG08096-00345	1	0	5.0	726	726	-8.36E-2	2.21E+1	3.69E-3	0.01	0.0020	0.01	0.0020	0.0020	07/30/08	03/12/09	03/14/09	03/14/09	03/14/09	03/14/09	225	225	2	2	2	2
REG08096-00350	4	7	5.0	1510000	1510000	-2.17E+0	2.25E+1	-3.33E-4	4.09	0.9250	4.09	0.9250	0.9250	07/30/08	01/07/09	01/08/09	01/08/09	01/08/09	01/08/09	161	161	1	1	1	1
REG08096-00351	4	7	5.0	900000	900000	-2.17E+0	2.25E+1	-3.33E-4	4.82	1.0900	4.82	1.0900	1.0900	07/30/08	01/07/09	01/08/09	01/08/09	01/08/09	01/08/09	161	161	1	1	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		Dicamba		Sampling		Extraction		Analysis		Samp. to Extn.		Days	
				No.	Days	Response	Constant	Curve	Constant	Response	Ratio	Analyte	ppm	Date	Date	Date	Date	Date	Date	Days	Days	Days	Days
REG08096-00354	1	0	5.0	0	5.0	0	-2.89E+0	2.18E+1	2.52E-4	0.00	0.0000	0.0000	0.0000	08/08/08	01/21/09	01/22/09	01/22/09	01/22/09	01/22/09	166	166	1	1
REG08096-00354	1	0	5.0	665	5.0	665	-1.23E+0	2.14E+1	-7.28E-4	0.00	0.0011	0.0011	0.0011	08/08/08	03/25/09	03/26/09	03/26/09	03/26/09	03/26/09	229	229	1	1
REG08096-00359	4	7	5.0	247000	5.0	247000	-2.89E+0	2.18E+1	2.52E-4	1.22	0.2820	0.2820	0.2820	08/08/08	01/21/09	01/21/09	01/21/09	01/21/09	01/21/09	166	166	1	1
REG08096-00360	4	7	5.0	145000	5.0	145000	-2.89E+0	2.18E+1	2.52E-4	0.68	0.1560	0.1560	0.1560	08/08/08	01/21/09	01/21/09	01/21/09	01/21/09	01/21/09	166	166	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Forage

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00363	1	0	0	5.0	19	-1.55E+0	2.30E+1	1.93E-3	0.00	0.0000	08/08/08	03/19/09	03/19/09	03/19/09	223	0
REG08096-00363	1	0	0	5.0	200	-6.25E-6	2.76E-2	-9.18E-3	0.00	0.0019	08/08/08	12/15/08	12/18/08	12/18/08	129	3
REG08096-00368	4	7	5.0	113000	113000	-1.55E+0	2.30E+1	1.93E-3	1.27	0.2750	08/08/08	03/19/09	03/19/09	03/19/09	223	0
REG08096-00369	4	7	5.0	148000	148000	-1.55E+0	2.30E+1	1.93E-3	1.69	0.3680	08/08/08	03/19/09	03/19/09	03/19/09	223	0

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Forage

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00372	1	0	5.0	5.0	483	-1.31E+0	2.08E+1	1.38E-3	0.02	0.0051	07/18/08	04/22/09	04/23/09	04/23/09	278	1
REG08096-00372	1	0	5.0	5.0	1640	1.39E+0	2.36E+1	2.40E-3	0.01	0.0011	07/18/08	12/02/08	12/04/08	12/04/08	137	2
REG08096-00377	4	7	5.0	5.0	65200	1.39E+0	2.36E+1	2.40E-3	0.30	0.0631	07/18/08	12/02/08	12/04/08	12/04/08	137	2
REG08096-00378	4	7	5.0	5.0	55400	1.39E+0	2.36E+1	2.40E-3	0.30	0.0632	07/18/08	12/02/08	12/04/08	12/04/08	137	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Quant.	Response	Curve		Constant	Curve	Area	Dicamba	Sampling		Extrn.	Samp. to
					Constant	Response					Date	Date		
REG08096-00381	1	0	0	5180	-1.55E+0	2.30E+1	1.93E-3	0.08	0.0168	07/29/08	03/19/09	03/19/09	233	0
REG08096-00381	1	0	0	734	-6.25E-6	2.76E-2	-9.18E-3	0.01	0.0026	07/29/08	12/15/08	12/18/08	139	3
REG08096-00386	4	7	5.0	89800	-1.55E+0	2.30E+1	1.93E-3	1.39	0.3020	07/29/08	03/19/09	03/19/09	233	0
REG08096-00387	4	7	5.0	81100	-1.55E+0	2.30E+1	1.93E-3	1.32	0.2880	07/29/08	03/19/09	03/19/09	233	0

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Quant.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn. Days
						Constant	Curve Constant	Curve C			Date	Date	Extrn. Date	Analysis Date	
REG08096-00390	1	0	5.0	5.0	729	-2.89E+0	2.18E+1	2.52E-4	0.00	0.0007	08/07/08	01/21/09	01/22/09	167	1
REG08096-00395	4	7	5.0	5.0	353000	-2.89E+0	2.18E+1	2.52E-4	1.52	0.3500	07/28/08	01/21/09	01/22/09	177	1
REG08096-00396	4	7	5.0	5.0	264000	-2.89E+0	2.18E+1	2.52E-4	1.14	0.2620	07/28/08	01/21/09	01/22/09	177	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
				A	B	C	Constant	Curve Constant	C			Date	Date	Date	Date	Days	Days		
REG08096-00399	1	0	5.0	285			-9.10E+0	2.56E+1	1.86E-3	0.01	0.0007	07/28/08	04/07/09	04/09/09	04/09/09	253	2	2	2
REG08096-00399	1	0	5.0	0			-5.21E+0	2.70E+1	-1.29E-3	0.00	0.0000	07/28/08	12/17/08	12/19/08	12/19/08	142	2	2	2
REG08096-00404	4	8	5.0	42000			-5.21E+0	2.70E+1	-1.29E-3	0.23	0.0429	08/07/08	12/17/08	12/19/08	12/19/08	132	2	2	2
REG08096-00405	4	8	5.0	54900			-5.21E+0	2.70E+1	-1.29E-3	0.32	0.0587	08/07/08	12/17/08	12/19/08	12/19/08	132	2	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		Dicamba		Sampling		Extraction		Analysis		Samp. to Extn.		Days
				No.	Days	Response	Constant	Curve	Constant	Response	Ratio	Analyte	ppm	Date	Date	Date	Date	Date	Date	Days	Days	
REG08096-00408	1	0	5.0	0	5.0	0	-9.10E+0	2.56E+1	1.86E-3	0.00	0.0000	0.0000	0.0000	07/18/08	04/07/09	04/09/09	04/09/09	04/09/09	04/09/09	263	263	2
REG08096-00408	1	0	5.0	0	5.0	0	-8.35E-1	2.25E+1	-1.52E-3	0.00	0.0000	0.0000	0.0000	07/18/08	03/11/09	03/13/09	03/13/09	03/13/09	03/13/09	236	236	2
REG08096-00413	4	7	5.0	24600	5.0	24600	-8.35E-1	2.25E+1	-1.52E-3	0.30	0.0678	0.30	0.0678	07/18/08	03/11/09	03/14/09	03/14/09	03/14/09	03/14/09	236	236	3
REG08096-00414	4	7	5.0	24700	5.0	24700	-8.35E-1	2.25E+1	-1.52E-3	0.30	0.0681	0.30	0.0681	07/18/08	03/11/09	03/14/09	03/14/09	03/14/09	03/14/09	236	236	3

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
						Constant	Constant	Constant			Date	Date	Date	Date	Days	Days	
REG08096-00417	1	0	0	5.0	778	-9.10E+0	2.56E+1	1.86E-3	0.02	0.0031	08/08/08	04/07/09	04/10/09	04/10/09	242	242	3
REG08096-00417	1	0	0	5.0	1550	-5.21E+0	2.70E+1	-1.29E-3	0.01	0.0020	08/08/08	12/17/08	12/19/08	12/19/08	131	131	2
REG08096-00422	4	7	7	5.0	2160000	-5.21E+0	2.70E+1	-1.29E-3	11.40	2.3200	08/08/08	12/17/08	12/19/08	12/19/08	131	131	2
REG08096-00423	4	7	7	10.0	501000	-9.10E+0	2.56E+1	1.86E-3	6.07	2.6200	08/08/08	04/07/09	04/10/09	04/10/09	242	242	3

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Forage

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Response			Curve		Constant	Curve	Constant	Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.	
					No.	Response	Constant	Constant	Constant						Date	Date	Extn. Days	Analysis Days		
REG08096-00426	1	0	0	5.0	284	-5.21E+0	2.70E+1	-1.29E-3	0.00	0.0005	08/08/08	12/17/08	12/19/08	131	2					
REG08096-00426	1	0	0	5.0	35100	-5.21E+0	2.70E+1	-1.29E-3	0.24	0.0441	08/08/08	12/17/08	12/19/08	131	2					
REG08096-00426	1	0	0	5.0	157	-2.36E+0	2.15E+1	2.77E-3	0.00	0.0000	08/08/08	04/27/09	04/27/09	262	0					
REG08096-00431	4	7	7	5.0	391000	-5.21E+0	2.70E+1	-1.29E-3	2.24	0.4230	08/08/08	12/17/08	12/19/08	131	2					
REG08096-00432	4	7	7	5.0	275000	-5.21E+0	2.70E+1	-1.29E-3	2.32	0.4370	08/08/08	12/17/08	12/19/08	131	2					

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	Dicamba Analyte ppm			Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
				A	B	C	A	B	C					Date	Date	Date	Date	Days	Days		
REG08096-00435	1	0	5.0	1350	2.30E+1	1.93E-3	-1.55E+0	2.30E+1	1.93E-3	0.02	0.0035	0.0035	0.0035	07/31/08	03/19/09	03/19/09	03/19/09	231	231	0	0
REG08096-00435	1	0	5.0	1390	2.76E-2	-9.18E-3	-6.25E-6	2.76E-2	-9.18E-3	0.01	0.0031	0.0031	0.0031	07/31/08	12/15/08	12/17/08	12/17/08	137	137	2	2
REG08096-00440	4	7	5.0	220000	2.30E+1	1.93E-3	-1.55E+0	2.30E+1	1.93E-3	2.54	0.5550	0.5550	0.5550	07/31/08	03/19/09	03/20/09	03/20/09	231	231	1	1
REG08096-00441	4	7	5.0	327000	2.30E+1	1.93E-3	-1.55E+0	2.30E+1	1.93E-3	3.94	0.8640	0.8640	0.8640	07/31/08	03/19/09	03/20/09	03/20/09	231	231	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00444	1	0	5.0	5.0	73	-2.89E+0	2.18E+1	2.52E-4	0.00	0.0001	08/07/08	01/21/09	01/22/09	01/22/09	167	167	1
REG08096-00449	4	10	5.0	5.0	61400	-2.89E+0	2.18E+1	2.52E-4	0.31	0.0703	08/07/08	01/21/09	01/22/09	01/22/09	167	167	1
REG08096-00450	4	10	5.0	5.0	56100	-2.89E+0	2.18E+1	2.52E-4	0.25	0.0570	08/07/08	01/21/09	01/22/09	01/22/09	167	167	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
				No.	Days	Response	Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days		
REG08096-00485	1	0	5.0	0	5.0	0	-2.36E+0	2.15E+1	2.77E-3	0.00	0.0000	07/18/08	04/27/09	04/28/09	04/28/09	283	283	1	1
REG08096-00485	1	0	5.0	0	5.0	655	5.20E-1	2.26E+1	8.02E-3	0.01	0.0011	07/18/08	02/04/09	02/04/09	02/04/09	201	201	0	0
REG08096-00490	4	15	5.0	15	5.0	12100	5.20E-1	2.26E+1	8.02E-3	0.23	0.0490	07/18/08	02/04/09	02/04/09	02/04/09	201	201	0	0
REG08096-00491	4	15	5.0	15	5.0	11800	5.20E-1	2.26E+1	8.02E-3	0.24	0.0520	07/18/08	02/04/09	02/04/09	02/04/09	201	201	0	0

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days	Analysis Days
					Response	A	B	Constant	Curve Constant	C			Date	Date	Date	Date	Days	Days		
REG08096-00494	1	0	0	5.0	1020	5.20E-1	2.26E+1	8.02E-3	0.01	0.0014	0.01	0.0014	08/30/08	02/04/09	02/04/09	02/04/09	158	158	0	0
REG08096-00499	4	24	24	5.0	2580	5.20E-1	2.26E+1	8.02E-3	0.03	0.0047	0.03	0.0047	08/30/08	02/04/09	02/04/09	02/04/09	158	158	0	0
REG08096-00500	4	24	24	5.0	2680	5.20E-1	2.26E+1	8.02E-3	0.03	0.0044	0.03	0.0044	08/30/08	02/04/09	02/04/09	02/05/09	158	158	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.		Days	Analysis Days
						Constant	Constant	Constant			Date	Date	Date	Date	Days	Days		
REG08096-00503	1	0	5.0	5.0	837	-5.25E+0	2.28E+1	-2.62E-3	0.01	0.0036	08/11/08	02/25/09	02/26/09	02/26/09	198	198	1	1
REG08096-00503	1	0	5.0	5.0	1020	-1.74E+0	2.21E+1	-3.63E-3	0.04	0.0088	08/11/08	03/17/09	03/17/09	03/17/09	218	218	0	0
REG08096-00508	4	17	5.0	5.0	2640	-5.25E+0	2.28E+1	-2.62E-3	0.04	0.0102	08/11/08	02/25/09	02/25/09	02/26/09	198	198	1	1
REG08096-00509	4	17	5.0	5.0	2080	-5.25E+0	2.28E+1	-2.62E-3	0.06	0.0143	08/11/08	02/25/09	02/25/09	02/26/09	198	198	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Hay

Sample ID	No.	Days after Appl.	Trt	Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days	Analysis Days
					Response	A	Constant	B	Constant	C			Date	Date	Date	Date	Days	Days		
REG08096-00512	1	0		5.0	1220	-1.07E-1	2.41E+1	-3.56E-3	0.01	0.0020	0.12	0.0258	08/16/08	01/06/09	01/07/09	01/07/09	143	143	1	1
REG08096-00517	4	18		5.0	23000	-1.07E-1	2.41E+1	-3.56E-3	0.12	0.0258	0.12	0.0258	08/16/08	01/06/09	01/07/09	01/07/09	143	143	1	1
REG08096-00518	4	18		5.0	19400	-1.07E-1	2.41E+1	-3.56E-3	0.10	0.0207	0.10	0.0207	08/16/08	01/06/09	01/07/09	01/07/09	143	143	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
								Constant A	Constant B	Constant C			Date	Date		Days	Days
REG08096-00521	1	0	5.0	5.0	1040	5.20E-1	2.26E+1	8.02E-3	0.02	0.0034	0.02	0.0034	08/04/08	02/04/09	02/05/09	184	1
REG08096-00526	4	21	5.0	5.0	6460	5.20E-1	2.26E+1	8.02E-3	0.13	0.0274	0.13	0.0274	08/04/08	02/04/09	02/05/09	184	1
REG08096-00527	4	21	5.0	5.0	6660	5.20E-1	2.26E+1	8.02E-3	0.15	0.0322	0.15	0.0322	08/04/08	02/04/09	02/05/09	184	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
				Constant A	Constant B	Constant C						Days	Days
REG08096-00530	1	0	5.0	-5.25E+0	2.28E+1	-2.62E-3	0.02	0.0041	08/15/08	02/25/09	02/26/09	194	1
REG08096-00535	4	18	5.0	-5.25E+0	2.28E+1	-2.62E-3	0.03	0.0067	08/15/08	02/25/09	02/26/09	194	1
REG08096-00536	4	18	5.0	-5.25E+0	2.28E+1	-2.62E-3	0.03	0.0065	08/15/08	02/25/09	02/26/09	194	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days	Analysis Days
				No.	Days	Response	Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days		
REG08096-00539	1	0	5.0	1	0	0	-3.50E+0	2.13E+1	1.84E-3	0.00	0.0000	08/23/08	05/06/09	05/06/09	05/06/09	256	0		
REG08096-00539	1	0	5.0	1	0	471	1.24E+0	2.44E+1	-6.88E-4	0.00	0.0011	08/23/08	01/15/09	01/17/09	01/17/09	145	2		
REG08096-00544	4	15	5.0	4	15	145000	1.24E+0	2.44E+1	-6.88E-4	1.39	0.2830	08/23/08	01/15/09	01/17/09	01/17/09	145	2		
REG08096-00545	4	15	5.0	4	15	150000	1.24E+0	2.44E+1	-6.88E-4	1.45	0.2960	08/23/08	01/15/09	01/17/09	01/17/09	145	2		

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve Constant		Area Response Ratio	Dicamba Analyte		Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
					Response	A	B	C			ppm		Date		Date		Days		
REG08096-00548	1	0	5.0		1400	1.24E+0	2.44E+1	-6.88E-4		0.01	0.0023		08/14/08	01/15/09	01/17/09		154		2
REG08096-00553	4	21	5.0		10900	1.24E+0	2.44E+1	-6.88E-4		0.10	0.0210		08/14/08	01/15/09	01/17/09		154		2
REG08096-00554	4	21	5.0		8760	1.24E+0	2.44E+1	-6.88E-4		0.08	0.0168		08/14/08	01/15/09	01/17/09		154		2

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Date	Extraction Date	Analysis Date	Samp. to Extn. Days	Extn. to Analysis Days
					Response	A	B	Constant	C								
REG08096-00557	1	0	5.0	5.0	1300	-1.07E-1	2.41E+1	-3.56E-3			0.01	0.0020	08/11/08	01/06/09	01/07/09	148	1
REG08096-00562	4	18	5.0	5.0	25000	-1.07E-1	2.41E+1	-3.56E-3			0.10	0.0212	08/11/08	01/06/09	01/07/09	148	1
REG08096-00563	4	18	5.0	5.0	28700	-1.07E-1	2.41E+1	-3.56E-3			0.13	0.0269	08/11/08	01/06/09	01/07/09	148	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.		Analysis Days
						Constant A	Constant B	Constant C			Date	Date		Days	Days	
REG08096-00566	1	0	5.0	5.0	261	-3.41E-1	2.61E+1	1.88E-2	0.01	0.0000	07/29/08	01/26/09	01/27/09	181	181	1
REG08096-00571	4	20	5.0	5.0	9980	-3.41E-1	2.61E+1	1.88E-2	0.50	0.0919	07/29/08	01/26/09	01/27/09	181	181	1
REG08096-00572	4	20	5.0	5.0	11400	-3.41E-1	2.61E+1	1.88E-2	0.59	0.1080	07/29/08	01/26/09	01/27/09	181	181	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve			Area Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days	Analysis Days
					Response	A	B	Constant	C	Constant			Date	Date	Date	Date	Days	Days		
REG08096-00575	1	0	5.0	5.0	2010	-1.07E-1	2.41E+1	-3.56E-3			0.01	0.0026	08/06/08	01/06/09	01/07/09	01/07/09	153	153	1	1
REG08096-00580	4	14	5.0	5.0	1180000	-1.07E-1	2.41E+1	-3.56E-3			5.60	1.1600	08/06/08	01/06/09	01/07/09	01/07/09	153	153	1	1
REG08096-00581	4	14	5.0	5.0	901000	-1.07E-1	2.41E+1	-3.56E-3			4.13	0.8580	08/06/08	01/06/09	01/07/09	01/07/09	153	153	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date		Days	Days
REG08096-00584	1	0	5.0	5.0	1910	-1.61E-1	1.89E+1	3.50E-3	0.02	0.0032	08/18/08	03/09/09	03/12/09	203	3
REG08096-00589	4	17	5.0	5.0	12400	-1.61E-1	1.89E+1	3.50E-3	0.08	0.0209	08/18/08	03/09/09	03/12/09	203	3
REG08096-00590	4	17	5.0	5.0	7860	-1.61E-1	1.89E+1	3.50E-3	0.05	0.0136	08/18/08	03/09/09	03/12/09	203	3

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00593	1	0	0	5.0	0	-1.61E-1	1.89E+1	3.50E-3	0.00	0.0000	08/19/08	03/09/09	03/12/09	03/12/09	202	3
REG08096-00598	4	18	5.0	5.0	44100	-1.61E-1	1.89E+1	3.50E-3	0.37	0.0960	08/19/08	03/09/09	03/12/09	03/12/09	202	3
REG08096-00599	4	18	5.0	5.0	55200	-1.61E-1	1.89E+1	3.50E-3	0.49	0.1280	08/19/08	03/09/09	03/12/09	03/12/09	202	3

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days	Analysis Days
				Response	A	Constant	B	Constant	C			Date	Date	Date	Date	Days	Days		
REG08096-00602	1	0	5.0	0	-3.41E-1	2.61E+1	1.88E-2	0.00	0.0000	0.00	0.0000	07/30/08	01/26/09	01/27/09	01/27/09	180	180	1	1
REG08096-00602	1	0	5.0	0	1.39E+0	2.06E+1	1.85E-3	0.00	0.0000	0.00	0.0000	07/30/08	04/23/09	04/25/09	04/25/09	267	267	2	2
REG08096-00607	4	19	5.0	1280	-3.41E-1	2.61E+1	1.88E-2	0.05	0.0064	0.05	0.0064	07/30/08	01/26/09	01/27/09	01/27/09	180	180	1	1
REG08096-00608	4	19	5.0	1350	-3.41E-1	2.61E+1	1.88E-2	0.06	0.0070	0.06	0.0070	07/30/08	01/26/09	01/27/09	01/27/09	180	180	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Hay

Sample ID	No.	Days after Appl.	Trt	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date		Days	Days
REG08096-00611	1	0	5.0	0	0	-1.31E+0	2.47E+1	3.34E-3	0.00	0.0000	08/07/08	01/22/09	01/24/09	168	2
REG08096-00616	4	16	5.0	112000	112000	-1.31E+0	2.47E+1	3.34E-3	1.00	0.2010	08/07/08	01/22/09	01/24/09	168	2
REG08096-00617	4	16	5.0	81600	81600	-1.31E+0	2.47E+1	3.34E-3	0.62	0.1250	08/07/08	01/22/09	01/24/09	168	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Quant.	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant	B	C			Date	Date	Date	Days	Days	
REG08096-00620	1	0	5.0	0	-1.61E-1	1.89E+1	3.50E-3	0.00	0.0000	08/13/08	03/09/09	03/12/09	208	3
REG08096-00625	4	14	5.0	151000	-1.61E-1	1.89E+1	3.50E-3	1.08	0.2850	08/04/08	03/09/09	03/12/09	217	3
REG08096-00626	4	14	5.0	136000	-1.61E-1	1.89E+1	3.50E-3	1.09	0.2880	08/04/08	03/09/09	03/12/09	217	3

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.	
				Response	A	B	Constant	Curve B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00629	1	0	5.0	0	-1.31E+0	2.47E+1	3.34E-3			0.00	0.0000	08/04/08	01/22/09	01/25/09	01/25/09	171	3
REG08096-00634	4	14	5.0	6640	-1.31E+0	2.47E+1	3.34E-3			0.05	0.0087	08/13/08	01/22/09	01/25/09	01/25/09	162	3
REG08096-00635	4	14	5.0	8300	-1.31E+0	2.47E+1	3.34E-3			0.07	0.0143	08/13/08	01/22/09	01/25/09	01/25/09	162	3

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	Dicamba Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days			Analysis Days
				A	B	C	A	B	C					Date	Date	Date	Date	Date	Date	Days	Days	Days	
REG08096-00638	1	0	5.0	678	-3.41E-1	2.61E+1	1.88E-2	0.03	0.0018	0.03	0.0018	0.03	0.0018	07/31/08	01/26/09	01/27/09	01/27/09	01/27/09	01/27/09	179	179	179	1
REG08096-00643	4	20	5.0	5500	-3.41E-1	2.61E+1	1.88E-2	0.32	0.0567	0.32	0.0567	0.32	0.0567	07/31/08	01/26/09	01/27/09	01/27/09	01/27/09	01/27/09	179	179	179	1
REG08096-00644	4	20	5.0	6160	-3.41E-1	2.61E+1	1.88E-2	0.36	0.0650	0.36	0.0650	0.36	0.0650	07/31/08	01/26/09	01/27/09	01/27/09	01/27/09	01/27/09	179	179	179	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
						Constant A	Constant B	Constant C			Date	Date		Days	Days
REG08096-00647	1	0	5.0	0	0	-1.31E+0	2.47E+1	3.34E-3	0.00	0.0000	08/19/08	01/22/09	01/24/09	156	2
REG08096-00652	4	18	5.0	109000	109000	-1.31E+0	2.47E+1	3.34E-3	0.89	0.1800	08/19/08	01/22/09	01/25/09	156	3
REG08096-00653	4	18	5.0	116000	116000	-1.31E+0	2.47E+1	3.34E-3	0.97	0.1960	08/19/08	01/22/09	01/25/09	156	3

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00656	1	0	5.0	165	5.44E+0	2.27E+1	2.48E-3	0.00	0.0004	08/15/08	01/31/09	01/31/09	169	0
REG08096-00661	4	14	5.0	15300	5.44E+0	2.27E+1	2.48E-3	0.29	0.0627	08/15/08	01/31/09	01/31/09	169	0
REG08096-00662	4	14	5.0	8370	5.44E+0	2.27E+1	2.48E-3	0.16	0.0343	08/15/08	01/31/09	01/31/09	169	0

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days		
REG08096-00665	1	0	5.0	372	1.39E+0	2.06E+1	1.85E-3	0.00	0.0005	08/11/08	04/23/09	04/24/09	255	1		
REG08096-00665	1	0	5.0	1110	5.44E+0	2.27E+1	2.48E-3	0.03	0.0050	08/11/08	01/31/09	01/31/09	173	0		
REG08096-00670	4	18	5.0	38800	5.44E+0	2.27E+1	2.48E-3	0.72	0.1560	08/11/08	01/31/09	01/31/09	173	0		
REG08096-00671	4	18	5.0	43700	5.44E+0	2.27E+1	2.48E-3	0.99	0.2140	08/11/08	01/31/09	01/31/09	173	0		

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Extn. Days	Analysis Days
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days		
REG08096-00674	1	0	0	5.0	0	1.39E+0	2.06E+1	1.85E-3	0.00	0.0000	08/19/08	04/23/09	04/24/09	04/24/09	247	247	1	1
REG08096-00674	1	0	0	5.0	828	5.44E+0	2.27E+1	2.48E-3	0.02	0.0033	08/19/08	01/31/09	01/31/09	01/31/09	165	165	0	0
REG08096-00679	4	22	22	5.0	48800	5.44E+0	2.27E+1	2.48E-3	1.00	0.2180	08/19/08	01/31/09	01/31/09	01/31/09	165	165	0	0
REG08096-00680	4	22	22	5.0	39100	5.44E+0	2.27E+1	2.48E-3	0.70	0.1530	08/19/08	01/31/09	01/31/09	01/31/09	165	165	0	0

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response		Curve A		Curve B		Curve C	Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				No.	Days	Constant	Response	Constant	Response				Date	Date	Days	Days		
REG08096-00001	1	0	5.0	0	-2.33E+0	2.52E+1	-5.01E-3	0.00	0.0000	09/30/08	01/14/09	01/15/09	106	1				
REG08096-00001	1	0	5.0	0	3.15E+0	2.31E+1	2.19E-3	0.00	0.0000	09/30/08	11/18/08	11/19/08	49	1				
REG08096-00006	4	89	5.0	0	3.15E+0	2.31E+1	2.19E-3	0.00	0.0000	09/30/08	11/18/08	11/19/08	49	1				
REG08096-00007	4	89	5.0	0	3.15E+0	2.31E+1	2.19E-3	0.00	0.0000	09/30/08	11/18/08	11/19/08	49	1				

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Seed

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve			Area		Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.		Analysis Days
					Response	A	B	Constant	C	Ratio	Response	Ratio		Date	Date		Days	Days	
REG08096-00010	1	0	5.0	5.0	1600	1.07E+1	2.24E+1	7.64E-3	7.64E-3	0.01	0.0000	0.01	0.0000	10/22/08	12/01/08	12/03/08	40	40	2
REG08096-00015	4	77	5.0	5.0	3270	1.07E+1	2.24E+1	7.64E-3	7.64E-3	0.02	0.0020	0.02	0.0020	10/22/08	12/01/08	12/03/08	40	40	2
REG08096-00016	4	77	5.0	5.0	2150	1.07E+1	2.24E+1	7.64E-3	7.64E-3	0.01	0.0012	0.01	0.0012	10/22/08	12/01/08	12/03/08	40	40	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C			Date	Date		Days	Days
REG08096-00019	1	0	5.0	831	7.18E+0	2.34E+1	8.13E-3	0.01	0.0002	10/13/08	12/08/08	12/10/08	56	2
REG08096-00024	4	80	5.0	62	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/13/08	12/08/08	12/10/08	56	2
REG08096-00025	4	80	5.0	0	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/13/08	12/08/08	12/10/08	56	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Seed

Sample ID	No.	Trt	Days after Quant.		Response	Curve A		Curve B		Constant	Curve C	Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
			Appl.	Factor		Constant	Constant	Date	Date					Days	Days			
REG08096-00028	1	0	0	5.0	0	-3.51E+0	2.17E+1	1.24E-3	0.00	0.0000	11/01/08	01/12/09	01/12/09	72	0	72	0	
REG08096-00028	1	0	0	5.0	0	-2.36E+0	2.15E+1	2.77E-3	0.00	0.0000	11/01/08	04/27/09	04/27/09	177	0	177	0	
REG08096-00028	1	0	0	5.0	3680	-1.74E+0	2.21E+1	-3.63E-3	0.02	0.0059	11/01/08	03/17/09	03/17/09	136	0	136	0	
REG08096-00033	4	95	95	5.0	0	-3.51E+0	2.17E+1	1.24E-3	0.00	0.0000	11/01/08	01/12/09	01/12/09	72	0	72	0	
REG08096-00034	4	95	95	5.0	0	-3.51E+0	2.17E+1	1.24E-3	0.00	0.0000	11/01/08	01/12/09	01/12/09	72	0	72	0	

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00037	1	0	5.0	280	3.15E+0	2.31E+1	2.19E-3	0.01	0.0006	10/17/08	11/18/08	11/19/08	11/19/08	32	32	1
REG08096-00042	4	95	5.0	0	3.15E+0	2.31E+1	2.19E-3	0.00	0.0000	10/17/08	11/18/08	11/20/08	11/20/08	32	32	2
REG08096-00043	4	95	5.0	56	3.15E+0	2.31E+1	2.19E-3	0.00	0.0000	10/17/08	11/18/08	11/20/08	11/20/08	32	32	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00046	1	0	5.0	140	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	12/10/08	59	59	2
REG08096-00051	4	74	5.0	0	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	12/10/08	59	59	2
REG08096-00052	4	74	5.0	0	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	12/10/08	59	59	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				Response	A	B	C	Ratio	ppm	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
REG08096-00055	1	0	5.0	0	3.15E+0	2.31E+1	2.19E-3	0.00	0.0000	10/20/08	11/18/08	11/20/08	11/20/08	11/20/08	11/20/08	11/20/08	29	29	2	2
REG08096-00060	4	73	5.0	0	3.15E+0	2.31E+1	2.19E-3	0.00	0.0000	10/20/08	11/18/08	11/20/08	11/20/08	11/20/08	11/20/08	11/20/08	29	29	2	2
REG08096-00061	4	73	5.0	0	3.15E+0	2.31E+1	2.19E-3	0.00	0.0000	10/20/08	11/18/08	11/20/08	11/20/08	11/20/08	11/20/08	11/20/08	29	29	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant	Ratio	Ratio		Date	Date	Days	Days		
REG08096-00064	1	0	5.0	0	2.87E+1	-1.47E-2	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	43	2	
REG08096-00064	1	0	5.0	0	2.09E+1	4.96E-3	-1.54E+0	2.09E+1	4.96E-3	0.00	0.0000	10/27/08	01/15/09	01/16/09	80	80	1	
REG08096-00069	4	95	5.0	0	2.87E+1	-1.47E-2	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	43	2	
REG08096-00070	4	95	5.0	0	2.87E+1	-1.47E-2	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	43	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00073	1	0	5.0	2650	4.42E-1	2.24E+1	-4.06E-3	0.02	0.0058	10/09/08	03/05/09	03/06/09	147	1	1
REG08096-00078	4	77	5.0	1450	4.42E-1	2.24E+1	-4.06E-3	0.01	0.0034	10/09/08	03/05/09	03/06/09	147	1	1
REG08096-00079	4	77	5.0	193	4.42E-1	2.24E+1	-4.06E-3	0.00	0.0012	10/09/08	03/05/09	03/06/09	147	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Extn. Days	Analysis Days
				Response	A	B	C	Ratio	ppm	Date	Date	Date	Date	Date	Date	Date	Days	Days		
REG08096-00082	1	0	5.0	90	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/02/08	12/08/08	12/10/08	12/10/08	12/10/08	12/10/08	12/10/08	67	67	2	2
REG08096-00087	4	85	5.0	1040	7.18E+0	2.34E+1	8.13E-3	0.01	0.0000	10/02/08	12/08/08	12/10/08	12/10/08	12/10/08	12/10/08	12/10/08	67	67	2	2
REG08096-00088	4	85	5.0	0	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/02/08	12/08/08	12/10/08	12/10/08	12/10/08	12/10/08	12/10/08	67	67	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Quant.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling		Extraction		Samp. to Extn. Analysis	
					Constant A	Constant B	Constant C			Date	Date	Date	Days	Days	
REG08096-00091	1	0	5.0	1960	1.07E+1	2.24E+1	7.64E-3	0.01	0.0005	10/19/08	12/01/08	12/03/08	43	2	
REG08096-00096	4	88	5.0	1450	1.07E+1	2.24E+1	7.64E-3	0.01	0.0000	10/19/08	12/01/08	12/03/08	43	2	
REG08096-00097	4	88	5.0	1380	1.07E+1	2.24E+1	7.64E-3	0.01	0.0001	10/19/08	12/01/08	12/03/08	43	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Seed

Sample ID	No.	Trt	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.		Extn. Days	Analysis Days
						Constant A	Constant B	Constant C			Date	Date		Days	Days		
REG08096-00100	1	0	0	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	2		
REG08096-00100	1	0	0	5.0	3180	-4.64E+0	2.36E+1	3.18E-4	0.02	0.0035	10/18/08	03/19/09	03/20/09	152	1		
REG08096-00100	1	0	0	5.0	478	-1.54E+0	2.09E+1	4.96E-3	0.00	0.0000	10/18/08	01/15/09	01/16/09	89	1		
REG08096-00100	1	0	0	5.0	6020	-1.23E+0	2.14E+1	-7.28E-4	0.03	0.0063	10/18/08	03/25/09	03/26/09	158	1		
REG08096-00105	4	78	5.0	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	2		
REG08096-00106	4	78	5.0	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	2		

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				A	B	C	Constant	Constant	Constant	Ratio	Ratio		Date	Date	Days	Days		
REG08096-00109	1	0	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	2		
REG08096-00114	4	78	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3		
REG08096-00115	4	78	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3		

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area		Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				No.	Days	Response	Constant A	Constant B	Constant C	Ratio	Response		Date	Date	Days	Days		
REG08096-00118	1	0	5.0	1730			1.07E+1	2.24E+1	7.64E-3	0.01		0.0007	09/30/08	12/01/08	12/03/08	62	2	
REG08096-00123	4	81	5.0	1690			1.07E+1	2.24E+1	7.64E-3	0.01		0.0006	09/30/08	12/01/08	12/03/08	62	2	
REG08096-00124	4	81	5.0	1470			1.07E+1	2.24E+1	7.64E-3	0.01		0.0000	09/30/08	12/01/08	12/03/08	62	2	

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days	Analysis Days
				Response	A	B	Constant	Curve Constant	C			Date	Date	Date	Date	Days	Days		
REG08096-00127	1	0	5.0	0	-3.51E+0	2.17E+1	1.24E-3			0.00	0.0000	10/17/08	01/12/09	01/12/09	01/12/09	87	87	0	0
REG08096-00127	1	0	5.0	3270	-1.74E+0	2.21E+1	-3.63E-3			0.02	0.0051	10/17/08	03/17/09	03/17/09	03/17/09	151	151	0	0
REG08096-00132	4	87	5.0	0	-3.51E+0	2.17E+1	1.24E-3			0.00	0.0000	10/17/08	01/12/09	01/12/09	01/12/09	87	87	0	0
REG08096-00133	4	87	5.0	0	-3.51E+0	2.17E+1	1.24E-3			0.00	0.0000	10/17/08	01/12/09	01/12/09	01/12/09	87	87	0	0

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant		Area Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.		Analysis Days
				No.	Response	A	Constant	B			Constant	C		Date	Date	
REG08096-00136	1	0	5.0	246	4.42E-1	2.24E+1	-4.06E-3	0.00	0.0013	10/16/08	03/05/09	03/06/09	140	140	1	
REG08096-00141	4	87	5.0	898	4.42E-1	2.24E+1	-4.06E-3	0.01	0.0026	10/16/08	03/05/09	03/06/09	140	140	1	
REG08096-00142	4	87	5.0	0	4.42E-1	2.24E+1	-4.06E-3	0.00	0.0000	10/16/08	03/05/09	03/06/09	140	140	1	

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days	
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00145	1	0	5.0	159	1.66E+0	2.48E+1	4.47E-3	0.00	0.0000	10/24/08	12/08/08	12/10/08	12/10/08	45	2
REG08096-00150	4	86	5.0	0	1.66E+0	2.48E+1	4.47E-3	0.00	0.0000	10/24/08	12/08/08	12/11/08	12/11/08	45	3
REG08096-00151	4	86	5.0	0	1.66E+0	2.48E+1	4.47E-3	0.00	0.0000	10/24/08	12/08/08	12/11/08	12/11/08	45	3

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00154	1	0	5.0	925	2.77E+0	2.31E+1	2.58E-3	0.00	0.0004	10/07/08	12/03/08	12/04/08	57	1	1
REG08096-00159	4	88	5.0	640	2.77E+0	2.31E+1	2.58E-3	0.00	0.0001	10/07/08	12/03/08	12/04/08	57	1	1
REG08096-00160	4	88	5.0	91	2.77E+0	2.31E+1	2.58E-3	0.00	0.0000	10/07/08	12/03/08	12/04/08	57	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
				No.	Days	Factor	A	B	C	Ratio	Response		Date	Analysis Date	Days	Days	Analysis Days
REG08096-00163	1	0	5.0			1060	1.66E+0	2.48E+1	4.47E-3	0.01	0.0021	0.0021	10/16/08	12/08/08	12/11/08	53	3
REG08096-00168	4	76	5.0			0	1.66E+0	2.48E+1	4.47E-3	0.00	0.0000	0.0000	10/16/08	12/08/08	12/11/08	53	3
REG08096-00169	4	76	5.0			0	1.66E+0	2.48E+1	4.47E-3	0.00	0.0000	0.0000	10/16/08	12/08/08	12/11/08	53	3

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.		Analysis Days
					Constant A	Constant B	Constant C			Date	Date		Days	Days	
REG08096-00172	1	0	5.0	256	2.77E+0	2.31E+1	2.58E-3	0.00	0.0000	10/28/08	12/03/08	12/05/08	36	2	2
REG08096-00177	4	88	5.0	0	2.77E+0	2.31E+1	2.58E-3	0.00	0.0000	10/28/08	12/03/08	12/05/08	36	2	2
REG08096-00178	4	88	5.0	440	2.77E+0	2.31E+1	2.58E-3	0.00	0.0000	10/28/08	12/03/08	12/05/08	36	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Quant.	Curve			Curve Constant	Curve C	Area Response	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
			Constant	A	Response					Date	Date		Days	Days
REG08096-00181	1	0	5.0	0	4.42E-1	2.24E+1	-4.06E-3	0.00	0.0000	10/16/08	03/05/09	03/06/09	140	1
REG08096-00186	4	85	5.0	0	4.42E-1	2.24E+1	-4.06E-3	0.00	0.0000	10/17/08	03/05/09	03/06/09	139	1
REG08096-00187	4	85	5.0	0	4.42E-1	2.24E+1	-4.06E-3	0.00	0.0000	10/17/08	03/05/09	03/06/09	139	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00190	1	0	5.0	402	2.77E+0	2.31E+1	2.58E-3	0.00	0.0000	11/03/08	12/03/08	12/05/08	12/05/08	30	30	2
REG08096-00195	4	98	5.0	0	2.77E+0	2.31E+1	2.58E-3	0.00	0.0000	11/03/08	12/03/08	12/05/08	12/05/08	30	30	2
REG08096-00196	4	98	5.0	503	2.77E+0	2.31E+1	2.58E-3	0.00	0.0000	11/03/08	12/03/08	12/05/08	12/05/08	30	30	2

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Forage

Sample ID	Trt	No. Appl.	Days after Quant.	Response	Curve			Area Response Ratio	5-OH Dicamba Analyte ppm	Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C						Days	Days
REG08096-00255	1	0	5.0	411	-1.34E+0	1.62E+1	1.21E-3	0.00	0.0001	07/10/08	08/14/09	08/14/09	400	0
REG08096-00255	1	0	5.0	0	-7.88E-1	1.62E+1	-1.08E-3	0.00	0.0000	07/10/08	03/23/09	03/25/09	256	2
REG08096-00260	4	7	5.0	6730	-1.34E+0	1.62E+1	1.21E-3	0.02	0.0072	07/10/08	08/14/09	08/14/09	400	0
REG08096-00261	4	7	5.0	9680	-7.88E-1	1.62E+1	-1.08E-3	0.03	0.0092	07/10/08	03/23/09	03/25/09	256	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Quant.	Response			Curve Constant			Area Ratio	5-OH Dicamba Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days		
			No.	Appl.	Factor	Response	A	B		C	Constant	ppm	Date	Date	Date	Extrn.	Days	Days	Days		
REG08096-00264	1	0	5.0	0	-2.31E+0	1.67E+1	8.08E-4	0.00	0.0000	08/14/08	03/11/09	03/13/09	209	2							
REG08096-00269	4	8	5.0	8180	-1.34E+0	1.62E+1	1.21E-3	0.03	0.0087	08/14/08	08/14/09	08/14/09	365	0							
REG08096-00270	4	8	5.0	6610	-2.31E+0	1.67E+1	8.08E-4	0.02	0.0060	08/14/08	03/11/09	03/13/09	209	2							

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Forage

Sample ID	Trt	No. Appl.	Days after Quant.	Response	Curve			Area Response Ratio	5-OH Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.	
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Extn. Days	Analysis Days
REG08096-00273	1	0	5.0	637	-4.12E+0	1.96E+1	-9.67E-4	0.00	0.0006	08/01/08	01/07/09	01/08/09	01/08/09	159	1
REG08096-00273	1	0	5.0	0	-1.81E+0	1.55E+1	5.01E-3	0.00	0.0000	08/01/08	05/06/09	05/07/09	05/07/09	278	1
REG08096-00273	1	0	5.0	324	9.13E-1	1.50E+1	3.71E-3	0.00	0.0000	08/01/08	03/12/09	03/14/09	03/14/09	223	2
REG08096-00278	4	7	5.0	3310	-4.12E+0	1.96E+1	-9.67E-4	0.01	0.0031	08/01/08	01/07/09	01/08/09	01/08/09	159	1
REG08096-00279	4	7	5.0	4080	-4.12E+0	1.96E+1	-9.67E-4	0.01	0.0040	08/01/08	01/07/09	01/08/09	01/08/09	159	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Ratio	5-OH Dicamba		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C		Analyte ppm	Days				Days	Days
REG08096-00282	1	0	5.0	0	-7.88E-1	1.62E+1	-1.08E-3	0.00	0.0000		08/06/08	03/23/09	03/25/09	229	2
REG08096-00287	4	8	5.0	973	-7.88E-1	1.62E+1	-1.08E-3	0.00	0.0013		08/06/08	03/23/09	03/25/09	229	2
REG08096-00288	4	8	5.0	1400	-7.88E-1	1.62E+1	-1.08E-3	0.00	0.0018		08/06/08	03/23/09	03/25/09	229	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Quant.	Response			Curve Constant			Area Ratio	5-OH Dicamba Analyte ppm	Sampling Extraction			Analysis Date			Samp. to Extn. Analysis Days		
			No.	Appl. Factor	Response	Constant	A	B			C	Date	Date	Date	Extrn. Date	Days	Days	Days	
REG08096-00291	1	0	5.0	289	-1.08E+0	1.51E+1	-5.33E-4	0.00	0.0005	07/21/08	03/16/09	03/17/09	03/17/09	238	1				
REG08096-00296	4	7	5.0	1870	-1.08E+0	1.51E+1	-5.33E-4	0.01	0.0024	07/21/08	03/16/09	03/17/09	03/17/09	238	1				
REG08096-00297	4	7	5.0	2730	-1.08E+0	1.51E+1	-5.33E-4	0.01	0.0035	07/21/08	03/16/09	03/17/09	03/17/09	238	1				

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Forage

Sample ID	Trt	No. Appl.	Days after Quant.	Response			Curve			Area Ratio	5-OH Dicamba		Sampling Extraction		Analysis Date		Samp. to Extn.	
				Factor	Response	A	Constant	B	C		Analyte	ppm	Date	Date	Date	Date	Days	Days
REG08096-00300	1	0	5.0	559		-1.08E+0	1.51E+1		-5.33E-4	0.00	0.0009		08/05/08	03/16/09	03/17/09	03/17/09	223	1
REG08096-00305	4	8	5.0	3040		-1.08E+0	1.51E+1		-5.33E-4	0.01	0.0036		08/05/08	03/16/09	03/17/09	03/17/09	223	1
REG08096-00306	4	8	5.0	2670		-1.08E+0	1.51E+1		-5.33E-4	0.01	0.0032		08/05/08	03/16/09	03/17/09	03/17/09	223	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Quant.	Curve			Area Response Ratio	5-OH Dicamba		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.		
			Constant A	Constant B	Constant C		Analyte ppm	Days				Days		
REG08096-00309	1	0	1700	-4.12E+0	1.96E+1	-9.67E-4	0.01	0.0018	08/15/08	01/07/09	01/08/09	145	1	
REG08096-00309	1	0	167	9.13E-1	1.50E+1	3.71E-3	0.00	0.0000	08/15/08	03/12/09	03/14/09	209	2	
REG08096-00314	4	7	5.0	7260	-4.12E+0	1.96E+1	-9.67E-4	0.03	0.0088	08/15/08	01/07/09	01/08/09	145	1
REG08096-00315	4	7	5.0	11200	-4.12E+0	1.96E+1	-9.67E-4	0.04	0.0102	08/15/08	01/07/09	01/08/09	145	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response	5-OH Dicamba		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C		Analyte ppm	Ratio				Days	Days
REG08096-00318	1	0	5.0	919	-7.66E-2	1.55E+1	3.22E-3	0.00	0.0000	0.00	08/01/08	03/23/09	03/24/09	234	1
REG08096-00323	4	8	5.0	2170	-7.66E-2	1.55E+1	3.22E-3	0.01	0.0010	0.01	08/01/08	03/23/09	03/24/09	234	1
REG08096-00324	4	8	5.0	6820	-7.66E-2	1.55E+1	3.22E-3	0.02	0.0052	0.02	08/01/08	03/23/09	03/24/09	234	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Quant.	Curve			Curve			Area Ratio	5-OH Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn to Analysis	
			Response	Constant	Constant	Constant	Constant	Date			Date	Date	Days	Days	Days	
REG08096-00327	1	0	5.0	965	-7.66E-2	1.55E+1	3.22E-3	0.00	0.0000	07/31/08	03/23/09	03/24/09	235	1		
REG08096-00332	4	7	5.0	2830	-7.66E-2	1.55E+1	3.22E-3	0.01	0.0015	07/31/08	03/23/09	03/25/09	235	2		
REG08096-00333	4	7	5.0	2860	-7.66E-2	1.55E+1	3.22E-3	0.01	0.0018	07/31/08	03/23/09	03/25/09	235	2		

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response			Curve Constant			Area Ratio	5-OH Dicamba Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days		
				A	B	C	A	B	C		ppm	ppm	ppm	Date	Date	Date	Date	Date	Date	Days	Days	Days
REG08096-00336	1	0	5.0	0	-2.31E+0	1.67E+1	8.08E-4			0.00	0.0000	0.0000	0.0000	07/16/08	03/11/09	03/14/09	03/14/09	03/14/09	03/14/09	238	238	3
REG08096-00341	4	7	5.0	2270	-2.31E+0	1.67E+1	8.08E-4			0.01	0.0022	0.0022	0.0022	07/16/08	03/11/09	03/14/09	03/14/09	03/14/09	03/14/09	238	238	3
REG08096-00342	4	7	5.0	5910	-2.31E+0	1.67E+1	8.08E-4			0.02	0.0063	0.0063	0.0063	07/16/08	03/11/09	03/14/09	03/14/09	03/14/09	03/14/09	238	238	3

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Forage

Sample ID	Trt	No. Appl.	Days after Quant.	Response			Curve			Area Ratio	5-OH Dicamba		Sampling Extraction		Analysis Date		Samp. to Extn.	
				Factor	Response	A	Constant	B	C		Analyte	ppm	Date	Date	Date	Date	Extrm. Days	Analysis Days
REG08096-00345	1	0	5.0		2030	-4.12E+0	1.96E+1	1.96E+1	-9.67E-4	0.01	0.0020		07/30/08	01/07/09	01/08/09	01/08/09	161	1
REG08096-00345	1	0	5.0		381	9.13E-1	1.50E+1	1.50E+1	3.71E-3	0.00	0.0000		07/30/08	03/12/09	03/14/09	03/14/09	225	2
REG08096-00350	4	7	5.0		7040	-4.12E+0	1.96E+1	1.96E+1	-9.67E-4	0.02	0.0063		07/30/08	01/07/09	01/08/09	01/08/09	161	1
REG08096-00351	4	7	5.0		3800	-4.12E+0	1.96E+1	1.96E+1	-9.67E-4	0.03	0.0067		07/30/08	01/07/09	01/08/09	01/08/09	161	1

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response	5-OH Dicamba		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant	Curve	Constant		Analyte	ppm				Days	Days
REG08096-00354	1	0	5.0	588	-5.76E-1	1.68E+1	2.62E-3	0.00	0.0000	0.0000	08/08/08	01/21/09	01/22/09	166	1
REG08096-00354	1	0	5.0	0	1.02E+0	1.46E+1	1.58E-3	0.00	0.0000	0.0000	08/08/08	03/25/09	03/26/09	229	1
REG08096-00359	4	7	5.0	3800	-5.76E-1	1.68E+1	2.62E-3	0.01	0.0025	0.0025	08/08/08	01/21/09	01/22/09	166	1
REG08096-00360	4	7	5.0	3440	-5.76E-1	1.68E+1	2.62E-3	0.01	0.0023	0.0023	08/08/08	01/21/09	01/22/09	166	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Forage

Sample ID	Trt	No. Appl.	Days after Quant.	Curve			Area Response	5-OH Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant	Curve	Constant			Date	Date	Date	Date	Days	Days
REG08096-00363	1	0	5.0	-1.34E+0	1.67E+1	2.90E-4	0.00	0.0000	08/08/08	03/19/09	03/19/09	03/19/09	223	0
REG08096-00368	4	7	5.0	-1.34E+0	1.67E+1	2.90E-4	0.01	0.0030	08/08/08	03/19/09	03/19/09	03/19/09	223	0
REG08096-00369	4	7	5.0	-1.34E+0	1.67E+1	2.90E-4	0.01	0.0024	08/08/08	03/19/09	03/19/09	03/19/09	223	0

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Forage

Sample ID	Trt	No. Appl.	Days after Quant.	Response	Curve			Area Response Ratio	5-OH Dicamba Analyte ppm	Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C						Days	Days
REG08096-00372	1	0	5.0	57	-1.08E+0	1.51E+1	-5.33E-4	0.00	0.0003	07/18/08	03/16/09	03/16/09	241	0
REG08096-00377	4	7	5.0	4450	-1.08E+0	1.51E+1	-5.33E-4	0.02	0.0060	07/18/08	03/16/09	03/16/09	241	0
REG08096-00378	4	7	5.0	3730	-1.08E+0	1.51E+1	-5.33E-4	0.01	0.0050	07/18/08	03/16/09	03/16/09	241	0

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response	5-OH Dicamba		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant	Curve	Constant		Analyte	ppm				Days	Days
REG08096-00381	1	0	5.0	835	-1.34E+0	1.67E+1	2.90E-4	0.00	0.0007	0.0007	07/29/08	03/19/09	03/19/09	233	0
REG08096-00386	4	7	5.0	3480	-1.34E+0	1.67E+1	2.90E-4	0.01	0.0033	0.0033	07/29/08	03/19/09	03/19/09	233	0
REG08096-00387	4	7	5.0	3380	-1.34E+0	1.67E+1	2.90E-4	0.01	0.0032	0.0032	07/29/08	03/19/09	03/19/09	233	0

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area	5-OH Dicamba		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
						Constant	Curve	Constant	Response	Analyte	ppm				Days	Days
REG08096-00390	1	0	5.0		190	-5.76E-1	1.68E+1	2.62E-3	0.00	0.0000		08/07/08	01/21/09	01/22/09	167	1
REG08096-00395	4	7	5.0		7510	-5.76E-1	1.68E+1	2.62E-3	0.02	0.0063		07/28/08	01/21/09	01/22/09	177	1
REG08096-00396	4	7	5.0		5170	-5.76E-1	1.68E+1	2.62E-3	0.02	0.0039		07/28/08	01/21/09	01/22/09	177	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response	5-OH Dicamba Analyte ppm	Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C						Days	Analysis Days
REG08096-00399	1	0	5.0	0	-4.17E+0	1.67E+1	-2.81E-3	0.00	0.0000	07/28/08	03/26/09	03/28/09	241	2
REG08096-00404	4	8	5.0	7730	-4.17E+0	1.67E+1	-2.81E-3	0.02	0.0079	08/07/08	03/26/09	03/28/09	231	2
REG08096-00405	4	8	5.0	5570	-4.17E+0	1.67E+1	-2.81E-3	0.02	0.0059	08/07/08	03/26/09	03/28/09	231	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Forage

Sample ID	Trt	No. Appl.	Days after Quant.	Curve			Area Response	5-OH Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00408	1	0	5.0	-2.31E+0	1.67E+1	8.08E-4	0	0.0000	07/18/08	03/11/09	03/13/09	03/13/09	236	2
REG08096-00413	4	7	5.0	-2.31E+0	1.67E+1	8.08E-4	4490	0.0057	07/18/08	03/11/09	03/14/09	03/14/09	236	3
REG08096-00414	4	7	5.0	-2.31E+0	1.67E+1	8.08E-4	2180	0.0028	07/18/08	03/11/09	03/14/09	03/14/09	236	3

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Forage

Sample ID	Trt	No. Appl.	Days after Quant.	Curve			Area Response	5-OH Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant	Curve Constant	Curve Constant			Date	Date	Date	Date	Days	Days
REG08096-00417	1	0	5.0	-4.17E+0	1.67E+1	-2.81E-3	0.00	0.0000	08/08/08	03/26/09	03/28/09	03/28/09	230	2
REG08096-00422	4	7	5.0	-4.17E+0	1.67E+1	-2.81E-3	0.02	0.0056	08/08/08	03/26/09	03/28/09	03/28/09	230	2
REG08096-00423	4	7	5.0	-4.17E+0	1.67E+1	-2.81E-3	0.02	0.0060	08/08/08	03/26/09	03/28/09	03/28/09	230	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	5-OH Dicamba		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
						Constant A	Constant B	Constant C		Analyte ppm	Days				Extrm. Days	Analysis Days
REG08096-00426	1	0	0	5.0	92	-4.17E+0	1.67E+1	-2.81E-3	0.00	0.0009		08/08/08	03/26/09	03/28/09	230	2
REG08096-00426	1	0	0	5.0	0	-1.38E+0	1.58E+1	9.73E-4	0.00	0.0000		08/08/08	04/27/09	04/27/09	262	0
REG08096-00431	4	7	7	5.0	5260	-4.17E+0	1.67E+1	-2.81E-3	0.02	0.0055		08/08/08	03/26/09	03/28/09	230	2
REG08096-00432	4	7	7	5.0	5290	-4.17E+0	1.67E+1	-2.81E-3	0.02	0.0056		08/08/08	03/26/09	03/28/09	230	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response	5-OH Dicamba Analyte ppm	Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C						Days	Analysis Days
REG08096-00435	1	0	5.0	0	-1.34E+0	1.67E+1	2.90E-4	0.00	0.0000	07/31/08	03/19/09	03/19/09	231	0
REG08096-00440	4	7	5.0	3920	-1.34E+0	1.67E+1	2.90E-4	0.01	0.0041	07/31/08	03/19/09	03/20/09	231	1
REG08096-00441	4	7	5.0	4450	-1.34E+0	1.67E+1	2.90E-4	0.02	0.0048	07/31/08	03/19/09	03/20/09	231	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response	5-OH Dicamba		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C		Analyte ppm	Ratio				Days	Days
REG08096-00444	1	0	5.0	611	-5.76E-1	1.68E+1	2.62E-3	0.00	0.0000	0.00	08/07/08	01/21/09	01/22/09	167	1
REG08096-00449	4	10	5.0	6380	-5.76E-1	1.68E+1	2.62E-3	0.02	0.0045	0.02	08/07/08	01/21/09	01/22/09	167	1
REG08096-00450	4	10	5.0	7940	-5.76E-1	1.68E+1	2.62E-3	0.02	0.0055	0.02	08/07/08	01/21/09	01/22/09	167	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response			Analyte ppm	Sampling Extraction			Analysis Date	Samp. to Extn.		
				No.	Days	Response	A	B	C	Ratio	Response	Area		Date	Date	Date		Days	Days	Days
REG08096-00485	1	0	5.0	0		0	-5.29E+0	1.78E+1	4.01E-4	0.00	0.0000	0.00	0.0000	07/18/08	02/04/09	02/05/09	201	201	1	1
REG08096-00485	1	0	5.0	0		0	-1.38E+0	1.58E+1	9.73E-4	0.00	0.0000	0.00	0.0000	07/18/08	04/27/09	04/28/09	283	283	1	1
REG08096-00490	4	15	5.0	12100		12100	-5.29E+0	1.78E+1	4.01E-4	0.04	0.0100	0.04	0.0100	07/18/08	02/04/09	02/05/09	201	201	1	1
REG08096-00491	4	15	5.0	13600		13600	-5.29E+0	1.78E+1	4.01E-4	0.04	0.0114	0.04	0.0114	07/18/08	02/04/09	02/05/09	201	201	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Factor	Response			Curve			Area Response Ratio	Analyte ppm	Sampling Date	Extraction Date	Analysis Date	Samp. to Extn. Days	Extn. Analysis Days
					Response	A	B	Constant	Curve Constant	C							
REG08096-00494	1	0	5.0	0	0	-5.29E+0	1.78E+1	4.01E-4	0.00	0.0000	0.00	0.0000	08/30/08	02/04/09	02/05/09	158	1
REG08096-00499	4	24	5.0	0	0	-5.29E+0	1.78E+1	4.01E-4	0.00	0.0000	0.00	0.0000	08/30/08	02/04/09	02/05/09	158	1
REG08096-00500	4	24	5.0	0	0	-5.29E+0	1.78E+1	4.01E-4	0.00	0.0000	0.00	0.0000	08/30/08	02/04/09	02/05/09	158	1

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.		Extn. Days	Analysis Days
						Constant	Curve Constant	Curve Constant			Date	Date		Days	Days		
REG08096-00503	1	0	0	5.0	0	-3.37E+0	1.62E+1	-1.48E-3	0.00	0.0000	08/11/08	02/25/09	02/26/09	198	198	1	1
REG08096-00503	1	0	0	5.0	0	-1.15E+0	1.49E+1	2.85E-3	0.00	0.0000	08/11/08	03/17/09	03/17/09	218	218	0	0
REG08096-00508	4	17	17	5.0	3040	-3.37E+0	1.62E+1	-1.48E-3	0.01	0.0041	08/11/08	02/25/09	02/26/09	198	198	1	1
REG08096-00509	4	17	17	5.0	2800	-3.37E+0	1.62E+1	-1.48E-3	0.01	0.0047	08/11/08	02/25/09	02/26/09	198	198	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Hay

Sample ID	No.	Days after Appl.	Trt	Factor	Response	Curve			Area Response Ratio	-OH Dicamb Analyte ppm		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn. Days		Analysis Days
						Constant A	Constant B	Constant C									
REG08096-00512	1	0		5.0	8170	6.52E-1	2.29E+1	1.90E-3	0.04	0.0077	0.0077	08/16/08	01/06/09	01/07/09	143	143	1
REG08096-00517	4	18		5.0	10700	6.52E-1	2.29E+1	1.90E-3	0.06	0.0120	0.0120	08/16/08	01/06/09	01/07/09	143	143	1
REG08096-00518	4	18		5.0	10700	6.52E-1	2.29E+1	1.90E-3	0.05	0.0111	0.0111	08/16/08	01/06/09	01/07/09	143	143	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	-OH Dicamb Analyte ppm			Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
				No.	Days	Response	Constant A	Constant B	Constant C								Days	Days
REG08096-00521	1	0	5.0	0		0	-5.29E+0	1.78E+1	4.01E-4	0.00	0.0000	0.0000	0.0000	08/04/08	02/04/09	02/05/09	184	1
REG08096-00526	4	21	5.0	4880		4880	-5.29E+0	1.78E+1	4.01E-4	0.01	0.0037	0.01	0.0037	08/04/08	02/04/09	02/05/09	184	1
REG08096-00527	4	21	5.0	5900		5900	-5.29E+0	1.78E+1	4.01E-4	0.02	0.0044	0.02	0.0044	08/04/08	02/04/09	02/05/09	184	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			-OH Dicamb Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days			Analysis Days
				A	B	C	A	B	C	Ratio	Ratio	Ratio	ppm	ppm	ppm	Date	Date	Date	Date	Date	Date	Days	Days	Days	
REG08096-00530	1	0	5.0	0	1.62E+1	-1.48E-3	-3.37E+0	1.62E+1	-1.48E-3	0.00	0.00	0.00	0.0000	0.0000	0.0000	08/15/08	02/25/09	02/26/09	02/26/09	02/26/09	02/26/09	194	194	194	1
REG08096-00535	4	18	5.0	1630	1.62E+1	-1.48E-3	-3.37E+0	1.62E+1	-1.48E-3	0.01	0.01	0.01	0.0027	0.0027	0.0027	08/15/08	02/25/09	02/26/09	02/26/09	02/26/09	02/26/09	194	194	194	1
REG08096-00536	4	18	5.0	1980	1.62E+1	-1.48E-3	-3.37E+0	1.62E+1	-1.48E-3	0.01	0.01	0.01	0.0032	0.0032	0.0032	08/15/08	02/25/09	02/26/09	02/26/09	02/26/09	02/26/09	194	194	194	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	-OH Dicamb		Sampling Extraction		Analysis		Samp. to Extn.	
				Response	Constant A	Constant B	Constant C	Analyte ppm	Date	Date	Date	Date	Days	Days	Days
REG08096-00539	1	0	5.0	0	-1.81E+0	1.55E+1	5.01E-3	0.00	0.0000	08/23/08	05/06/09	05/06/09	256	0	0
REG08096-00539	1	0	5.0	0	2.13E-1	1.62E+1	-1.72E-3	0.00	0.0000	08/23/08	03/03/09	03/04/09	192	1	1
REG08096-00539	1	0	5.0	0	2.25E+0	2.20E+1	7.61E-3	0.00	0.0000	08/23/08	01/15/09	01/17/09	145	2	2
REG08096-00544	4	15	5.0	4030	2.13E-1	1.62E+1	-1.72E-3	0.02	0.0075	08/23/08	03/03/09	03/04/09	192	1	1
REG08096-00545	4	15	5.0	4550	2.13E-1	1.62E+1	-1.72E-3	0.02	0.0081	08/23/08	03/03/09	03/04/09	192	1	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Quant.		Response	Curve Constant			Area Response Ratio	-OH Dicamb Analyte ppm		Sampling Extraction Date		Analysis Date		Samp. to Extn. Days	
		No.	Appl. Factor		A	B	C		Response	ppm	Date	Date	Days	Days		
REG08096-00548	1	0	5.0	0	2.13E-1	1.62E+1	-1.72E-3	0.00	0.0000	08/14/08	03/03/09	03/04/09	201	1		
REG08096-00548	1	0	5.0	0	2.25E+0	2.20E+1	7.61E-3	0.00	0.0000	08/14/08	01/15/09	01/17/09	154	2		
REG08096-00553	4	21	5.0	1670	2.13E-1	1.62E+1	-1.72E-3	0.01	0.0030	08/14/08	03/03/09	03/05/09	201	2		
REG08096-00554	4	21	5.0	3390	2.13E-1	1.62E+1	-1.72E-3	0.02	0.0057	08/14/08	03/03/09	03/05/09	201	2		

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Hay

Sample ID	No.	Trt	Days after Quant.	Curve		Curve		Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant	Response	Constant	Response			Date	Date	Date	Date	Days	Days
REG08096-00557	1	0	5.0	3840	6.52E-1	2.29E+1	1.90E-3	0.02	0.0039	08/11/08	01/06/09	01/07/09	148	1	
REG08096-00562	4	18	5.0	8600	6.52E-1	2.29E+1	1.90E-3	0.04	0.0088	08/11/08	01/06/09	01/07/09	148	1	
REG08096-00563	4	18	5.0	8480	6.52E-1	2.29E+1	1.90E-3	0.04	0.0087	08/11/08	01/06/09	01/07/09	148	1	

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve		Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Date	Extraction Date	Analysis Date	Samp. to Extn. Days	Extn. Analysis Days
					Response	A	B	Constant	Curve Constant							
REG08096-00566	1	0	5.0	0	1.40E+0	2.04E+1	1.68E-3	0.00	0.0000	0.00	0.0000	07/29/08	01/26/09	01/27/09	181	1
REG08096-00571	4	20	5.0	2620	1.40E+0	2.04E+1	1.68E-3	0.01	0.0028	0.01	0.0028	07/29/08	01/26/09	01/27/09	181	1
REG08096-00572	4	20	5.0	4990	1.40E+0	2.04E+1	1.68E-3	0.02	0.0054	0.02	0.0054	07/29/08	01/26/09	01/27/09	181	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			-OH Dicamb Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days			Extn. Analysis Days		
				Response			A			B			C			Date			Date			Days			Days		
REG08096-00575	1	0	5.0	4810	6.52E-1	2.29E+1	1.90E-3	0.02	0.0041	0.07	0.0138	0.05	0.0096	0.07	0.0138	0.05	0.0096	0.07	0.0138	0.05	0.0096	0.07	0.0138	0.05	0.0096	0.07	0.0138
REG08096-00580	4	14	5.0	12700	6.52E-1	2.29E+1	1.90E-3	0.07	0.0138	0.07	0.0138	0.05	0.0096	0.07	0.0138	0.05	0.0096	0.07	0.0138	0.05	0.0096	0.07	0.0138	0.05	0.0096	0.07	0.0138
REG08096-00581	4	14	5.0	9570	6.52E-1	2.29E+1	1.90E-3	0.05	0.0096	0.05	0.0096	0.05	0.0096	0.05	0.0096	0.05	0.0096	0.05	0.0096	0.05	0.0096	0.05	0.0096	0.05	0.0096	0.05	0.0096

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			-OH Dicamb Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days		
				Response			A			B			C			Date			Date			Days		
REG08096-00584	1	0	5.0	0			-3.12E-1			1.65E+1			3.71E-3			0.00	0.0000	08/18/08	03/09/09	03/12/09	03/12/09	203	3	
REG08096-00589	4	17	5.0	2390			-3.12E-1			1.65E+1			3.71E-3			0.01	0.0021	08/18/08	03/09/09	03/12/09	03/12/09	203	3	
REG08096-00590	4	17	5.0	1810			-3.12E-1			1.65E+1			3.71E-3			0.01	0.0012	08/18/08	03/09/09	03/12/09	03/12/09	203	3	

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response			-OH Dicamb Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days		
				Response			A			B			C			Ratio			ppm			Date		
REG08096-00593	1	0	5.0	0	-3.12E-1	1.65E+1	3.71E-3	0.00	0.0000	08/19/08	03/09/09	03/12/09	202	3										
REG08096-00598	4	18	5.0	3810	-3.12E-1	1.65E+1	3.71E-3	0.02	0.0043	08/19/08	03/09/09	03/12/09	202	3										
REG08096-00599	4	18	5.0	3890	-3.12E-1	1.65E+1	3.71E-3	0.02	0.0042	08/19/08	03/09/09	03/12/09	202	3										

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio		Analyte ppm	Sampling Extraction Date		Analysis Date	Samp. to Extn. Days	
				A	B	C	A	B	C	Ratio	Ratio		Date	Date		Days	Days
REG08096-00602	1	0	5.0	0	2.04E+1	1.68E-3	1.40E+0	2.04E+1	1.68E-3	0.00	0.0000	0.0000	07/30/08	01/26/09	01/27/09	180	1
REG08096-00607	4	19	5.0	2390	2.04E+1	1.68E-3	1.40E+0	2.04E+1	1.68E-3	0.01	0.0024	0.0024	07/30/08	01/26/09	01/27/09	180	1
REG08096-00608	4	19	5.0	2660	2.04E+1	1.68E-3	1.40E+0	2.04E+1	1.68E-3	0.01	0.0026	0.0026	07/30/08	01/26/09	01/27/09	180	1

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Hay

Sample ID	No.	Days after Appl.	Trt	Response	Curve			Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Analysis Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00611	1	0	5.0	0	3.52E-1	2.13E+1	3.29E-3	0.00	0.0000	08/07/08	01/22/09	01/24/09	01/24/09	168	168	2
REG08096-00616	4	16	5.0	8070	3.52E-1	2.13E+1	3.29E-3	0.03	0.0066	08/07/08	01/22/09	01/24/09	01/24/09	168	168	2
REG08096-00617	4	16	5.0	3260	3.52E-1	2.13E+1	3.29E-3	0.01	0.0021	08/07/08	01/22/09	01/24/09	01/24/09	168	168	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Quant.	Curve			Curve			Area			-OH Dicamb			Sampling Extraction			Analysis			Samp. to Extn. Analysis		
			Response	Constant	Curve	Response	Constant	Curve	Response	Constant	Curve	Response	Analyte	Date	ppm	Date	Date	Extrn.	Days	Days			
REG08096-00620	1	0	5.0	193	-3.12E-1	1.65E+1	3.71E-3	0.00	0.0000	0.03	0.0067	08/13/08	03/09/09	03/12/09	208	217	217	03/12/09	03/12/09	03/12/09			
REG08096-00625	4	14	5.0	5630	-3.12E-1	1.65E+1	3.71E-3	0.03	0.0067	0.03	0.0079	08/04/08	03/09/09	03/12/09	217	217	217	03/12/09	03/12/09	03/12/09			
REG08096-00626	4	14	5.0	6650	-3.12E-1	1.65E+1	3.71E-3	0.03	0.0079	0.03	0.0079	08/04/08	03/09/09	03/12/09	217	217	217	03/12/09	03/12/09	03/12/09			

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			-OH Dicamb Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days			Extn. Analysis Days		
				Response			A			B			C			Date			Date			Days			Days		
REG08096-00629	1	0	5.0	0	3.52E-1	2.13E+1	3.29E-3	0.00	0.0000	08/04/08	01/22/09	01/25/09	171	3													
REG08096-00634	4	14	5.0	8930	3.52E-1	2.13E+1	3.29E-3	0.03	0.0071	08/13/08	01/22/09	01/25/09	162	3													
REG08096-00635	4	14	5.0	12800	3.52E-1	2.13E+1	3.29E-3	0.05	0.0109	08/13/08	01/22/09	01/25/09	162	3													

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio		Analyte ppm	Sampling Extraction Date		Analysis Date	Samp. to Extn. Days	
				A	B	C	A	B	C	Ratio	Ratio		Date	Date		Days	Days
REG08096-00638	1	0	5.0	0	2.04E+1	1.68E-3	1.40E+0	2.04E+1	1.68E-3	0.00	0.0000	0.0000	07/31/08	01/26/09	01/27/09	179	1
REG08096-00643	4	20	5.0	1510	2.04E+1	1.68E-3	1.40E+0	2.04E+1	1.68E-3	0.01	0.0014	0.0014	07/31/08	01/26/09	01/27/09	179	1
REG08096-00644	4	20	5.0	2200	2.04E+1	1.68E-3	1.40E+0	2.04E+1	1.68E-3	0.01	0.0021	0.0021	07/31/08	01/26/09	01/27/09	179	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Quant.	Factor	Response	Curve			Area	-OH Dicamb		Analyte	Sampling Extraction		Analysis Date	Samp. to Extn.	
						Constant	Curve	Constant		Response	Ratio		ppm	Date		Date	Days
REG08096-00647	1	0	5.0	0	3.52E-1	2.13E+1	3.29E-3	0.00	0.0000	0.0000	08/19/08	01/22/09	01/24/09	156	2		
REG08096-00652	4	18	5.0	6050	3.52E-1	2.13E+1	3.29E-3	0.02	0.0050	0.0050	08/19/08	01/22/09	01/25/09	156	3		
REG08096-00653	4	18	5.0	4270	3.52E-1	2.13E+1	3.29E-3	0.02	0.0035	0.0035	08/19/08	01/22/09	01/25/09	156	3		

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			-OH Dicamb Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days			Analysis Days		
				Response			A			B			C			Date			Date			Days			Days		
REG08096-00656	1	0	5.0	0	1.22E+0	1.68E+1	-8.73E-4	0.00	0.0000	0.01	0.0037	0.01	0.0042	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
REG08096-00661	4	14	5.0	3450	1.22E+0	1.68E+1	-8.73E-4	0.01	0.0037	0.01	0.0037	0.01	0.0042	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037
REG08096-00662	4	14	5.0	3680	1.22E+0	1.68E+1	-8.73E-4	0.01	0.0042	0.01	0.0042	0.01	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio	-OH Dicamb Analyte ppm			Sampling Extraction Analysis Date			Samp. to Extn. Days		
				A	B	C	A	B	C		ppm	ppm	ppm	Date	Date	Date	Days	Days	Days
REG08096-00665	1	0	5.0	0	1.22E+0	1.68E+1	-8.73E-4	0.00	0.0000	0.00	0.0000	0.00	0.0000	08/11/08	01/31/09	01/31/09	173	173	0
REG08096-00670	4	18	5.0	5590	1.22E+0	1.68E+1	-8.73E-4	0.02	0.0058	0.02	0.0058	0.02	0.0058	08/11/08	01/31/09	01/31/09	173	173	0
REG08096-00671	4	18	5.0	2570	1.22E+0	1.68E+1	-8.73E-4	0.01	0.0029	0.01	0.0029	0.01	0.0029	08/11/08	01/31/09	01/31/09	173	173	0

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			-OH Dicamb Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days			Analysis Days		
				Response			A			B			C			Date			Date			Days			Days		
REG08096-00674	1	0	5.0	0	1.22E+0	1.68E+1	-8.73E-4	0.00	0.0000	0.02	0.0066	0.0051	08/19/08	01/31/09	01/31/09	165	0										
REG08096-00679	4	22	5.0	6180	1.22E+0	1.68E+1	-8.73E-4	0.02	0.0066	0.02	0.0066	0.0051	08/19/08	01/31/09	01/31/09	165	0										
REG08096-00680	4	22	5.0	5250	1.22E+0	1.68E+1	-8.73E-4	0.02	0.0051	0.02	0.0051	0.0051	08/19/08	01/31/09	01/31/09	165	0										

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	-OH Dicamb		Sampling Extraction		Analysis		Samp. to Extn.	
				Constant	Curve Constant	Curve Constant		Analyte	ppm	Date	Date	Date	Date	Days	Days
REG08096-00001	1	0	5.0	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0000	0.0000	09/30/08	11/18/08	11/19/08	49	49	1
REG08096-00001	1	0	5.0	-7.81E-1	2.28E+1	4.95E-3	0.00	0.0000	0.0000	09/30/08	01/14/09	01/15/09	106	106	1
REG08096-00001	1	0	5.0	-2.75E-1	2.18E+1	2.57E-3	0.00	0.0000	0.0000	09/30/08	01/20/09	01/20/09	112	112	0
REG08096-00006	4	89	5.0	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0000	0.0000	09/30/08	11/18/08	11/19/08	49	49	1
REG08096-00007	4	89	5.0	-1.89E+0	2.21E+1	-2.20E-3	0.01	0.0018	0.0018	09/30/08	11/18/08	11/19/08	49	49	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: GA, Montezuma
Matrix: Soybean Seed

Sample ID	Trt	No.	Days after Appl.	Factor	Curve			Constant	Curve C	Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Extn.	
					Constant	A	B					Date	Date		Days	Days
REG08096-00010	1	0	5.0	5.0	10200	-8.17E-1	2.17E+1	-2.30E-3	0.02	0.0041	10/22/08	12/01/08	12/03/08	40	2	
REG08096-00015	4	77	5.0	5.0	14100	-8.17E-1	2.17E+1	-2.30E-3	0.02	0.0057	10/22/08	12/01/08	12/03/08	40	2	
REG08096-00016	4	77	5.0	5.0	16800	-8.17E-1	2.17E+1	-2.30E-3	0.03	0.0071	10/22/08	12/01/08	12/03/08	40	2	

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Seed

Sample ID	Trt	No.	Days after Appl.	Factor	Response			Curve Constant			Area Response Ratio			Analyte ppm	Sampling Extraction			Analysis Date			Samp. to Extn. Days		
					Response	A	B	C	Curve Constant	C	Ratio	Response	Area	-OH Dicamb	Date	Date	Date	Date	Date	Date	Days	Extn. Days	Analysis Days
REG08096-00019	1	0	0	5.0	0	-2.34E+0	2.25E+1	1.27E-6			0.00	0.0000	0.0000	0.0000	10/13/08	12/08/08	12/10/08	12/10/08	12/10/08	12/10/08	56	56	2
REG08096-00024	4	80	80	5.0	3380	-2.34E+0	2.25E+1	1.27E-6			0.01	0.0014	0.0014	0.0014	10/13/08	12/08/08	12/10/08	12/10/08	12/10/08	12/10/08	56	56	2
REG08096-00025	4	80	80	5.0	1450	-2.34E+0	2.25E+1	1.27E-6			0.00	0.0006	0.0006	0.0006	10/13/08	12/08/08	12/10/08	12/10/08	12/10/08	12/10/08	56	56	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-2, Hedrick
Matrix: Soybean Seed

Sample ID	No.	Trt	Days		Response	Curve		Constant	Curve	Constant	Response	Area	-OH Dicamb		Sampling	Extraction		Analysis	Date	Samp. to		Extn.	Analysis
			Appl.	after		A	B						C	Ratio		Analyte	Date			Date	Days		
REG08096-00028	1	0	0	5.0	563	-3.08E+0	1.77E+1	7.38E-3	0.00	0.0000	0.00	0.0000	11/01/08	01/12/09	01/12/09	01/12/09	72	72	0	0			
REG08096-00028	1	0	0	5.0	0	-1.38E+0	1.58E+1	9.73E-4	0.00	0.0000	0.00	0.0000	11/01/08	04/27/09	04/27/09	04/27/09	177	177	0	0			
REG08096-00028	1	0	0	5.0	567	-1.15E+0	1.49E+1	2.85E-3	0.00	0.0000	0.00	0.0000	11/01/08	03/17/09	03/17/09	03/17/09	136	136	0	0			
REG08096-00028	1	0	0	5.0	205	1.09E+0	1.58E+1	1.63E-3	0.00	0.0000	0.00	0.0000	11/01/08	03/04/09	03/05/09	03/05/09	123	123	1	1			
REG08096-00033	4	95	95	5.0	98	1.09E+0	1.58E+1	1.63E-3	0.00	0.0000	0.00	0.0000	11/01/08	03/04/09	03/06/09	03/06/09	123	123	2	2			
REG08096-00034	4	95	95	5.0	87	1.09E+0	1.58E+1	1.63E-3	0.00	0.0000	0.00	0.0000	11/01/08	03/04/09	03/06/09	03/06/09	123	123	2	2			

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-1, Wyoming
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days		
				No.	Appl.	Factor	Response	A	B	C	Ratio	Response	Area	-OH Dicamb	Analyte	ppm	Date	Extraction	Date	Analysis	Date	Days	Extn.	Days
REG08096-00037	1	0	5.0	0	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0000	0.0000	10/17/08	11/18/08	11/19/08	32	1									
REG08096-00042	4	95	5.0	554	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0014	0.0014	10/17/08	11/18/08	11/20/08	32	2									
REG08096-00043	4	95	5.0	0	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0000	0.0000	10/17/08	11/18/08	11/20/08	32	2									

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Response			Curve Constant		Area Response Ratio	-OH Dicamb Analyte ppm		Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				Response	A	B	Constant	C		Response	ppm	Date	Date	Days	Days		
REG08096-00046	1	0	5.0	1590	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0009	10/10/08	12/08/08	12/10/08	59	2			
REG08096-00051	4	74	5.0	1610	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0008	10/10/08	12/08/08	12/10/08	59	2			
REG08096-00052	4	74	5.0	1280	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0006	10/10/08	12/08/08	12/10/08	59	2			

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IN, Rockville
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			-OH Dicamb Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days			Analysis Days		
				Response			A			B			C			Date			Date			Date			Date		
REG08096-00055	1	0	5.0	97			-1.89E+0			2.21E+1			-2.20E-3			0.00	0.0006		10/20/08	11/18/08	11/20/08	29			29		2
REG08096-00060	4	73	5.0	1120			-1.89E+0			2.21E+1			-2.20E-3			0.00	0.0013		10/20/08	11/18/08	11/20/08	29			29		2
REG08096-00061	4	73	5.0	0			-1.89E+0			2.21E+1			-2.20E-3			0.00	0.0000		10/20/08	11/18/08	11/20/08	29			29		2

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response		Analyte ppm	Sampling Date		Extraction Date		Analysis Date		Samp. to Extn. Days	Analysis Days
				A	B	C	Constant	Curve Constant	Ratio	Date	Date		Date	Date						
REG08096-00064	1	0	5.0	1190	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0008	10/27/08	12/09/08	12/11/08	43	2						
REG08096-00064	1	0	5.0	0	-2.89E+0	1.82E+1	-3.45E-4	0.00	0.0000	10/27/08	01/15/09	01/16/09	80	1						
REG08096-00069	4	95	5.0	0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2						
REG08096-00070	4	95	5.0	0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2						

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-2, Hudson
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Quant.	Response	Curve		Constant	Curve C	Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
				Constant A	Constant B								Days	Days
REG08096-00073	1	0	5.0	0	-2.60E+0	1.83E+1	-4.68E-4	0.00	0.0000	10/09/08	01/13/09	01/13/09	96	0
REG08096-00078	4	77	5.0	0	-2.60E+0	1.83E+1	-4.68E-4	0.00	0.0000	10/09/08	01/13/09	01/13/09	96	0
REG08096-00079	4	77	5.0	0	-2.60E+0	1.83E+1	-4.68E-4	0.00	0.0000	10/09/08	01/13/09	01/13/09	96	0

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: LA, Washington
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Constant	Curve C	Area Response Ratio	-OH Dicamb			Sampling Extraction		Analysis Date		Samp. to Extn. Days	
				Response	A	B				Analyte ppm	Date	Date	Date	Days	Days			
REG08096-00082	1	0	5.0	3250	-2.34E+0	2.25E+1	1.27E-6	0.01	0.0016	10/02/08	12/08/08	12/10/08	67	2				
REG08096-00087	4	85	5.0	366	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0002	10/02/08	12/08/08	12/10/08	67	2				
REG08096-00088	4	85	5.0	1200	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0007	10/02/08	12/08/08	12/10/08	67	2				

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MI, Conklin
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
				Constant A	Constant B	Constant C		Analyte ppm	Days				Days	Days
REG08096-00091	1	0	5.0	-8.17E-1	2.17E+1	-2.30E-3	0.06	0.0135		10/19/08	12/01/08	12/03/08	43	2
REG08096-00096	4	88	5.0	-8.17E-1	2.17E+1	-2.30E-3	0.03	0.0065		10/19/08	12/01/08	12/03/08	43	2
REG08096-00097	4	88	5.0	-8.17E-1	2.17E+1	-2.30E-3	0.06	0.0145		10/19/08	12/01/08	12/03/08	43	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.		Days	Analysis Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Extn. Days	Days		
REG08096-00100	1	0	5.0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	10/18/08	12/09/08	12/11/08	12/11/08	52	52	2	2
REG08096-00100	1	0	5.0	-3.36E+0	1.74E+1	-2.29E-3	0.00	0.0000	10/18/08	03/19/09	03/20/09	03/20/09	152	152	1	1
REG08096-00100	1	0	5.0	-2.89E+0	1.82E+1	-3.45E-4	0.00	0.0000	10/18/08	01/15/09	01/16/09	01/16/09	89	89	1	1
REG08096-00100	1	0	5.0	1.02E+0	1.46E+1	1.58E-3	0.00	0.0000	10/18/08	03/25/09	03/26/09	03/26/09	158	158	1	1
REG08096-00105	4	78	5.0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	10/18/08	12/09/08	12/11/08	12/11/08	52	52	2	2
REG08096-00106	4	78	5.0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0005	10/18/08	12/09/08	12/11/08	12/11/08	52	52	2	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C		Analyte ppm	ppm				Days	Days
REG08096-00109	1	0	5.0	504	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0006	0.0006	10/18/08	12/09/08	12/11/08	52	2
REG08096-00114	4	78	5.0	0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	0.0000	10/18/08	12/09/08	12/12/08	52	3
REG08096-00115	4	78	5.0	0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	0.0000	10/18/08	12/09/08	12/12/08	52	3

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MO, Fisk
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00118	1	0	5.0	-8.17E-1	2.17E+1	-2.30E-3	0.02	0.0059	09/30/08	12/01/08	12/03/08	12/03/08	62	2
REG08096-00123	4	81	5.0	-8.17E-1	2.17E+1	-2.30E-3	0.03	0.0073	09/30/08	12/01/08	12/03/08	12/03/08	62	2
REG08096-00124	4	81	5.0	-8.17E-1	2.17E+1	-2.30E-3	0.03	0.0078	09/30/08	12/01/08	12/03/08	12/03/08	62	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: ND-1, Carrington
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Extn.	
				No.	Days	Response	Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00127	1	0	5.0	0		0	-3.08E+0	1.77E+1	7.38E-3	0.00	0.0000	10/17/08	01/12/09	01/12/09	01/12/09	87	0
REG08096-00127	1	0	5.0	0		0	-1.15E+0	1.49E+1	2.85E-3	0.00	0.0000	10/17/08	03/17/09	03/17/09	03/17/09	151	0
REG08096-00127	1	0	5.0	61		61	1.09E+0	1.58E+1	1.63E-3	0.00	0.0000	10/17/08	03/04/09	03/06/09	03/06/09	138	2
REG08096-00132	4	87	5.0	153		153	1.09E+0	1.58E+1	1.63E-3	0.00	0.0000	10/17/08	03/04/09	03/06/09	03/06/09	138	2
REG08096-00133	4	87	5.0	147		147	1.09E+0	1.58E+1	1.63E-3	0.00	0.0000	10/17/08	03/04/09	03/06/09	03/06/09	138	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed

Sample ID	Days after Quant.		Response	Curve Constant		Area Ratio	-OH Dicamb		Sampling Extraction		Analysis Date		Samp. to Extn. Days	
	No.	Trt		A	B		Analyte	Date	Date	Date	Days	Days		
REG08096-00136	1	0	5.0	0	-2.60E+0	1.83E+1	-4.68E-4	0.00	0.0000	10/16/08	01/13/09	01/13/09	89	0
REG08096-00141	4	87	5.0	0	-2.60E+0	1.83E+1	-4.68E-4	0.00	0.0000	10/16/08	01/13/09	01/14/09	89	1
REG08096-00142	4	87	5.0	0	-2.60E+0	1.83E+1	-4.68E-4	0.00	0.0000	10/16/08	01/13/09	01/14/09	89	1

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: NE-2, Osceola
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00145	1	0	5.0	29	-2.75E-1	2.18E+1	2.57E-3	0.00	0.0000	10/24/08	01/20/09	01/20/09	01/20/09	88	88	0
REG08096-00150	4	86	5.0	223	-2.75E-1	2.18E+1	2.57E-3	0.00	0.0000	10/24/08	01/20/09	01/21/09	01/21/09	88	88	1
REG08096-00151	4	86	5.0	23	-2.75E-1	2.18E+1	2.57E-3	0.00	0.0000	10/24/08	01/20/09	01/21/09	01/21/09	88	88	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SC, Elko
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response			-OH Dicamb Analyte			Sampling Extraction			Analysis Date			Samp. to Extn. Days		
				No.	Days	Response	Constant	Curve Constant	Ratio	Response	ppm	Date	Date	Date	Date	Date	Date	Days	Days	Days				
REG08096-00154	1	0	5.0	0	4.58E+0	1.97E+1	4.98E-3	0.00	0.0000	10/07/08	12/03/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	57	57	1		
REG08096-00159	4	88	5.0	0	4.58E+0	1.97E+1	4.98E-3	0.00	0.0000	10/07/08	12/03/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	57	57	1	
REG08096-00160	4	88	5.0	0	4.58E+0	1.97E+1	4.98E-3	0.00	0.0000	10/07/08	12/03/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	12/04/08	57	57	1	

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SD-1, Centerville
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
				Constant A	Constant B	Constant C		Analyte ppm	Days				Days	
REG08096-00163	1	0	5.0	439	-2.75E-1	2.18E+1	2.57E-3	0.00	0.0000	10/16/08	01/20/09	01/21/09	96	1
REG08096-00168	4	76	5.0	581	-2.75E-1	2.18E+1	2.57E-3	0.00	0.0001	10/16/08	01/20/09	01/21/09	96	1
REG08096-00169	4	76	5.0	174	-2.75E-1	2.18E+1	2.57E-3	0.00	0.0000	10/16/08	01/20/09	01/21/09	96	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: SD-2, Britton
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			-OH Dicamb Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days		
				Response	A	B	C	Curve Constant	C	Ratio	Response	Area	ppm	Analyte	ppm	Date	Extraction Date	Analysis Date	Date	Days	Extn. Days	Analysis Days	Days	Days
REG08096-00172	1	0	5.0	0	4.58E+0	1.97E+1	4.98E-3			0.00	0.0000	0.00	0.0000	0.00	0.0000	10/28/08	12/03/08	12/05/08	12/05/08	36	36	2	2	2
REG08096-00177	4	88	5.0	0	4.58E+0	1.97E+1	4.98E-3			0.00	0.0000	0.00	0.0000	0.00	0.0000	10/28/08	12/03/08	12/05/08	12/05/08	36	36	2	2	2
REG08096-00178	4	88	5.0	0	4.58E+0	1.97E+1	4.98E-3			0.00	0.0000	0.00	0.0000	0.00	0.0000	10/28/08	12/03/08	12/05/08	12/05/08	36	36	2	2	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: W1-1, Delavan
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio			-OH Dicamb Analyte ppm			Sampling Extraction Date			Analysis Date			Samp. to Extn. Days		
				No.	Factor	Response	A	B	C	Constant	Curve	Ratio	Response	Analyte	Date	Date	Date	Days	Days	Days				
REG08096-00181	1	0	5.0	0	-2.60E+0	1.83E+1	-4.68E-4	0.00	0.0000	10/16/08	01/13/09	01/14/09	89	1										
REG08096-00186	4	85	5.0	0	-2.60E+0	1.83E+1	-4.68E-4	0.00	0.0000	10/17/08	01/13/09	01/14/09	88	1										
REG08096-00187	4	85	5.0	0	-2.60E+0	1.83E+1	-4.68E-4	0.00	0.0000	10/17/08	01/13/09	01/14/09	88	1										

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: W1-2, Fitchburg
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Samp. to Extn.	
					Constant A	Constant B	Constant C		Analyte ppm	Extn. Days				Days	Days
REG08096-00190	1	0	5.0	0	4.58E+0	1.97E+1	4.98E-3	0.00	0.0000	30	11/03/08	12/03/08	12/05/08	30	2
REG08096-00195	4	98	5.0	0	4.58E+0	1.97E+1	4.98E-3	0.00	0.0000	30	11/03/08	12/03/08	12/05/08	30	2
REG08096-00196	4	98	5.0	0	4.58E+0	1.97E+1	4.98E-3	0.00	0.0000	30	11/03/08	12/03/08	12/05/08	30	2

Appendix 8. Raw Data Tables for the Bridging Sites in Treatments 5 and 6 and the Decline Sites in Treatment 5

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00255	1	0	5.0	7890	-1.21E+1	3.25E+1	4.28E-3	0.00	0.0000	07/10/08	04/01/09	04/03/09	04/03/09	265	2
REG08096-00255	1	0	5.0	0	-1.27E+1	3.72E+1	-2.91E-3	0.00	0.0000	07/10/08	12/17/08	12/18/08	12/18/08	160	1
REG08096-00255	1	0	5.0	5960	-6.99E+1	1.30E+2	5.21E-3	0.01	0.0001	07/10/08	08/14/09	08/14/09	08/14/09	400	0
REG08096-00262	5	7	10.0	8370000	-1.21E+1	3.25E+1	4.28E-3	6.74	2.2600	07/10/08	04/01/09	04/03/09	04/03/09	265	2
REG08096-00263	5	7	10.0	11600000	-1.21E+1	3.25E+1	4.28E-3	8.44	2.9100	07/10/08	04/01/09	04/03/09	04/03/09	265	2
REG08096-00453	6	7	10.0	12400000	-1.21E+1	3.25E+1	4.28E-3	8.76	3.0400	07/10/08	04/01/09	04/03/09	04/03/09	265	2
REG08096-00454	6	7	10.0	11800000	-1.21E+1	3.25E+1	4.28E-3	8.12	2.7900	07/10/08	04/01/09	04/03/09	04/03/09	265	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve		Constant	Curve Constant	Area	DCGA Analyte	Sampling Extraction		Analysis		Samp. to Anal. to	
					Constant	A					B	C	Date	Date	Date	Extn.
REG08096-00273	1	0	5.0	4010	-7.48E+0	2.93E+1	-1.89E-3	0.00	0.0006		08/01/08	03/12/09	03/14/09	223	2	
REG08096-00273	1	0	5.0	2250	-2.35E+1	7.06E+1	-2.33E-3	0.00	0.0003		08/01/08	05/06/09	05/07/09	278	1	
REG08096-00461	5	3	20.0	11200000	-2.48E+1	6.21E+1	1.67E-2	16.30	5.9300		07/28/08	04/01/09	04/03/09	247	2	
REG08096-00462	5	3	20.0	10400000	-2.48E+1	6.21E+1	1.67E-2	13.90	4.9400		07/28/08	04/01/09	04/03/09	247	2	
REG08096-00280	5	7	10.0	10400000	-2.48E+1	6.21E+1	1.67E-2	15.80	2.8600		08/01/08	04/01/09	04/03/09	243	2	
REG08096-00281	5	7	10.0	10700000	-2.48E+1	6.21E+1	1.67E-2	15.80	2.8600		08/01/08	04/01/09	04/03/09	243	2	
REG08096-00463	5	10	10.0	11200000	-2.48E+1	6.21E+1	1.67E-2	14.40	2.5800		08/04/08	04/01/09	04/03/09	240	2	
REG08096-00464	5	10	10.0	10400000	-2.48E+1	6.21E+1	1.67E-2	14.40	2.5800		08/04/08	04/01/09	04/03/09	240	2	
REG08096-00465	5	14	5.0	17100000	-7.48E+0	2.93E+1	-1.89E-3	9.94	1.8800		08/08/08	03/12/09	03/14/09	216	2	
REG08096-00466	5	14	5.0	17900000	-7.48E+0	2.93E+1	-1.89E-3	9.91	1.8700		08/08/08	03/12/09	03/14/09	216	2	

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to		
			Constant A	Constant B	Constant C			Date	Date	Date	Days	Extrn. Days	Extn. Days	
REG08096-00300	1	0	5.0	49700	-8.45E+0	2.86E+1	4.20E-3	0.01	0.0006	08/05/08	12/02/08	12/04/08	119	2
REG08096-00300	1	0	5.0	6150	-3.59E+1	6.35E+1	1.35E-2	0.00	0.0000	08/05/08	04/14/09	04/16/09	252	2
REG08096-00307	5	8	100.0	2430000	-3.59E+1	6.35E+1	1.35E-2	0.85	1.3300	08/05/08	04/14/09	04/16/09	252	2
REG08096-00308	5	8	100.0	2510000	-3.59E+1	6.35E+1	1.35E-2	0.88	1.3700	08/05/08	04/14/09	04/16/09	252	2
REG08096-00455	6	8	100.0	1730000	-3.59E+1	6.35E+1	1.35E-2	0.58	0.8970	08/05/08	04/14/09	04/16/09	252	2
REG08096-00456	6	8	100.0	1940000	-3.59E+1	6.35E+1	1.35E-2	0.63	0.9760	08/05/08	04/14/09	04/16/09	252	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00318	1	0	5.0	17600	-5.15E+0	2.91E+1	1.66E-3	0.00	0.0004	08/01/08	03/23/09	03/24/09	234	1
REG08096-00318	1	0	5.0	155000	-2.42E+1	6.10E+1	4.53E-2	0.06	0.0016	08/01/08	04/23/09	04/25/09	265	2
REG08096-00325	5	8	10.0	13900000	-3.59E+1	6.35E+1	1.35E-2	6.68	1.1200	08/01/08	04/14/09	04/16/09	256	2
REG08096-00326	5	8	10.0	10200000	-3.59E+1	6.35E+1	1.35E-2	5.50	0.9120	08/01/08	04/14/09	04/16/09	256	2
REG08096-00457	6	8	10.0	13100000	-3.59E+1	6.35E+1	1.35E-2	5.83	0.9700	08/01/08	04/14/09	04/16/09	256	2
REG08096-00458	6	8	10.0	13100000	-3.59E+1	6.35E+1	1.35E-2	6.05	1.0100	08/01/08	04/14/09	04/17/09	256	3

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve		Constant	Area	DCGA Analyte	Sampling Extraction		Analysis Date	Samp. to Anal. to	
					Constant	Curve				Date	Extn. Days		Days	
REG08096-00354	1	0	5.0	3020	-7.55E+0	4.19E+1	9.61E-3	0.00	0.0000	08/08/08	01/21/09	01/22/09	166	1
REG08096-00354	1	0	5.0	0	-1.18E+2	5.59E+1	-2.17E-3	0.00	0.0000	08/08/08	03/25/09	03/26/09	229	1
REG08096-00467	5	3	10.0	15500000	-2.42E+1	6.10E+1	4.53E-2	15.90	2.9400	08/04/08	04/23/09	04/25/09	262	2
REG08096-00468	5	3	10.0	15800000	-2.42E+1	6.10E+1	4.53E-2	15.90	2.9500	08/04/08	04/23/09	04/25/09	262	2
REG08096-00361	5	7	10.0	21800000	-1.64E+1	3.30E+1	5.74E-3	9.42	3.4400	08/08/08	03/31/09	04/01/09	235	1
REG08096-00362	5	7	10.0	22000000	-1.64E+1	3.30E+1	5.74E-3	7.96	2.8000	08/08/08	03/31/09	04/01/09	235	1
REG08096-00469	5	10	100.0	2600000	-2.42E+1	6.10E+1	4.53E-2	1.27	2.0300	08/11/08	04/23/09	04/25/09	255	2
REG08096-00470	5	10	100.0	2170000	-2.42E+1	6.10E+1	4.53E-2	1.01	1.5900	08/11/08	04/23/09	04/25/09	255	2
REG08096-00471	5	14	10.0	11300000	-2.42E+1	6.10E+1	4.53E-2	8.91	1.5500	08/15/08	04/23/09	04/25/09	251	2
REG08096-00472	5	14	10.0	12300000	-2.42E+1	6.10E+1	4.53E-2	10.10	1.7700	08/15/08	04/23/09	04/25/09	251	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00363	1	0	5.0	8380	6.34E-6	2.92E-2	2.28E-3	0.01	0.0006	08/08/08	12/15/08	12/18/08	129	3	
REG08096-00370	5	7	50.0	6690000	-2.52E+1	6.62E+1	3.41E-2	5.22	4.0400	08/08/08	04/22/09	04/23/09	257	1	
REG08096-00371	5	7	50.0	6730000	-2.52E+1	6.62E+1	3.41E-2	5.27	4.0800	08/08/08	04/22/09	04/23/09	257	1	
REG08096-00459	6	7	50.0	7230000	-2.52E+1	6.62E+1	3.41E-2	6.19	4.8200	08/08/08	04/22/09	04/23/09	257	1	
REG08096-00460	6	7	50.0	7600000	-2.52E+1	6.62E+1	3.41E-2	6.72	5.2600	08/08/08	04/22/09	04/23/09	257	1	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00485	1	0	5.0	8780	-3.03E+0	2.91E+1	1.15E-2	0.00	0.0000	07/18/08	04/27/09	04/28/09	283	1
REG08096-00485	1	0	5.0	6680	-2.64E+1	5.01E+1	1.04E-2	0.00	0.0000	07/18/08	02/04/09	02/05/09	201	1
REG08096-00492	5	15	20.0	16600000	-3.10E+1	6.17E+1	1.47E-2	14.20	5.3000	07/18/08	04/08/09	04/10/09	264	2
REG08096-00493	5	15	20.0	15800000	-3.10E+1	6.17E+1	1.47E-2	11.90	4.3300	07/18/08	04/08/09	04/10/09	264	2
REG08096-00683	6	15	500.0	1070000	-3.10E+1	6.17E+1	1.47E-2	0.52	4.0900	07/18/08	04/08/09	04/10/09	264	2
REG08096-00684	6	15	500.0	1160000	-3.10E+1	6.17E+1	1.47E-2	0.68	5.4200	07/18/08	04/08/09	04/10/09	264	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn. Days		Anal. to Extn. Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00503	1	0	5.0	1600	-1.75E+0	2.92E+1	1.47E-3	0.00	0.0000	08/11/08	03/17/09	03/17/09	03/17/09	218	218	0
REG08096-00503	1	0	5.0	1130	-1.47E+1	5.27E+1	-2.09E-3	0.00	0.0002	08/11/08	02/25/09	02/26/09	02/26/09	198	198	1
REG08096-00510	5	17	10.0	21000000	-3.10E+1	6.17E+1	1.47E-2	21.40	4.4600	08/11/08	04/08/09	04/10/09	04/10/09	240	240	2
REG08096-00511	5	17	10.0	21900000	-3.10E+1	6.17E+1	1.47E-2	20.70	4.2600	08/11/08	04/08/09	04/10/09	04/10/09	240	240	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00530	1	0	5.0	-1.47E+1	5.27E+1	-2.09E-3	0.00	0.0005	08/15/08	02/25/09	02/26/09	02/26/09	194	1
REG08096-00537	5	18	100.0	-2.35E+1	7.06E+1	-2.33E-3	1.38	1.9700	08/15/08	05/06/09	05/06/09	05/06/09	264	0
REG08096-00538	5	18	5.0	-1.47E+1	5.27E+1	-2.09E-3	21.40	2.3300	08/15/08	02/25/09	02/26/09	02/26/09	194	1
REG08096-00685	6	18	100.0	-1.80E+0	2.75E+1	8.25E-3	1.22	4.4000	08/15/08	04/14/09	04/15/09	04/15/09	242	1
REG08096-00686	6	18	5.0	-1.47E+1	5.27E+1	-2.09E-3	20.20	2.1900	08/15/08	02/25/09	02/26/09	02/26/09	194	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00548	1	0	5.0	48700	-6.43E+0	3.05E+1	8.36E-3	0.01	0.0007	08/14/08	04/20/09	04/21/09	249	1
REG08096-00548	1	0	5.0	0	-7.89E+0	3.67E+1	9.27E-4	0.00	0.0000	08/14/08	01/15/09	01/17/09	154	2
REG08096-00555	5	21	10.0	16500000	-6.43E+0	3.05E+1	8.36E-3	8.06	2.8100	08/14/08	04/20/09	04/21/09	249	1
REG08096-00556	5	21	10.0	17100000	-6.43E+0	3.05E+1	8.36E-3	8.86	3.1100	08/14/08	04/20/09	04/21/09	249	1
REG08096-00687	6	21	10.0	19200000	-6.43E+0	3.05E+1	8.36E-3	10.30	3.6700	08/14/08	04/20/09	04/21/09	249	1
REG08096-00688	6	21	10.0	19700000	-6.43E+0	3.05E+1	8.36E-3	10.40	3.6900	08/14/08	04/20/09	04/21/09	249	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00584	1	0	5.0	1210	1.79E+0	2.82E+1	3.57E-3	0.00	0.0000	08/18/08	03/09/09	03/10/09	203	1
REG08096-00584	1	0	5.0	21300	-4.87E+0	3.04E+1	1.06E-2	0.01	0.0000	08/18/08	04/14/09	04/14/09	239	0
REG08096-00591	5	17	10.0	24400000	-4.87E+0	3.04E+1	1.06E-2	11.90	4.1900	08/18/08	04/14/09	04/14/09	239	0
REG08096-00592	5	17	10.0	24100000	-4.87E+0	3.04E+1	1.06E-2	11.90	4.1800	08/18/08	04/14/09	04/15/09	239	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00593	1	0	5.0	6710	1.79E+0	2.82E+1	3.57E-3	0.00	0.0000	08/19/08	03/09/09	03/10/09	202	202	1
REG08096-00593	1	0	5.0	16500	-4.87E+0	3.04E+1	1.06E-2	0.00	0.0000	08/19/08	04/14/09	04/15/09	238	238	1
REG08096-00600	5	18	500.0	1570000	-4.87E+0	3.04E+1	1.06E-2	0.37	5.9400	08/19/08	04/14/09	04/15/09	238	238	1
REG08096-00601	5	18	500.0	1720000	-4.87E+0	3.04E+1	1.06E-2	0.37	5.9700	08/19/08	04/14/09	04/15/09	238	238	1
REG08096-00689	6	18	500.0	2020000	-4.87E+0	3.04E+1	1.06E-2	0.40	6.4000	08/19/08	04/14/09	04/15/09	238	238	1
REG08096-00690	6	18	500.0	1980000	-4.87E+0	3.04E+1	1.06E-2	0.42	6.8100	08/19/08	04/14/09	04/15/09	238	238	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Response			Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				No.	Appl.	Response	Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00001	1	0	5.0	9690			-5.03E+0	2.56E+1	1.25E-1	0.01	0.0009	09/30/08	11/18/08	11/19/08		49		1
REG08096-00001	1	0	5.0	0			-7.10E+0	3.73E+1	1.61E-3	0.00	0.0000	09/30/08	01/14/09	01/15/09		106		1
REG08096-00008	5	89	5.0	144000			-5.03E+0	2.56E+1	1.25E-3	0.08	0.0150	09/30/08	11/18/08	11/19/08		49		1
REG08096-00009	5	89	5.0	155000			-5.03E+0	2.56E+1	1.25E-3	0.09	0.0181	09/30/08	11/18/08	11/19/08		49		1
REG08096-00243	6	89	5.0	230000			-5.03E+0	2.56E+1	1.25E-3	0.12	0.0228	09/30/08	11/18/08	11/19/08		49		1
REG08096-00244	6	89	5.0	170000			-5.03E+0	2.56E+1	1.25E-3	0.11	0.0215	09/30/08	11/18/08	11/19/08		49		1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response	Curve		Constant	Curve Constant	Area Response Ratio	DCGA Analyte	Sampling Extraction		Analysis		Samp. to Anal. to	
					A	B					Date	Date	Date	Extn. Days	Days	
REG08096-00019	1	0	5.0	5920	-4.70E+0	3.21E+1	9.83E-3	0.00	0.0000		10/13/08	12/08/08	12/10/08	56	2	
REG08096-00019	1	0	5.0	160	-1.98E+1	4.81E+1	4.61E-3	0.00	0.0000		10/13/08	01/29/09		108	0	
REG08096-00473	5	73	5.0	518000	-1.18E+2	5.59E+1	-2.17E-3	0.26	0.0241		10/06/08	03/25/09	03/26/09	170	1	
REG08096-00474	5	73	5.0	512000	-1.18E+2	5.59E+1	-2.17E-3	0.26	0.0233		10/06/08	03/25/09	03/26/09	170	1	
REG08096-00026	5	80	5.0	369000	-4.70E+0	3.21E+1	9.83E-3	0.12	0.0165		10/13/08	12/08/08	12/10/08	56	2	
REG08096-00027	5	80	5.0	302000	-4.70E+0	3.21E+1	9.83E-3	0.12	0.0165		10/13/08	12/08/08	12/10/08	56	2	
REG08096-00475	5	87	5.0	492000	-1.18E+2	5.59E+1	-2.17E-3	0.24	0.0216		10/20/08	03/25/09	03/26/09	156	1	
REG08096-00476	5	87	5.0	456000	-1.18E+2	5.59E+1	-2.17E-3	0.25	0.0231		10/20/08	03/25/09	03/26/09	156	1	
REG08096-00477	5	94	5.0	386000	-1.18E+2	5.59E+1	-2.17E-3	0.22	0.0198		10/27/08	03/25/09	03/26/09	149	1	
REG08096-00478	5	94	5.0	502000	-1.18E+2	5.59E+1	-2.17E-3	0.28	0.0259		10/27/08	03/25/09	03/26/09	149	1	

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00046	1	0	5.0	0	3.21E+1	9.83E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	12/10/08	59	59	2
REG08096-00053	5	74	5.0	1040000	3.21E+1	9.83E-3	0.41	0.0631	10/10/08	12/08/08	12/10/08	12/10/08	59	59	2
REG08096-00054	5	74	5.0	1080000	3.21E+1	9.83E-3	0.44	0.0670	10/10/08	12/08/08	12/10/08	12/10/08	59	59	2
REG08096-00245	6	74	5.0	997000	3.21E+1	9.83E-3	0.38	0.0584	10/10/08	12/08/08	12/10/08	12/10/08	59	59	2
REG08096-00246	6	74	5.0	1040000	3.21E+1	9.83E-3	0.42	0.0635	10/10/08	12/08/08	12/10/08	12/10/08	59	59	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00064	1	0	5.0	9510	-8.13E+0	3.33E+1	5.19E-3	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2
REG08096-00064	1	0	5.0	8140	-1.08E+1	4.66E+1	-8.31E-3	0.01	0.0020	10/27/08	01/15/09	01/16/09	80	1
REG08096-00064	1	0	5.0	273	-1.94E+1	4.82E+1	1.12E-2	0.00	0.0000	10/27/08	02/10/09	02/11/09	106	1
REG08096-00071	5	95	5.0	364000	-1.94E+1	4.82E+1	1.12E-2	0.18	0.0174	10/27/08	02/10/09	02/11/09	106	1
REG08096-00072	5	95	5.0	399000	-1.94E+1	4.82E+1	1.12E-2	0.20	0.0195	10/27/08	02/10/09	02/11/09	106	1
REG08096-00691	6	95	5.0	459000	-1.94E+1	4.82E+1	1.12E-2	0.22	0.0212	10/27/08	02/10/09	02/11/09	106	1
REG08096-00692	6	95	5.0	438000	-1.94E+1	4.82E+1	1.12E-2	0.21	0.0206	10/27/08	02/10/09	02/11/09	106	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response	DCGA Analyte	Sampling Extraction		Analysis		Samp. to Anal. to	
					Constant	Constant	Constant			Date	Date	Date	Date	Extn. Days	Extn. Days
REG08096-00100	1	0	5.0	10900	-8.13E+0	3.33E+1	5.19E-3	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	2	2
REG08096-00100	1	0	5.0	11400	-1.08E+1	4.66E+1	-8.31E-3	0.01	0.0024	10/18/08	01/15/09	01/16/09	89	1	1
REG08096-00100	1	0	5.0	62	-1.94E+1	4.82E+1	1.12E-2	0.00	0.0000	10/18/08	02/10/09	02/11/09	115	1	1
REG08096-00100	1	0	5.0	32100	-1.18E+2	5.59E+1	-2.17E-3	0.02	0.0017	10/18/08	03/25/09	03/26/09	158	1	1
REG08096-00479	5	78	5.0	1690000	-1.18E+2	5.59E+1	-2.17E-3	0.88	0.0817	10/18/08	03/25/09	03/26/09	158	1	1
REG08096-00480	5	78	5.0	1730000	-1.18E+2	5.59E+1	-2.17E-3	0.86	0.0801	10/18/08	03/25/09	03/26/09	158	1	1
REG08096-00107	5	88	5.0	1410000	-1.94E+1	4.82E+1	1.12E-2	0.60	0.0612	10/28/08	02/10/09	02/11/09	105	1	1
REG08096-00108	5	88	5.0	1250000	-1.94E+1	4.82E+1	1.12E-2	0.54	0.0553	10/28/08	02/10/09	02/11/09	105	1	1
REG08096-00481	5	92	5.0	1640000	-1.18E+2	5.59E+1	-2.17E-3	0.88	0.0815	11/01/08	03/25/09	03/26/09	144	1	1
REG08096-00482	5	92	5.0	1630000	-1.18E+2	5.59E+1	-2.17E-3	0.87	0.0811	11/01/08	03/25/09	03/26/09	144	1	1
REG08096-00483	5	100	5.0	1370000	-1.18E+2	5.59E+1	-2.17E-3	0.79	0.0729	11/09/08	03/25/09	03/26/09	136	1	1
REG08096-00484	5	100	5.0	1450000	-1.18E+2	5.59E+1	-2.17E-3	0.77	0.0716	11/09/08	03/25/09	03/26/09	136	1	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCGA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00109	1	0	5.0	7650	-8.13E+0	3.33E+1	5.19E-3	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	52	2
REG08096-00109	1	0	5.0	19200	-1.94E+1	4.82E+1	1.12E-2	0.01	0.0000	10/18/08	02/10/09	02/11/09	115	115	1
REG08096-00116	5	78	5.0	2900000	-1.94E+1	4.82E+1	1.12E-2	1.13	0.1170	10/18/08	02/10/09	02/11/09	115	115	1
REG08096-00117	5	78	5.0	2260000	-1.94E+1	4.82E+1	1.12E-2	1.19	0.1230	10/18/08	02/10/09	02/11/09	115	115	1
REG08096-00249	6	78	5.0	2480000	-1.94E+1	4.82E+1	1.12E-2	1.34	0.1390	10/18/08	02/10/09	02/11/09	115	115	1
REG08096-00250	6	78	5.0	2230000	-1.94E+1	4.82E+1	1.12E-2	1.13	0.1180	10/18/08	02/10/09	02/11/09	115	115	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Extn. Days	Days
REG08096-00255	1	0	5.0	-2.06E+0	8.09E+0	1.95E-3	0.00	0.0007	07/10/08	04/01/09	04/03/09	04/03/09	265	2
REG08096-00255	1	0	5.0	-1.60E+0	8.30E+0	1.03E-3	0.00	0.0006	07/10/08	03/23/09	03/25/09	03/25/09	256	2
REG08096-00255	1	0	5.0	-1.96E+0	9.12E+0	1.39E-3	0.01	0.0064	07/10/08	08/14/09	08/14/09	08/14/09	400	0
REG08096-00262	5	7	100.0	-2.06E+0	8.09E+0	1.95E-3	2.95	40.6000	07/10/08	04/01/09	04/03/09	04/03/09	265	2
REG08096-00263	5	7	100.0	-2.06E+0	8.09E+0	1.95E-3	2.66	36.2000	07/10/08	04/01/09	04/03/09	04/03/09	265	2
REG08096-00453	6	7	100.0	-2.06E+0	8.09E+0	1.95E-3	2.88	39.5000	07/10/08	04/01/09	04/03/09	04/03/09	265	2
REG08096-00454	6	7	100.0	-2.06E+0	8.09E+0	1.95E-3	2.70	36.9000	07/10/08	04/01/09	04/03/09	04/03/09	265	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve		Constant	Curve	Area		DCSA Analyte	Sampling Extraction		Analysis		Samp. to Anal. to	
					Constant	A	Constant	B	Ratio	Response		Date	Date	Date	Date	Extn. Days	Days
REG08096-00273	1	0	5.0	0	-1.88E+0		7.80E+0		0.00	1.29E-3	0.0000	08/01/08	01/07/09	01/08/09	01/08/09	159	1
REG08096-00273	1	0	5.0	23200	-2.39E+0		8.47E+0		0.00	5.28E-4	0.0011	08/01/08	03/12/09	03/14/09	03/14/09	223	2
REG08096-00273	1	0	5.0	26500	-2.56E+0		8.71E+0		0.00	1.86E-3	0.0004	08/01/08	05/06/09	05/07/09	05/07/09	278	1
REG08096-00461	5	3	100.0	12400000	-1.11E+0		7.76E+0		3.33	4.44E-3	45.9000	07/28/08	04/01/09	04/03/09	04/03/09	247	2
REG08096-00462	5	3	100.0	11700000	-1.11E+0		7.76E+0		3.11	4.44E-3	42.7000	07/28/08	04/01/09	04/03/09	04/03/09	247	2
REG08096-00280	5	7	100.0	14900000	-1.75E+0		8.84E+0		2.17	3.76E-3	25.9000	08/01/08	04/23/09	04/25/09	04/25/09	265	2
REG08096-00281	5	7	100.0	15300000	-1.75E+0		8.84E+0		2.20	3.76E-3	26.2000	08/01/08	04/23/09	04/25/09	04/25/09	265	2
REG08096-00463	5	10	50.0	12100000	-1.11E+0		7.76E+0		3.24	4.44E-3	22.3000	08/04/08	04/01/09	04/03/09	04/03/09	240	2
REG08096-00464	5	10	100.0	15400000	-1.75E+0		8.84E+0		2.19	3.76E-3	26.0000	08/04/08	04/23/09	04/25/09	04/25/09	262	2
REG08096-00465	5	14	50.0	9000000	-1.11E+0		7.76E+0		2.00	4.44E-3	13.4000	08/08/08	04/01/09	04/03/09	04/03/09	236	2
REG08096-00466	5	14	50.0	9050000	-1.11E+0		7.76E+0		2.09	4.44E-3	14.0000	08/08/08	04/01/09	04/03/09	04/03/09	236	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Forage

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve A		Curve B		Curve C		Area Response Ratio	DCSA Analyte ppm	Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Anal. to Extn. Days
						Constant	Response	Constant	Response	Constant	Response			Date	Date	Date	Date	Days	Days	
REG08096-00300	1	0	0	5.0	34200	-4.03E-1	7.64E+0	1.34E-3	0.00	0.0011	0.0011	0.00	0.0011	08/05/08	04/06/09	04/07/09	04/07/09	244	244	1
REG08096-00300	1	0	0	5.0	43000	-7.89E-1	8.41E+0	-1.27E-4	0.00	0.0024	0.0024	0.00	0.0024	08/05/08	03/16/09	03/17/09	03/17/09	223	223	1
REG08096-00300	1	0	0	5.0	62500	-6.70E-1	9.25E+0	2.91E-3	0.01	0.0031	0.0031	0.01	0.0031	08/05/08	12/02/08	12/04/08	12/04/08	119	119	2
REG08096-00307	5	8	100.0	15700000	15700000	-4.03E-1	7.64E+0	1.34E-3	2.32	30.9000	30.9000	2.32	30.9000	08/05/08	04/06/09	04/07/09	04/07/09	244	244	1
REG08096-00308	5	8	100.0	15700000	15700000	-4.03E-1	7.64E+0	1.34E-3	2.33	31.1000	31.1000	2.33	31.1000	08/05/08	04/06/09	04/07/09	04/07/09	244	244	1
REG08096-00455	6	8	50.0	17800000	17800000	-4.03E-1	7.64E+0	1.34E-3	2.86	19.1000	19.1000	2.86	19.1000	08/05/08	04/06/09	04/07/09	04/07/09	244	244	1
REG08096-00456	6	8	100.0	13900000	13900000	-4.03E-1	7.64E+0	1.34E-3	1.84	24.4000	24.4000	1.84	24.4000	08/05/08	04/06/09	04/07/09	04/07/09	244	244	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
					A	B			Date	Date	Date	Date	Days	Days
REG08096-00318	1	0	5.0	19600	-4.03E-1	7.64E+0	0.00	0.0006	08/01/08	04/06/09	04/07/09	248	1	1
REG08096-00318	1	0	5.0	59100	-1.75E+0	8.84E+0	0.00	0.0000	08/01/08	04/23/09	04/25/09	265	2	2
REG08096-00318	1	0	5.0	9470	5.90E-2	9.83E+0	0.00	0.0000	08/01/08	12/11/08	12/13/08	132	2	2
REG08096-00325	5	8	100.0	20500000	-4.03E-1	7.64E+0	3.69	49.6000	08/01/08	04/06/09	04/07/09	248	1	1
REG08096-00326	5	8	500.0	9110000	-1.75E+0	8.84E+0	0.94	54.1000	08/01/08	04/23/09	04/25/09	265	2	2
REG08096-00457	6	8	100.0	20400000	-4.03E-1	7.64E+0	3.67	49.3000	08/01/08	04/06/09	04/08/09	248	2	2
REG08096-00458	6	8	100.0	19500000	-4.03E-1	7.64E+0	3.21	42.9000	08/01/08	04/06/09	04/08/09	248	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00354	1	0	5.0	1700	-1.39E+0	7.08E+0	2.14E-3	0.00	0.0000	08/08/08	01/21/09	01/22/09	01/22/09	166	166	1
REG08096-00354	1	0	5.0	23200	-9.39E-1	7.73E+0	5.34E-3	0.00	0.0000	08/08/08	03/25/09	03/26/09	03/26/09	229	229	1
REG08096-00467	5	3	100.0	17500000	-1.75E+0	8.84E+0	3.76E-3	2.83	34.4000	08/04/08	04/23/09	04/25/09	04/25/09	262	262	2
REG08096-00468	5	3	100.0	16500000	-1.75E+0	8.84E+0	3.76E-3	2.50	30.0000	08/04/08	04/23/09	04/25/09	04/25/09	262	262	2
REG08096-00361	5	7	100.0	14300000	-1.79E+0	7.61E+0	2.02E-3	1.78	24.8000	08/08/08	03/31/09	04/01/09	04/01/09	235	235	1
REG08096-00362	5	7	50.0	17000000	-1.79E+0	7.61E+0	2.02E-3	3.09	22.7000	08/08/08	03/31/09	04/01/09	04/01/09	235	235	1
REG08096-00469	5	10	100.0	14000000	-1.75E+0	8.84E+0	3.76E-3	1.77	20.9000	08/11/08	04/23/09	04/25/09	04/25/09	255	255	2
REG08096-00470	5	10	100.0	13600000	-1.75E+0	8.84E+0	3.76E-3	1.74	20.5000	08/11/08	04/23/09	04/25/09	04/25/09	255	255	2
REG08096-00471	5	14	100.0	11300000	-1.75E+0	8.84E+0	3.76E-3	1.32	15.4000	08/15/08	04/23/09	04/25/09	04/25/09	251	251	2
REG08096-00472	5	14	100.0	12800000	-1.75E+0	8.84E+0	3.76E-3	1.56	18.3000	08/15/08	04/23/09	04/25/09	04/25/09	251	251	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Forage

Sample ID	Trt	No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00363	1	0	5.0	14500	-5.36E-1	7.97E+0	2.05E-3	0.00	0.0000	08/08/08	03/19/09	03/19/09	03/19/09	223	223	0
REG08096-00370	5	7	100.0	13600000	-2.09E+0	9.13E+0	2.19E-3	2.25	26.1000	08/08/08	04/22/09	04/23/09	04/23/09	257	257	1
REG08096-00371	5	7	100.0	14000000	-2.09E+0	9.13E+0	2.19E-3	2.47	28.9000	08/08/08	04/22/09	04/23/09	04/23/09	257	257	1
REG08096-00459	6	7	500.0	5430000	-2.09E+0	9.13E+0	2.19E-3	0.60	33.3000	08/08/08	04/22/09	04/23/09	04/23/09	257	257	1
REG08096-00460	6	7	500.0	5650000	-2.09E+0	9.13E+0	2.19E-3	0.63	34.8000	08/08/08	04/22/09	04/24/09	04/24/09	257	257	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn. Days	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00485	1	0	5.0	22100	-1.58E+0	7.07E+0	1.34E-3	0.00	0.0007	07/18/08	02/04/09	02/04/09	201	0
REG08096-00485	1	0	5.0	18100	-2.75E+0	9.02E+0	2.67E-5	0.00	0.0012	07/18/08	04/27/09	04/28/09	283	1
REG08096-00492	5	15	500.0	1020000	-1.50E+0	7.74E+0	1.91E-3	1.26	84.0000	07/18/08	04/08/09	04/10/09	264	2
REG08096-00493	5	15	500.0	9220000	-1.50E+0	7.74E+0	1.91E-3	1.07	71.3000	07/18/08	04/08/09	04/10/09	264	2
REG08096-00683	6	15	500.0	9470000	-1.50E+0	7.74E+0	1.91E-3	1.08	71.4000	07/18/08	04/08/09	04/10/09	264	2
REG08096-00684	6	15	500.0	10900000	-1.50E+0	7.74E+0	1.91E-3	1.39	92.7000	07/18/08	04/08/09	04/10/09	264	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00503	1	0	5.0	30000	-3.50E-2	7.57E+0	2.99E-3	0.00	0.0004	08/11/08	02/25/09	02/26/09	198	1	1
REG08096-00503	1	0	5.0	30200	-1.43E+0	8.07E+0	1.31E-3	0.00	0.0010	08/11/08	03/17/09	03/17/09	218	0	0
REG08096-00510	5	17	100.0	17700000	-1.50E+0	7.74E+0	1.91E-3	3.34	47.5000	08/11/08	04/08/09	04/10/09	240	2	2
REG08096-00511	5	17	100.0	18200000	-1.50E+0	7.74E+0	1.91E-3	3.50	50.1000	08/11/08	04/08/09	04/10/09	240	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00530	1	0	5.0	62800	-3.50E-2	7.57E+0	2.99E-3	0.01	0.0047	08/15/08	02/25/09	02/26/09	194	1	1
REG08096-00537	5	18	100.0	23200000	-1.47E+0	7.89E+0	3.15E-3	2.53	34.2000	08/15/08	04/14/09	04/15/09	242	1	1
REG08096-00538	5	18	100.0	25200000	-1.47E+0	7.89E+0	3.15E-3	2.51	34.0000	08/15/08	04/14/09	04/16/09	242	2	2
REG08096-00685	6	18	100.0	18700000	-1.47E+0	7.89E+0	3.15E-3	1.77	23.4000	08/15/08	04/14/09	04/15/09	242	1	1
REG08096-00686	6	18	100.0	24200000	-1.47E+0	7.89E+0	3.15E-3	2.36	31.7000	08/15/08	04/14/09	04/16/09	242	2	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn. Days	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00548	1	0	5.0	-1.65E+0	8.05E+0	1.95E-3	0.00	0.0011	08/14/08	04/20/09	04/21/09	04/21/09	249	1
REG08096-00548	1	0	5.0	-1.18E+0	9.74E+0	2.88E-3	0.01	0.0049	08/14/08	01/15/09	01/17/09	01/17/09	154	2
REG08096-00555	5	21	500.0	-1.65E+0	8.05E+0	1.95E-3	1.95	128.0000	08/14/08	04/20/09	04/21/09	04/21/09	249	1
REG08096-00556	5	21	500.0	-1.65E+0	8.05E+0	1.95E-3	1.68	109.0000	08/14/08	04/20/09	04/21/09	04/21/09	249	1
REG08096-00687	6	21	500.0	-1.65E+0	8.05E+0	1.95E-3	2.04	134.0000	08/14/08	04/20/09	04/21/09	04/21/09	249	1
REG08096-00688	6	21	500.0	-1.65E+0	8.05E+0	1.95E-3	1.95	127.0000	08/14/08	04/20/09	04/21/09	04/21/09	249	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00584	1	0	5.0	60600	-2.15E+0	8.04E+0	1.85E-3	0.01	0.0022	08/18/08	04/14/09	04/14/09	239	0	0
REG08096-00584	1	0	5.0	110000	-1.46E+0	8.54E+0	2.00E-4	0.02	0.0113	08/18/08	03/09/09	03/10/09	203	1	1
REG08096-00591	5	17	200.0	17300000	-1.22E+0	8.79E+0	3.01E-3	2.54	60.3000	08/18/08	04/23/09	04/24/09	248	1	1
REG08096-00592	5	17	200.0	18000000	-1.22E+0	8.79E+0	3.01E-3	2.70	64.3000	08/18/08	04/23/09	04/24/09	248	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Hay

Sample ID	Trt No.	Days		Factor	Response	Curve		Constant	Curve Constant	Area	DCSA Analyte	Sampling Extraction		Analysis Date	Samp. to Anal. to	
		No.	App.			A	B					Ratio	ppm		Date	Date
REG08096-00593	1	0	5.0	62200	-2.15E+0	8.04E+0	1.85E-3	0.01	0.0022	08/19/08	04/14/09	04/15/09	238	1		
REG08096-00593	1	0	5.0	24800	-1.46E+0	8.54E+0	2.00E-4	0.00	0.0028	08/19/08	03/09/09	03/10/09	202	1		
REG08096-00600	5	18	500.0	12800000	-2.15E+0	8.04E+0	1.85E-3	1.31	85.2000	08/19/08	04/14/09	04/15/09	238	1		
REG08096-00601	5	18	500.0	13500000	-2.15E+0	8.04E+0	1.85E-3	1.39	90.5000	08/19/08	04/14/09	04/15/09	238	1		
REG08096-00689	6	18	500.0	13800000	-2.15E+0	8.04E+0	1.85E-3	1.45	95.2000	08/19/08	04/14/09	04/15/09	238	1		
REG08096-00690	6	18	500.0	14000000	-2.15E+0	8.04E+0	1.85E-3	1.44	94.2000	08/19/08	04/14/09	04/15/09	238	1		

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00001	1	0	5.0	8090	1.30E-1	9.89E+0	-1.13E-3	0.00	0.0011	09/30/08	01/14/09	01/15/09	106	1	1
REG08096-00001	1	0	5.0	0	-1.35E+0	9.94E+0	-8.93E-4	0.00	0.0000	09/30/08	11/18/08	11/19/08	49	1	1
REG08096-00008	5	89	5.0	375000	-1.35E+0	9.94E+0	-8.93E-4	0.14	0.0714	09/30/08	11/18/08	11/19/08	49	1	1
REG08096-00009	5	89	5.0	332000	-1.35E+0	9.94E+0	-8.93E-4	0.12	0.0582	09/30/08	11/18/08	11/19/08	49	1	1
REG08096-00243	6	89	5.0	488000	-1.35E+0	9.94E+0	-8.93E-4	0.14	0.0715	09/30/08	11/18/08	11/19/08	49	1	1
REG08096-00244	6	89	5.0	439000	-1.35E+0	9.94E+0	-8.93E-4	0.13	0.0682	09/30/08	11/18/08	11/19/08	49	1	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve A		Curve B		Curve C		Area Ratio	DCSA Analyte ppm	Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Anal. to Extn. Days
					Constant	Response	Constant	Response	Constant	Response			Date	Date	Date	Date	Days	Days	
REG08096-00019	1	0	5.0	7740	-2.79E+0		1.02E+1		8.31E-4		0.00	0.0000	10/13/08	12/08/08	12/10/08		56		2
REG08096-00473	5	73	5.0	339000	-2.18E+0		8.79E+0		-1.46E-4		0.03	0.0190	10/06/08	03/19/09	03/20/09		164		1
REG08096-00474	5	73	5.0	308000	-2.18E+0		8.79E+0		-1.46E-4		0.03	0.0180	10/06/08	03/19/09	03/20/09		164		1
REG08096-00026	5	80	5.0	341000	-2.79E+0		1.02E+1		8.31E-4		0.04	0.0182	10/13/08	12/08/08	12/10/08		56		2
REG08096-00027	5	80	5.0	331000	-2.79E+0		1.02E+1		8.31E-4		0.04	0.0191	10/13/08	12/08/08	12/10/08		56		2
REG08096-00475	5	87	5.0	301000	-2.18E+0		8.79E+0		-1.46E-4		0.03	0.0180	10/20/08	03/19/09	03/20/09		150		1
REG08096-00476	5	87	5.0	313000	-2.18E+0		8.79E+0		-1.46E-4		0.03	0.0191	10/20/08	03/19/09	03/20/09		150		1
REG08096-00477	5	94	5.0	255000	-2.18E+0		8.79E+0		-1.46E-4		0.03	0.0159	10/27/08	03/19/09	03/20/09		143		1
REG08096-00478	5	94	5.0	324000	-2.18E+0		8.79E+0		-1.46E-4		0.03	0.0193	10/27/08	03/19/09	03/20/09		143		1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00046	1	0	5.0	13400	-2.79E+0	1.02E+1	8.31E-4	0.00	0.0003	10/10/08	12/08/08	12/10/08	59	59	2
REG08096-00053	5	74	5.0	1850000	-2.79E+0	1.02E+1	8.31E-4	0.22	0.1060	10/10/08	12/08/08	12/10/08	59	59	2
REG08096-00054	5	74	5.0	1760000	-2.79E+0	1.02E+1	8.31E-4	0.22	0.1090	10/10/08	12/08/08	12/10/08	59	59	2
REG08096-00245	6	74	5.0	1520000	-2.79E+0	1.02E+1	8.31E-4	0.19	0.0925	10/10/08	12/08/08	12/10/08	59	59	2
REG08096-00246	6	74	5.0	1730000	-2.79E+0	1.02E+1	8.31E-4	0.21	0.1030	10/10/08	12/08/08	12/10/08	59	59	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00064	1	0	5.0	694	-3.80E-1	7.17E+0	6.58E-4	0.00	0.0000	10/27/08	01/15/09	01/16/09	80	1
REG08096-00064	1	0	5.0	0	-3.65E+0	9.75E+0	-1.13E-3	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2
REG08096-00071	5	95	5.0	274000	-3.65E+0	9.75E+0	-1.13E-3	0.04	0.0217	10/27/08	12/09/08	12/11/08	43	2
REG08096-00072	5	95	5.0	495000	-3.65E+0	9.75E+0	-1.13E-3	0.08	0.0420	10/27/08	12/09/08	12/11/08	43	2
REG08096-00691	6	95	5.0	607000	-3.65E+0	9.75E+0	-1.13E-3	0.09	0.0463	10/27/08	12/09/08	12/11/08	43	2
REG08096-00692	6	95	5.0	619000	-3.65E+0	9.75E+0	-1.13E-3	0.09	0.0493	10/27/08	12/09/08	12/11/08	43	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve		Constant	Curve		Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn. Days	
					Constant	A	Constant	Constant	B			Date	Date	Date	Date	Days	Days
REG08096-00100	1	0	5.0	2510	-3.80E-1		7.17E+0	6.58E-4		0.00	0.0000	10/18/08	01/15/09	01/16/09		89	1
REG08096-00100	1	0	5.0	5100	-9.39E-1		7.73E+0	5.34E-3		0.00	0.0000	10/18/08	03/25/09	03/26/09		158	1
REG08096-00100	1	0	5.0	1640	-2.18E+0		8.79E+0	-1.46E-4		0.00	0.0002	10/18/08	03/19/09	03/20/09		152	1
REG08096-00100	1	0	5.0	9580	-3.65E+0		9.75E+0	-1.13E-3		0.00	0.0013	10/18/08	12/09/08	12/11/08		52	2
REG08096-00479	5	78	5.0	1180000	-2.18E+0		8.79E+0	-1.46E-4		0.13	0.0767	10/18/08	03/19/09	03/20/09		152	1
REG08096-00480	5	78	5.0	1130000	-2.18E+0		8.79E+0	-1.46E-4		0.13	0.0741	10/18/08	03/19/09	03/20/09		152	1
REG08096-00107	5	88	5.0	985000	-3.65E+0		9.75E+0	-1.13E-3		0.14	0.0710	10/28/08	12/09/08	12/11/08		42	2
REG08096-00108	5	88	5.0	916000	-3.65E+0		9.75E+0	-1.13E-3		0.13	0.0689	10/28/08	12/09/08	12/11/08		42	2
REG08096-00481	5	92	5.0	1180000	-2.18E+0		8.79E+0	-1.46E-4		0.14	0.0769	11/01/08	03/19/09	03/20/09		138	1
REG08096-00482	5	92	5.0	1090000	-2.18E+0		8.79E+0	-1.46E-4		0.12	0.0707	11/01/08	03/19/09	03/20/09		138	1
REG08096-00483	5	100	5.0	1030000	-2.18E+0		8.79E+0	-1.46E-4		0.12	0.0680	11/09/08	03/19/09	03/20/09		130	1
REG08096-00484	5	100	5.0	1050000	-2.18E+0		8.79E+0	-1.46E-4		0.12	0.0663	11/09/08	03/19/09	03/20/09		130	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	DCSA Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00109	1	0	5.0	12700	-3.65E+0	9.75E+0	-1.13E-3	0.00	0.0015	10/18/08	12/09/08	12/11/08	52	52	2
REG08096-00116	5	78	5.0	1780000	-3.65E+0	9.75E+0	-1.13E-3	0.29	0.1520	10/18/08	12/09/08	12/12/08	52	52	3
REG08096-00117	5	78	5.0	1840000	-3.65E+0	9.75E+0	-1.13E-3	0.29	0.1530	10/18/08	12/09/08	12/12/08	52	52	3
REG08096-00249	6	78	5.0	2150000	-3.65E+0	9.75E+0	-1.13E-3	0.37	0.1910	10/18/08	12/09/08	12/12/08	52	52	3
REG08096-00250	6	78	5.0	1920000	-3.65E+0	9.75E+0	-1.13E-3	0.32	0.1670	10/18/08	12/09/08	12/12/08	52	52	3

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve		Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
					Constant A	Constant B			Date	Date	Date	Date	Days	Days
REG08096-00255	1	0	5.0	0	2.54E-1	2.22E+1	-6.86E-4	0.00	0.0000	07/10/08	03/23/09	03/25/09	256	2
REG08096-00255	1	0	5.0	0	-1.28E+0	2.31E+1	2.49E-3	0.00	0.0000	07/10/08	08/14/09	08/14/09	400	0
REG08096-00255	1	0	5.0	298	-4.98E+0	2.43E+1	8.76E-5	0.00	0.0006	07/10/08	04/01/09	04/03/09	265	2
REG08096-00262	5	7	5.0	134000	2.54E-1	2.22E+1	-6.86E-4	0.77	0.1740	07/10/08	03/23/09	03/25/09	256	2
REG08096-00263	5	7	5.0	91100	2.54E-1	2.22E+1	-6.86E-4	0.52	0.1180	07/10/08	03/23/09	03/25/09	256	2
REG08096-00453	6	7	5.0	116000	2.54E-1	2.22E+1	-6.86E-4	0.70	0.1580	07/10/08	03/23/09	03/25/09	256	2
REG08096-00454	6	7	5.0	123000	2.54E-1	2.22E+1	-6.86E-4	0.59	0.1330	07/10/08	03/23/09	03/25/09	256	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve A		Curve B		Curve C		Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Anal. to Extn. Days
					Constant	A	Constant	B	Constant	C			Date	Date	Date	Date	Days	Days	
REG08096-00273	1	0	5.0	0	-3.50E+0		2.13E+1		1.84E-3		0.00	0.0000	08/01/08	05/06/09	05/07/09		278		1
REG08096-00273	1	0	5.0	446	-8.36E-2		2.21E+1		3.69E-3		0.01	0.0011	08/01/08	03/12/09	03/14/09		223		2
REG08096-00273	1	0	5.0	0	-2.17E+0		2.25E+1		-3.33E-4		0.00	0.0000	08/01/08	01/07/09	01/08/09		159		1
REG08096-00461	5	3	20.0	5020	-6.56E+0		2.48E+1		2.52E-2		0.14	0.0909	07/28/08	04/01/09	04/03/09		247		2
REG08096-00462	5	3	20.0	4760	-6.56E+0		2.48E+1		2.52E-2		0.12	0.0734	07/28/08	04/01/09	04/03/09		247		2
REG08096-00280	5	7	5.0	20700	-2.17E+0		2.25E+1		-3.33E-4		0.06	0.0142	08/01/08	01/07/09	01/08/09		159		1
REG08096-00281	5	7	5.0	24100	-2.17E+0		2.25E+1		-3.33E-4		0.07	0.0148	08/01/08	01/07/09	01/08/09		159		1
REG08096-00463	5	10	10.0	2540	-6.56E+0		2.48E+1		2.52E-2		0.07	0.0195	08/04/08	04/01/09	04/03/09		240		2
REG08096-00464	5	10	10.0	1670	-6.56E+0		2.48E+1		2.52E-2		0.05	0.0103	08/04/08	04/01/09	04/03/09		240		2
REG08096-00465	5	14	5.0	1110	-3.50E+0		2.13E+1		1.84E-3		0.02	0.0031	08/08/08	05/06/09	05/07/09		271		1
REG08096-00466	5	14	5.0	1270	-3.50E+0		2.13E+1		1.84E-3		0.02	0.0038	08/08/08	05/06/09	05/07/09		271		1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Forage

Sample ID	Trt No.	Days		Factor	Curve			Response	Area	Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
		No.	App.		Constant	B	C				Date	Date	Days	Days	Extn.	Days
REG08096-00300	1	0	5.0	758	1.39E+0	2.36E+1	2.40E-3	0.00	0.0003		08/05/08	12/02/08	12/04/08	119	2	
REG08096-00300	1	0	5.0	0	-4.58E+0	2.37E+1	4.47E-2	0.00	0.0000		08/05/08	04/06/09	04/07/09	244	1	
REG08096-00307	5	8	5.0	26000	1.39E+0	2.36E+1	2.40E-3	0.14	0.0298		08/05/08	12/02/08	12/04/08	119	2	
REG08096-00308	5	8	5.0	30100	1.39E+0	2.36E+1	2.40E-3	0.15	0.0317		08/05/08	12/02/08	12/04/08	119	2	
REG08096-00455	6	8	5.0	23200	1.39E+0	2.36E+1	2.40E-3	0.13	0.0269		08/05/08	12/02/08	12/04/08	119	2	
REG08096-00456	6	8	5.0	19900	1.39E+0	2.36E+1	2.40E-3	0.10	0.0209		08/05/08	12/02/08	12/04/08	119	2	

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00318	1	0	5.0	0	-2.66E+0	2.20E+1	3.36E-3	0.00	0.0000	08/01/08	04/23/09	04/25/09	04/25/09	265	2
REG08096-00318	1	0	5.0	279	-4.58E+0	2.37E+1	4.47E-2	0.01	0.0000	08/01/08	04/06/09	04/07/09	04/07/09	248	1
REG08096-00318	1	0	5.0	291	1.22E+0	2.69E+1	1.09E-2	0.01	0.0000	08/01/08	12/11/08	12/13/08	12/13/08	132	2
REG08096-00325	5	8	5.0	5890	1.22E+0	2.69E+1	1.09E-2	0.14	0.0236	08/01/08	12/11/08	12/13/08	12/13/08	132	2
REG08096-00326	5	8	5.0	6850	1.22E+0	2.69E+1	1.09E-2	0.12	0.0205	08/01/08	12/11/08	12/13/08	12/13/08	132	2
REG08096-00457	6	8	5.0	5460	1.22E+0	2.69E+1	1.09E-2	0.12	0.0193	08/01/08	12/11/08	12/13/08	12/13/08	132	2
REG08096-00458	6	8	5.0	4530	1.22E+0	2.69E+1	1.09E-2	0.10	0.0159	08/01/08	12/11/08	12/13/08	12/13/08	132	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
					A	B			Date	Date	Date	Date	Days	Days	
REG08096-00354	1	0	5.0	665	-1.23E+0	2.14E+1	-7.28E-4	0.00	0.0011	08/08/08	03/25/09	03/26/09	229	229	1
REG08096-00354	1	0	5.0	0	-2.89E+0	2.18E+1	2.52E-4	0.00	0.0000	08/08/08	01/21/09	01/22/09	166	166	1
REG08096-00467	5	3	5.0	731000	-1.23E+0	2.14E+1	-7.28E-4	4.58	1.0800	08/04/08	03/25/09	03/27/09	233	233	2
REG08096-00468	5	3	5.0	507000	-1.23E+0	2.14E+1	-7.28E-4	3.22	0.7580	08/04/08	03/25/09	03/27/09	233	233	2
REG08096-00361	5	7	5.0	381000	-2.89E+0	2.18E+1	2.52E-4	1.94	0.4480	08/08/08	01/21/09	01/22/09	166	166	1
REG08096-00362	5	7	5.0	337000	-2.89E+0	2.18E+1	2.52E-4	1.61	0.3730	08/08/08	01/21/09	01/22/09	166	166	1
REG08096-00469	5	10	5.0	29600	-1.23E+0	2.14E+1	-7.28E-4	0.19	0.0450	08/11/08	03/25/09	03/27/09	226	226	2
REG08096-00470	5	10	5.0	29300	-1.23E+0	2.14E+1	-7.28E-4	0.20	0.0462	08/11/08	03/25/09	03/27/09	226	226	2
REG08096-00471	5	14	5.0	8270	-1.23E+0	2.14E+1	-7.28E-4	0.05	0.0110	08/15/08	03/25/09	03/27/09	222	222	2
REG08096-00472	5	14	5.0	12900	-1.23E+0	2.14E+1	-7.28E-4	0.07	0.0161	08/15/08	03/25/09	03/27/09	222	222	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00363	1	0	5.0	200	-6.25E-6	2.76E-2	-9.18E-3	0.00	0.0019	08/08/08	12/15/08	12/18/08	12/18/08	129	3
REG08096-00363	1	0	5.0	19	-1.55E+0	2.30E+1	1.93E-3	0.00	0.0000	08/08/08	03/19/09	03/19/09	03/19/09	223	0
REG08096-00370	5	7	5.0	212000	-1.55E+0	2.30E+1	1.93E-3	2.49	0.5440	08/08/08	03/19/09	03/19/09	03/19/09	223	0
REG08096-00371	5	7	5.0	301000	-1.55E+0	2.30E+1	1.93E-3	3.64	0.7990	08/08/08	03/19/09	03/19/09	03/19/09	223	0
REG08096-00459	6	7	5.0	471000	-1.55E+0	2.30E+1	1.93E-3	5.21	1.1500	08/08/08	03/19/09	03/19/09	03/19/09	223	0
REG08096-00460	6	7	5.0	428000	-1.55E+0	2.30E+1	1.93E-3	5.04	1.1100	08/08/08	03/19/09	03/19/09	03/19/09	223	0

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00485	1	0	5.0	0	-2.36E+0	2.15E+1	2.77E-3	0.00	0.0000	07/18/08	04/27/09	04/28/09	04/28/09	283	1	1
REG08096-00485	1	0	5.0	655	5.20E-1	2.26E+1	8.02E-3	0.01	0.0011	07/18/08	02/04/09	02/04/09	02/04/09	201	0	0
REG08096-00492	5	15	5.0	28300	5.20E-1	2.26E+1	8.02E-3	0.70	0.1530	07/18/08	02/04/09	02/04/09	02/04/09	201	0	0
REG08096-00493	5	15	5.0	24300	5.20E-1	2.26E+1	8.02E-3	0.52	0.1120	07/18/08	02/04/09	02/04/09	02/04/09	201	0	0
REG08096-00683	6	15	5.0	29300	5.20E-1	2.26E+1	8.02E-3	0.63	0.1380	07/18/08	02/04/09	02/04/09	02/04/09	201	0	0
REG08096-00684	6	15	5.0	40100	5.20E-1	2.26E+1	8.02E-3	0.78	0.1700	07/18/08	02/04/09	02/04/09	02/04/09	201	0	0

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00503	1	0	0	5.0	1020	-1.74E+0	2.21E+1	-3.63E-3	0.04	0.0088	08/11/08	03/17/09	03/17/09	03/17/09	218	218	0
REG08096-00503	1	0	0	5.0	837	-5.25E+0	2.28E+1	-2.62E-3	0.01	0.0036	08/11/08	02/25/09	02/26/09	02/26/09	198	198	1
REG08096-00510	5	17	5.0	5.0	4550	-5.25E+0	2.28E+1	-2.62E-3	0.07	0.0167	08/11/08	02/25/09	02/26/09	02/26/09	198	198	1
REG08096-00511	5	17	5.0	5.0	7040	-5.25E+0	2.28E+1	-2.62E-3	0.09	0.0210	08/11/08	02/25/09	02/26/09	02/26/09	198	198	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
					Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00530	1	0	5.0	1610	-5.25E+0	2.28E+1	-2.62E-3	0.02	0.0041	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1
REG08096-00537	5	18	5.0	7000	-5.25E+0	2.28E+1	-2.62E-3	0.08	0.0178	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1
REG08096-00538	5	18	5.0	7060	-5.25E+0	2.28E+1	-2.62E-3	0.07	0.0160	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1
REG08096-00685	6	18	5.0	3690	-5.25E+0	2.28E+1	-2.62E-3	0.04	0.0086	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1
REG08096-00686	6	18	5.0	5500	-5.25E+0	2.28E+1	-2.62E-3	0.06	0.0137	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Factor	Response			Curve			Area		Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				No.	Appl.	Response	Constant A	Constant B	Constant C	Ratio	Response		Date	Date	Date	Date	Days	Days	
REG08096-00548	1	0	5.0	1400			1.24E+0	2.44E+1	-6.88E-4	0.01	0.0023	0.01	08/14/08	01/15/09	01/17/09	01/17/09	154	154	2
REG08096-00555	5	21	5.0	20400			1.24E+0	2.44E+1	-6.88E-4	0.19	0.0396	0.19	08/14/08	01/15/09	01/17/09	01/17/09	154	154	2
REG08096-00556	5	21	5.0	18100			1.24E+0	2.44E+1	-6.88E-4	0.18	0.0377	0.18	08/14/08	01/15/09	01/17/09	01/17/09	154	154	2
REG08096-00687	6	21	5.0	19400			1.24E+0	2.44E+1	-6.88E-4	0.21	0.0421	0.21	08/14/08	01/15/09	01/17/09	01/17/09	154	154	2
REG08096-00688	6	21	5.0	10800			1.24E+0	2.44E+1	-6.88E-4	0.18	0.0371	0.18	08/14/08	01/15/09	01/17/09	01/17/09	154	154	2

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00584	1	0	5.0	1910	-1.61E-1	1.89E+1	3.50E-3	0.02	0.0032	08/18/08	03/09/09	03/12/09	203	203	3
REG08096-00591	5	17	5.0	18700	-1.61E-1	1.89E+1	3.50E-3	0.14	0.0360	08/18/08	03/09/09	03/12/09	203	203	3
REG08096-00592	5	17	5.0	25300	-1.61E-1	1.89E+1	3.50E-3	0.19	0.0488	08/18/08	03/09/09	03/12/09	203	203	3

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00593	1	0	5.0	0	-1.61E-1	1.89E+1	3.50E-3	0.00	0.0000	08/19/08	03/09/09	03/12/09	202	202	3
REG08096-00600	5	18	5.0	118000	-1.61E-1	1.89E+1	3.50E-3	0.95	0.2500	08/19/08	03/09/09	03/12/09	202	202	3
REG08096-00601	5	18	5.0	117000	-1.61E-1	1.89E+1	3.50E-3	1.10	0.2910	08/19/08	03/09/09	03/12/09	202	202	3
REG08096-00689	6	18	5.0	133000	-1.61E-1	1.89E+1	3.50E-3	1.17	0.3090	08/19/08	03/09/09	03/12/09	202	202	3
REG08096-00690	6	18	5.0	121000	-1.61E-1	1.89E+1	3.50E-3	1.22	0.3220	08/19/08	03/09/09	03/12/09	202	202	3

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Anal. to Extn.	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days
REG08096-00001	1	0	5.0	0	2.31E+1	2.19E-3	0.00	0.0000	09/30/08	11/18/08	11/19/08	11/19/08	49	1
REG08096-00001	1	0	5.0	0	2.52E+1	-5.01E-3	0.00	0.0000	09/30/08	01/14/09	01/15/09	01/15/09	106	1
REG08096-00008	5	89	5.0	0	2.31E+1	2.19E-3	0.00	0.0000	09/30/08	11/18/08	11/19/08	11/19/08	49	1
REG08096-00009	5	89	5.0	0	2.31E+1	2.19E-3	0.00	0.0000	09/30/08	11/18/08	11/19/08	11/19/08	49	1
REG08096-00243	6	89	5.0	0	2.31E+1	2.19E-3	0.00	0.0000	09/30/08	11/18/08	11/19/08	11/19/08	49	1
REG08096-00244	6	89	5.0	0	2.31E+1	2.19E-3	0.00	0.0000	09/30/08	11/18/08	11/19/08	11/19/08	49	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
					A	B			Date	Date	Date	Date	Days	Days	
REG08096-00019	1	0	5.0	831	7.18E+0	2.34E+1	8.13E-3	0.01	0.0002	10/13/08	12/08/08	12/10/08	56	2	2
REG08096-00473	5	73	5.0	2470	-4.64E+0	2.36E+1	3.18E-4	0.01	0.0030	10/06/08	03/19/09	03/20/09	164	1	1
REG08096-00474	5	73	5.0	2820	-4.64E+0	2.36E+1	3.18E-4	0.02	0.0034	10/06/08	03/19/09	03/20/09	164	1	1
REG08096-00026	5	80	5.0	507	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/13/08	12/08/08	12/10/08	56	2	2
REG08096-00027	5	80	5.0	1030	7.18E+0	2.34E+1	8.13E-3	0.01	0.0000	10/13/08	12/08/08	12/10/08	56	2	2
REG08096-00475	5	87	5.0	3880	-4.64E+0	2.36E+1	3.18E-4	0.02	0.0046	10/20/08	03/19/09	03/20/09	150	1	1
REG08096-00476	5	87	5.0	0	-4.64E+0	2.36E+1	3.18E-4	0.00	0.0000	10/20/08	03/19/09	03/20/09	150	1	1
REG08096-00477	5	94	5.0	1340	-4.64E+0	2.36E+1	3.18E-4	0.01	0.0015	10/27/08	03/19/09	03/20/09	143	1	1
REG08096-00478	5	94	5.0	4210	-4.64E+0	2.36E+1	3.18E-4	0.02	0.0045	10/27/08	03/19/09	03/20/09	143	1	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Days	Days	
REG08096-00046	1	0	5.0	140	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	59	59	2
REG08096-00053	5	74	5.0	762	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	59	59	2
REG08096-00054	5	74	5.0	532	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	59	59	2
REG08096-00245	6	74	5.0	0	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	59	59	2
REG08096-00246	6	74	5.0	0	7.18E+0	2.34E+1	8.13E-3	0.00	0.0000	10/10/08	12/08/08	12/10/08	59	59	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Curve Constant	Area Response	Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal.	
				Constant	A	Response				Date	Date	Date	Days	Days	Days
REG08096-00064	1	0	5.0	0	-1.54E+0	2.09E+1	4.96E-3	0.00	0.0000	10/27/08	01/15/09	01/16/09	80	1	
REG08096-00064	1	0	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2	
REG08096-00071	5	95	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2	
REG08096-00072	5	95	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2	
REG08096-00691	6	95	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2	
REG08096-00692	6	95	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2	

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Seed

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Extn. Days	Days
REG08096-00100	1	0	0	5.0	478	-1.54E+0	2.09E+1	4.96E-3	0.00	0.0000	10/18/08	01/15/09	01/16/09	01/16/09	89	1
REG08096-00100	1	0	0	5.0	6020	-1.23E+0	2.14E+1	-7.28E-4	0.03	0.0063	10/18/08	03/25/09	03/26/09	03/26/09	158	1
REG08096-00100	1	0	0	5.0	3180	-4.64E+0	2.36E+1	3.18E-4	0.02	0.0035	10/18/08	03/19/09	03/20/09	03/20/09	152	1
REG08096-00100	1	0	0	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/18/08	12/09/08	12/11/08	12/11/08	52	2
REG08096-00479	5	78	5.0	5.0	3560	-4.64E+0	2.36E+1	3.18E-4	0.02	0.0039	10/18/08	03/19/09	03/20/09	03/20/09	152	1
REG08096-00480	5	78	5.0	5.0	2210	-4.64E+0	2.36E+1	3.18E-4	0.01	0.0023	10/18/08	03/19/09	03/20/09	03/20/09	152	1
REG08096-00107	5	88	5.0	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/28/08	12/09/08	12/11/08	12/11/08	42	2
REG08096-00108	5	88	5.0	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/28/08	12/09/08	12/11/08	12/11/08	42	2
REG08096-00481	5	92	5.0	5.0	4360	-4.64E+0	2.36E+1	3.18E-4	0.02	0.0045	11/01/08	03/19/09	03/20/09	03/20/09	138	1
REG08096-00482	5	92	5.0	5.0	1690	-4.64E+0	2.36E+1	3.18E-4	0.01	0.0017	11/01/08	03/19/09	03/20/09	03/20/09	138	1
REG08096-00483	5	100	5.0	5.0	1310	-4.64E+0	2.36E+1	3.18E-4	0.01	0.0013	11/09/08	03/19/09	03/20/09	03/20/09	130	1
REG08096-00484	5	100	5.0	5.0	3960	-4.64E+0	2.36E+1	3.18E-4	0.02	0.0038	11/09/08	03/19/09	03/20/09	03/20/09	130	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response	Dicamba Analyte ppm	Sampling Extraction		Analysis Date	Samp. to Anal. to Extn.		
				Constant A	Constant B	Constant C			Date	Date		Days	Days	
REG08096-00109	1	0	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	2
REG08096-00116	5	78	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3
REG08096-00117	5	78	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3
REG08096-00249	6	78	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3
REG08096-00250	6	78	5.0	0	-1.08E+1	2.87E+1	-1.47E-2	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
				Constant	Curve Constant	Curve Constant			Date	Date	Date	Date	Extn. Days	Extn. Days
REG08096-00255	1	0	5.0	0	-7.88E-1	1.62E+1	-1.08E-3	0.00	0.0000	07/10/08	03/23/09	03/25/09	256	2
REG08096-00255	1	0	5.0	411	-1.34E+0	1.62E+1	1.21E-3	0.00	0.0001	07/10/08	08/14/09	08/14/09	400	0
REG08096-00262	5	7	5.0	20300	-7.88E-1	1.62E+1	-1.08E-3	0.06	0.0194	07/10/08	03/23/09	03/25/09	256	2
REG08096-00263	5	7	5.0	18000	-7.88E-1	1.62E+1	-1.08E-3	0.05	0.0167	07/10/08	03/23/09	03/25/09	256	2
REG08096-00453	6	7	5.0	24100	-7.88E-1	1.62E+1	-1.08E-3	0.07	0.0221	07/10/08	03/23/09	03/25/09	256	2
REG08096-00454	6	7	5.0	19200	-7.88E-1	1.62E+1	-1.08E-3	0.06	0.0181	07/10/08	03/23/09	03/25/09	256	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve A		Curve B		Curve C		Area Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis Date		Samp. to Extn.		Anal. to Extn. Days
					Constant	Response	Constant	Response	Constant	Response			Date	Date	Date	Date	Days	Days	
REG08096-00273	1	0	5.0	324	9.13E-1		1.50E+1		3.71E-3		0.00	0.0000	08/01/08	03/12/09	03/14/09	03/14/09	223	223	2
REG08096-00273	1	0	5.0	0	-1.81E+0		1.55E+1		5.01E-3		0.00	0.0000	08/01/08	05/06/09	05/07/09	05/07/09	278	278	1
REG08096-00273	1	0	5.0	637	-4.12E+0		1.96E+1		-9.67E-4		0.00	0.0006	08/01/08	01/07/09	01/08/09	01/08/09	159	159	1
REG08096-00461	5	3	5.0	8420	9.13E-1		1.50E+1		3.71E-3		0.03	0.0080	07/28/08	03/12/09	03/14/09	03/14/09	227	227	2
REG08096-00462	5	3	5.0	7260	9.13E-1		1.50E+1		3.71E-3		0.02	0.0069	07/28/08	03/12/09	03/14/09	03/14/09	227	227	2
REG08096-00280	5	7	5.0	5910	-4.12E+0		1.96E+1		-9.67E-4		0.02	0.0053	08/01/08	01/07/09	01/08/09	01/08/09	159	159	1
REG08096-00281	5	7	5.0	4940	-4.12E+0		1.96E+1		-9.67E-4		0.02	0.0046	08/01/08	01/07/09	01/08/09	01/08/09	159	159	1
REG08096-00463	5	10	5.0	3650	9.13E-1		1.50E+1		3.71E-3		0.01	0.0029	08/04/08	03/12/09	03/14/09	03/14/09	220	220	2
REG08096-00464	5	10	5.0	3390	9.13E-1		1.50E+1		3.71E-3		0.01	0.0024	08/04/08	03/12/09	03/14/09	03/14/09	220	220	2
REG08096-00465	5	14	5.0	1440	9.13E-1		1.50E+1		3.71E-3		0.00	0.0003	08/08/08	03/12/09	03/14/09	03/14/09	216	216	2
REG08096-00466	5	14	5.0	1680	9.13E-1		1.50E+1		3.71E-3		0.01	0.0005	08/08/08	03/12/09	03/14/09	03/14/09	216	216	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve A		Curve B		Curve C		Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Anal. to Extn. Days
				Constant	Response	Constant	Response	Constant	Response			Date	Date	Date	Date	Days	Days	
REG08096-00300	1	0	5.0	559	-1.08E+0	1.51E+1	-5.33E-4	0.00	0.0009	0.00	0.0009	08/05/08	03/16/09	03/17/09	03/17/09	223	223	1
REG08096-00307	5	8	5.0	5810	-1.08E+0	1.51E+1	-5.33E-4	0.02	0.0068	0.02	0.0068	08/05/08	03/16/09	03/17/09	03/17/09	223	223	1
REG08096-00308	5	8	5.0	5840	-1.08E+0	1.51E+1	-5.33E-4	0.02	0.0066	0.02	0.0066	08/05/08	03/16/09	03/17/09	03/17/09	223	223	1
REG08096-00455	6	8	5.0	3440	-1.08E+0	1.51E+1	-5.33E-4	0.01	0.0042	0.01	0.0042	08/05/08	03/16/09	03/17/09	03/17/09	223	223	1
REG08096-00456	6	8	5.0	5260	-1.08E+0	1.51E+1	-5.33E-4	0.02	0.0057	0.02	0.0057	08/05/08	03/16/09	03/17/09	03/17/09	223	223	1

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Forage

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
				Constant A	Constant B	Constant C			Date	Date	Date	Date	Extn. Days	Days
REG08096-00318	1	0	5.0	919	-7.66E-2	1.55E+1	3.22E-3	0.00	0.0000	08/01/08	03/23/09	03/24/09	234	1
REG08096-00325	5	8	5.0	5980	-7.66E-2	1.55E+1	3.22E-3	0.02	0.0043	08/01/08	03/23/09	03/24/09	234	1
REG08096-00326	5	8	5.0	8500	-7.66E-2	1.55E+1	3.22E-3	0.02	0.0067	08/01/08	03/23/09	03/24/09	234	1
REG08096-00457	6	8	5.0	5430	-7.66E-2	1.55E+1	3.22E-3	0.02	0.0038	08/01/08	03/23/09	03/24/09	234	1
REG08096-00458	6	8	5.0	5620	-7.66E-2	1.55E+1	3.22E-3	0.02	0.0043	08/01/08	03/23/09	03/24/09	234	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Forage

Sample ID	No.	Days		Factor	Response	Curve		Constant	Curve	Area	-OH Dicamb		Analysis	Samp. to Anal. to		
		Trt	after			Constant	Constant				Response	Analyte		Sampling	Extraction	Extrn.
REG08096-00354	1	0	0	5.0	0	1.02E+0	1.46E+1	1.58E-3	0.00	0.0000	0.00	08/08/08	03/25/09	03/26/09	229	1
REG08096-00354	1	0	0	5.0	588	-5.76E-1	1.68E+1	2.62E-3	0.00	0.0000	0.00	08/08/08	01/21/09	01/22/09	166	1
REG08096-00467	5	3	3	5.0	7500	1.02E+0	1.46E+1	1.58E-3	0.02	0.0067	0.02	08/04/08	03/25/09	03/27/09	233	2
REG08096-00468	5	3	3	5.0	9320	1.02E+0	1.46E+1	1.58E-3	0.03	0.0087	0.03	08/04/08	03/25/09	03/27/09	233	2
REG08096-00361	5	7	7	5.0	7620	-5.76E-1	1.68E+1	2.62E-3	0.03	0.0067	0.03	08/08/08	01/21/09	01/22/09	166	1
REG08096-00362	5	7	7	5.0	6210	-5.76E-1	1.68E+1	2.62E-3	0.02	0.0045	0.02	08/08/08	01/21/09	01/22/09	166	1
REG08096-00469	5	10	10	5.0	1970	1.02E+0	1.46E+1	1.58E-3	0.01	0.0015	0.01	08/11/08	03/25/09	03/27/09	226	2
REG08096-00470	5	10	10	5.0	2530	1.02E+0	1.46E+1	1.58E-3	0.01	0.0021	0.01	08/11/08	03/25/09	03/27/09	226	2
REG08096-00471	5	14	14	5.0	4000	1.02E+0	1.46E+1	1.58E-3	0.01	0.0034	0.01	08/15/08	03/25/09	03/27/09	222	2
REG08096-00472	5	14	14	5.0	0	1.02E+0	1.46E+1	1.58E-3	0.00	0.0000	0.00	08/15/08	03/25/09	03/27/09	222	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN FORAGE AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Forage

Sample ID	No.	Trt	Days after Appl.	Factor	Response			Curve			Area		-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
					Response	A	B	Constant	Curve	Constant	Ratio	Response		Date	Date	Date	Extn.	Days	Days
REG08096-00363	1	0	0	5.0	0	-1.34E+0	1.67E+1	2.90E-4	0.00	0.0000	0.02	0.0047	0.0000	08/08/08	03/19/09	03/19/09	223	223	0
REG08096-00370	5	7	5.0	4690	-1.34E+0	1.67E+1	1.67E+1	2.90E-4	0.02	0.0047	0.02	0.0047	0.0047	08/08/08	03/19/09	03/19/09	223	223	0
REG08096-00371	5	7	5.0	5390	-1.34E+0	1.67E+1	1.67E+1	2.90E-4	0.02	0.0053	0.02	0.0053	0.0053	08/08/08	03/19/09	03/19/09	223	223	0
REG08096-00459	6	7	5.0	6800	-1.34E+0	1.67E+1	1.67E+1	2.90E-4	0.02	0.0071	0.02	0.0071	0.0071	08/08/08	03/19/09	03/19/09	223	223	0
REG08096-00460	6	7	5.0	5800	-1.34E+0	1.67E+1	1.67E+1	2.90E-4	0.02	0.0056	0.02	0.0056	0.0056	08/08/08	03/19/09	03/19/09	223	223	0

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve			Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
				Constant	Curve Constant	Curve Constant			Date	Date	Date	Date	Extn. Days	Days
REG08096-00485	1	0	5.0	0	-1.38E+0	1.58E+1	9.73E-4	0.00	0.0000	07/18/08	04/27/09	04/28/09	283	1
REG08096-00485	1	0	5.0	0	-5.29E+0	1.78E+1	4.01E-4	0.00	0.0000	07/18/08	02/04/09	02/05/09	201	1
REG08096-00492	5	15	5.0	29700	-5.29E+0	1.78E+1	4.01E-4	0.10	0.0286	07/18/08	02/04/09	02/05/09	201	1
REG08096-00493	5	15	5.0	33700	-5.29E+0	1.78E+1	4.01E-4	0.12	0.0334	07/18/08	02/04/09	02/05/09	201	1
REG08096-00683	6	15	5.0	25500	-5.29E+0	1.78E+1	4.01E-4	0.09	0.0251	07/18/08	02/04/09	02/05/09	201	1
REG08096-00684	6	15	5.0	33600	-5.29E+0	1.78E+1	4.01E-4	0.12	0.0341	07/18/08	02/04/09	02/05/09	201	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
						Constant A	Constant B	Constant C			Date	Date	Date	Date	Extn. Days	Days
REG08096-00503	1	0	0	5.0	0	-1.15E+0	1.49E+1	2.85E-3	0.00	0.0000	08/11/08	03/17/09	03/17/09	218	0	0
REG08096-00503	1	0	0	5.0	0	-3.37E+0	1.62E+1	-1.48E-3	0.00	0.0000	08/11/08	02/25/09	02/26/09	198	1	1
REG08096-00510	5	17	5.0	5.0	3860	-3.37E+0	1.62E+1	-1.48E-3	0.02	0.0059	08/11/08	02/25/09	02/26/09	198	1	1
REG08096-00511	5	17	5.0	5.0	4160	-3.37E+0	1.62E+1	-1.48E-3	0.02	0.0060	08/11/08	02/25/09	02/26/09	198	1	1

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio		Analyte ppm	Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Anal. to Extn. Days
				A	B	C	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days	
REG08096-00530	1	0	5.0	0	1.62E+0	1.62E+1	-3.37E+0	1.62E+1	-1.48E-3	0.00	0.0000	0.0000	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1
REG08096-00537	5	18	5.0	3060	-3.37E+0	1.62E+1	-3.37E+0	1.62E+1	-1.48E-3	0.01	0.0048	0.0048	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1
REG08096-00538	5	18	5.0	3170	-3.37E+0	1.62E+1	-3.37E+0	1.62E+1	-1.48E-3	0.01	0.0049	0.0049	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1
REG08096-00685	6	18	5.0	2750	-3.37E+0	1.62E+1	-3.37E+0	1.62E+1	-1.48E-3	0.01	0.0041	0.0041	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1
REG08096-00686	6	18	5.0	3820	-3.37E+0	1.62E+1	-3.37E+0	1.62E+1	-1.48E-3	0.02	0.0056	0.0056	08/15/08	02/25/09	02/26/09	02/26/09	194	194	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Hay

Sample ID	Trt	Days		Factor	Response	Curve		Constant	Curve Constant	Area Response Ratio	-OH Dicamb		Sampling Extraction		Analysis Date	Samp. to Anal. to	
		No.	Appl.			Constant	A				B	C	Analyte	ppm		Date	Date
REG08096-00548	1	0	5.0	0	2.13E-1	1.62E+1	-1.72E-3	0.00	0.0000	08/14/08	03/03/09	03/04/09	201	201	1		
REG08096-00548	1	0	5.0	0	2.25E+0	2.20E+1	7.61E-3	0.00	0.0000	08/14/08	01/15/09	01/17/09	154	154	2		
REG08096-00555	5	21	5.0	6200	2.13E-1	1.62E+1	-1.72E-3	0.03	0.0100	08/14/08	03/03/09	03/05/09	201	201	2		
REG08096-00556	5	21	5.0	3860	2.13E-1	1.62E+1	-1.72E-3	0.02	0.0075	08/14/08	03/03/09	03/05/09	201	201	2		
REG08096-00687	6	21	5.0	10800	-1.81E+0	1.55E+1	5.01E-3	0.04	0.0108	08/14/08	05/06/09	05/06/09	265	265	0		
REG08096-00688	6	21	5.0	10100	-1.81E+0	1.55E+1	5.01E-3	0.04	0.0106	08/14/08	05/06/09	05/06/09	265	265	0		

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Hay

Sample ID	Trt	No.	Days after Appl.	Factor	Response	Curve			Area	Response Ratio	Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
						Constant	Curve Constant	Curve Constant				Date	Date	Date	Date	Extn.	Days
REG08096-00584	1	0	0	5.0	0	-3.12E-1	1.65E+1	3.71E-3	0.00	0.0000	0.0000	08/18/08	03/09/09	03/12/09	03/12/09	203	3
REG08096-00591	5	17	5.0	5.0	3950	-3.12E-1	1.65E+1	3.71E-3	0.02	0.0040	0.0040	08/18/08	03/09/09	03/12/09	03/12/09	203	3
REG08096-00592	5	17	5.0	5.0	4780	-3.12E-1	1.65E+1	3.71E-3	0.02	0.0056	0.0056	08/18/08	03/09/09	03/12/09	03/12/09	203	3

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN HAY AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Hay

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve Constant			Area Response Ratio		Analyte ppm	Sampling Extraction Date		Analysis Date		Samp. to Extn. Days		Anal. to Extn. Days
				No.	Appl.	Response	A	B	C	Ratio	Ratio		Date	Date	Date	Date	Days	Days	
REG08096-00593	1	0	5.0	0		0	-3.12E-1	1.65E+1	3.71E-3	0.00	0.0000	0.0000	08/19/08	03/09/09	03/12/09	202	202	3	3
REG08096-00600	5	18	5.0	7700		7700	-3.12E-1	1.65E+1	3.71E-3	0.04	0.0101	0.0101	08/19/08	03/09/09	03/12/09	202	202	3	3
REG08096-00601	5	18	5.0	7370		7370	-3.12E-1	1.65E+1	3.71E-3	0.03	0.0091	0.0091	08/19/08	03/09/09	03/12/09	202	202	3	3
REG08096-00689	6	18	5.0	9040		9040	-3.12E-1	1.65E+1	3.71E-3	0.05	0.0136	0.0136	08/19/08	03/09/09	03/12/09	202	202	3	3
REG08096-00690	6	18	5.0	6690		6690	-3.12E-1	1.65E+1	3.71E-3	0.03	0.0083	0.0083	08/19/08	03/09/09	03/12/09	202	202	3	3

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: AR, Proctor
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Quant.		Response	Curve A		Curve B		Curve C		Area Response Ratio		-OH Dicamb Analyte ppm		Sampling Extraction Date		Analysis Date		Samp. to Anal. to	
		No.	Appl. Factor		Constant	Response	Constant	Response	Ratio	Response	Constant	Response	Ratio	Analyte	Date	Extraction	Date	Extrn. Days	Days	
REG08096-00001	1	0	5.0	15	-2.75E-1	2.18E+1	2.57E-3	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	09/30/08	01/20/09	01/20/09	112	0	
REG08096-00001	1	0	5.0	0	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	09/30/08	11/18/08	11/19/08	49	1	
REG08096-00001	1	0	5.0	0	-7.81E-1	2.28E+1	4.95E-3	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	09/30/08	01/14/09	01/15/09	106	1	
REG08096-00008	5	89	5.0	544	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0014	0.0014	0.00	0.0014	0.0014	0.0014	09/30/08	11/18/08	11/19/08	49	1	
REG08096-00009	5	89	5.0	0	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	09/30/08	11/18/08	11/19/08	49	1	
REG08096-00243	6	89	5.0	0	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	09/30/08	11/18/08	11/19/08	49	1	
REG08096-00244	6	89	5.0	0	-1.89E+0	2.21E+1	-2.20E-3	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	09/30/08	11/18/08	11/19/08	49	1	

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IA-1, Richland
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve A		Curve B		Curve C		Area Ratio	-OH Dicamb		Sampling Extraction		Analysis		Samp. to Anal.	
					Constant	Response	Constant	Response	Constant	Response		Analyte ppm	Date	Date	Date	Date	Extrn. Days	Days	
REG08096-00019	1	0	5.0	0	-2.34E+0	2.25E+1	2.25E+1	1.27E-6	0.00	0.0000	10/13/08	12/08/08	12/10/08	56	2				
REG08096-00473	5	73	5.0	0	-3.36E+0	1.74E+1	-2.29E-3	0.00	0.0000	0.0000	10/06/08	03/19/09	03/20/09	164	1				
REG08096-00474	5	73	5.0	0	-3.36E+0	1.74E+1	-2.29E-3	0.00	0.0000	0.0000	10/06/08	03/19/09	03/20/09	164	1				
REG08096-00026	5	80	5.0	1300	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0005	0.0005	10/13/08	12/08/08	12/10/08	56	2				
REG08096-00027	5	80	5.0	1070	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0005	0.0005	10/13/08	12/08/08	12/10/08	56	2				
REG08096-00475	5	87	5.0	0	-3.36E+0	1.74E+1	-2.29E-3	0.00	0.0000	0.0000	10/20/08	03/19/09	03/20/09	150	1				
REG08096-00476	5	87	5.0	0	-3.36E+0	1.74E+1	-2.29E-3	0.00	0.0000	0.0000	10/20/08	03/19/09	03/20/09	150	1				
REG08096-00477	5	94	5.0	0	-3.36E+0	1.74E+1	-2.29E-3	0.00	0.0000	0.0000	10/27/08	03/19/09	03/20/09	143	1				
REG08096-00478	5	94	5.0	0	-3.36E+0	1.74E+1	-2.29E-3	0.00	0.0000	0.0000	10/27/08	03/19/09	03/20/09	143	1				

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: IL-2, Carlyle
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Curve A			Curve B			Curve C			Area Response Ratio		Analyte ppm	Sampling Date		Extraction Date		Analysis Date		Samp. to Extn. Days		Anal. to Days	
				Constant	Response	Response	Constant	Response	Response	Constant	Response	Response	Ratio	Ratio		Date	Date	Date	Date	Date	Date	Days	Days	Days	Days
REG08096-00046	1	0	5.0	1590	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0009	10/10/08	12/08/08	12/10/08	59	59	2	2	2	2	2	2	2	2	2	2	2
REG08096-00053	5	74	5.0	2910	-2.34E+0	2.25E+1	1.27E-6	0.01	0.0013	10/10/08	12/08/08	12/10/08	59	59	2	2	2	2	2	2	2	2	2	2	2
REG08096-00054	5	74	5.0	1300	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0006	10/10/08	12/08/08	12/10/08	59	59	2	2	2	2	2	2	2	2	2	2	2
REG08096-00245	6	74	5.0	0	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0000	10/10/08	12/08/08	12/10/08	59	59	2	2	2	2	2	2	2	2	2	2	2
REG08096-00246	6	74	5.0	2020	-2.34E+0	2.25E+1	1.27E-6	0.00	0.0009	10/10/08	12/08/08	12/10/08	59	59	2	2	2	2	2	2	2	2	2	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: KS-1, Cunningham
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Appl.	Quant. Factor	Response			Curve			Area			-OH Dicamb			Sampling Extraction			Analysis			Samp. to Anal. to		
				No.	Appl.	Response	Constant	A	Curve	Constant	B	Curve	Constant	C	Ratio	Analyte	ppm	Date	Extrn.	Days	Date	Extrn.	Days	Days
REG08096-00064	1	0	5.0	0		0	-2.89E+0		1.82E+1	-3.45E-4	0.00	0.0000	10/27/08	01/15/09	01/16/09	80	1							
REG08096-00064	1	0	5.0	1190			-5.60E+0		2.12E+1	-1.30E-3	0.00	0.0008	10/27/08	12/09/08	12/11/08	43	2							
REG08096-00071	5	95	5.0	0			-5.60E+0		2.12E+1	-1.30E-3	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2							
REG08096-00072	5	95	5.0	1360			-5.60E+0		2.12E+1	-1.30E-3	0.00	0.0009	10/27/08	12/09/08	12/11/08	43	2							
REG08096-00691	6	95	5.0	0			-5.60E+0		2.12E+1	-1.30E-3	0.00	0.0000	10/27/08	12/09/08	12/11/08	43	2							
REG08096-00692	6	95	5.0	983			-5.60E+0		2.12E+1	-1.30E-3	0.00	0.0007	10/27/08	12/09/08	12/11/08	43	2							

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-1, Campbell
Matrix: Soybean Seed

Sample ID	Trt	No. Appl.	Days after Quant.	Response	Curve		Area Ratio	-OH Dicamb Analyte ppm	Sampling Extraction		Analysis		Samp. to Anal. to	
					Constant	Curve Constant			Date	Date	Date	Date	Extn. Days	Extn. Days
REG08096-00100	1	0	5.0	0	1.02E+0	1.46E+1	0.00	0.0000	10/18/08	03/25/09	03/26/09	158	1	1
REG08096-00100	1	0	5.0	0	-3.36E+0	1.74E+1	0.00	0.0000	10/18/08	03/19/09	03/20/09	152	1	1
REG08096-00100	1	0	5.0	0	-2.89E+0	1.82E+1	0.00	0.0000	10/18/08	01/15/09	01/16/09	89	1	1
REG08096-00100	1	0	5.0	0	-5.60E+0	2.12E+1	0.00	0.0000	10/18/08	12/09/08	12/11/08	52	2	2
REG08096-00479	5	78	5.0	0	-3.36E+0	1.74E+1	0.00	0.0000	10/18/08	03/19/09	03/20/09	152	1	1
REG08096-00480	5	78	5.0	0	-3.36E+0	1.74E+1	0.00	0.0000	10/18/08	03/19/09	03/20/09	152	1	1
REG08096-00107	5	88	5.0	0	-5.60E+0	2.12E+1	0.00	0.0000	10/28/08	12/09/08	12/11/08	42	2	2
REG08096-00108	5	88	5.0	1930	-5.60E+0	2.12E+1	0.00	0.0014	10/28/08	12/09/08	12/11/08	42	2	2
REG08096-00481	5	92	5.0	0	-3.36E+0	1.74E+1	0.00	0.0000	11/01/08	03/19/09	03/20/09	138	1	1
REG08096-00482	5	92	5.0	0	-3.36E+0	1.74E+1	0.00	0.0000	11/01/08	03/19/09	03/20/09	138	1	1
REG08096-00483	5	100	5.0	0	-3.36E+0	1.74E+1	0.00	0.0000	11/09/08	03/19/09	03/20/09	130	1	1
REG08096-00484	5	100	5.0	0	-3.36E+0	1.74E+1	0.00	0.0000	11/09/08	03/19/09	03/20/09	130	1	1

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED AFTER APPLICATION OF DICAMBA

Location: MN-2, Fergus Falls
Matrix: Soybean Seed

Sample ID	Trt No.	Days after Quant.		Response	Curve A		Curve B		Constant C	Response Ratio	Area	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Samp. to Anal. to	
		No.	Appl.		Factor	Constant	Curve	Analyte				ppm	Days				Extrn.	Days
REG08096-00109	1	0	5.0	504	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0006	10/18/08	12/09/08	12/11/08	52	2				
REG08096-00116	5	78	5.0	0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3				
REG08096-00117	5	78	5.0	0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3				
REG08096-00249	6	78	5.0	0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3				
REG08096-00250	6	78	5.0	0	-5.60E+0	2.12E+1	-1.30E-3	0.00	0.0000	10/18/08	12/09/08	12/12/08	52	3				

Appendix 9. Raw Data Tables for the Processed Fractions in Treatments 1 and 8

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED CRUDE LECITHIN AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Crude Lecithin

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00699	1	0	0	5.00	2700	-5.49E+0	2.88E+1	6.34E-4	0.00	0.0001	02/03/09	02/25/09	02/26/09	22	1
REG08096-00699	1	0	0	5.00	5200	-5.49E+0	2.88E+1	6.34E-4	0.00	0.0002	02/03/09	02/25/09	02/25/09	22	0
REG08096-00716	8	197	5.00	25900	25900	-5.49E+0	2.88E+1	6.34E-4	0.01	0.0015	02/03/09	02/25/09	02/26/09	22	1
REG08096-00716	8	197	5.00	26700	26700	-5.49E+0	2.88E+1	6.34E-4	0.01	0.0015	02/03/09	02/25/09	02/26/09	22	1
REG08096-00717	8	197	5.00	25100	25100	-5.49E+0	2.88E+1	6.34E-4	0.01	0.0014	02/03/09	02/25/09	02/26/09	22	1
REG08096-00717	8	197	5.00	25200	25200	-5.49E+0	2.88E+1	6.34E-4	0.01	0.0015	02/03/09	02/25/09	02/26/09	22	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED CRUDE LECITHIN AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Crude Lecithin

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00732	1	0	5.00	10800	1.27E+0	2.20E+1	4.79E-3	0.00	0.0000	01/08/09	01/29/09	01/29/09	21	0
REG08096-00732	1	0	5.00	15100	1.27E+0	2.20E+1	4.79E-3	0.00	0.0000	01/08/09	01/29/09	01/29/09	21	0
REG08096-00749	8	168	5.00	118000	1.27E+0	2.20E+1	4.79E-3	0.03	0.0060	01/08/09	01/29/09	01/29/09	21	0
REG08096-00749	8	168	5.00	132000	1.27E+0	2.20E+1	4.79E-3	0.03	0.0064	01/08/09	01/29/09	01/30/09	21	1
REG08096-00750	8	168	5.00	92200	1.27E+0	2.20E+1	4.79E-3	0.02	0.0041	01/08/09	01/29/09	01/30/09	21	1
REG08096-00750	8	168	5.00	113000	1.27E+0	2.20E+1	4.79E-3	0.03	0.0048	01/08/09	01/29/09	01/30/09	21	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED DEFATTED FLOUR AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Defatted Flour

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00696	1	0	5.00	10300	-2.87E+0	2.92E+1	3.60E-4	0.01	0.0014	02/02/09	03/04/09	03/05/09	30	1
REG08096-00710	8	196	5.00	451000	-2.87E+0	2.92E+1	3.60E-4	0.39	0.0672	02/02/09	03/04/09	03/05/09	30	1
REG08096-00710	8	196	5.00	453000	-2.87E+0	2.92E+1	3.60E-4	0.40	0.0684	02/02/09	03/04/09	03/05/09	30	1
REG08096-00711	8	196	5.00	435000	-2.87E+0	2.92E+1	3.60E-4	0.39	0.0662	02/02/09	03/04/09	03/05/09	30	1
REG08096-00711	8	196	5.00	442000	-2.87E+0	2.92E+1	3.60E-4	0.39	0.0671	02/02/09	03/04/09	03/05/09	30	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED DEFATTED FLOUR AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Defatted Flour

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling		Extn. to Analysis Days
						Constant A	Constant B	Constant C			Date	to Extn. Days	
REG08096-00729	1	0	5.00	11700		-1.46E+0	2.30E+1	-1.60E-3	0.01	0.0016	01/08/09	18	1
REG08096-00729	1	0	5.00	20100		-1.46E+0	2.30E+1	-1.60E-3	0.01	0.0025	01/08/09	18	1
REG08096-00743	8	168	5.00	1860000		-1.46E+0	2.30E+1	-1.60E-3	0.86	0.1870	01/08/09	18	1
REG08096-00743	8	168	5.00	1930000		-1.46E+0	2.30E+1	-1.60E-3	0.82	0.1800	01/08/09	18	1
REG08096-00744	8	168	5.00	1800000		-1.46E+0	2.30E+1	-1.60E-3	0.83	0.1810	01/08/09	18	1
REG08096-00744	8	168	5.00	1840000		-1.46E+0	2.30E+1	-1.60E-3	0.82	0.1780	01/08/09	18	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED DEGUMMED OIL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Degummed Oil

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00700	1	0	5.00	1270	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0002	02/03/09	02/16/09	02/16/09	13	0
REG08096-00700	1	0	5.00	2710	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0004	02/03/09	02/16/09	02/16/09	13	0
REG08096-00718	8	197	5.00	7170	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0006	02/03/09	02/16/09	02/16/09	13	0
REG08096-00718	8	197	5.00	8700	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0007	02/03/09	02/16/09	02/16/09	13	0
REG08096-00719	8	197	5.00	8000	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0006	02/03/09	02/16/09	02/16/09	13	0
REG08096-00719	8	197	5.00	8360	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0006	02/03/09	02/16/09	02/16/09	13	0

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED DEGUMMED OIL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Degummed Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days		Extn. to Analysis Days
						Constant A	Constant B	Constant C								
REG08096-00733	1	0	0	5.00	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0000	01/08/09	01/26/09	01/26/09	18	0	0
REG08096-00733	1	0	0	5.00	512	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0005	01/08/09	01/26/09	01/26/09	18	0	0
REG08096-00751	8	168	5.00	0	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0000	01/08/09	01/26/09	01/26/09	18	0	0
REG08096-00751	8	168	5.00	2070	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0007	01/08/09	01/26/09	01/26/09	18	0	0
REG08096-00752	8	168	5.00	0	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0000	01/08/09	01/26/09	01/26/09	18	0	0
REG08096-00752	8	168	5.00	1560	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0006	01/08/09	01/26/09	01/26/09	18	0	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED HULLS AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Hulls

Sample ID	No.	Trt	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00694	1	0	0	5.00	13100	-2.46E+0	2.67E+1	2.00E-3	0.00	0.0003	01/29/09	02/17/09	02/19/09	19	2
REG08096-00694	1	0	0	5.00	13200	-2.46E+0	2.67E+1	2.00E-3	0.00	0.0004	01/29/09	02/17/09	02/19/09	19	2
REG08096-00706	8	192	5.00	780000	834000	-2.46E+0	2.67E+1	2.00E-3	0.28	0.0515	01/29/09	02/17/09	02/19/09	19	2
REG08096-00706	8	192	5.00	834000	825000	-2.46E+0	2.67E+1	2.00E-3	0.30	0.0554	01/29/09	02/17/09	02/19/09	19	2
REG08096-00707	8	192	5.00	825000	877000	-2.46E+0	2.67E+1	2.00E-3	0.29	0.0542	01/29/09	02/17/09	02/19/09	19	2
REG08096-00707	8	192	5.00	877000		-2.46E+0	2.67E+1	2.00E-3	0.30	0.0555	01/29/09	02/17/09	02/19/09	19	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED HULLS AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Hulls

Sample ID	No.	Days after Trt	Factor	Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00727	1	0	5.00	0	1.08E+0	2.04E+1	5.65E-3	0.00	0.0000	12/30/08	01/27/09	01/29/09	28	2
REG08096-00727	1	0	5.00	0	1.08E+0	2.04E+1	5.65E-3	0.00	0.0000	12/30/08	01/27/09	01/29/09	28	2
REG08096-00739	8	157	5.00	1290000	1.08E+0	2.04E+1	5.65E-3	0.56	0.1360	12/28/08	01/27/09	01/29/09	30	2
REG08096-00739	8	157	5.00	1360000	1.08E+0	2.04E+1	5.65E-3	0.59	0.1440	12/28/08	01/27/09	01/29/09	30	2
REG08096-00740	8	159	5.00	1350000	1.08E+0	2.04E+1	5.65E-3	0.60	0.1460	12/30/08	01/27/09	01/29/09	28	2
REG08096-00740	8	159	5.00	1500000	1.08E+0	2.04E+1	5.65E-3	0.59	0.1430	12/30/08	01/27/09	01/29/09	28	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED PROTEIN CONCENTRATES AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Protein Concentrates

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00698	1	0	5.00	3340	-2.87E+0	2.92E+1	3.60E-4	0.00	0.0004	02/06/09	03/04/09	03/05/09	26	1
REG08096-00714	8	200	5.00	59200	-2.87E+0	2.92E+1	3.60E-4	0.05	0.0077	02/06/09	03/04/09	03/05/09	26	1
REG08096-00714	8	200	5.00	59900	-2.87E+0	2.92E+1	3.60E-4	0.04	0.0076	02/06/09	03/04/09	03/05/09	26	1
REG08096-00715	8	200	5.00	55000	-2.87E+0	2.92E+1	3.60E-4	0.04	0.0068	02/06/09	03/04/09	03/05/09	26	1
REG08096-00715	8	200	5.00	62200	-2.87E+0	2.92E+1	3.60E-4	0.05	0.0080	02/06/09	03/04/09	03/05/09	26	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED PROTEIN CONCENTRATES AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Protein Concentrates

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve		Area Response Ratio	DCGA Analyte Amount	Sampling		Analysis Date	Sampling to Extn.		Extn. to Analysis Days
						Constant A	Constant B			Date	Amount		Days	Days	
REG08096-00731	1	0	0	5.00	5570	1.08E+0	2.04E+1	0.00	0.0000	01/16/09	0.0000	01/29/09	11	11	2
REG08096-00731	1	0	0	5.00	9930	1.08E+0	2.04E+1	0.00	0.0000	01/16/09	0.0000	01/29/09	11	11	2
REG08096-00747	8	176	5.00	232000	232000	1.08E+0	2.04E+1	0.07	0.0148	01/16/09	0.0148	01/29/09	11	11	2
REG08096-00747	8	176	5.00	243000	243000	1.08E+0	2.04E+1	0.06	0.0144	01/16/09	0.0144	01/29/09	11	11	2
REG08096-00748	8	176	5.00	203000	203000	1.08E+0	2.04E+1	0.07	0.0164	01/16/09	0.0164	01/29/09	11	11	2
REG08096-00748	8	176	5.00	256000	256000	1.08E+0	2.04E+1	0.07	0.0153	01/16/09	0.0153	01/29/09	11	11	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED PROTEIN ISOLATES AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Protein Isolates

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve Constant			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					A	B	C							
REG08096-00697	1	0	5.00	1660	-2.87E+0	2.92E+1	3.60E-4	0.00	0.0002	02/05/09	03/04/09	03/05/09	27	1
REG08096-00712	8	199	5.00	26300	-2.87E+0	2.92E+1	3.60E-4	0.02	0.0036	02/05/09	03/04/09	03/05/09	27	1
REG08096-00712	8	199	5.00	30100	-2.87E+0	2.92E+1	3.60E-4	0.02	0.0040	02/05/09	03/04/09	03/05/09	27	1
REG08096-00713	8	199	5.00	28100	-2.87E+0	2.92E+1	3.60E-4	0.02	0.0041	02/05/09	03/04/09	03/05/09	27	1
REG08096-00713	8	199	5.00	31800	-2.87E+0	2.92E+1	3.60E-4	0.02	0.0038	02/05/09	03/04/09	03/05/09	27	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCGA IN SOYBEAN SEED PROTEIN ISOLATES AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Protein Isolates

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00730	1	0	5.00	4660	1.08E+0	2.04E+1	5.65E-3	0.00	0.0000	01/14/09	01/27/09	01/29/09	13	2
REG08096-00730	1	0	5.00	9590	1.08E+0	2.04E+1	5.65E-3	0.00	0.0000	01/14/09	01/27/09	01/29/09	13	2
REG08096-00745	8	175	5.00	229000	1.08E+0	2.04E+1	5.65E-3	0.08	0.0177	01/15/09	01/27/09	01/29/09	12	2
REG08096-00746	8	175	5.00	221000	1.08E+0	2.04E+1	5.65E-3	0.07	0.0170	01/15/09	01/27/09	01/29/09	12	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED RBD OIL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed RBD Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00701	1	0	0	5.00	1270	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0002	02/04/09	02/16/09	02/16/09	12	0
REG08096-00701	1	0	0	5.00	5700	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0005	02/04/09	02/16/09	02/16/09	12	0
REG08096-00720	8	198	5.00	5.00	2720	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0005	02/04/09	02/16/09	02/16/09	12	0
REG08096-00720	8	198	5.00	5.00	7340	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0007	02/04/09	02/16/09	02/16/09	12	0
REG08096-00721	8	198	5.00	5.00	5420	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0006	02/04/09	02/16/09	02/16/09	12	0
REG08096-00721	8	198	5.00	5.00	7960	-8.23E+0	3.10E+1	-3.31E-4	0.00	0.0007	02/04/09	02/16/09	02/16/09	12	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED RBD OIL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed RBD Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant							
REG08096-00734	1	0	0	5.00	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0000	01/09/09	01/26/09	01/26/09	17	0
REG08096-00734	1	0	0	5.00	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0000	01/09/09	01/26/09	01/26/09	17	0
REG08096-00753	8	169	5.00	5.00	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00753	8	169	5.00	5.00	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00754	8	169	5.00	5.00	0	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00754	8	169	5.00	5.00	691	-1.46E+0	2.30E+1	-1.60E-3	0.00	0.0005	01/09/09	01/26/09	01/27/09	17	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED FROM PROCESSING AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed from Processing

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling		Extn. to Analysis	
						Constant A	Constant B	Constant C			Date	Days	Date	Days
REG08096-00693	1	0	0	5.00	4400	-2.46E+0	2.67E+1	2.00E-3	0.00	0.0000	01/29/09	19	02/19/09	2
REG08096-00693	1	0	0	5.00	5100	-2.46E+0	2.67E+1	2.00E-3	0.00	0.0001	01/29/09	19	02/19/09	2
REG08096-00704	8	192	5.00	750000	750000	-2.46E+0	2.67E+1	2.00E-3	0.29	0.0548	01/29/09	19	02/19/09	2
REG08096-00704	8	192	5.00	767000	767000	-2.46E+0	2.67E+1	2.00E-3	0.29	0.0532	01/29/09	19	02/19/09	2
REG08096-00705	8	192	5.00	756000	756000	-2.46E+0	2.67E+1	2.00E-3	0.30	0.0562	01/29/09	19	02/19/09	2
REG08096-00705	8	192	5.00	763000	763000	-2.46E+0	2.67E+1	2.00E-3	0.30	0.0553	01/29/09	19	02/19/09	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED FROM PROCESSING AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed from Processing

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00726	1	0	5.00	0	1.08E+0	2.04E+1	5.65E-3	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2
REG08096-00726	1	0	5.00	828	1.08E+0	2.04E+1	5.65E-3	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2
REG08096-00737	8	158	5.00	1660000	1.08E+0	2.04E+1	5.65E-3	0.57	0.1390	12/29/08	01/27/09	01/29/09	29	2
REG08096-00737	8	158	5.00	1800000	1.08E+0	2.04E+1	5.65E-3	0.61	0.1480	12/29/08	01/27/09	01/29/09	29	2
REG08096-00738	8	158	5.00	1580000	1.08E+0	2.04E+1	5.65E-3	0.57	0.1380	12/29/08	01/27/09	01/29/09	29	2
REG08096-00738	8	158	5.00	1640000	1.08E+0	2.04E+1	5.65E-3	0.59	0.1440	12/29/08	01/27/09	01/29/09	29	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED SOYMILK AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Soymilk

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C		Analyte Amount	Amount					
REG08096-00702	1	0	5.00	2010	-2.87E+0	2.92E+1	3.60E-4	0.00	0.0002	0.0002	02/03/09	03/04/09	03/05/09	29	1
REG08096-00722	8	197	5.00	37100	-2.87E+0	2.92E+1	3.60E-4	0.03	0.0049	0.0049	02/03/09	03/04/09	03/05/09	29	1
REG08096-00722	8	197	5.00	37500	-2.87E+0	2.92E+1	3.60E-4	0.03	0.0049	0.0049	02/03/09	03/04/09	03/05/09	29	1
REG08096-00723	8	197	5.00	35600	-2.87E+0	2.92E+1	3.60E-4	0.03	0.0046	0.0046	02/03/09	03/04/09	03/05/09	29	1
REG08096-00723	8	197	5.00	39400	-2.87E+0	2.92E+1	3.60E-4	0.03	0.0054	0.0054	02/03/09	03/04/09	03/05/09	29	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED SOYMILK AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Soymilk

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00735	1	0	0	5.00	6660	-9.05E+0	2.98E+1	2.95E-3	0.00	0.0000	01/26/09	02/10/09	02/10/09	15	0
REG08096-00735	1	0	0	5.00	7480	-9.05E+0	2.98E+1	2.95E-3	0.00	0.0000	01/26/09	02/10/09	02/10/09	15	0
REG08096-00755	8	186	5.00	236000	9.05E+0	-9.05E+0	2.98E+1	2.95E-3	0.06	0.0098	01/26/09	02/10/09	02/10/09	15	0
REG08096-00755	8	186	5.00	253000	9.05E+0	-9.05E+0	2.98E+1	2.95E-3	0.06	0.0097	01/26/09	02/10/09	02/10/09	15	0
REG08096-00756	8	186	5.00	227000	9.05E+0	-9.05E+0	2.98E+1	2.95E-3	0.06	0.0096	01/26/09	02/10/09	02/10/09	15	0
REG08096-00756	8	186	5.00	274000	9.05E+0	-9.05E+0	2.98E+1	2.95E-3	0.07	0.0105	01/26/09	02/10/09	02/10/09	15	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED TOASTED DEFATTED MEAL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Toasted Defatted Meal

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00695	1	0	5.00	40300	-8.23E+0	3.10E+1	-3.31E-4	0.01	0.0023	02/03/09	02/16/09	02/16/09	13	0
REG08096-00695	1	0	5.00	42500	-8.23E+0	3.10E+1	-3.31E-4	0.02	0.0025	02/03/09	02/16/09	02/16/09	13	0
REG08096-00708	8	197	5.00	1120000	-8.23E+0	3.10E+1	-3.31E-4	0.42	0.0677	02/03/09	02/16/09	02/17/09	13	1
REG08096-00708	8	197	5.00	1190000	-8.23E+0	3.10E+1	-3.31E-4	0.41	0.0671	02/03/09	02/16/09	02/17/09	13	1
REG08096-00709	8	197	5.00	974000	-8.23E+0	3.10E+1	-3.31E-4	0.43	0.0696	02/03/09	02/16/09	02/17/09	13	1
REG08096-00709	8	197	5.00	1170000	-8.23E+0	3.10E+1	-3.31E-4	0.44	0.0716	02/03/09	02/16/09	02/17/09	13	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED TOASTED DEFATTED MEAL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Toasted Defatted Meal

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling		Extn. to Analysis	
						Constant A	Constant B	Constant C			Date	Days	Date	Days
REG08096-00728	1	0	0	5.00	23000	-1.46E+0	2.30E+1	-1.60E-3	0.01	0.0023	01/12/09	14	01/27/09	1
REG08096-00728	1	0	0	5.00	23900	-1.46E+0	2.30E+1	-1.60E-3	0.01	0.0023	01/12/09	14	01/27/09	1
REG08096-00741	8	172	5.00	1950000	1950000	-1.46E+0	2.30E+1	-1.60E-3	0.91	0.1980	01/12/09	14	01/27/09	1
REG08096-00741	8	172	5.00	2020000	2020000	-1.46E+0	2.30E+1	-1.60E-3	0.85	0.1850	01/12/09	14	01/27/09	1
REG08096-00742	8	172	5.00	1880000	1880000	-1.46E+0	2.30E+1	-1.60E-3	0.86	0.1890	01/12/09	14	01/27/09	1
REG08096-00742	8	172	5.00	1950000	1950000	-1.46E+0	2.30E+1	-1.60E-3	0.89	0.1930	01/12/09	14	01/27/09	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED TOFU AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Tofu

Sample ID	No.	Trt	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCGA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00703	1	0	0	5.00	1210	-5.49E+0	2.88E+1	6.34E-4	0.00	0.0000	02/03/09	02/25/09	02/25/09	22	0
REG08096-00703	1	0	0	5.00	2160	-5.49E+0	2.88E+1	6.34E-4	0.00	0.0001	02/03/09	02/25/09	02/25/09	22	0
REG08096-00724	8	197	5.00	5.00	49100	-5.49E+0	2.88E+1	6.34E-4	0.03	0.0044	02/03/09	02/25/09	02/25/09	22	0
REG08096-00724	8	197	5.00	5.00	54800	-5.49E+0	2.88E+1	6.34E-4	0.03	0.0046	02/03/09	02/25/09	02/25/09	22	0
REG08096-00725	8	197	5.00	5.00	51800	-5.49E+0	2.88E+1	6.34E-4	0.03	0.0046	02/03/09	02/25/09	02/25/09	22	0
REG08096-00725	8	197	5.00	5.00	59700	-5.49E+0	2.88E+1	6.34E-4	0.02	0.0041	02/03/09	02/25/09	02/25/09	22	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCGA IN SOYBEAN SEED TOFU AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Tofu

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCGA		Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C		Analyte Amount	Amount				
REG08096-00736	1	0	5.00	8000	-9.05E+0	2.98E+1	2.95E-3	0.00	0.0000	0.0000	01/26/09	02/10/09	15	0
REG08096-00736	1	0	5.00	10000	-9.05E+0	2.98E+1	2.95E-3	0.00	0.0000	0.0000	01/26/09	02/10/09	15	0
REG08096-00757	8	186	5.00	150000	-9.05E+0	2.98E+1	2.95E-3	0.06	0.0092	0.0092	01/26/09	02/10/09	15	0
REG08096-00757	8	186	5.00	236000	-9.05E+0	2.98E+1	2.95E-3	0.06	0.0098	0.0098	01/26/09	02/10/09	15	0
REG08096-00758	8	186	5.00	151000	-9.05E+0	2.98E+1	2.95E-3	0.06	0.0095	0.0095	01/26/09	02/10/09	15	0
REG08096-00758	8	186	5.00	199000	-9.05E+0	2.98E+1	2.95E-3	0.06	0.0098	0.0098	01/26/09	02/10/09	15	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED CRUDE LECITHIN AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Crude Lecithin

Sample ID	No.	Trt	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00699	1	0	0	5.00	0	-1.44E+0	8.36E+0	-1.27E-3	0.00	0.0000	02/03/09	02/25/09	02/26/09	22	1
REG08096-00699	1	0	0	5.00	3910	-1.44E+0	8.36E+0	-1.27E-3	0.00	0.0012	02/03/09	02/25/09	02/25/09	22	0
REG08096-00716	8	197	5.00	43300	43300	-1.44E+0	8.36E+0	-1.27E-3	0.01	0.0052	02/03/09	02/25/09	02/26/09	22	1
REG08096-00716	8	197	5.00	48000	48000	-1.44E+0	8.36E+0	-1.27E-3	0.01	0.0056	02/03/09	02/25/09	02/26/09	22	1
REG08096-00717	8	197	5.00	47700	47700	-1.44E+0	8.36E+0	-1.27E-3	0.01	0.0056	02/03/09	02/25/09	02/26/09	22	1
REG08096-00717	8	197	5.00	50200	50200	-1.44E+0	8.36E+0	-1.27E-3	0.01	0.0058	02/03/09	02/25/09	02/26/09	22	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED CRUDE LECITHIN AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Crude Lecithin

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					A	B							
REG08096-00732	1	0	5.00	1390	-2.98E-1	7.41E+0	0.00	0.0001	01/08/09	01/29/09	01/29/09	21	0
REG08096-00732	1	0	5.00	8660	-2.98E-1	7.41E+0	0.00	0.0009	01/08/09	01/29/09	01/29/09	21	0
REG08096-00749	8	168	5.00	308000	-2.98E-1	7.41E+0	0.06	0.0397	01/08/09	01/29/09	01/29/09	21	0
REG08096-00749	8	168	5.00	353000	-2.98E-1	7.41E+0	0.06	0.0435	01/08/09	01/29/09	01/30/09	21	1
REG08096-00750	8	168	5.00	279000	-2.98E-1	7.41E+0	0.05	0.0312	01/08/09	01/29/09	01/30/09	21	1
REG08096-00750	8	168	5.00	320000	-2.98E-1	7.41E+0	0.05	0.0332	01/08/09	01/29/09	01/30/09	21	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED DEFATTED FLOUR AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Defatted Flour

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Response			Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						A	B	C	Constant	Constant	Constant							
REG08096-00696	1	0	0	5.00		0	-1.91E+0	8.06E+0	-1.04E-3			0.00	0.0000	02/02/09	02/17/09	02/19/09	15	2
REG08096-00696	1	0	0	5.00		0	-1.91E+0	8.06E+0	-1.04E-3			0.00	0.0000	02/02/09	02/17/09	02/19/09	15	2
REG08096-00710	8	196	5.00	480000			-1.91E+0	8.06E+0	-1.04E-3			0.11	0.0701	02/02/09	02/17/09	02/20/09	15	3
REG08096-00710	8	196	5.00	526000			-1.91E+0	8.06E+0	-1.04E-3			0.12	0.0742	02/02/09	02/17/09	02/20/09	15	3
REG08096-00711	8	196	5.00	467000			-1.91E+0	8.06E+0	-1.04E-3			0.11	0.0687	02/02/09	02/17/09	02/20/09	15	3
REG08096-00711	8	196	5.00	499000			-1.91E+0	8.06E+0	-1.04E-3			0.11	0.0713	02/02/09	02/17/09	02/20/09	15	3

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED DEFATTED FLOUR AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Defatted Flour

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling		Extn. to Analysis	
						Constant A	Constant B	Constant C			Date	Days	Date	Days
REG08096-00729	1	0	5.00		11100	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0016	01/08/09	18	01/27/09	1
REG08096-00729	1	0	5.00		13900	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0020	01/08/09	18	01/27/09	1
REG08096-00743	8	168	5.00		1800000	-1.63E+0	8.13E+0	-7.98E-4	0.39	0.2430	01/08/09	18	01/27/09	1
REG08096-00743	8	168	5.00		1860000	-1.63E+0	8.13E+0	-7.98E-4	0.39	0.2420	01/08/09	18	01/27/09	1
REG08096-00744	8	168	5.00		1800000	-1.63E+0	8.13E+0	-7.98E-4	0.38	0.2390	01/08/09	18	01/27/09	1
REG08096-00744	8	168	5.00		1940000	-1.63E+0	8.13E+0	-7.98E-4	0.40	0.2510	01/08/09	18	01/27/09	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED DEGUMMED OIL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Degummed Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00700	1	0	0	5.00	854	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0006	02/03/09	02/16/09	02/16/09	13	0
REG08096-00700	1	0	0	5.00	1620	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0007	02/03/09	02/16/09	02/16/09	13	0
REG08096-00718	8	197	5.00	0	0	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0000	02/03/09	02/16/09	02/16/09	13	0
REG08096-00718	8	197	5.00	3130	0	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0008	02/03/09	02/16/09	02/16/09	13	0
REG08096-00719	8	197	5.00	0	0	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0000	02/03/09	02/16/09	02/16/09	13	0
REG08096-00719	8	197	5.00	2520	0	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0007	02/03/09	02/16/09	02/16/09	13	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED DEGUMMED OIL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Degummed Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						A	B							
REG08096-00733	1	0	0	5.00	0	-1.63E+0	8.13E+0	0.00	0.0000	01/08/09	01/26/09	01/26/09	18	0
REG08096-00733	1	0	0	5.00	1550	-1.63E+0	8.13E+0	0.00	0.0006	01/08/09	01/26/09	01/26/09	18	0
REG08096-00751	8	168	5.00	266	266	-1.63E+0	8.13E+0	0.00	0.0005	01/08/09	01/26/09	01/26/09	18	0
REG08096-00751	8	168	5.00	478	478	-1.63E+0	8.13E+0	0.00	0.0005	01/08/09	01/26/09	01/26/09	18	0
REG08096-00752	8	168	5.00	0	0	-1.63E+0	8.13E+0	0.00	0.0000	01/08/09	01/26/09	01/26/09	18	0
REG08096-00752	8	168	5.00	1420	1420	-1.63E+0	8.13E+0	0.00	0.0006	01/08/09	01/26/09	01/26/09	18	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED HULLS AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Hulls

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00694	1	0	5.00	0	-1.91E+0	8.06E+0	-1.04E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00694	1	0	5.00	0	-1.91E+0	8.06E+0	-1.04E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00706	8	192	5.00	551000	-1.91E+0	8.06E+0	-1.04E-3	0.13	0.0820	01/29/09	02/17/09	02/19/09	19	2
REG08096-00706	8	192	5.00	553000	-1.91E+0	8.06E+0	-1.04E-3	0.13	0.0824	01/29/09	02/17/09	02/19/09	19	2
REG08096-00707	8	192	5.00	525000	-1.91E+0	8.06E+0	-1.04E-3	0.13	0.0816	01/29/09	02/17/09	02/19/09	19	2
REG08096-00707	8	192	5.00	528000	-1.91E+0	8.06E+0	-1.04E-3	0.13	0.0812	01/29/09	02/17/09	02/19/09	19	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED HULLS AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Hulls

Sample ID	Trt No.	Days after Appl.	Factor	Quant.	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00727	1	0	5.00		0	-1.86E+0	7.94E+0	-1.02E-3	0.00	0.0000	12/30/08	01/27/09	01/29/09	28	2
REG08096-00727	1	0	5.00		0	-1.86E+0	7.94E+0	-1.02E-3	0.00	0.0000	12/30/08	01/27/09	01/29/09	28	2
REG08096-00739	8	157	5.00		1940000	-1.86E+0	7.94E+0	-1.02E-3	0.39	0.2510	12/28/08	01/27/09	01/29/09	30	2
REG08096-00739	8	157	5.00		1980000	-1.86E+0	7.94E+0	-1.02E-3	0.40	0.2540	12/28/08	01/27/09	01/29/09	30	2
REG08096-00740	8	159	5.00		1910000	-1.86E+0	7.94E+0	-1.02E-3	0.42	0.2710	12/30/08	01/27/09	01/29/09	28	2
REG08096-00740	8	159	5.00		2110000	-1.86E+0	7.94E+0	-1.02E-3	0.43	0.2760	12/30/08	01/27/09	01/29/09	28	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED PROTEIN CONCENTRATES AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Protein Concentrates

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00698	1	0	5.00	0	-1.77E+0	8.39E+0	-1.69E-3	0.00	0.0000	02/06/09	02/26/09	02/27/09	20	1
REG08096-00698	1	0	5.00	1740	-1.77E+0	8.39E+0	-1.69E-3	0.00	0.0012	02/06/09	02/26/09	02/27/09	20	1
REG08096-00714	8	200	5.00	73800	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0067	02/06/09	02/26/09	02/27/09	20	1
REG08096-00714	8	200	5.00	83000	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0076	02/06/09	02/26/09	02/27/09	20	1
REG08096-00715	8	200	5.00	71700	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0065	02/06/09	02/26/09	02/27/09	20	1
REG08096-00715	8	200	5.00	76700	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0067	02/06/09	02/26/09	02/27/09	20	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED PROTEIN CONCENTRATES AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Protein Concentrates

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant							
REG08096-00731	1	0	0	5.00	0	-1.86E+0	7.94E+0	-1.02E-3	0.00	0.0000	01/16/09	01/27/09	01/29/09	11	2
REG08096-00731	1	0	0	5.00	0	-1.86E+0	7.94E+0	-1.02E-3	0.00	0.0000	01/16/09	01/27/09	01/29/09	11	2
REG08096-00747	8	176	5.00	208000	208000	-1.86E+0	7.94E+0	-1.02E-3	0.02	0.0144	01/16/09	01/27/09	01/29/09	11	2
REG08096-00747	8	176	5.00	212000	212000	-1.86E+0	7.94E+0	-1.02E-3	0.02	0.0151	01/16/09	01/27/09	01/29/09	11	2
REG08096-00748	8	176	5.00	191000	191000	-1.86E+0	7.94E+0	-1.02E-3	0.02	0.0151	01/16/09	01/27/09	01/29/09	11	2
REG08096-00748	8	176	5.00	212000	212000	-1.86E+0	7.94E+0	-1.02E-3	0.02	0.0139	01/16/09	01/27/09	01/29/09	11	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED PROTEIN ISOLATES AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Protein Isolates

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days		Extn. to Analysis Days
						Constant	Constant	Constant								
REG08096-00697	1	0	0	5.00	0	-1.77E+0	8.39E+0	-1.69E-3	0.00	0.0000	02/05/09	02/26/09	02/26/09	21	21	0
REG08096-00697	1	0	0	5.00	1470	-1.77E+0	8.39E+0	-1.69E-3	0.00	0.0011	02/05/09	02/26/09	02/26/09	21	21	0
REG08096-00712	8	199	5.00	5.00	99100	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0087	02/05/09	02/26/09	02/27/09	21	21	1
REG08096-00712	8	199	5.00	5.00	109000	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0098	02/05/09	02/26/09	02/27/09	21	21	1
REG08096-00713	8	199	5.00	5.00	94800	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0085	02/05/09	02/26/09	02/27/09	21	21	1
REG08096-00713	8	199	5.00	5.00	95900	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0086	02/05/09	02/26/09	02/27/09	21	21	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED PROTEIN ISOLATES AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Protein Isolates

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00730	1	0	5.00	0	-1.86E+0	7.94E+0	-1.02E-3	0.00	0.0000	01/14/09	01/27/09	01/29/09	13	2
REG08096-00730	1	0	5.00	0	-1.86E+0	7.94E+0	-1.02E-3	0.00	0.0000	01/14/09	01/27/09	01/29/09	13	2
REG08096-00745	8	175	5.00	390000	-1.86E+0	7.94E+0	-1.02E-3	0.04	0.0289	01/15/09	01/27/09	01/29/09	12	2
REG08096-00746	8	175	5.00	367000	-1.86E+0	7.94E+0	-1.02E-3	0.04	0.0280	01/15/09	01/27/09	01/29/09	12	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED RBD OIL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed RBD Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00701	1	0	0	5.00	2040	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0007	02/04/09	02/16/09	02/16/09	12	0
REG08096-00701	1	0	0	5.00	5920	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0010	02/04/09	02/16/09	02/16/09	12	0
REG08096-00720	8	198	5.00	728	728	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0005	02/04/09	02/16/09	02/16/09	12	0
REG08096-00720	8	198	5.00	1190	1190	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0006	02/04/09	02/16/09	02/16/09	12	0
REG08096-00721	8	198	5.00	0	0	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0000	02/04/09	02/16/09	02/16/09	12	0
REG08096-00721	8	198	5.00	1160	1160	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0006	02/04/09	02/16/09	02/16/09	12	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED RBD OIL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed RBD Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant							
REG08096-00734	1	0	0	5.00	0	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0000	01/09/09	01/26/09	01/26/09	17	0
REG08096-00734	1	0	0	5.00	641	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0005	01/09/09	01/26/09	01/26/09	17	0
REG08096-00753	8	169	5.00	5.00	539	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0005	01/09/09	01/26/09	01/27/09	17	1
REG08096-00753	8	169	5.00	5.00	1770	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0006	01/09/09	01/26/09	01/27/09	17	1
REG08096-00754	8	169	5.00	5.00	0	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00754	8	169	5.00	5.00	360	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0005	01/09/09	01/26/09	01/27/09	17	1

Raw Data Table

RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED FROM PROCESSING AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed from Processing

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00693	1	0	0	5.00	0	-1.91E+0	8.06E+0	-1.04E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00693	1	0	0	5.00	0	-1.91E+0	8.06E+0	-1.04E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00704	8	192	5.00	392000	392000	-1.91E+0	8.06E+0	-1.04E-3	0.10	0.0616	01/29/09	02/17/09	02/19/09	19	2
REG08096-00704	8	192	5.00	418000	418000	-1.91E+0	8.06E+0	-1.04E-3	0.10	0.0637	01/29/09	02/17/09	02/19/09	19	2
REG08096-00705	8	192	5.00	389000	389000	-1.91E+0	8.06E+0	-1.04E-3	0.10	0.0620	01/29/09	02/17/09	02/19/09	19	2
REG08096-00705	8	192	5.00	448000	448000	-1.91E+0	8.06E+0	-1.04E-3	0.11	0.0707	01/29/09	02/17/09	02/19/09	19	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED FROM PROCESSING AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed from Processing

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00726	1	0	5.00	0	-1.86E+0	7.94E+0	-1.02E-3	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2
REG08096-00726	1	0	5.00	6890	-1.86E+0	7.94E+0	-1.02E-3	0.00	0.0012	12/29/08	01/27/09	01/29/09	29	2
REG08096-00737	8	158	5.00	1750000	-1.86E+0	7.94E+0	-1.02E-3	0.26	0.1680	12/29/08	01/27/09	01/29/09	29	2
REG08096-00737	8	158	5.00	1820000	-1.86E+0	7.94E+0	-1.02E-3	0.27	0.1720	12/29/08	01/27/09	01/29/09	29	2
REG08096-00738	8	158	5.00	1640000	-1.86E+0	7.94E+0	-1.02E-3	0.26	0.1670	12/29/08	01/27/09	01/29/09	29	2
REG08096-00738	8	158	5.00	1730000	-1.86E+0	7.94E+0	-1.02E-3	0.29	0.1830	12/29/08	01/27/09	01/29/09	29	2

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED SOYMILK AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Soymilk

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant							
REG08096-00702	1	0	0	5.00	0	-1.77E+0	8.39E+0	-1.69E-3	0.00	0.0000	02/03/09	02/26/09	02/27/09	23	1
REG08096-00702	1	0	0	5.00	0	-1.77E+0	8.39E+0	-1.69E-3	0.00	0.0000	02/03/09	02/26/09	02/27/09	23	1
REG08096-00722	8	197	5.00	50100	50100	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0052	02/03/09	02/26/09	02/27/09	23	1
REG08096-00722	8	197	5.00	54500	54500	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0054	02/03/09	02/26/09	02/27/09	23	1
REG08096-00723	8	197	5.00	54800	54800	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0054	02/03/09	02/26/09	02/27/09	23	1
REG08096-00723	8	197	5.00	63300	63300	-1.77E+0	8.39E+0	-1.69E-3	0.01	0.0060	02/03/09	02/26/09	02/27/09	23	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED SOYMILK AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Soymilk

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling		Extn. to Analysis	
						Constant A	Constant B	Constant C			Date	Days	Date	Days
REG08096-00735	1	0	0	5.00	0	-9.17E-1	7.60E+0	4.14E-4	0.00	0.0000	01/26/09	15	02/10/09	0
REG08096-00735	1	0	0	5.00	4520	-9.17E-1	7.60E+0	4.14E-4	0.00	0.0000	01/26/09	15	02/10/09	0
REG08096-00755	8	186	5.00	268000	268000	-9.17E-1	7.60E+0	4.14E-4	0.02	0.0150	01/26/09	15	02/10/09	0
REG08096-00755	8	186	5.00	283000	283000	-9.17E-1	7.60E+0	4.14E-4	0.03	0.0162	01/26/09	15	02/10/09	0
REG08096-00756	8	186	5.00	285000	285000	-9.17E-1	7.60E+0	4.14E-4	0.02	0.0156	01/26/09	15	02/10/09	0
REG08096-00756	8	186	5.00	287000	287000	-9.17E-1	7.60E+0	4.14E-4	0.02	0.0158	01/26/09	15	02/10/09	0

Raw Data Table *RIMS III V4.0*

RESIDUES OF DCSA IN SOYBEAN SEED TOASTED DEFATTED MEAL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Toasted Defatted Meal

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00695	1	0	5.00	0	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0000	02/03/09	02/16/09	02/16/09	13	0
REG08096-00695	1	0	5.00	0	-1.06E+0	7.53E+0	-7.02E-4	0.00	0.0000	02/03/09	02/16/09	02/16/09	13	0
REG08096-00708	8	197	5.00	507000	-1.06E+0	7.53E+0	-7.02E-4	0.11	0.0758	02/03/09	02/16/09	02/17/09	13	1
REG08096-00708	8	197	5.00	524000	-1.06E+0	7.53E+0	-7.02E-4	0.12	0.0792	02/03/09	02/16/09	02/17/09	13	1
REG08096-00709	8	197	5.00	455000	-1.06E+0	7.53E+0	-7.02E-4	0.11	0.0737	02/03/09	02/16/09	02/17/09	13	1
REG08096-00709	8	197	5.00	520000	-1.06E+0	7.53E+0	-7.02E-4	0.11	0.0761	02/03/09	02/16/09	02/17/09	13	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED TOASTED DEFATTED MEAL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Toasted Defatted Meal

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00728	1	0	5.00	1260	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0006	01/12/09	01/26/09	01/27/09	14	1
REG08096-00728	1	0	5.00	14100	-1.63E+0	8.13E+0	-7.98E-4	0.00	0.0020	01/12/09	01/26/09	01/27/09	14	1
REG08096-00741	8	172	5.00	1950000	-1.63E+0	8.13E+0	-7.98E-4	0.43	0.2680	01/12/09	01/26/09	01/27/09	14	1
REG08096-00741	8	172	5.00	1950000	-1.63E+0	8.13E+0	-7.98E-4	0.41	0.2540	01/12/09	01/26/09	01/27/09	14	1
REG08096-00742	8	172	5.00	1910000	-1.63E+0	8.13E+0	-7.98E-4	0.41	0.2530	01/12/09	01/26/09	01/27/09	14	1
REG08096-00742	8	172	5.00	1940000	-1.63E+0	8.13E+0	-7.98E-4	0.43	0.2660	01/12/09	01/26/09	01/27/09	14	1

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED TOFU AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Tofu

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00703	1	0	5.00	0	-1.44E+0	8.36E+0	-1.27E-3	0.00	0.0000	02/03/09	02/25/09	02/25/09	22	0
REG08096-00703	1	0	5.00	1280	-1.44E+0	8.36E+0	-1.27E-3	0.00	0.0009	02/03/09	02/25/09	02/25/09	22	0
REG08096-00724	8	197	5.00	53100	-1.44E+0	8.36E+0	-1.27E-3	0.01	0.0052	02/03/09	02/25/09	02/25/09	22	0
REG08096-00724	8	197	5.00	53800	-1.44E+0	8.36E+0	-1.27E-3	0.01	0.0053	02/03/09	02/25/09	02/25/09	22	0
REG08096-00725	8	197	5.00	50300	-1.44E+0	8.36E+0	-1.27E-3	0.01	0.0051	02/03/09	02/25/09	02/25/09	22	0
REG08096-00725	8	197	5.00	56300	-1.44E+0	8.36E+0	-1.27E-3	0.01	0.0053	02/03/09	02/25/09	02/25/09	22	0

Raw Data Table RIMS III V4.0

RESIDUES OF DCSA IN SOYBEAN SEED TOFU AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Tofu

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	DCSA Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00736	1	0	0	5.00	3100	-9.17E-1	7.60E+0	4.14E-4	0.00	0.0000	01/26/09	02/10/09	02/10/09	15	0
REG08096-00736	1	0	0	5.00	6520	-9.17E-1	7.60E+0	4.14E-4	0.00	0.0001	01/26/09	02/10/09	02/10/09	15	0
REG08096-00757	8	186	5.00	245000	245000	-9.17E-1	7.60E+0	4.14E-4	0.02	0.0150	01/26/09	02/10/09	02/10/09	15	0
REG08096-00757	8	186	5.00	249000	249000	-9.17E-1	7.60E+0	4.14E-4	0.02	0.0153	01/26/09	02/10/09	02/10/09	15	0
REG08096-00758	8	186	5.00	242000	242000	-9.17E-1	7.60E+0	4.14E-4	0.02	0.0146	01/26/09	02/10/09	02/10/09	15	0
REG08096-00758	8	186	5.00	249000	249000	-9.17E-1	7.60E+0	4.14E-4	0.02	0.0153	01/26/09	02/10/09	02/10/09	15	0

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED CRUDE LECITHIN AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Crude Lecithin

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00699	1	0	0	5.00		-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0000	02/03/09	02/25/09	02/26/09	22	1
REG08096-00699	1	0	0	5.00	113	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0017	02/03/09	02/25/09	02/25/09	22	0
REG08096-00716	8	197	5.00			-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0000	02/03/09	02/25/09	02/26/09	22	1
REG08096-00716	8	197	5.00		0	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0000	02/03/09	02/25/09	02/26/09	22	1
REG08096-00717	8	197	5.00		461	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0020	02/03/09	02/25/09	02/26/09	22	1
REG08096-00717	8	197	5.00		656	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0022	02/03/09	02/25/09	02/26/09	22	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED CRUDE LECITHIN AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Crude Lecithin

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve		Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B							
REG08096-00732	1	0	5.00	0	-3.63E+0	2.55E+1	0.00	0.0000	01/08/09	01/29/09	01/29/09	21	0
REG08096-00732	1	0	5.00	86	-3.63E+0	2.55E+1	0.00	0.0000	01/08/09	01/29/09	01/29/09	21	0
REG08096-00749	8	168	5.00	0	-3.63E+0	2.55E+1	0.00	0.0000	01/08/09	01/29/09	01/29/09	21	0
REG08096-00749	8	168	5.00	289	-3.63E+0	2.55E+1	0.01	0.0006	01/08/09	01/29/09	01/30/09	21	1
REG08096-00750	8	168	5.00	0	-3.63E+0	2.55E+1	0.00	0.0000	01/08/09	01/29/09	01/30/09	21	1
REG08096-00750	8	168	5.00	0	-3.63E+0	2.55E+1	0.00	0.0000	01/08/09	01/29/09	01/30/09	21	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED DEFATTED FLOUR AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Defatted Flour

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant							
REG08096-00696	1	0	0	5.00	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	02/02/09	02/17/09	02/19/09	15	2
REG08096-00696	1	0	0	5.00	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	02/02/09	02/17/09	02/19/09	15	2
REG08096-00710	8	196	5.00	0	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	02/02/09	02/17/09	02/20/09	15	3
REG08096-00710	8	196	5.00	0	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	02/02/09	02/17/09	02/20/09	15	3
REG08096-00711	8	196	5.00	0	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	02/02/09	02/17/09	02/20/09	15	3
REG08096-00711	8	196	5.00	0	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	02/02/09	02/17/09	02/20/09	15	3

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED DEFATTED FLOUR AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Defatted Flour

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00729	1	0	5.00	0	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	01/08/09	01/26/09	01/27/09	18	1
REG08096-00729	1	0	5.00	0	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	01/08/09	01/26/09	01/27/09	18	1
REG08096-00743	8	168	5.00	0	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	01/08/09	01/26/09	01/27/09	18	1
REG08096-00743	8	168	5.00	0	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	01/08/09	01/26/09	01/27/09	18	1
REG08096-00744	8	168	5.00	253	253	2.20E+0	2.25E+1	1.60E-3	0.00	0.0006	01/08/09	01/26/09	01/27/09	18	1
REG08096-00744	8	168	5.00	271	271	2.20E+0	2.25E+1	1.60E-3	0.00	0.0006	01/08/09	01/26/09	01/27/09	18	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED DEGUMMED OIL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Degummed Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						A	B							
REG08096-00700	1	0	0	5.00	0	2.03E+0	2.20E+1	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00700	1	0	0	5.00	0	2.03E+0	2.20E+1	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00718	8	197	5.00	0	0	2.03E+0	2.20E+1	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00718	8	197	5.00	0	0	2.03E+0	2.20E+1	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00719	8	197	5.00	0	0	2.03E+0	2.20E+1	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00719	8	197	5.00	0	0	2.03E+0	2.20E+1	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED DEGUMMED OIL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Degummed Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C		Analyte Amount	Amount					
REG08096-00733	1	0	0	5.00	203	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/08/09	01/26/09	01/26/09	18	0
REG08096-00733	1	0	0	5.00	569	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/08/09	01/26/09	01/26/09	18	0
REG08096-00751	8	168	5.00	57	57	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/08/09	01/26/09	01/26/09	18	0
REG08096-00751	8	168	5.00	656	656	2.20E+0	2.25E+1	1.60E-3	0.00	0.0001	0.0001	01/08/09	01/26/09	01/26/09	18	0
REG08096-00752	8	168	5.00	341	341	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/08/09	01/26/09	01/26/09	18	0
REG08096-00752	8	168	5.00	442	442	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/08/09	01/26/09	01/26/09	18	0

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED HULLS AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Hulls

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling		Extn. to Analysis	
						Constant A	Constant B	Constant C			Date	Days	Date	Days
REG08096-00694	1	0	0	5.00		-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	19	02/19/09	2
REG08096-00694	1	0	0	5.00		-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	19	02/19/09	2
REG08096-00706	8	192	5.00			-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	19	02/19/09	2
REG08096-00706	8	192	5.00			-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	19	02/19/09	2
REG08096-00707	8	192	5.00			-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	19	02/19/09	2
REG08096-00707	8	192	5.00			-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	19	02/19/09	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED HULLS AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Hulls

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Response	Curve			Area Response Ratio	Dicamba		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
							Constant	Constant	Constant		Analyte Amount	Amount					
REG08096-00727	1	0	0	5.00		0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	0.0000	12/30/08	01/27/09	01/29/09	28	2
REG08096-00727	1	0	0	5.00		56	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0023	0.0023	12/30/08	01/27/09	01/29/09	28	2
REG08096-00739	8	157	5.00			0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	0.0000	12/28/08	01/27/09	01/29/09	30	2
REG08096-00739	8	157	5.00			0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	0.0000	12/28/08	01/27/09	01/29/09	30	2
REG08096-00740	8	159	5.00			0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	0.0000	12/30/08	01/27/09	01/29/09	28	2
REG08096-00740	8	159	5.00			255	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0029	0.0029	12/30/08	01/27/09	01/29/09	28	2

Raw Data Table

RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED PROTEIN CONCENTRATES AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Protein Concentrates

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve		Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B							
REG08096-00698	1	0	0	5.00	0	-5.72E+0	2.36E+1	0.00	0.0000	02/06/09	02/26/09	02/27/09	20	1
REG08096-00698	1	0	0	5.00	0	-5.72E+0	2.36E+1	0.00	0.0000	02/06/09	02/26/09	02/27/09	20	1
REG08096-00714	8	200	5.00	5.00	0	-5.72E+0	2.36E+1	0.00	0.0000	02/06/09	02/26/09	02/27/09	20	1
REG08096-00714	8	200	5.00	5.00	771	-5.72E+0	2.36E+1	0.00	0.0002	02/06/09	02/26/09	02/27/09	20	1
REG08096-00715	8	200	5.00	5.00	0	-5.72E+0	2.36E+1	0.00	0.0000	02/06/09	02/26/09	02/27/09	20	1
REG08096-00715	8	200	5.00	5.00	482	-5.72E+0	2.36E+1	0.00	0.0001	02/06/09	02/26/09	02/27/09	20	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED PROTEIN CONCENTRATES AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Protein Concentrates

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling		Analysis Date	Sampling to Extn.		Extn. to Analysis Days
						Constant A	Constant B	Constant C			Date	Days		Date	Days	
REG08096-00731	1	0	0	5.00	62	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0023	01/16/09	11	01/29/09	11	2	2
REG08096-00731	1	0	0	5.00	362	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0030	01/16/09	11	01/29/09	11	2	2
REG08096-00747	8	176	5.00	163	163	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0026	01/16/09	11	01/29/09	11	2	2
REG08096-00747	8	176	5.00	210	210	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0027	01/16/09	11	01/29/09	11	2	2
REG08096-00748	8	176	5.00	28	28	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0023	01/16/09	11	01/29/09	11	2	2
REG08096-00748	8	176	5.00	434	434	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0031	01/16/09	11	01/29/09	11	2	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED PROTEIN ISOLATES AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Protein Isolates

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00697	1	0	0	5.00	0	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/05/09	02/26/09	02/26/09	21	0
REG08096-00697	1	0	0	5.00	0	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/05/09	02/26/09	02/26/09	21	0
REG08096-00712	8	199	5.00	5.00	0	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/05/09	02/26/09	02/27/09	21	1
REG08096-00712	8	199	5.00	5.00	0	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/05/09	02/26/09	02/27/09	21	1
REG08096-00713	8	199	5.00	5.00	0	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/05/09	02/26/09	02/27/09	21	1
REG08096-00713	8	199	5.00	5.00	0	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/05/09	02/26/09	02/27/09	21	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF DICAMBA IN SOYBEAN SEED PROTEIN ISOLATES AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Protein Isolates

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00730	1	0	5.00	255	-9.85E+0	2.78E+1	-1.22E-2	0.01	0.0040	01/14/09	01/27/09	01/29/09	13	2
REG08096-00730	1	0	5.00	340	-9.85E+0	2.78E+1	-1.22E-2	0.01	0.0043	01/14/09	01/27/09	01/29/09	13	2
REG08096-00745	8	175	5.00	0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	01/15/09	01/27/09	01/29/09	12	2
REG08096-00746	8	175	5.00	986	-9.85E+0	2.78E+1	-1.22E-2	0.02	0.0062	01/15/09	01/27/09	01/29/09	12	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED RBD OIL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed RBD Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	Dicamba Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days		Extn. to Analysis Days
						A	B									
REG08096-00701	1	0	0	5.00	0	2.03E+0	2.20E+1	0.00	0.0000	0.00	02/04/09	02/24/09	02/25/09	20	20	1
REG08096-00701	1	0	0	5.00	0	2.03E+0	2.20E+1	0.00	0.0000	0.00	02/04/09	02/24/09	02/25/09	20	20	1
REG08096-00720	8	198	5.00	0	2.03E+0	2.20E+1	2.20E+1	0.00	0.0000	0.00	02/04/09	02/24/09	02/25/09	20	20	1
REG08096-00720	8	198	5.00	0	2.03E+0	2.20E+1	2.20E+1	0.00	0.0000	0.00	02/04/09	02/24/09	02/25/09	20	20	1
REG08096-00721	8	198	5.00	0	2.03E+0	2.20E+1	2.20E+1	0.00	0.0000	0.00	02/04/09	02/24/09	02/25/09	20	20	1
REG08096-00721	8	198	5.00	0	2.03E+0	2.20E+1	2.20E+1	0.00	0.0000	0.00	02/04/09	02/24/09	02/25/09	20	20	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED RBD OIL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed RBD Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C		Analyte Amount	Amount					
REG08096-00734	1	0	0	5.00	262	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/09/09	01/26/09	01/26/09	17	0
REG08096-00734	1	0	0	5.00	453	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/09/09	01/26/09	01/26/09	17	0
REG08096-00753	8	169	5.00	0	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00753	8	169	5.00	310	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00754	8	169	5.00	0	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00754	8	169	5.00	129	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	0.0000	01/09/09	01/26/09	01/27/09	17	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED FROM PROCESSING AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed from Processing

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant							
REG08096-00693	1	0	0	5.00	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00693	1	0	0	5.00	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00704	8	192	5.00	0	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00704	8	192	5.00	0	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00705	8	192	5.00	0	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00705	8	192	5.00	0	0	-7.64E+0	2.48E+1	-5.57E-3	0.00	0.0000	01/29/09	02/17/09	02/19/09	19	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED FROM PROCESSING AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed from Processing

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00726	1	0	5.00	0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2
REG08096-00726	1	0	5.00	0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2
REG08096-00737	8	158	5.00	0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2
REG08096-00737	8	158	5.00	0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2
REG08096-00738	8	158	5.00	0	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2
REG08096-00738	8	158	5.00	224	-9.85E+0	2.78E+1	-1.22E-2	0.00	0.0028	12/29/08	01/27/09	01/29/09	29	2

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED SOYMILK AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Soymilk

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00702	1	0	0	5.00	0	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/03/09	02/26/09	02/27/09	23	1
REG08096-00702	1	0	0	5.00	0	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/03/09	02/26/09	02/27/09	23	1
REG08096-00722	8	197	5.00	226	226	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/03/09	02/26/09	02/27/09	23	1
REG08096-00722	8	197	5.00	449	449	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0001	02/03/09	02/26/09	02/27/09	23	1
REG08096-00723	8	197	5.00	0	0	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0000	02/03/09	02/26/09	02/27/09	23	1
REG08096-00723	8	197	5.00	404	404	-5.72E+0	2.36E+1	1.24E-3	0.00	0.0001	02/03/09	02/26/09	02/27/09	23	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED SOYMILK AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Soymilk

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00735	1	0	5.00	0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	01/26/09	02/10/09	02/10/09	15	0
REG08096-00735	1	0	5.00	0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	01/26/09	02/10/09	02/10/09	15	0
REG08096-00755	8	186	5.00	0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	01/26/09	02/10/09	02/10/09	15	0
REG08096-00755	8	186	5.00	0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	01/26/09	02/10/09	02/10/09	15	0
REG08096-00756	8	186	5.00	0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	01/26/09	02/10/09	02/10/09	15	0
REG08096-00756	8	186	5.00	0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	01/26/09	02/10/09	02/10/09	15	0

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED TOASTED DEFATTED MEAL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Toasted Defatted Meal

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant							
REG08096-00695	1	0	0	5.00	0	2.03E+0	2.20E+1	5.04E-3	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00695	1	0	0	5.00	0	2.03E+0	2.20E+1	5.04E-3	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00708	8	197	5.00	0	0	2.03E+0	2.20E+1	5.04E-3	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00708	8	197	5.00	0	0	2.03E+0	2.20E+1	5.04E-3	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00709	8	197	5.00	0	0	2.03E+0	2.20E+1	5.04E-3	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1
REG08096-00709	8	197	5.00	0	0	2.03E+0	2.20E+1	5.04E-3	0.00	0.0000	02/03/09	02/24/09	02/25/09	21	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED TOASTED DEFATTED MEAL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Toasted Defatted Meal

Sample ID	Trt No.	Days after Appl.	Factor	Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00728	1	0	5.00	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1
REG08096-00728	1	0	5.00	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1
REG08096-00741	8	172	5.00	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1
REG08096-00741	8	172	5.00	683	2.20E+0	2.25E+1	1.60E-3	0.01	0.0012	01/12/09	01/26/09	01/27/09	14	1
REG08096-00742	8	172	5.00	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1
REG08096-00742	8	172	5.00	0	2.20E+0	2.25E+1	1.60E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED TOFU AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Tofu

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	Dicamba Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C							
REG08096-00703	1	0	5.00	0	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0000	02/03/09	02/25/09	02/25/09	22	0
REG08096-00703	1	0	5.00	809	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0021	02/03/09	02/25/09	02/25/09	22	0
REG08096-00724	8	197	5.00	0	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0000	02/03/09	02/25/09	02/25/09	22	0
REG08096-00724	8	197	5.00	0	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0000	02/03/09	02/25/09	02/25/09	22	0
REG08096-00725	8	197	5.00	0	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0000	02/03/09	02/25/09	02/25/09	22	0
REG08096-00725	8	197	5.00	673	-9.11E+0	2.55E+1	-8.01E-3	0.00	0.0021	02/03/09	02/25/09	02/25/09	22	0

Raw Data Table RIMS III V4.0

RESIDUES OF DICAMBA IN SOYBEAN SEED TOFU AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Tofu

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Response			Curve			Area		Dicamba		Extraction		Sampling to Extn.		Extn. to Analysis	
						No.	Appl.	Response	Constant	Curve Constant	Curve C	Response Ratio	Amount	Analyte	Amount	Date	Date	Days	Days	Days	Days
REG08096-00736	1	0	0	5.00		0		0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	0.0000	0.0000	01/26/09	02/10/09	15	15	0	0
REG08096-00736	1	0	0	5.00	1500			1500	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0015	0.0015	0.0015	01/26/09	02/10/09	15	15	0	0
REG08096-00757	8	186	186	5.00		0		0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	0.0000	0.0000	01/26/09	02/10/09	15	15	0	0
REG08096-00757	8	186	186	5.00		0		0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	0.0000	0.0000	01/26/09	02/10/09	15	15	0	0
REG08096-00758	8	186	186	5.00		0		0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	0.0000	0.0000	01/26/09	02/10/09	15	15	0	0
REG08096-00758	8	186	186	5.00		0		0	-1.89E+0	2.22E+1	-2.01E-3	0.00	0.0000	0.0000	0.0000	01/26/09	02/10/09	15	15	0	0

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED CRUDE LECITHIN AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Crude Lecithin

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	-OH Dicamb Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant B	Constant C							
REG08096-00699	1	0	0	5.00	0	-2.52E+0	1.73E+1	-8.81E-4	0.00	0.0000	02/03/09	02/25/09	02/25/09	22	0
REG08096-00699	1	0	0	5.00	46	-2.52E+0	1.73E+1	-8.81E-4	0.00	0.0003	02/03/09	02/25/09	02/26/09	22	1
REG08096-00716	8	197	5.00	64	-2.52E+0	1.73E+1	1.73E+1	-8.81E-4	0.00	0.0003	02/03/09	02/25/09	02/26/09	22	1
REG08096-00716	8	197	5.00	176	-2.52E+0	1.73E+1	1.73E+1	-8.81E-4	0.00	0.0005	02/03/09	02/25/09	02/26/09	22	1
REG08096-00717	8	197	5.00	0	-2.52E+0	1.73E+1	1.73E+1	-8.81E-4	0.00	0.0000	02/03/09	02/25/09	02/26/09	22	1
REG08096-00717	8	197	5.00	564	-2.52E+0	1.73E+1	1.73E+1	-8.81E-4	0.00	0.0010	02/03/09	02/25/09	02/26/09	22	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED CRUDE LECITHIN AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Crude Lecithin

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve Constant		Curve C	Area Response Ratio		-OH Dicamb Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						A	B									
REG08096-00732	1	0	0	5.00	367	2.07E+0	1.66E+1	1.48E-3	0.00	0.0000	0.00	01/08/09	01/29/09	01/29/09	21	0
REG08096-00732	1	0	0	5.00	377	2.07E+0	1.66E+1	1.48E-3	0.00	0.0000	0.00	01/08/09	01/29/09	01/29/09	21	0
REG08096-00749	8	168	5.00	0	0	2.07E+0	1.66E+1	1.48E-3	0.00	0.0000	0.00	01/08/09	01/29/09	01/29/09	21	0
REG08096-00749	8	168	5.00	174	174	2.07E+0	1.66E+1	1.48E-3	0.00	0.0000	0.00	01/08/09	01/29/09	01/30/09	21	1
REG08096-00750	8	168	5.00	309	309	2.07E+0	1.66E+1	1.48E-3	0.00	0.0000	0.00	01/08/09	01/29/09	01/30/09	21	1
REG08096-00750	8	168	5.00	349	349	2.07E+0	1.66E+1	1.48E-3	0.00	0.0000	0.00	01/08/09	01/29/09	01/30/09	21	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED DEFATTED FLOUR AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Defatted Flour

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant								
REG08096-00696	1	0	0	5.00		-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	02/02/09	02/17/09	02/19/09	15	2
REG08096-00696	1	0	0	5.00	492	-5.06E+0	1.81E+1	5.61E-4	0.00	0.0002	0.0002	02/02/09	02/17/09	02/19/09	15	2
REG08096-00710	8	196	5.00			-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	02/02/09	02/17/09	02/20/09	15	3
REG08096-00710	8	196	5.00			-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	02/02/09	02/17/09	02/20/09	15	3
REG08096-00711	8	196	5.00			-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	02/02/09	02/17/09	02/20/09	15	3
REG08096-00711	8	196	5.00			-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	02/02/09	02/17/09	02/20/09	15	3

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED DEFATTED FLOUR AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Defatted Flour

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						A	B								
REG08096-00729	1	0	0	5.00	0	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/08/09	01/26/09	01/27/09	18	1
REG08096-00729	1	0	0	5.00	0	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/08/09	01/26/09	01/27/09	18	1
REG08096-00743	8	168	5.00	0	0	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/08/09	01/26/09	01/27/09	18	1
REG08096-00743	8	168	5.00	0	0	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/08/09	01/26/09	01/27/09	18	1
REG08096-00744	8	168	5.00	0	0	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/08/09	01/26/09	01/27/09	18	1
REG08096-00744	8	168	5.00	0	0	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/08/09	01/26/09	01/27/09	18	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED DEGUMMED OIL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Degummed Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	-OH Dicamb Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00700	1	0	0	5.00	227	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0009	02/03/09	02/16/09	02/16/09	13	0
REG08096-00700	1	0	0	5.00	336	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0010	02/03/09	02/16/09	02/16/09	13	0
REG08096-00718	8	197	5.00	47	362	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0006	02/03/09	02/16/09	02/16/09	13	0
REG08096-00718	8	197	5.00	362	300	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0011	02/03/09	02/16/09	02/16/09	13	0
REG08096-00719	8	197	5.00	300	378	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0009	02/03/09	02/16/09	02/16/09	13	0
REG08096-00719	8	197	5.00	378		-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0011	02/03/09	02/16/09	02/16/09	13	0

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED DEGUMMED OIL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Degummed Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						A	B								
REG08096-00733	1	0	0	5.00	180	-6.63E-1	1.69E+1	0.00	0.0000	0.00	01/08/09	01/26/09	01/26/09	18	0
REG08096-00733	1	0	0	5.00	198	-6.63E-1	1.69E+1	0.00	0.0000	0.00	01/08/09	01/26/09	01/26/09	18	0
REG08096-00751	8	168	5.00	471	884	-6.63E-1	1.69E+1	0.00	0.0000	0.00	01/08/09	01/26/09	01/26/09	18	0
REG08096-00751	8	168	5.00	884	470	-6.63E-1	1.69E+1	0.00	0.0006	0.00	01/08/09	01/26/09	01/26/09	18	0
REG08096-00752	8	168	5.00	470	518	-6.63E-1	1.69E+1	0.00	0.0000	0.00	01/08/09	01/26/09	01/26/09	18	0
REG08096-00752	8	168	5.00	518		-6.63E-1	1.69E+1	0.00	0.0001	0.00	01/08/09	01/26/09	01/26/09	18	0

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED HULLS AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Hulls

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C								
REG08096-00694	1	0	0	5.00		-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00694	1	0	0	5.00		-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00706	8	192	5.00			-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00706	8	192	5.00			-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00707	8	192	5.00			-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	01/29/09	02/17/09	02/19/09	19	2
REG08096-00707	8	192	5.00			-5.06E+0	1.81E+1	5.61E-4	0.00	0.0000	0.0000	01/29/09	02/17/09	02/19/09	19	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED HULLS AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Hulls

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant		Analyte Amount	Amount					
REG08096-00727	1	0	0	5.00		-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	0.0000	12/30/08	01/27/09	01/29/09	28	2
REG08096-00727	1	0	0	5.00		-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	0.0000	12/30/08	01/27/09	01/29/09	28	2
REG08096-00739	8	157	5.00			-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	0.0000	12/28/08	01/27/09	01/29/09	30	2
REG08096-00739	8	157	5.00			-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	0.0000	12/28/08	01/27/09	01/29/09	30	2
REG08096-00740	8	159	5.00			-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	0.0000	12/30/08	01/27/09	01/29/09	28	2
REG08096-00740	8	159	5.00			-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	0.0000	12/30/08	01/27/09	01/29/09	28	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED PROTEIN CONCENTRATES AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Protein Concentrates

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days		Extn. to Analysis Days
						A	B									
REG08096-00698	1	0	0	5.00	190	-4.55E+0	1.88E+1	0.00	0.0017	0.00	02/06/09	02/26/09	02/27/09	20	20	1
REG08096-00698	1	0	0	5.00	773	-4.55E+0	1.88E+1	0.00	0.0023	0.00	02/06/09	02/26/09	02/27/09	20	20	1
REG08096-00714	8	200	5.00	0	0	-4.55E+0	1.88E+1	0.00	0.0000	0.00	02/06/09	02/26/09	02/27/09	20	20	1
REG08096-00714	8	200	5.00	235	235	-4.55E+0	1.88E+1	0.00	0.0017	0.00	02/06/09	02/26/09	02/27/09	20	20	1
REG08096-00715	8	200	5.00	225	225	-4.55E+0	1.88E+1	0.00	0.0017	0.00	02/06/09	02/26/09	02/27/09	20	20	1
REG08096-00715	8	200	5.00	267	267	-4.55E+0	1.88E+1	0.00	0.0017	0.00	02/06/09	02/26/09	02/27/09	20	20	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED PROTEIN CONCENTRATES AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Protein Concentrates

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days		Extn. to Analysis Days
						A	B									
REG08096-00731	1	0	0	5.00	299	-1.73E+0	1.71E+1	0.00	0.0005	0.00	01/16/09	01/27/09	01/29/09	11	11	2
REG08096-00731	1	0	0	5.00	524	-1.73E+0	1.71E+1	0.00	0.0007	0.00	01/16/09	01/27/09	01/29/09	11	11	2
REG08096-00747	8	176	5.00	122	122	-1.73E+0	1.71E+1	0.00	0.0004	0.00	01/16/09	01/27/09	01/29/09	11	11	2
REG08096-00747	8	176	5.00	514	514	-1.73E+0	1.71E+1	0.00	0.0007	0.00	01/16/09	01/27/09	01/29/09	11	11	2
REG08096-00748	8	176	5.00	118	118	-1.73E+0	1.71E+1	0.00	0.0004	0.00	01/16/09	01/27/09	01/29/09	11	11	2
REG08096-00748	8	176	5.00	311	311	-1.73E+0	1.71E+1	0.00	0.0006	0.00	01/16/09	01/27/09	01/29/09	11	11	2

Raw Data Table

RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED PROTEIN ISOLATES AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Protein Isolates

Sample ID	No.	Trt	Days after Appl.	Factor	Quant.	Curve			Area Response Ratio	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant		Analyte Amount	Amount					
REG08096-00697	1	0	0	5.00		237	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0017	02/05/09	02/26/09	02/26/09	21	0
REG08096-00697	1	0	0	5.00		518	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0020	02/05/09	02/26/09	02/26/09	21	0
REG08096-00712	8	199	5.00			507	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0020	02/05/09	02/26/09	02/27/09	21	1
REG08096-00712	8	199	5.00			517	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0020	02/05/09	02/26/09	02/27/09	21	1
REG08096-00713	8	199	5.00			203	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0017	02/05/09	02/26/09	02/27/09	21	1
REG08096-00713	8	199	5.00			645	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0021	02/05/09	02/26/09	02/27/09	21	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED PROTEIN ISOLATES AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Protein Isolates

Sample ID	Days		Trt	No. Appl.	Factor	Response	Curve		Area	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
	Constant	Curve Constant					Response Ratio	Analyte Amount								
REG08096-00730	1	0	5.00	204	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0006	0.0006	01/14/09	01/27/09	01/29/09	13	2	
REG08096-00730	1	0	5.00	436	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0009	0.0009	01/14/09	01/27/09	01/29/09	13	2	
REG08096-00745	8	175	5.00	702	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0009	0.0009	01/15/09	01/27/09	01/29/09	12	2	
REG08096-00746	8	175	5.00	380	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0006	0.0006	01/15/09	01/27/09	01/29/09	12	2	

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED RBD OIL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed RBD Oil

Sample ID	Trt No.	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
					Constant A	Constant B	Constant C		Analyte Amount	Analyte					
REG08096-00701	1	0	5.00	528	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0012	0.00	02/04/09	02/16/09	02/16/09	12	0
REG08096-00701	1	0	5.00	713	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0015	0.00	02/04/09	02/16/09	02/16/09	12	0
REG08096-00720	8	198	5.00	606	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0013	0.00	02/04/09	02/16/09	02/16/09	12	0
REG08096-00720	8	198	5.00	821	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0016	0.00	02/04/09	02/16/09	02/16/09	12	0
REG08096-00721	8	198	5.00	376	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0010	0.00	02/04/09	02/16/09	02/16/09	12	0
REG08096-00721	8	198	5.00	605	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0013	0.00	02/04/09	02/16/09	02/16/09	12	0

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED RBD OIL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed RBD Oil

Sample ID	No.	Trt	Days after Appl.	Factor	Quant. Response	Curve Constant		Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						A	B								
REG08096-00734	1	0	0	5.00	393	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/09/09	01/26/09	01/26/09	17	0
REG08096-00734	1	0	0	5.00	551	-6.63E-1	1.69E+1	0.00	0.0002	0.0002	01/09/09	01/26/09	01/26/09	17	0
REG08096-00753	8	169	5.00	5.00	351	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00753	8	169	5.00	5.00	387	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00754	8	169	5.00	5.00	45	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/09/09	01/26/09	01/27/09	17	1
REG08096-00754	8	169	5.00	5.00	320	-6.63E-1	1.69E+1	0.00	0.0000	0.0000	01/09/09	01/26/09	01/27/09	17	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED FROM PROCESSING AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed from Processing

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve Constant		Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						A	B								
REG08096-00693	1	0	0	5.00	0	-5.06E+0	1.81E+1	0.00	0.0000	0.00	01/29/09	02/17/09	02/19/09	19	2
REG08096-00693	1	0	0	5.00	0	-5.06E+0	1.81E+1	0.00	0.0000	0.00	01/29/09	02/17/09	02/19/09	19	2
REG08096-00704	8	192	5.00	1700	1700	-5.06E+0	1.81E+1	0.00	0.0011	0.00	01/29/09	02/17/09	02/19/09	19	2
REG08096-00704	8	192	5.00	2030	2030	-5.06E+0	1.81E+1	0.01	0.0013	0.01	01/29/09	02/17/09	02/19/09	19	2
REG08096-00705	8	192	5.00	0	0	-5.06E+0	1.81E+1	0.00	0.0000	0.00	01/29/09	02/17/09	02/19/09	19	2
REG08096-00705	8	192	5.00	241	241	-5.06E+0	1.81E+1	0.00	0.0000	0.00	01/29/09	02/17/09	02/19/09	19	2

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED FROM PROCESSING AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed from Processing

Sample ID	Days		Trt	No. Appl.	Factor	Response	Curve			Area Response Ratio	-OH Dicamb Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
	Constant	Constant					Constant									
REG08096-00726	1	0	5.00	0	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2		
REG08096-00726	1	0	5.00	0	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2		
REG08096-00737	8	158	5.00	0	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2		
REG08096-00737	8	158	5.00	0	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2		
REG08096-00738	8	158	5.00	0	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2		
REG08096-00738	8	158	5.00	0	-1.73E+0	1.71E+1	-9.00E-4	0.00	0.0000	12/29/08	01/27/09	01/29/09	29	2		

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED SOYMILK AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Soymilk

Sample ID	No.	Trt	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C								
REG08096-00702	1	0	0	5.00	62	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0015	0.0015	02/03/09	02/26/09	02/27/09	23	1
REG08096-00702	1	0	0	5.00	484	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0020	0.0020	02/03/09	02/26/09	02/27/09	23	1
REG08096-00722	8	197	5.00	0	0	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0000	0.0000	02/03/09	02/26/09	02/27/09	23	1
REG08096-00722	8	197	5.00	433	433	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0019	0.0019	02/03/09	02/26/09	02/27/09	23	1
REG08096-00723	8	197	5.00	182	182	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0017	0.0017	02/03/09	02/26/09	02/27/09	23	1
REG08096-00723	8	197	5.00	371	371	-4.55E+0	1.88E+1	-5.47E-3	0.00	0.0019	0.0019	02/03/09	02/26/09	02/27/09	23	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED SOYMILK AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Soymilk

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant	Constant	Constant		Analyte Amount	Amount					
REG08096-00735	1	0	0	5.00	505	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0004	0.0004	01/26/09	02/10/09	02/10/09	15	0
REG08096-00735	1	0	0	5.00	633	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0006	0.0006	01/26/09	02/10/09	02/10/09	15	0
REG08096-00755	8	186	5.00	181	181	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0001	0.0001	01/26/09	02/10/09	02/10/09	15	0
REG08096-00755	8	186	5.00	364	364	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0003	0.0003	01/26/09	02/10/09	02/10/09	15	0
REG08096-00756	8	186	5.00	862	862	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0007	0.0007	01/26/09	02/10/09	02/10/09	15	0
REG08096-00756	8	186	5.00	1030	1030	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0008	0.0008	01/26/09	02/10/09	02/10/09	15	0

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED TOASTED DEFATTED MEAL AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Toasted Defatted Meal

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	-OH Dicamb Analyte Amount		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C								
REG08096-00695	1	0	0	5.00	0	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0000	0.0000	02/03/09	02/16/09	02/16/09	13	0
REG08096-00695	1	0	0	5.00	0	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0000	0.0000	02/03/09	02/16/09	02/16/09	13	0
REG08096-00708	8	197	5.00	0	0	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0000	0.0000	02/03/09	02/16/09	02/17/09	13	1
REG08096-00708	8	197	5.00	0	0	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0000	0.0000	02/03/09	02/16/09	02/17/09	13	1
REG08096-00709	8	197	5.00	0	0	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0000	0.0000	02/03/09	02/16/09	02/17/09	13	1
REG08096-00709	8	197	5.00	0	0	-3.46E+0	1.65E+1	-1.89E-3	0.00	0.0000	0.0000	02/03/09	02/16/09	02/17/09	13	1

Raw Data Table *RIMS III V4.0*

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED TOASTED DEFATTED MEAL AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Toasted Defatted Meal

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	-OH Dicamb Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00728	1	0	0	5.00	0	-6.63E-1	1.69E+1	2.41E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1
REG08096-00728	1	0	0	5.00	0	-6.63E-1	1.69E+1	2.41E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1
REG08096-00741	8	172	5.00	0	0	-6.63E-1	1.69E+1	2.41E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1
REG08096-00741	8	172	5.00	0	0	-6.63E-1	1.69E+1	2.41E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1
REG08096-00742	8	172	5.00	0	0	-6.63E-1	1.69E+1	2.41E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1
REG08096-00742	8	172	5.00	0	0	-6.63E-1	1.69E+1	2.41E-3	0.00	0.0000	01/12/09	01/26/09	01/27/09	14	1

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED TOFU AFTER APPLICATION OF DICAMBA

Location: NE-1, York
Matrix: Soybean Seed Tofu

Sample ID	No.	Trt	Days after Appl.	Factor	Quant. Response	Curve			Area Response Ratio	-OH Dicamb		Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C		Analyte Amount	Analyte					
REG08096-00703	1	0	0	5.00	147	-2.52E+0	1.73E+1	-8.81E-4	0.00	0.0005		02/03/09	02/25/09	02/25/09	22	0
REG08096-00703	1	0	0	5.00	458	-2.52E+0	1.73E+1	-8.81E-4	0.00	0.0009		02/03/09	02/25/09	02/25/09	22	0
REG08096-00724	8	197	5.00	370	-2.52E+0	1.73E+1	1.73E+1	-8.81E-4	0.00	0.0008		02/03/09	02/25/09	02/25/09	22	0
REG08096-00724	8	197	5.00	532	-2.52E+0	1.73E+1	1.73E+1	-8.81E-4	0.00	0.0010		02/03/09	02/25/09	02/25/09	22	0
REG08096-00725	8	197	5.00	0	-2.52E+0	1.73E+1	1.73E+1	-8.81E-4	0.00	0.0000		02/03/09	02/25/09	02/25/09	22	0
REG08096-00725	8	197	5.00	353	-2.52E+0	1.73E+1	1.73E+1	-8.81E-4	0.00	0.0007		02/03/09	02/25/09	02/25/09	22	0

Raw Data Table RIMS III V4.0

RESIDUES OF 5-OH DICAMBA IN SOYBEAN SEED TOFU AFTER APPLICATION OF DICAMBA

Location: WI-1, Delavan
Matrix: Soybean Seed Tofu

Sample ID	No.	Trt	Days after Appl.	Factor	Response	Curve			Area Response Ratio	-OH Dicamb Analyte Amount	Sampling Date	Extraction Date	Analysis Date	Sampling to Extn. Days	Extn. to Analysis Days
						Constant A	Constant B	Constant C							
REG08096-00736	1	0	0	5.00	142	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0001	01/26/09	02/10/09	02/10/09	15	0
REG08096-00736	1	0	0	5.00	622	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0006	01/26/09	02/10/09	02/10/09	15	0
REG08096-00757	8	186	5.00	96	96	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0001	01/26/09	02/10/09	02/10/09	15	0
REG08096-00757	8	186	5.00	917	917	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0008	01/26/09	02/10/09	02/10/09	15	0
REG08096-00758	8	186	5.00	886	886	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0007	01/26/09	02/10/09	02/10/09	15	0
REG08096-00758	8	186	5.00	1020	1020	-4.35E+0	1.73E+1	2.09E-5	0.00	0.0009	01/26/09	02/10/09	02/10/09	15	0

Appendix 10. Representative Chromatograms

The following section contains representative chromatograms generated from the LC/MS/MS data system. Tables on the following pages present a key to the identification of each of the sample chromatograms; the tables contain the figure number associated with the chromatogram, along with the sample name (based on the analysis set) and the identification of the sample. Because the concentrations of dicamba and 5-hydroxydicamba are typically much lower than that of DCSA and DCGA, the analyses for these analytes were sometimes conducted in different analytical sets because the concentration of DCSA and DCGA may have been outside the range of the standards. The procedure was that the first valid analysis was retained, e.g., if the first analysis for dicamba and 5-hydroxydicamba was valid but the concentration of DCSA and DCGA was outside the range of the standards, the results for the dicamba and 5-hydroxydicamba were retained, but new analyses were conducted for the other analytes in which dilution was conducted prior to the analysis. These new analyses involved extraction of a new sample of the matrix rather than just a dilution of the original extract because the dilutions were conducted prior to the hydrolysis as described in the method.

Notes of the text content of the sample chromatograms: The text on each sample chromatogram is default information output by the data system, and there is little flexibility in the size of the text in the output. Because of the very large volume of analytes and matrices in this study, it was not practical to provide the sample chromatograms in the size necessary to generate the text in a larger font. The sample chromatograms are intended to provide the reader with examples of the analyte peaks and the background in the area of the analysis. This is readily seen in the sample chromatograms. The information in the sample chromatograms is not required for use in calculation of the sample concentration; the raw data tables in Appendices 7, 8 and 9 present the raw data needed for manual calculation of a sample concentration.

Each of the sample chromatograms contains the analysis of the sample (control, fortified or treated) on the left side of the page, with the analysis of the corresponding internal standard on the right side of the page. A ^{13}C -labeled internal standard for each of the analytes was used in the analysis.

If the reader wishes to calculate the concentration of the analyte in a given sample, use of the raw data tables is recommended. In the raw data tables in Appendices 7, 8 and 9, the curve constants and all the necessary information for calculation of concentrations according to the equations provided in Section 5.6 are available.

Key to the Identification of Seed Sample Chromatograms

Figure Number(s)	Type	Sample Name	Sample ID (Location, Treatment, RIMS ID, matrix)
S-1/G-1/D-1/H-1	C	2009JAN15_002	AR Trt 1 REG08096-00001 seed control
S-2/G-2/D-2/H-2	F	2009JAN15_003	AR Trt 1 REG08096-00001 seed fort at 0.02 ppm
S-3/G-3/D-3/H-3	F	2009JAN15_004	AR Trt 1 REG08096-00001 seed fort at 0.05 ppm
S-4/G-4/D-4/H-4	F	2009JAN15_005	AR Trt 1 REG08096-00001 seed fort at 0.20 ppm
S-5/G-5/D-5/H-5	F	2009JAN15_006	AR Trt 1 REG08096-00001 seed fort at 0.40 ppm
S-6/D-6	C	2009MAR06_002	KS-2 Trt 1 REG08096-00073 seed control
S-7/D-7	C	2009MAR06_011	NE-1 Trt 1 REG08096-00136 seed control
S-8/D-8	C	2009MAR06_022	WI-1 Trt 1 REG08096-00181 seed control
S-9/D-9	T	2009MAR06_006	KS-2 Trt 4 REG08096-00078 seed
S-10/D-10	T	2009MAR06_017	NE-1 Trt 4 REG08096-00141 seed
S-11/D-11	T	2009MAR06_028	WI-1 Trt 4 REG08096-00186 seed
S-12/D-12/H-12	T	2009MAR20_004	IA-1 Trt 5 REG08096-00473 seed decline
S-13/D-13/H-13	T	2009MAR20_011	MN-1 Trt 5 REG08096-00479 seed decline
S-14/D-14/H-14	T	2009MAR20_016	MN-1 Trt 5 REG08096-00483 seed decline
G-15	C	2009FEB10B_011	KS-1 Trt 1 REG08096-00064 seed control
G-16	C	2009FEB10B_014	MN-1 Trt 1 REG08096-00100 seed control
G-17	C	2009FEB10B_023	MN-2 Trt 1 REG08096-00109 seed control
G-18	T	2009FEB10B_004	KS-1 Trt 4 REG08096-00069 seed
G-19	T	2009FEB10B_018	MN-1 Trt 4 REG08096-00105 seed
G-20	T	2009FEB10B_029	MN-2 Trt 4 REG08096-00114 seed
G-21	T	2009MAR06_006	KS-2 Trt 4 REG08096-00078 seed
G-22	T	2009MAR06_017	NE-1 Trt 4 REG08096-00141 seed
G-23	T	2009MAR06_028	WI-1 Trt 4 REG08096-00186 seed
H-24	C	2009JAN13_002	KS-2 Trt 1 REG08096-00073 seed control
H-25	C	2009JAN13_014	NE-1 Trt 1 REG08096-00136 seed control
H-26	C	2009JAN13_026	WI-1 Trt 1 REG08096-00181 seed control
H-27	T	2009JAN13_009	KS-2 Trt 4 REG08096-00078 seed
H-28	T	2009JAN13_021	NE-1 Trt 4 REG08096-00141 seed
H-29	T	2009JAN13_034	WI-1 Trt 4 REG08096-00186 seed

Key to the Identification of Forage Sample Chromatograms

Figure Number(s)	Type	Sample Name	Sample ID (Location, Treatment, RIMS ID, matrix)
S-30/G-30/D-30H-30	C	2009JAN22_002	MN-1 Trt 1 REG08096-00354 forage control
S-31/G-31/D-31/H-31	C	2009JAN22_014	NE-1 Trt 1 REG08096-00390 forage control
S-32/G-32/D-32/H-32	C	2009JAN22_026	WI-2 Trt 1 REG08096-00444 forage control
S-33/G-33/D-33/H-33	F	2009JAN22_015	NE-1 Trt 1 REG08096-00390 forage fort at 0.02 ppm
S-34/G-34/D-34/H-34	F	2009JAN22_027	WI-1 Trt 1 REG08096-00444 forage fort at 0.05 ppm
S-35/G-35/D-35/H-35	F	2009JAN22_028	WI-1 Trt 1 REG08096-00444 forage fort at 0.2 ppm
S-36	C	2009APR09_002	NE-2 Trt 1 REG08096-00399 forage control
S-37	C	2009APR09_018	SC Trt 1 REG08096-00408 forage control
S-38	C	2009APR09_033	SD-1 Trt 1 REG08096-00417 forage control
S-39	T	2009APR09_004	NE-2 Trt 4 REG08096-00404 forage diluted DCSA
S-40	T	2009APR09_011	NE-1 Trt 4 REG08096-00395 forage diluted DCSA
S-41	T	2009APR09_026	SC Trt 4 REG08096-00413 forage diluted DCSA
S-42	T	2009APR07_006	IL-2 Trt 4 REG08096-00305 forage diluted DCSA
S-43	T	2009APR07_009	IL-2 Trt 5 REG08096-00307 forage diluted DCSA
S-44	T	2009APR07_039	KS-1 Trt 6 REG08096-00457 forage diluted DCSA
G-45	C	2009MAR13_002	GA Trt 1 REG08096-00264 forage control
G-46	C	2009MAR13_014	SC Trt 1 REG08096-00408 forage control
G-47	C	2009MAR13_026	LA Trt 1 REG08096-00336 forage control
G-48	T	2009MAR13B_009	IN Trt 4 REG08096-00314 forage
G-49	T	2009MAR13B_021	MI Trt 4 REG08096-00350 forage
G-50	T	2009MAR13B_034	IA-1 Trt 4 REG08096-00278 forage
G-51	T	2009MAR13_021	SC Trt 4 REG08096-00413 forage
G-52	T	2009MAR13_022	SC Trt 4 REG08096-00414 forage
G-53	T	2009MAR13_034	LA Trt 4 REG08096-00341 forage
D-54/H54	C	2009JAN08_002	IA-1 Trt 1 REG08096-00273 forage control
D-55/H-55	C	2009JAN08_014	IN Trt 1 REG08096-00309 forage control
D-56/H-56	C	2009JAN08_026	MI Trt 1 REG08096-00345 forage control
D-57/H-57	T	2009JAN08_009	IA-1 Trt 4 REG08096-00278 forage
D-58/H-58	T	2009JAN08_011	IA-1 Trt 5 REG08096-00280 forage
D-59/H-59	T	2009JAN08_021	IN Trt 4 REG08096-00314 forage
D-60/H-60	T	2009MAR13_010	GA Trt 4 REG08096-00270
D-61/H-61	T	2009MAR13_021	SC Trt 4 REG08096-00413
D-62/H-62	T	2009MAR13_034	LA Trt 4 REG08096-00341

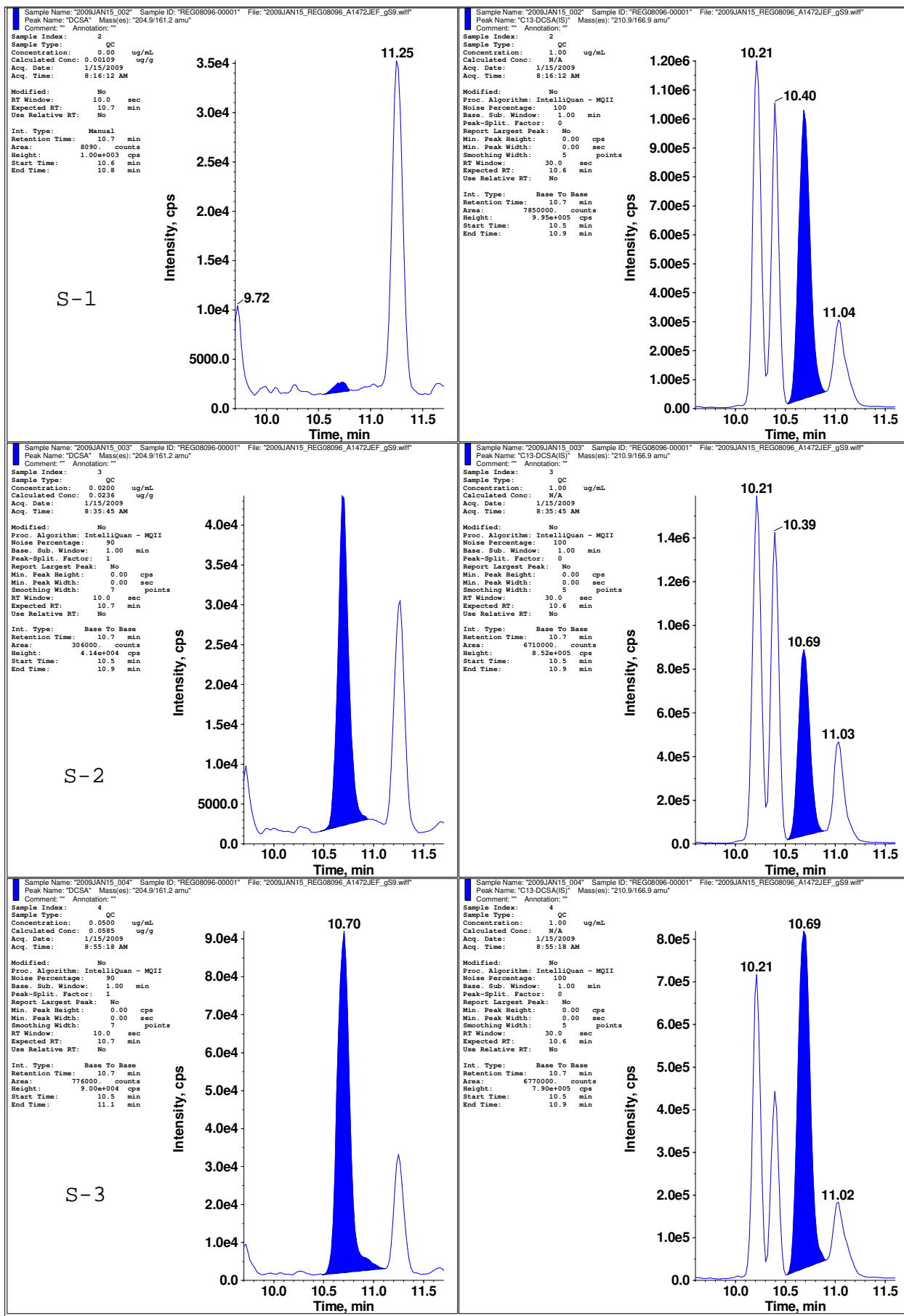
Key to the Identification of Hay Sample Chromatograms

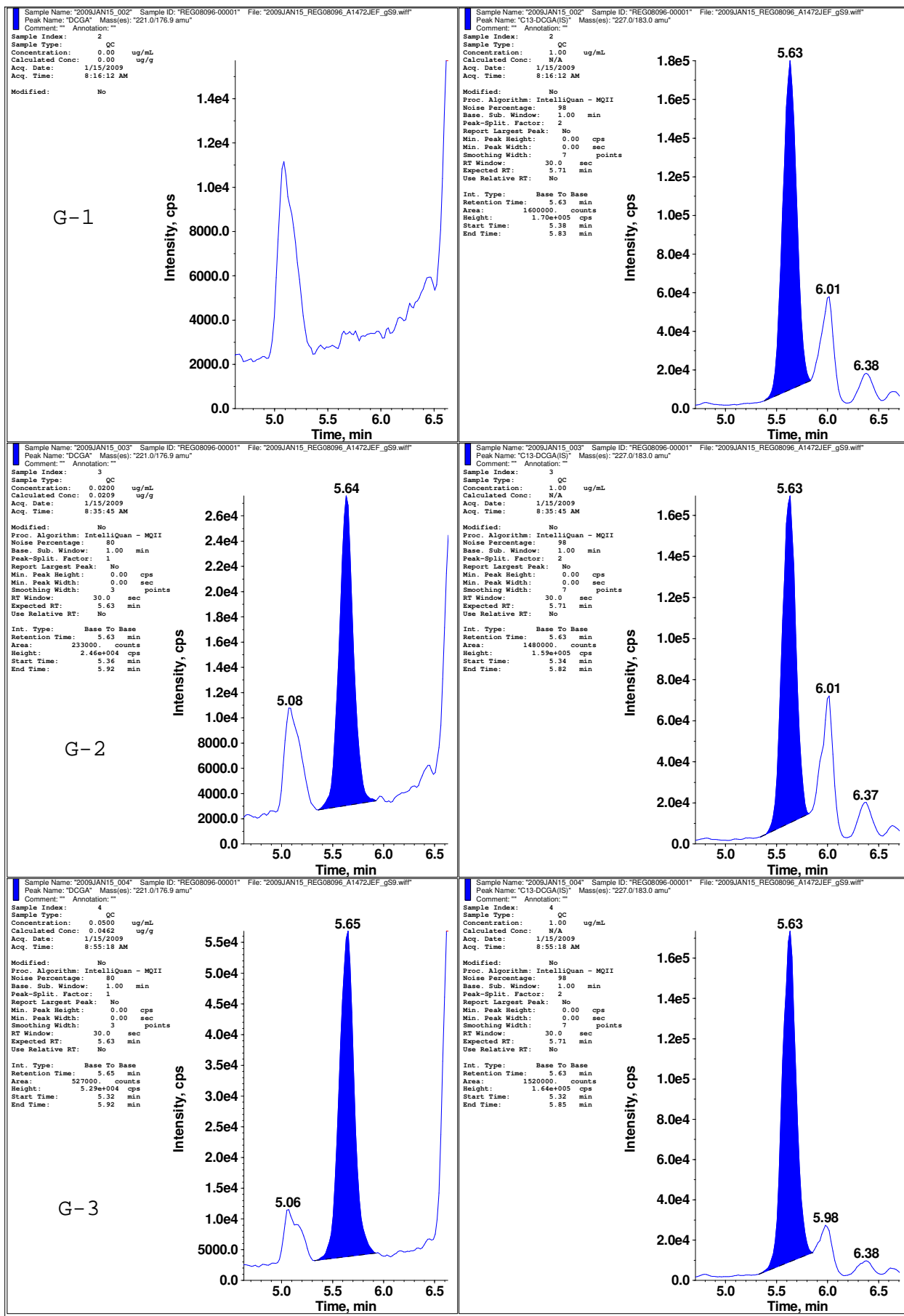
Figure Number(s)	Type	Sample Name	Sample ID (Location, Treatment, RIMS ID, matrix)
S-63/G-63/D-63/H-63	C	2009JAN07_002	IA-2 Trt 1 REG08096-00512 hay control
S-64/G-64/D-64/H-64	C	2009JAN07_014	KS-2 Trt 1 REG08096-00557 hay control
S-65/G-65/D-65/H-65	C	2009JAN07_027	MI Trt 1 REG08096-00575 hay control
S-66/G-66/D-66/H-66	F	2009JAN07_004	IA-1 Trt 1 REG08096-00503 hay fort at 0.02 ppm
S-67/G-67/D-67/H-67	F	2009JAN07_005	IA-1 Trt 1 REG08096-00503 hay fort at 0.05 ppm
S-68/G-68/D-68/H-68	F	2009JAN07_006	IA-1 Trt 1 REG08096-00503 hay fort at 0.1 ppm
S-69/G-69	C	2009APR18_002	MO Trt 1 REG08096-00602 hay control
S-70/G-70	C	2009APR18_014	ND-1 Trt 1 REG08096-00611 hay control
S-71/G-71	C	2009APR18_026	NE-2 Trt 1 REG08096-00629 hay control
S-72	T	2009APR15_008	IA-2 Trt 4 REG08096-00517 hay diluted DCSA
S-73	T	2009APR15_012	IL-1 Trt 4 REG08096-00526 hay diluted DCSA
S-74	T	2009APR15_017	IL-2 Trt 4 REG08096-00535 hay diluted DCSA
S-75	T	2009APR18_009	MO Trt 4 REG08096-00607 hay diluted DCSA
S-76	T	2009APR18_017	ND-1 Trt 4 REG08096-00616 hay diluted DCSA
S-77	T	2009APR18_029	NE-2 Trt 4 REG08096-00634 hay diluted DCSA
G-78	T	2009APR15_008	IA-2 Trt 4 REG08096-00517 hay diluted DCGA
G-79	T	2009APR15_009	IA-2 Trt 4 REG08096-00518 hay diluted DCGA
G-80	T	2009APR15_030	IN Trt 4 REG08096-00544 hay diluted DCGA
G-81	T	2009APR18_017	ND-1 Trt 4 REG08096-00616 hay diluted DCGA
G-82	T	2009APR18_020	ND-1 Trt 4 REG08096-006167 hay diluted DCGA
G-83	T	2009APR18_028	NE-2 Trt 4 REG08096-00634 hay diluted DCGA
D-84/H-84	C	2009JAN23_002	ND-1 Trt 1 REG08096-00611 hay control
D-85/H-85	C	2009JAN23_014	SD-1 Trt 1 REG08096-00647 hay control
D-86/H-86	C	2009JAN23_027	NE-2 Trt 1 REG08096-00629 hay control
D-87/H-87	T	2009FEB026_015	IA-1 Trt 5 REG08096-00510 hay
D-88/H-88	T	2009FEB026_028	IL-2 Trt 4 REG08096-00535 hay
D-89/H-89	T	2009FEB026_030	IL-2 Trt 5 REG08096-00537 hay
D-90/H-90	T	2009JAN23_009	ND-1 Trt 4 REG08096-00616 hay
D-91/H-91	T	2009JAN23_022	SD-1 Trt 4 REG08096-00652 hay
D-92/H-92	T	2009JAN23_034	NE-2 Trt 4 REG08096-00634 hay

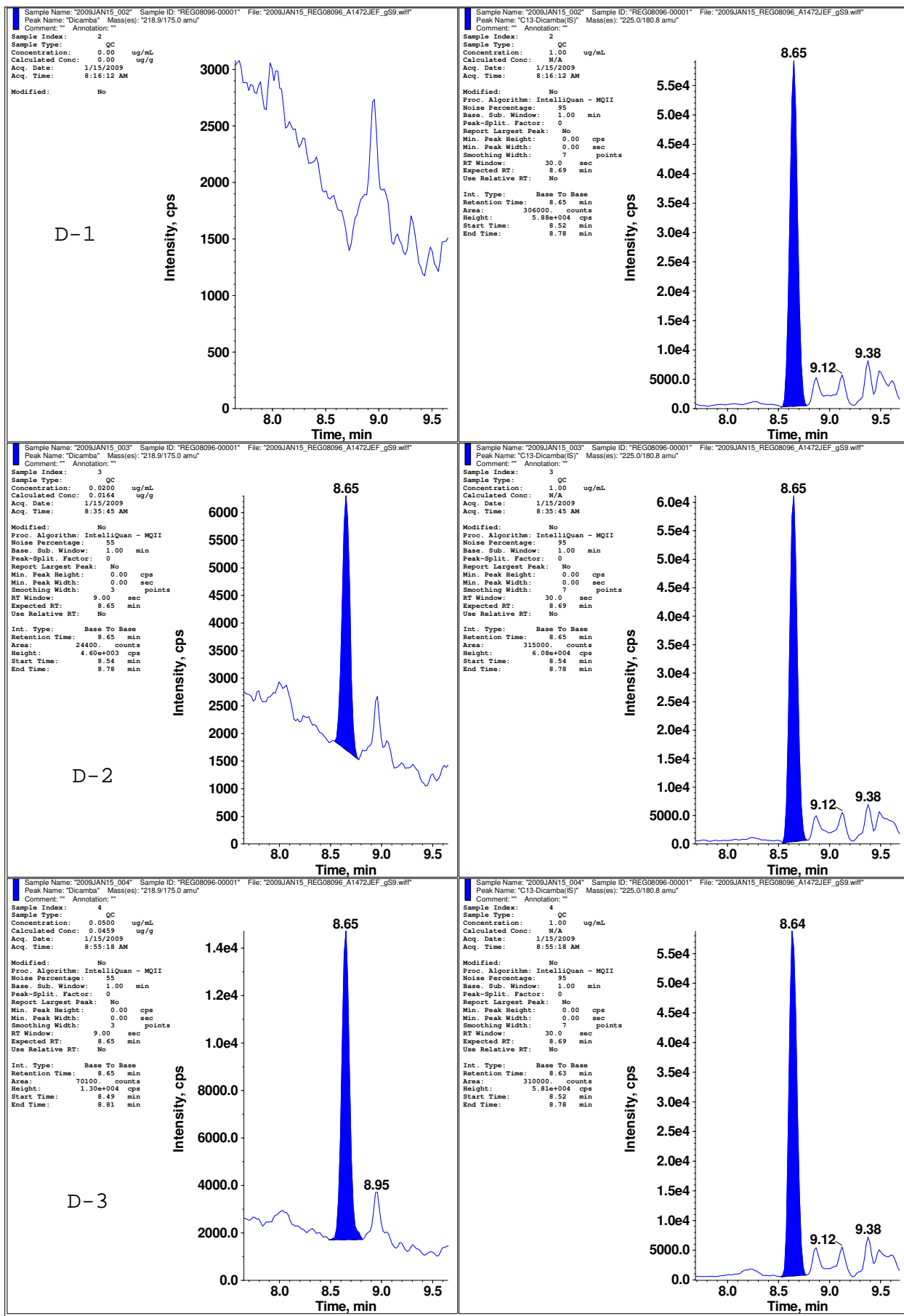
Key to Identification of Processed Fraction Sample Chromatograms

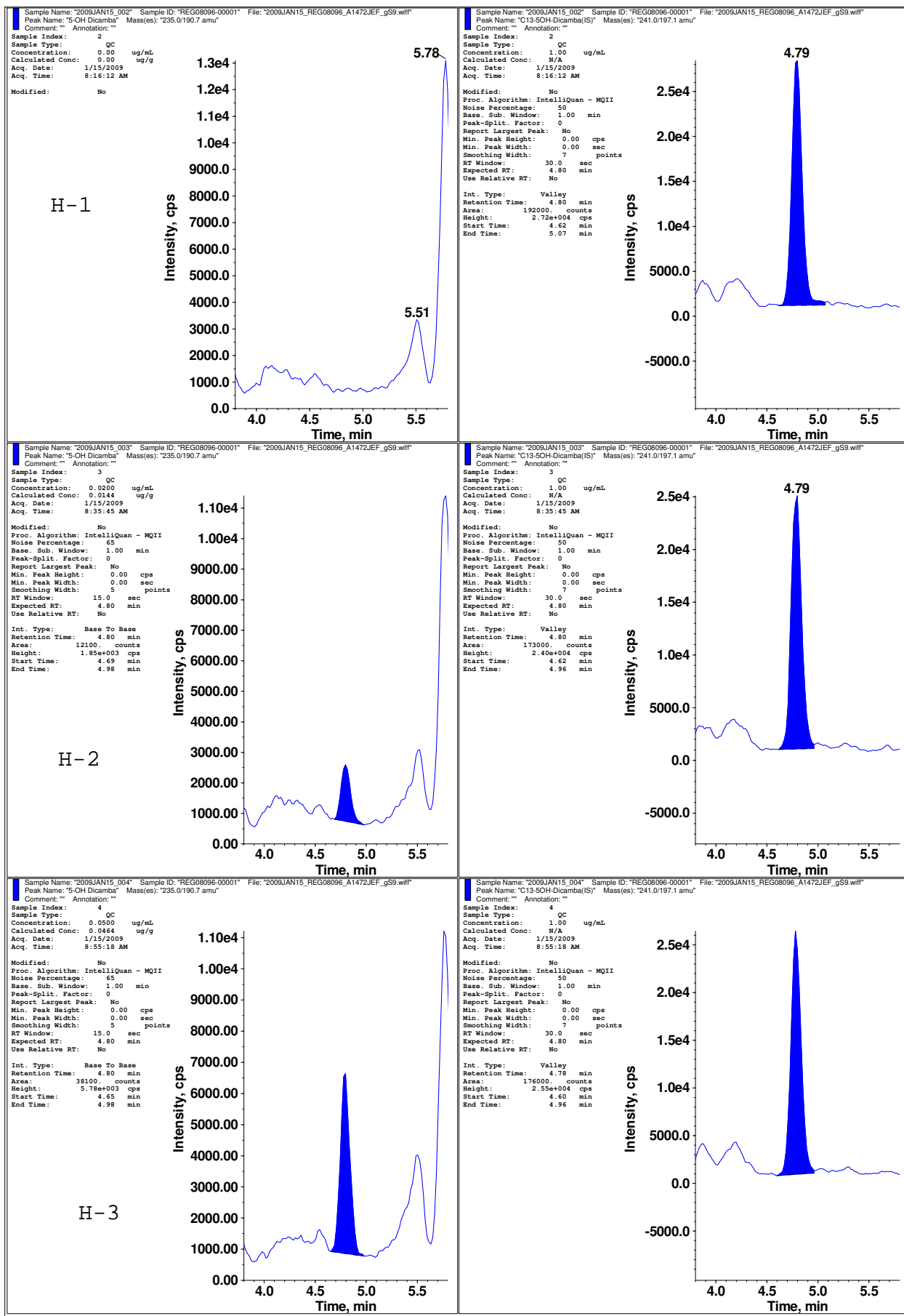
Figure Number(s)	Type	Sample Name	Sample ID (Location, Treatment, RIMS ID, matrix)
S-93/G-93/D-93/H-93	C	2009JAN20_002	WI-1 Trt 1 REG08096-00726 processed seed control
S-94/G-94/D-94/H-94	C	2009JAN20_003	WI-1 Trt 1 REG08096-00726 processed seed control
S-95/G-95/D-95/H-95	F	2009JAN20_004	WI-1 Trt 1 REG08096-00726 proc. seed 0.01 ppm fortified
S-96/G-96/D-96/H-96	F	2009JAN20_005	WI-1 Trt 1 REG08096-00726 proc. seed 5.0 ppm fortified
S-97/G-97/D-97/H-97	C	2009JAN29_011	WI-1 Trt 1 REG08096-00727 hulls control
S-98/G-98/D-98/H-98	C	2009JAN29_012	WI-1 Trt 1 REG08096-00727 hulls control
S-99/G-99/D-99/H-99	F	2009JAN29_014	WI-1 Trt 1 REG08096-00727 hulls 0.02 ppm fort.
S-100/G-100/D-100/H-100	F	2009JAN29_015	WI-1 Trt 1 REG08096-00727 hulls 0.05 ppm fort.
S-101/G-101/D-101/H-101	C	2009FEB16_023	WI-1 Trt 1 REG08096-00695 toasted meal control
S-102/G-102/D-102/H-102	C	2009FEB16_024	WI-1 Trt 1 REG08096-00695 toasted meal control
S-103/G-103/D-103/H-103	F	2009FEB16_026	WI-1 Trt 1 REG08096-00695 toasted meal 0.01 ppm fortified
S-104/G-104/D-104/H-104	F	2009FEB16_026	WI-1 Trt 1 REG08096-00695 toasted meal 0.40 ppm fortified
S-105/G-105/D-105/H-105	C	2009JAN26_002	WI-1 Trt 1 REG08096-00733 degummed oil control
S-106/G-106/D-106/H-106	C	2009JAN26_003	WI-1 Trt 1 REG08096-00733 degummed oil control
S-107/G-107/D-107/H-107	F	2009JAN26_004	WI-1 Trt 1 REG08096-00733 degummed oil 0.01 ppm fortified
S-108/G-108/D-108/H-108	F	2009JAN26_005	WI-1 Trt 1 REG08096-00733 degummed oil 0.20 ppm fortified
S-109/G-109/D-109/H-109	C	2009JAN29B_002	WI-1 Trt 1 REG08096-00732 crude lecithin control
S-110/G-110/D-110/H-110	C	2009JAN29B_003	WI-1 Trt 1 REG08096-00732 crude lecithin control
S-111/G-111/D-111/H-111	F	2009JAN29B_004	WI-1 Trt 1 REG08096-00732 crude lecithin 0.01 ppm fortified
S-112/G-112/D-112/H-112	F	2009JAN29B_005	WI-1 Trt 1 REG08096-00732 crude lecithin 0.20 ppm fortified
S-113/G-113/D-113/H-113	C	2009FEB19_026	NE-1 Trt 1 REG08096-00696 defatted flour control
S-114/G-114/D-114/H-114	C	2009FEB19_027	NE-1 Trt 1 REG08096-00696 defatted flour control
S-115/G-115/D-115/H-115	F	2009FEB19_029	NE-1 Trt 1 REG08096-00696 defatted flour 0.01 ppm fortified
S-116/G-116/D-116/H-116	F	2009FEB19_030	NE-1 Trt 1 REG08096-00696 defatted flour 0.40 ppm fortified

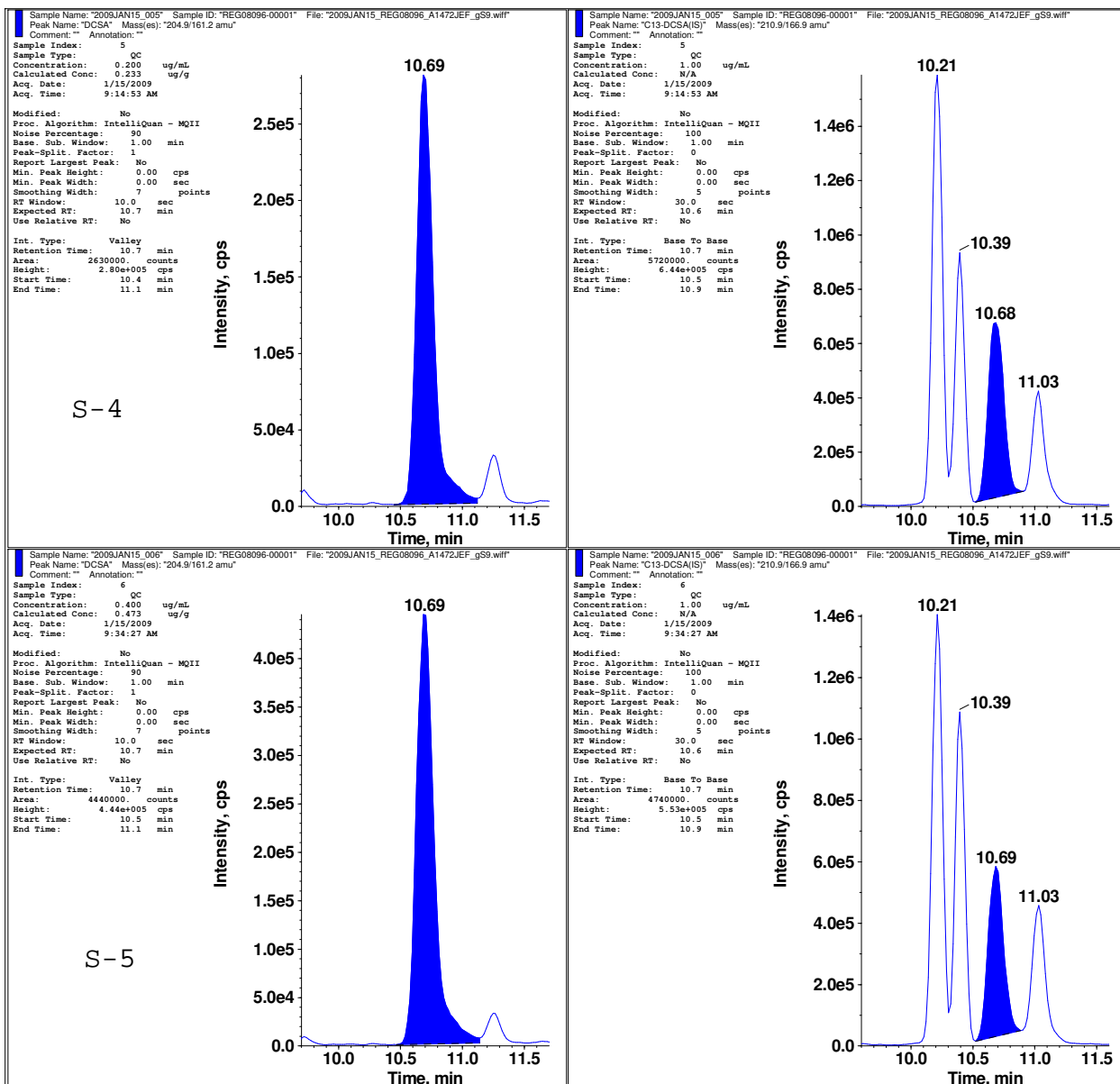
Figure Number(s)	Type	Sample Name	Sample ID (Location, Treatment, RIMS ID, matrix)
S-117/G-117/D-117/H-117	C	2009JAN21_021	WI-1 Trt 1 REG08096-00730 protein isolate control
S-118/G-118/D-118/H-118	C	2009JAN21_022	WI-1 Trt 1 REG08096-00730 protein isolate control
S-119/G-119/D-119/H-119	F	2009JAN21_023	WI-1 Trt 1 REG08096-00730 protein isolate 0.01 ppm fortified
S-120/G-120/D-120/H-120	F	2009JAN21_023	WI-1 Trt 1 REG08096-00730 protein isolate 0.01 ppm fortified
S-121/G-121/D-121/H-121	C	2009JAN29_028	WI-1 Trt 1 REG08096-00731 protein concentrate control
S-122/G-122/D-122/H-122	C	2009JAN29_029	WI-1 Trt 1 REG08096-00730 protein concentrate control
S-123/G-123/D-123/H-123	F	2009JAN29_030	WI-1 Trt 1 REG08096-00730 protein concentrate 1 ppm fortified
S-124/G-124/D-124/H-124	F	2009JAN29_032	WI-1 Trt 1 REG08096-00730 protein concentrate 0.05 ppm fortified
S-125/G-125/D-125/H-125	C	2009FEB10_011	WI-1 Trt 1 REG08096-00735 soymilk control
S-126/G-126/D-126/H-126	C	2009FEB10_012	WI-1 Trt 1 REG08096-00735 soymilk control
S-127/G-127/D-127/H-127	F	2009FEB10_014	WI-1 Trt 1 REG08096-00735 soymilk 0.01 ppm fortified
S-128/G-128/D-128/H-128	F	2009FEB10_015	WI-1 Trt 1 REG08096-00735 soymilk 0.20 ppm fortified
S-129/G-129/D-129/H-129	C	2009FEB25B_002	NE-1 Trt 1 REG08096-00703 tofu control
S-130/G-130/D-130/H-130	C	2009FEB25B_003	NE-1 Trt 1 REG08096-00703 tofu control
S-131/G-131/D-131/H-131	F	2009FEB25B_005	NE-1 Trt 1 REG08096-00703 tofu 0.01 ppm fortified
S-132/G-132/D-132/H-132	F	2009FEB25B_006	NE-1 Trt 1 REG08096-00703 tofu 0.2 ppm fortified

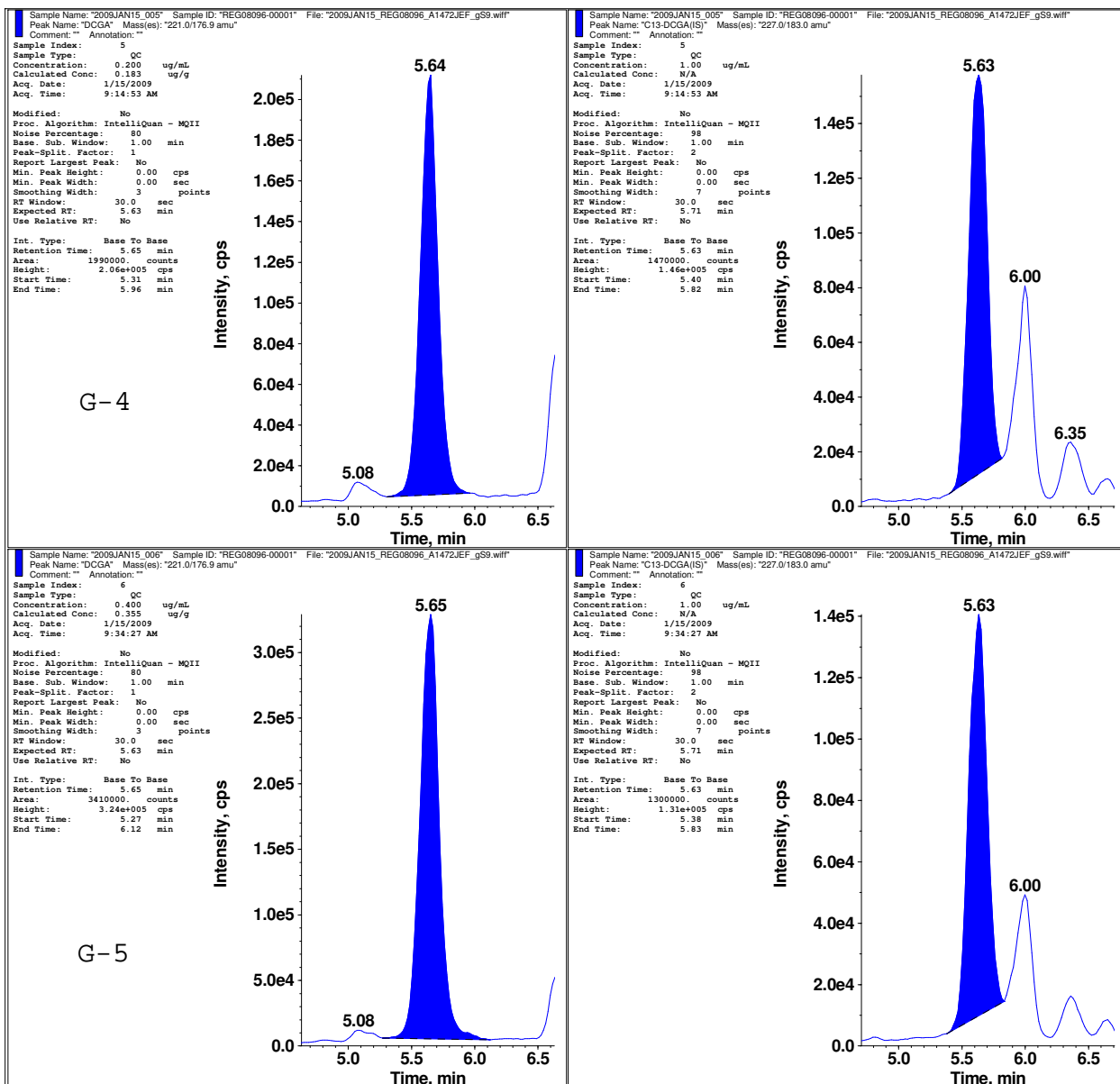


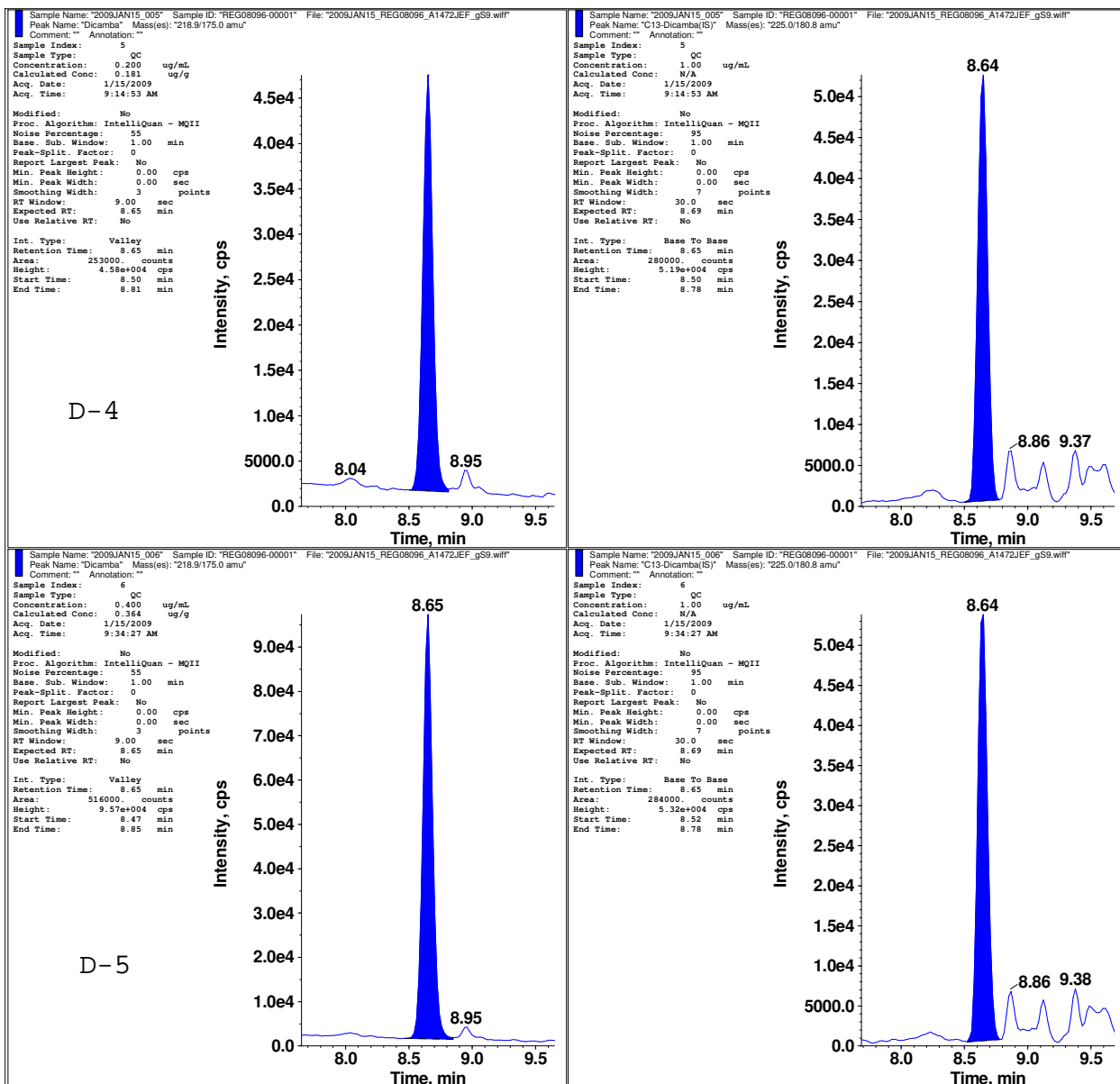


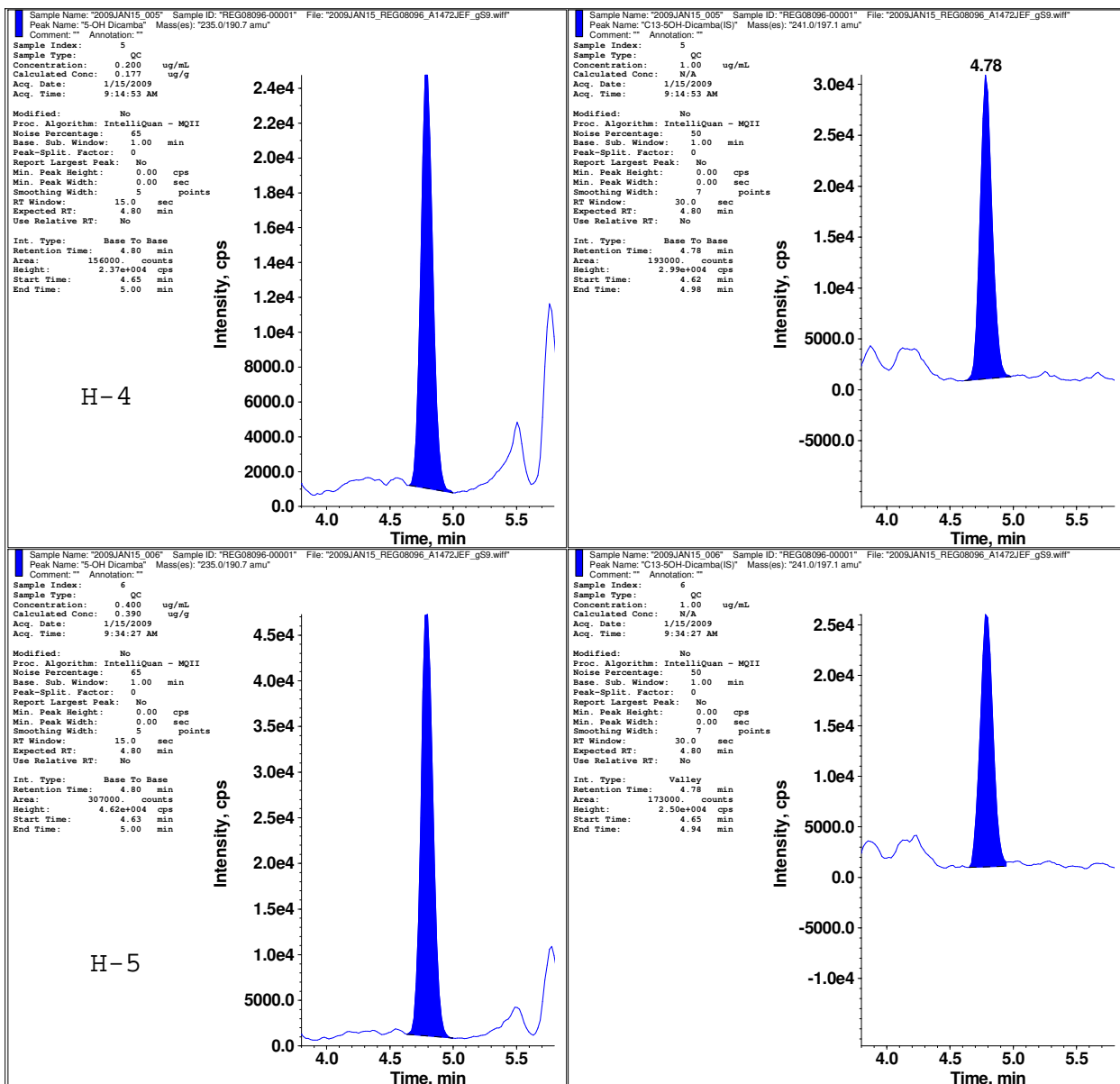


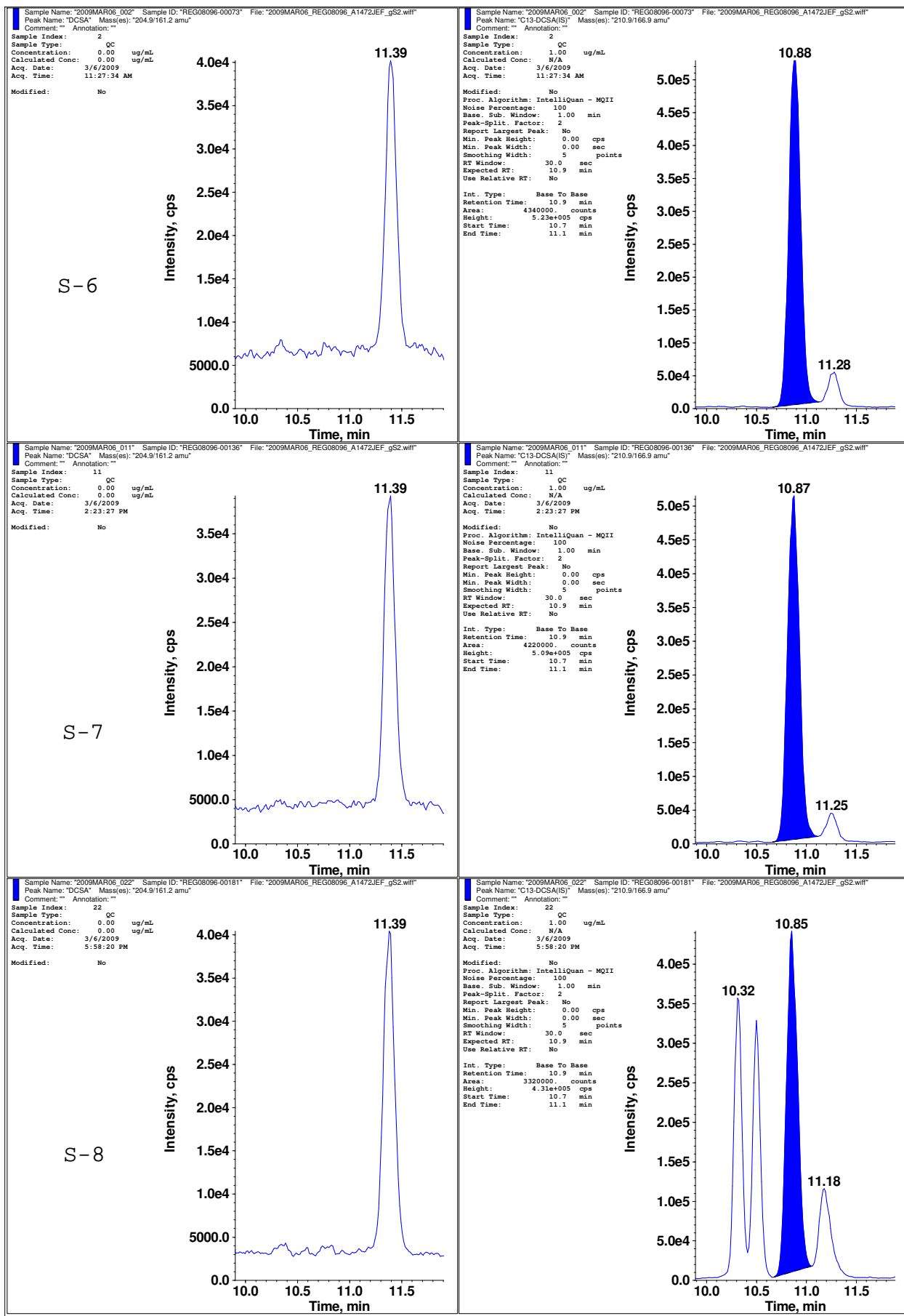


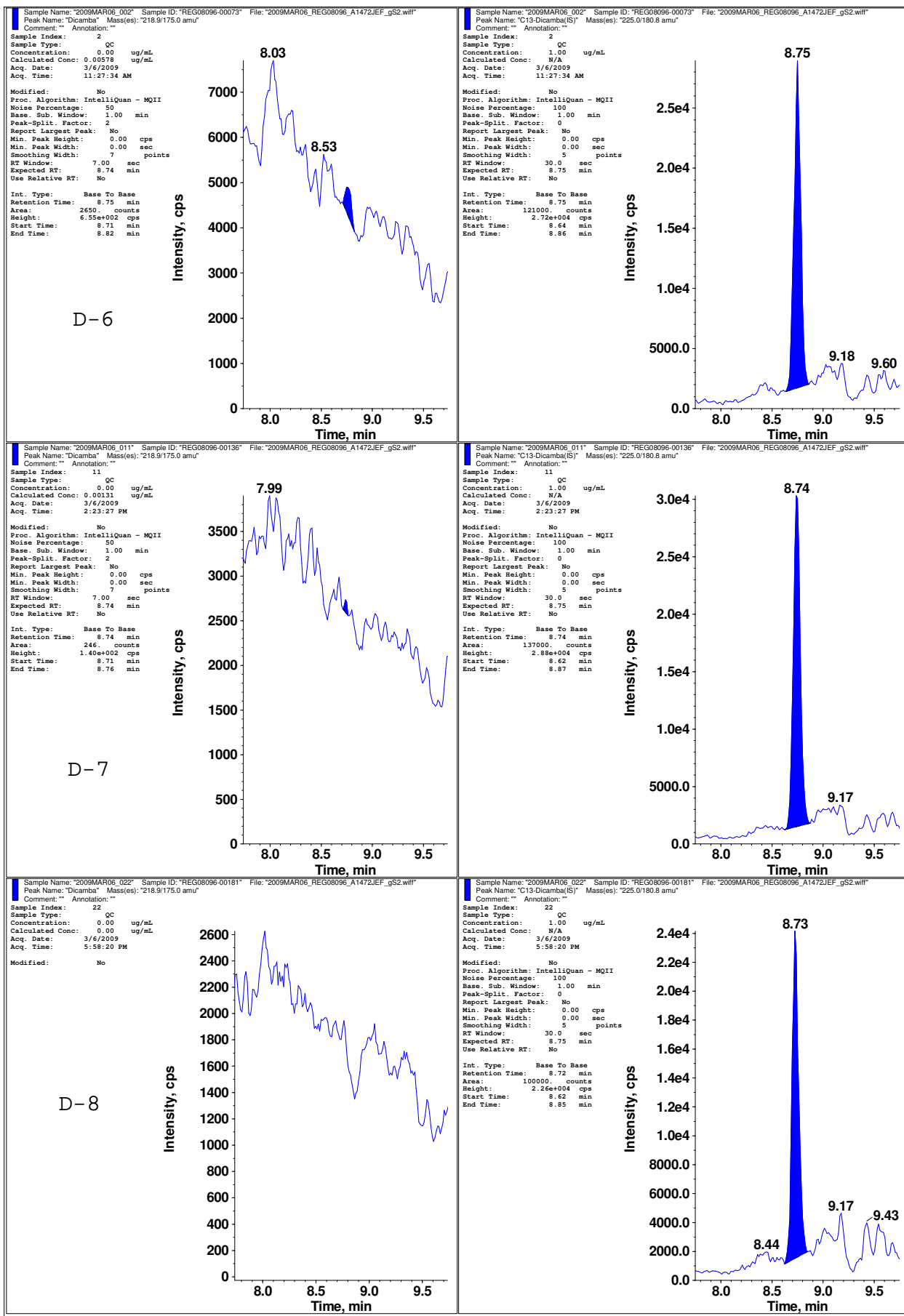


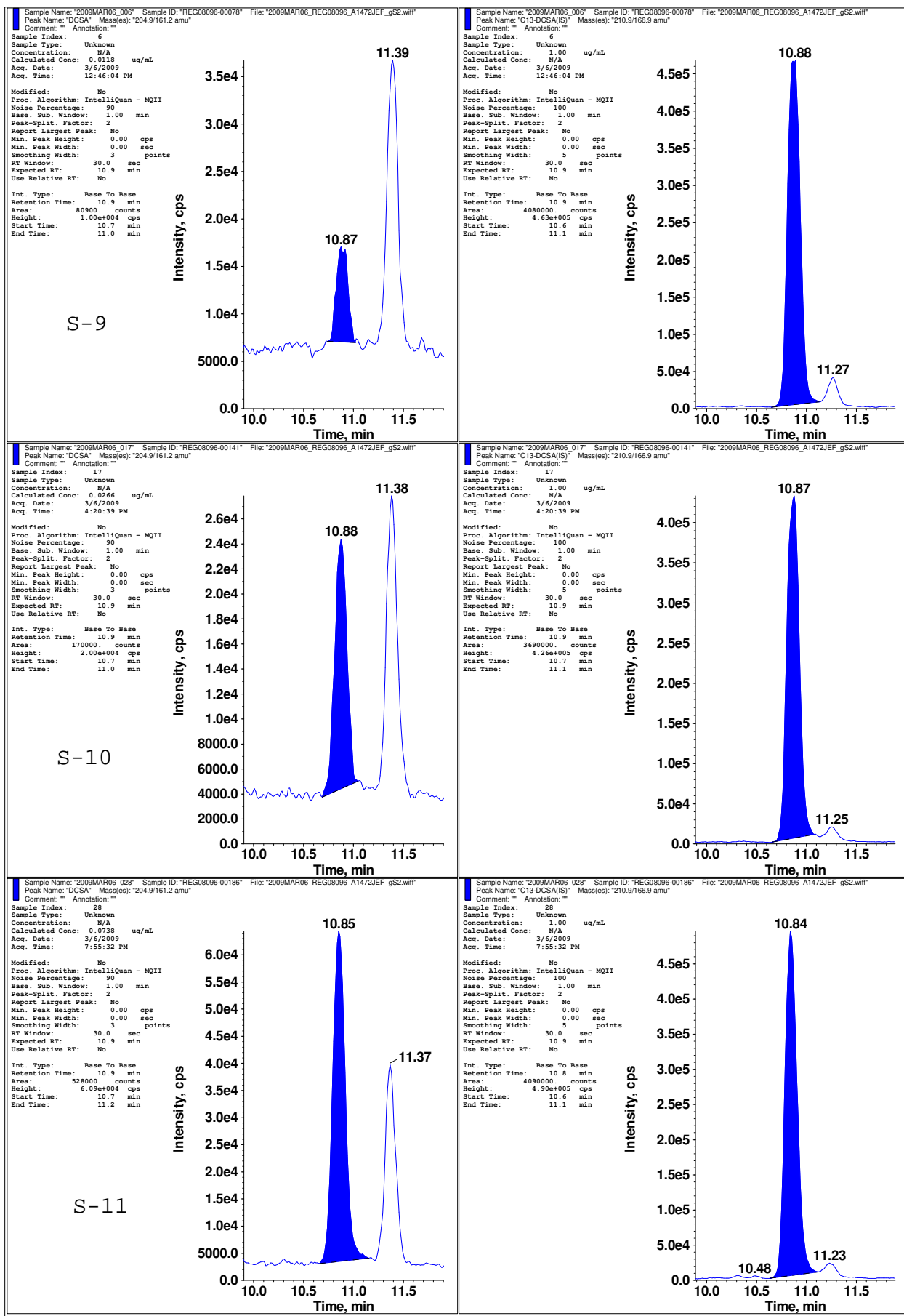


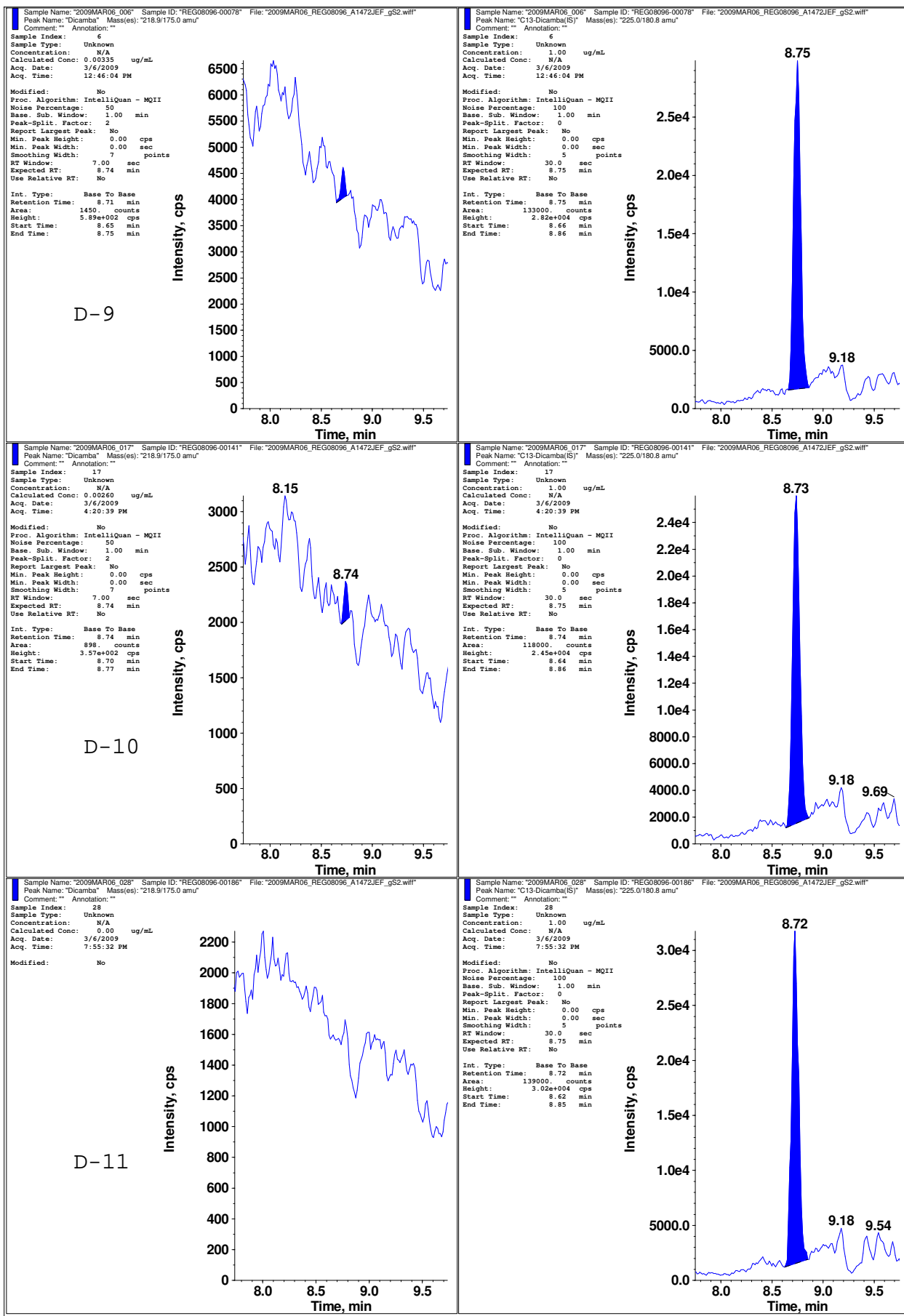


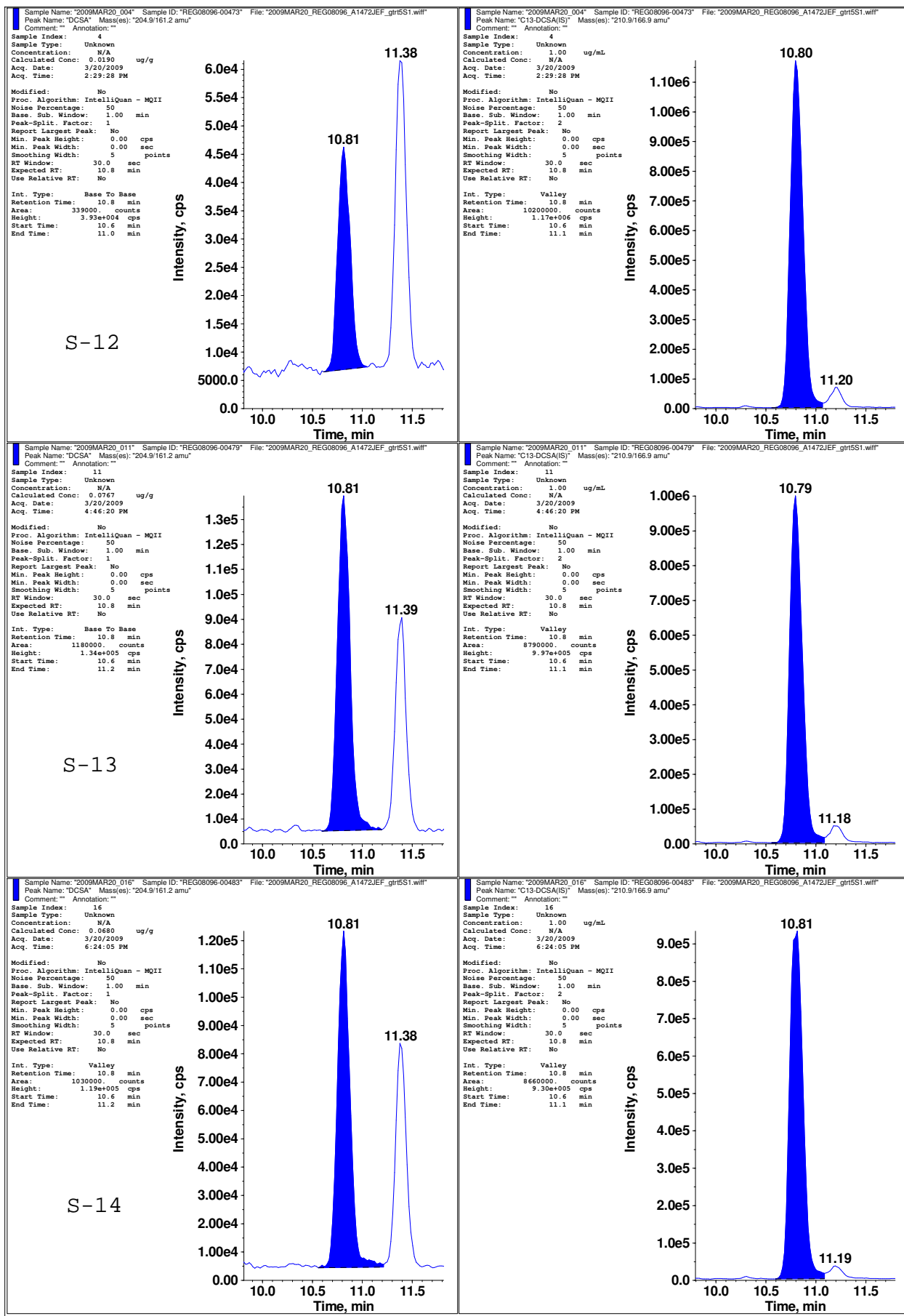


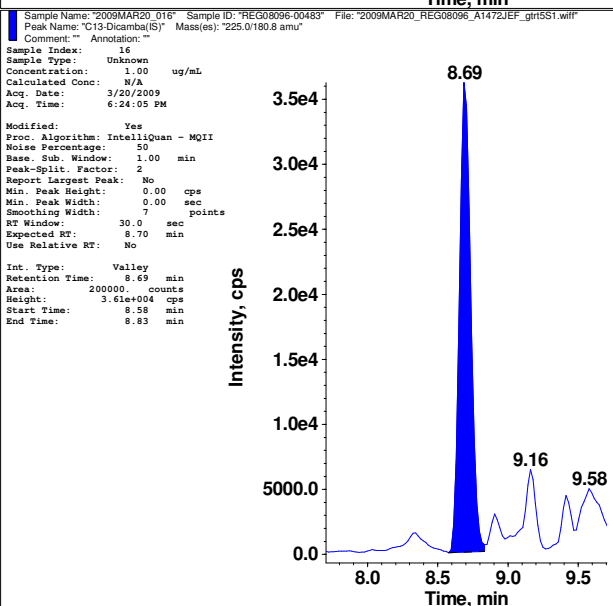
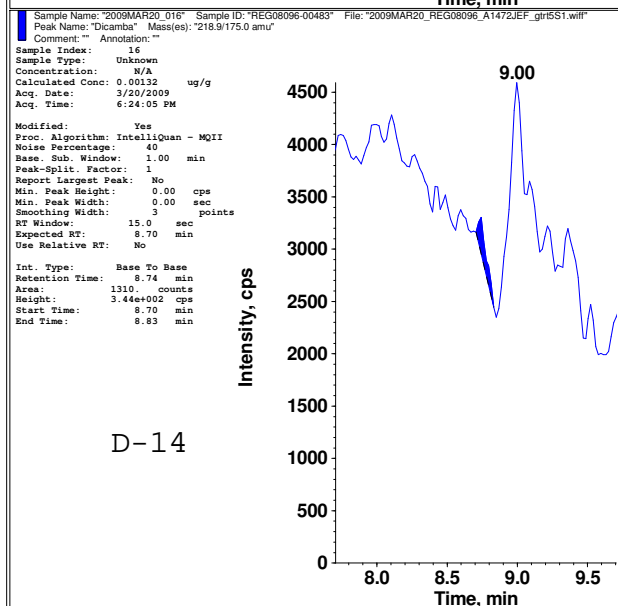
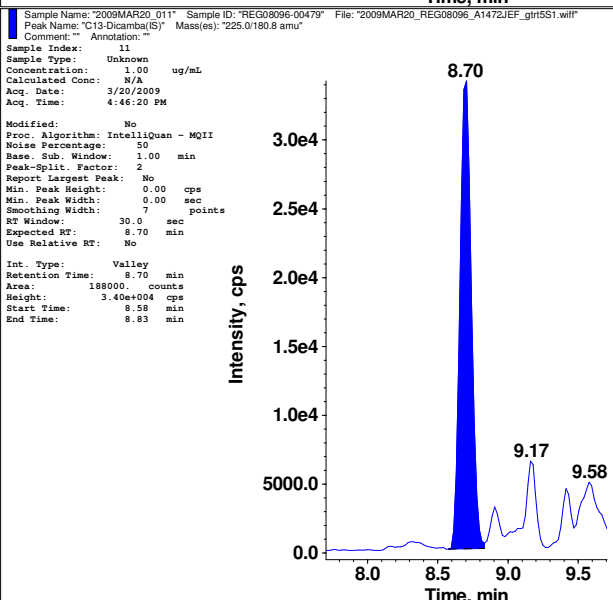
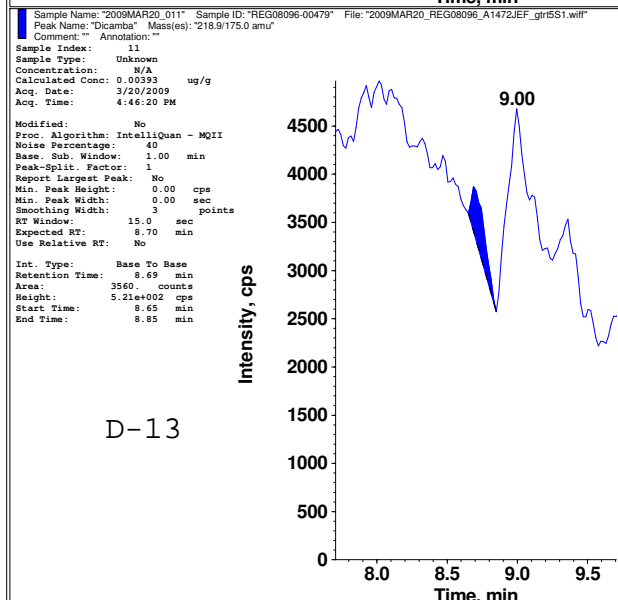
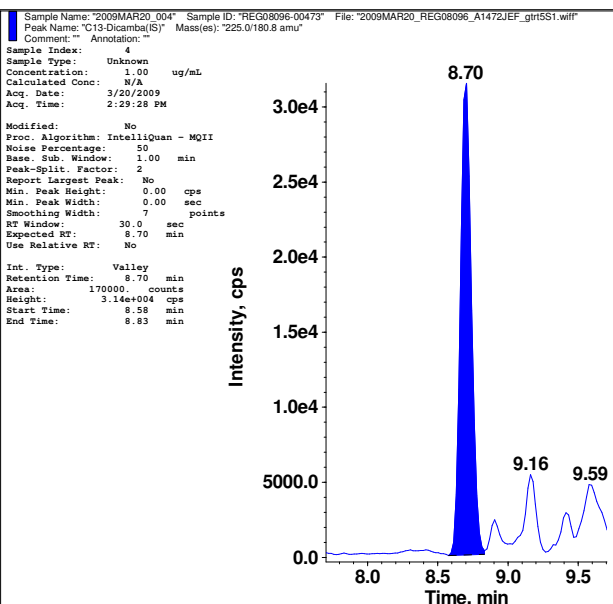
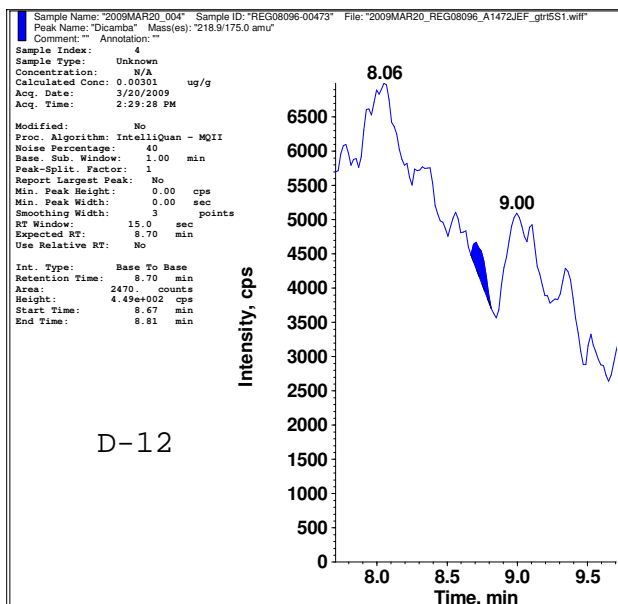


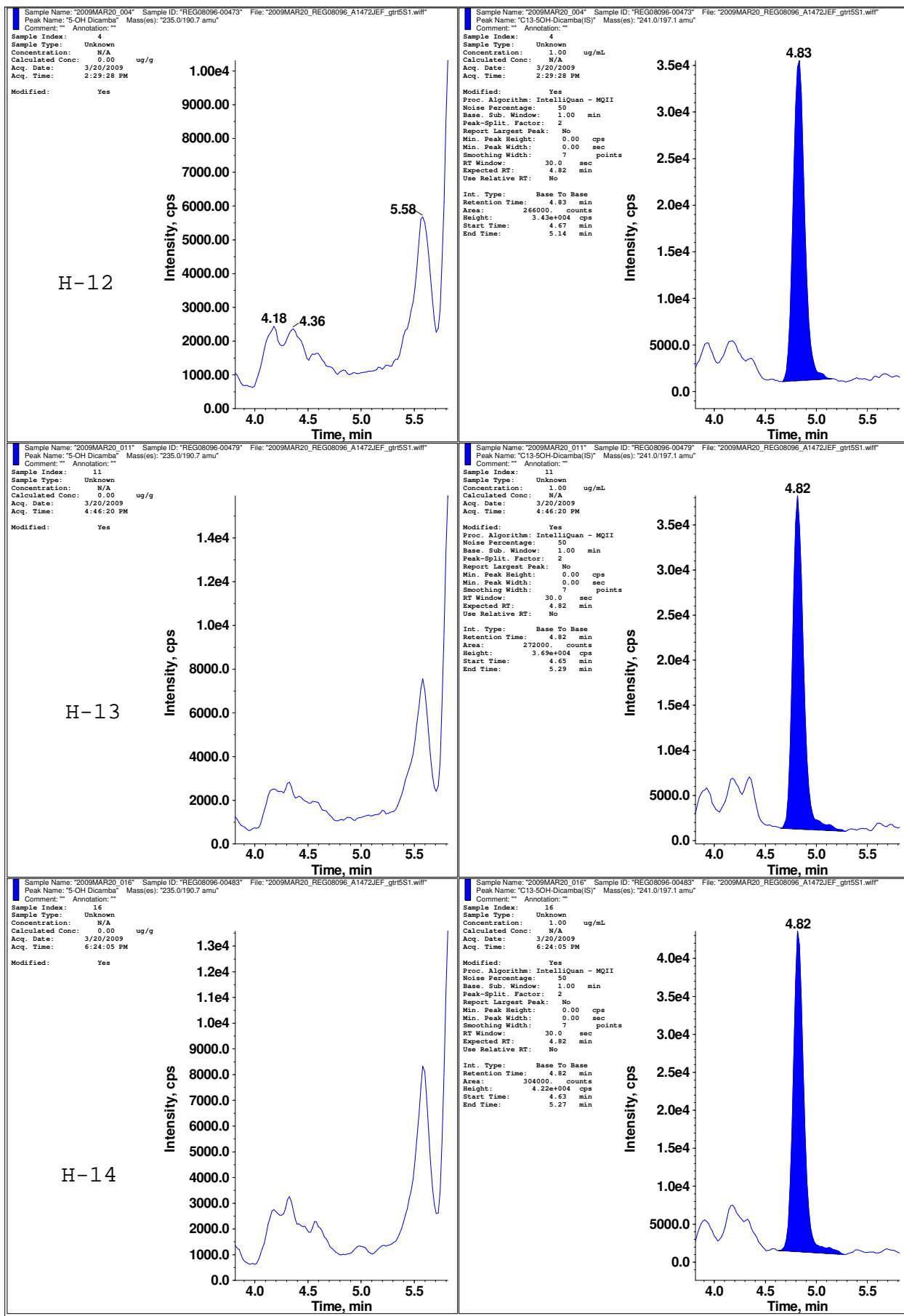


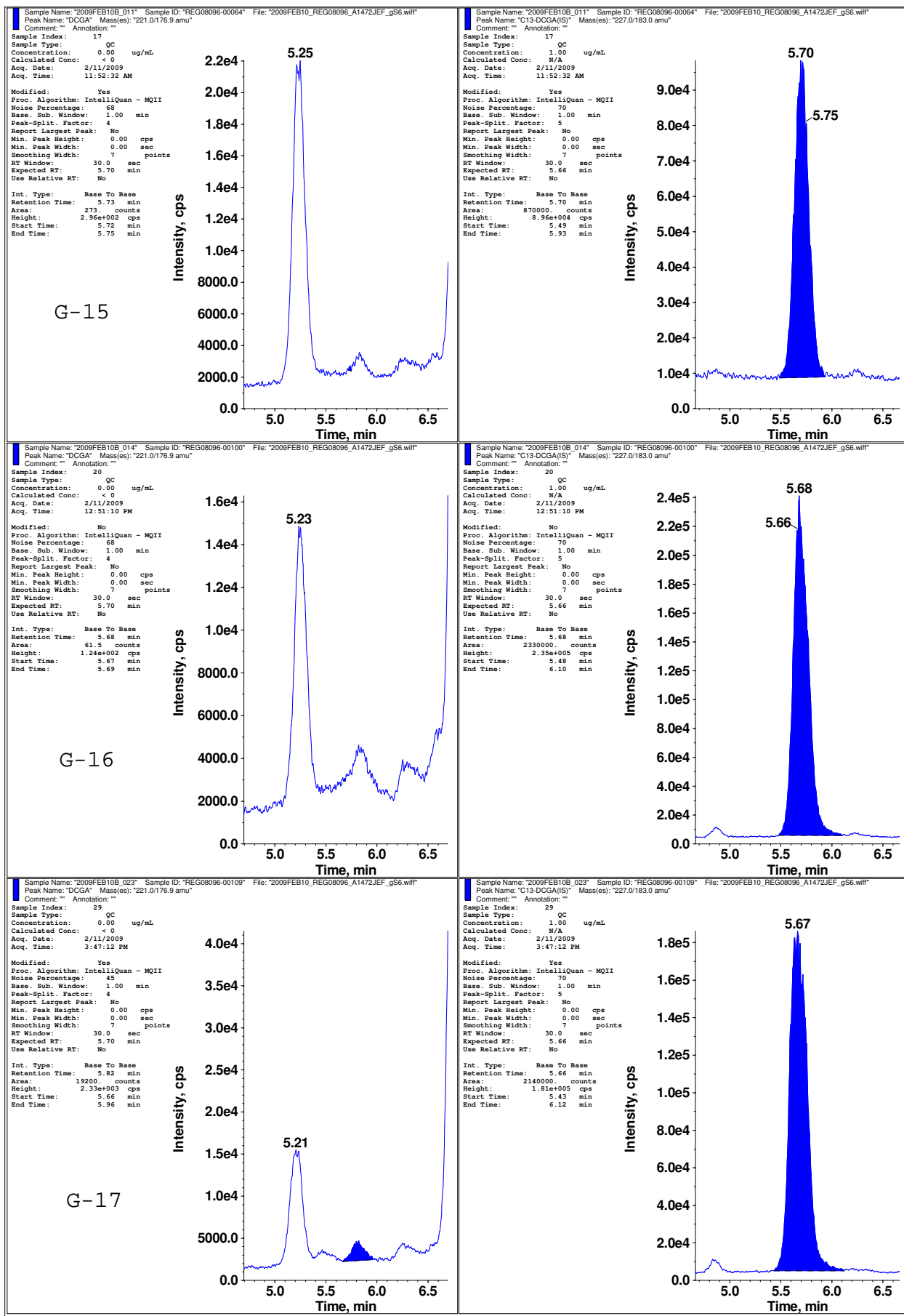


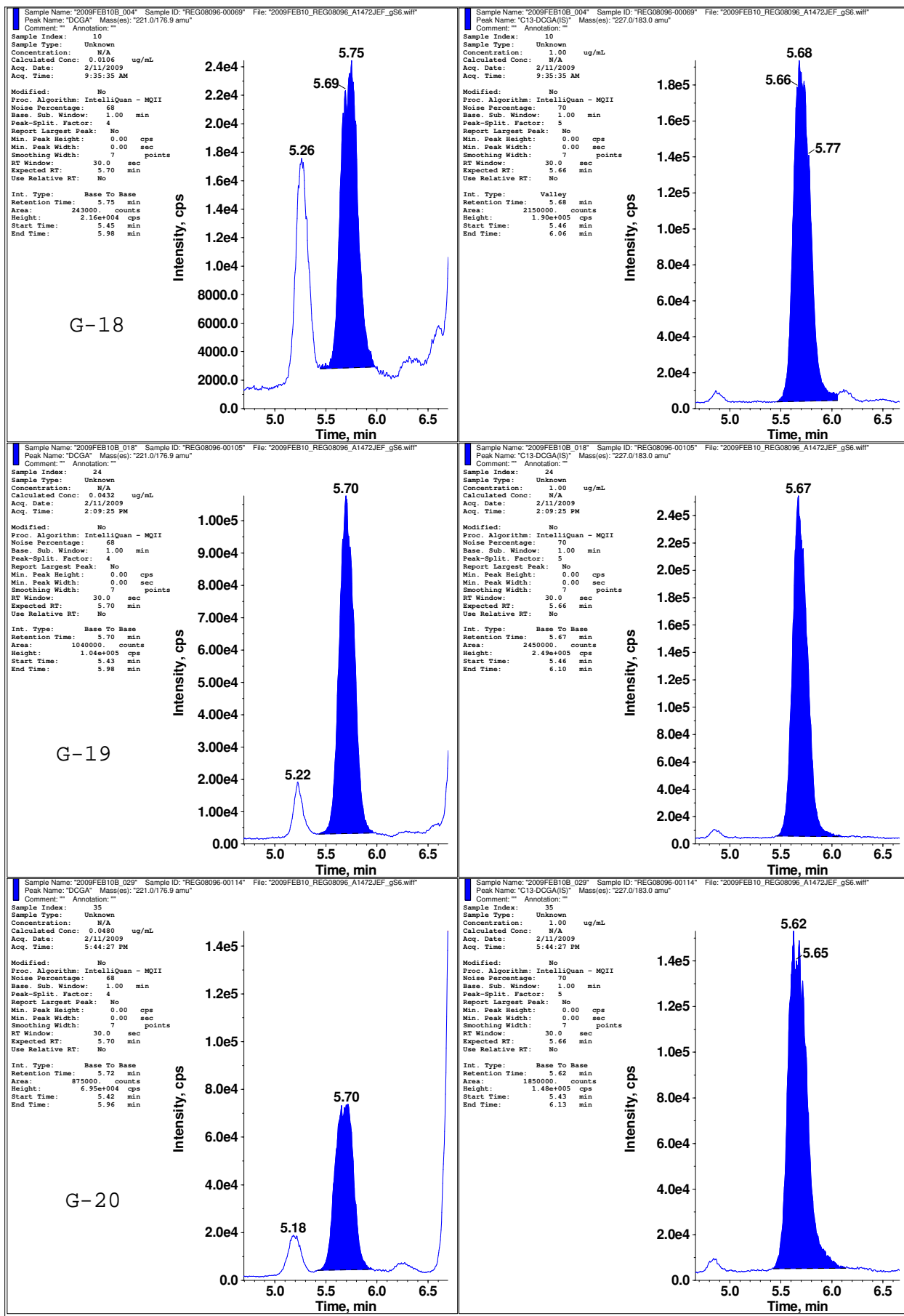


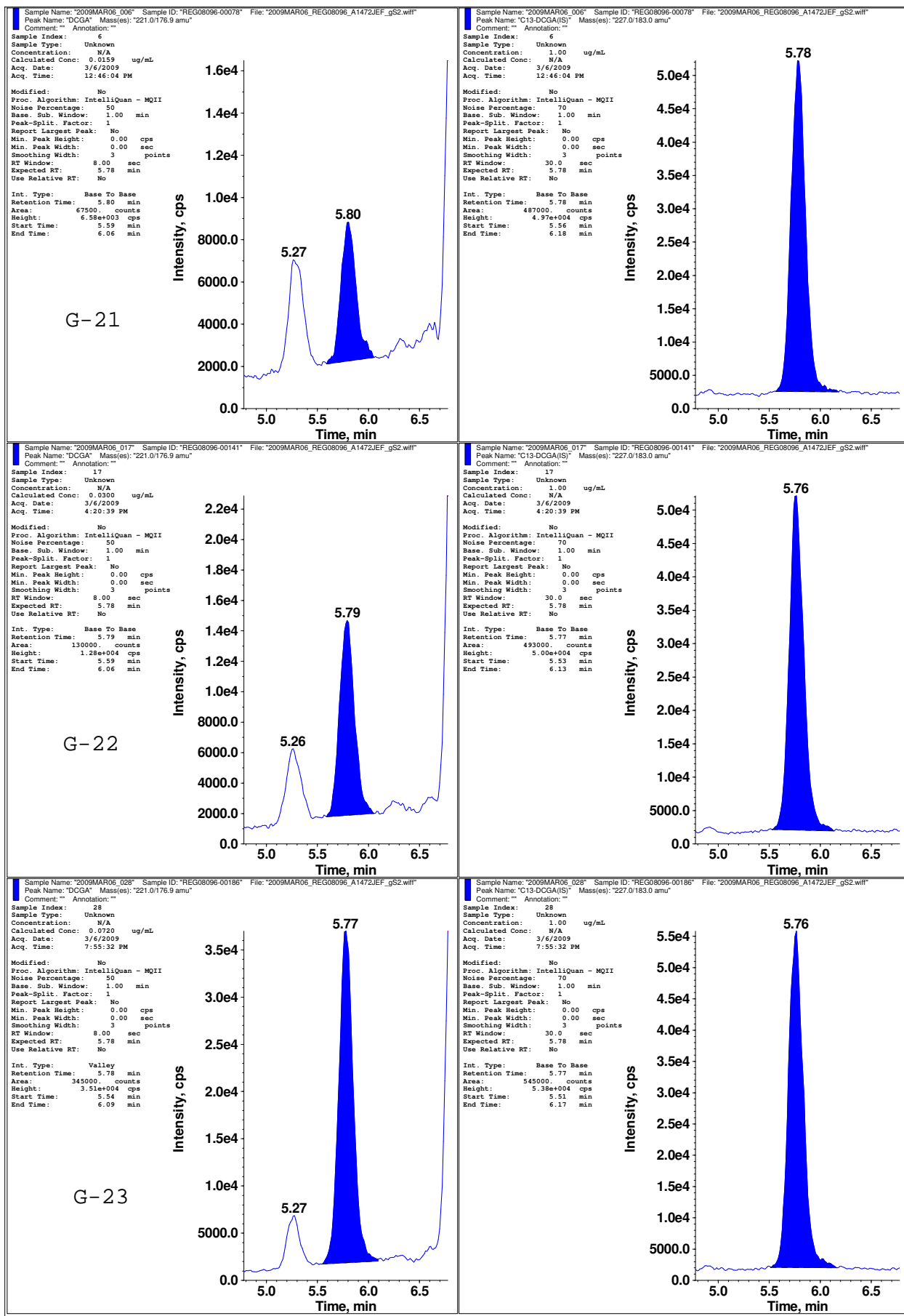


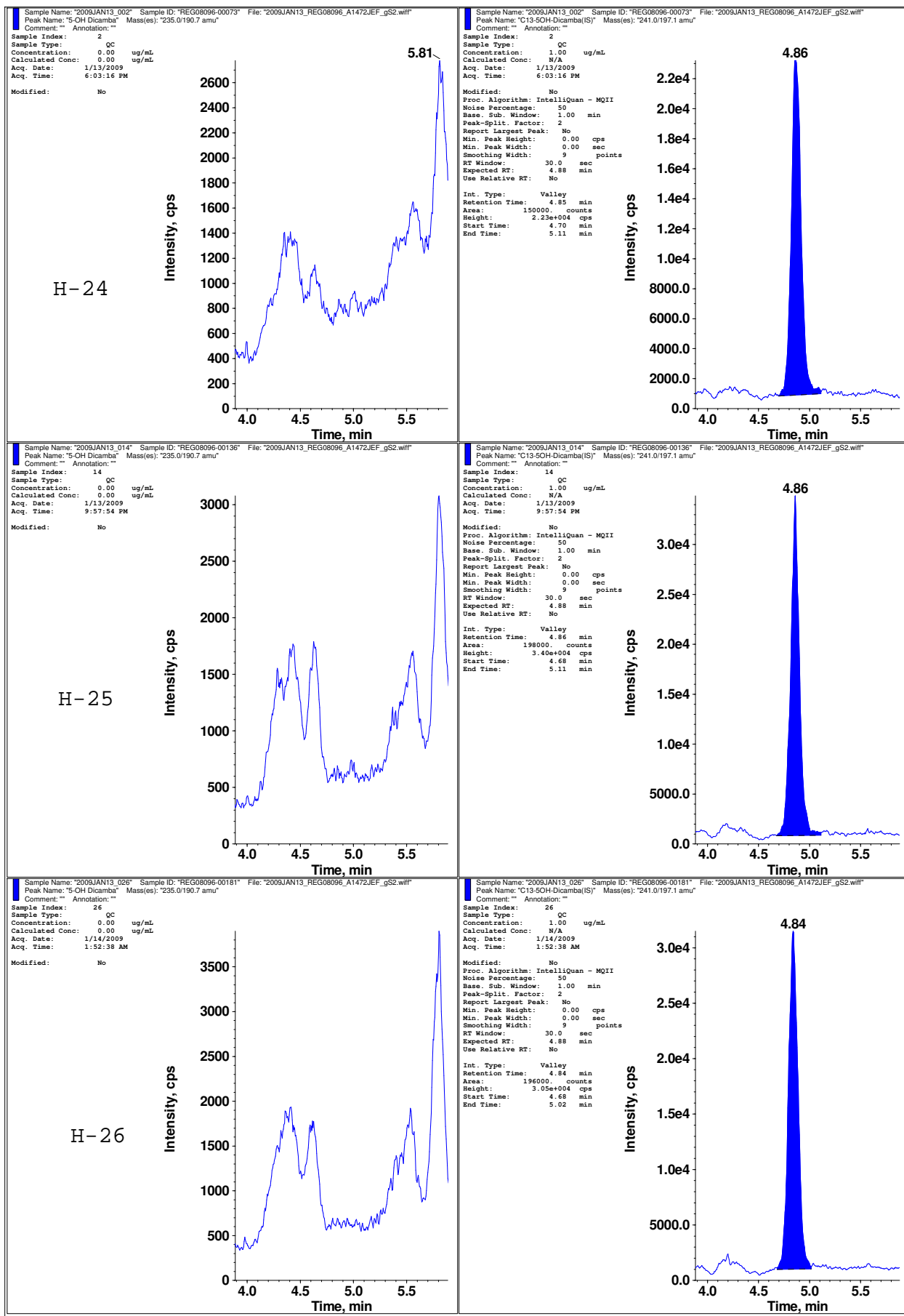


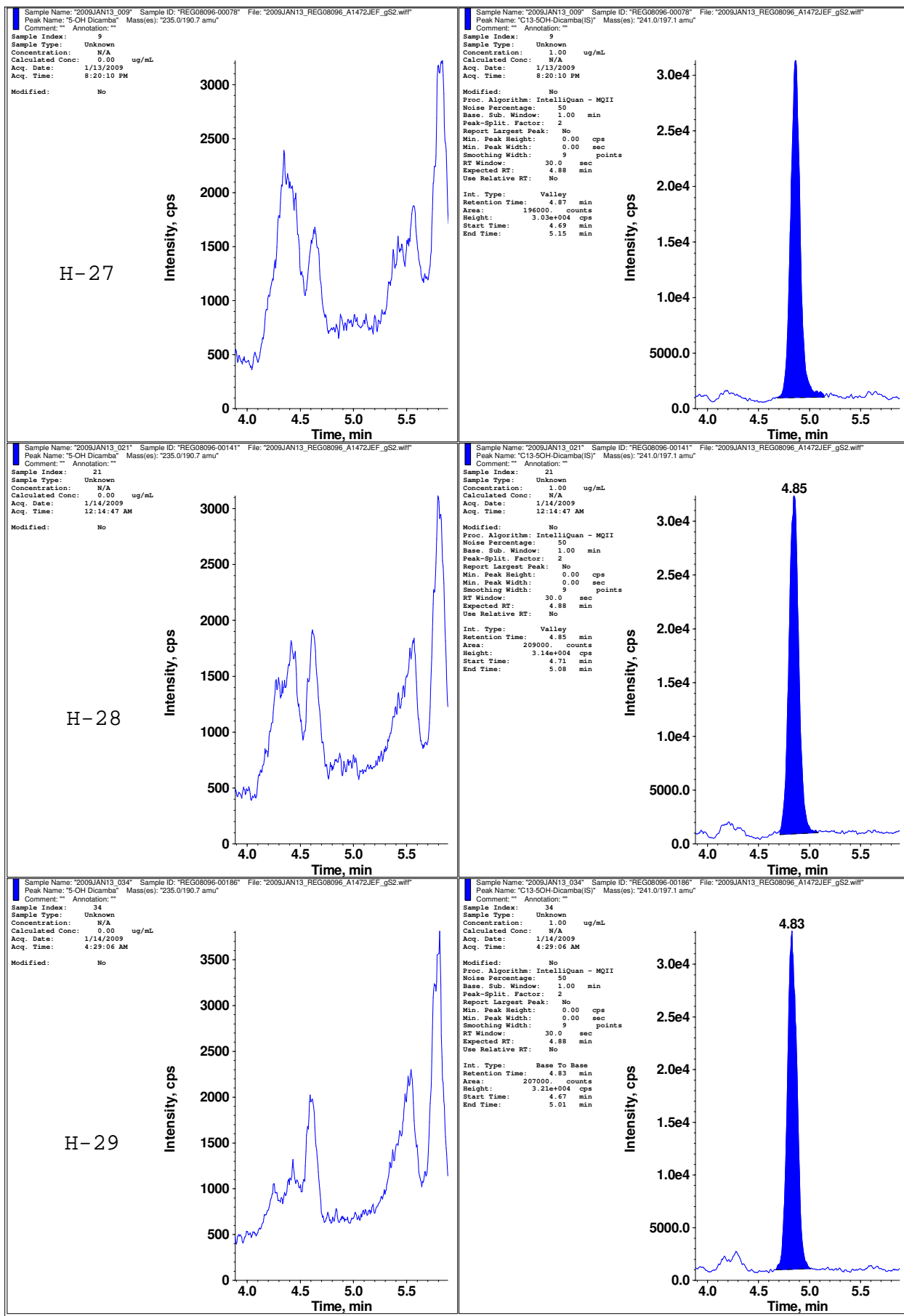


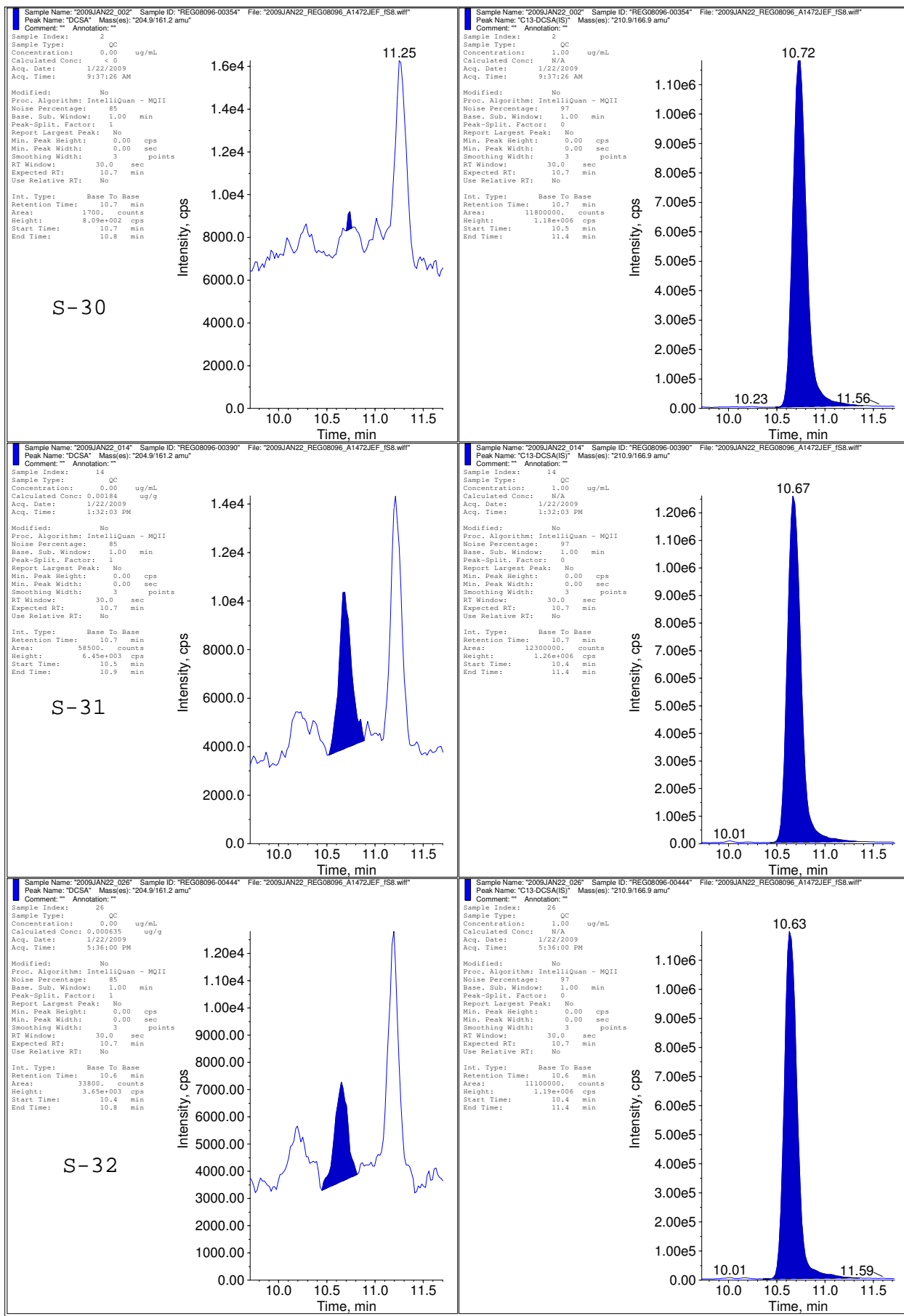


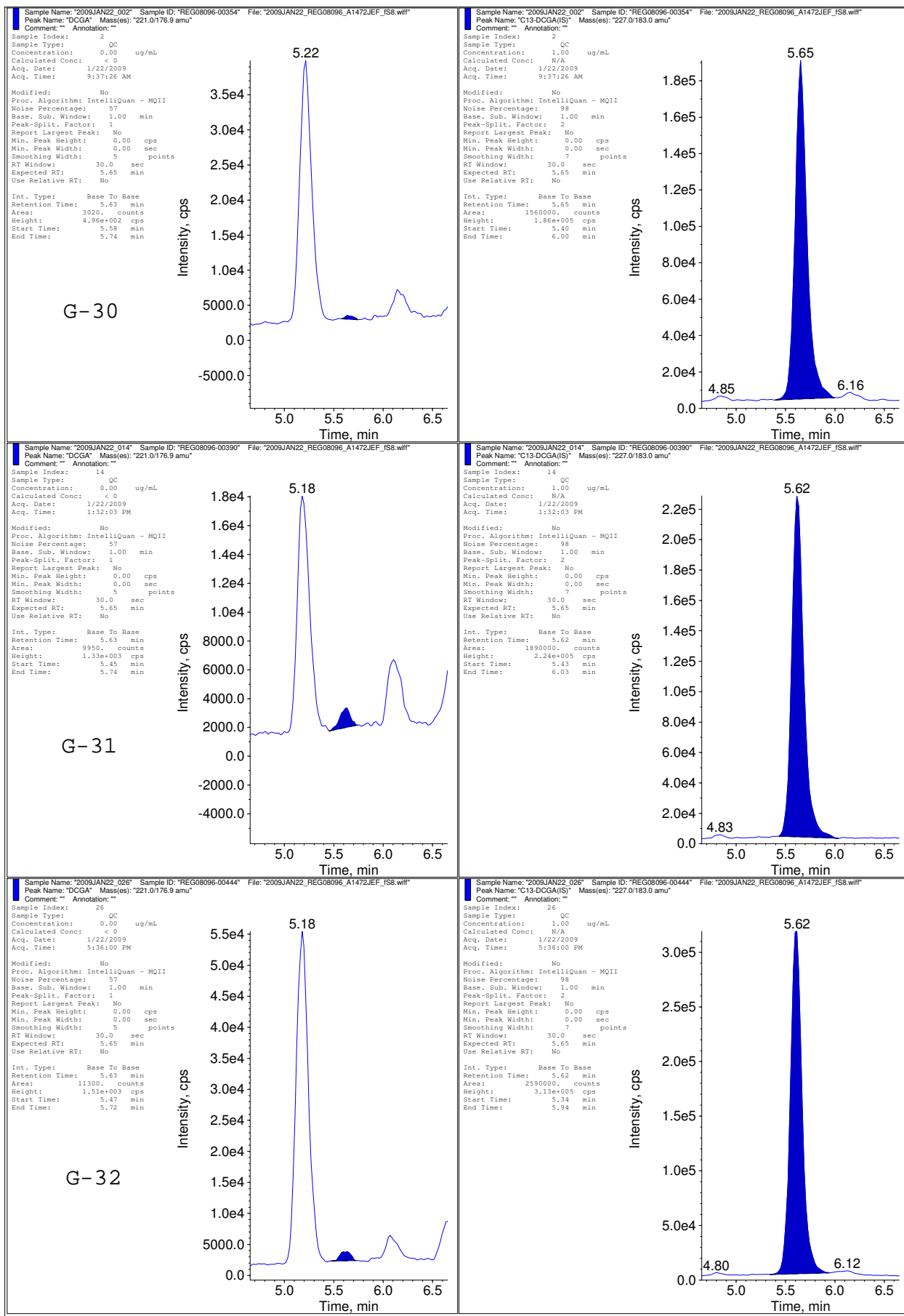


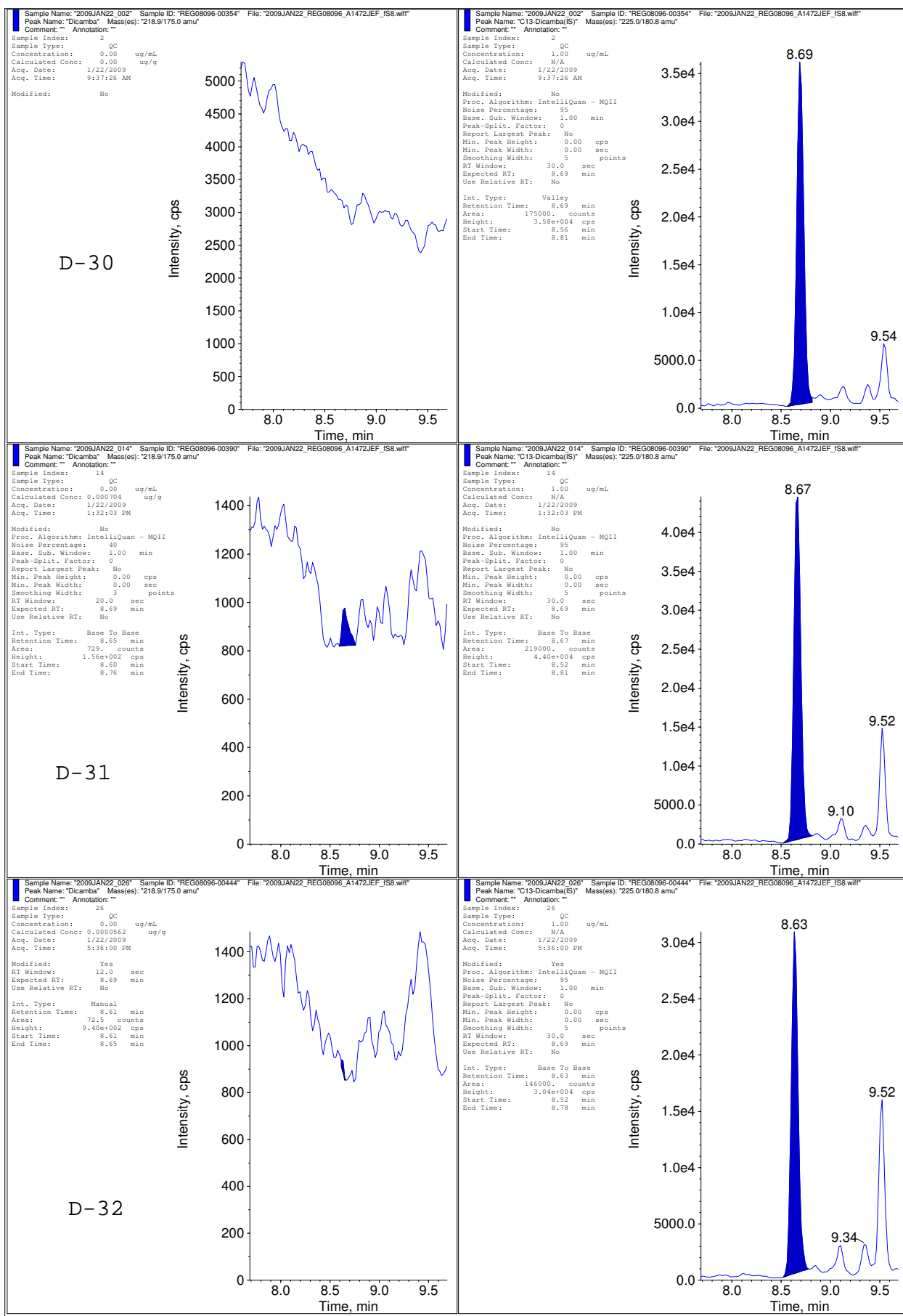


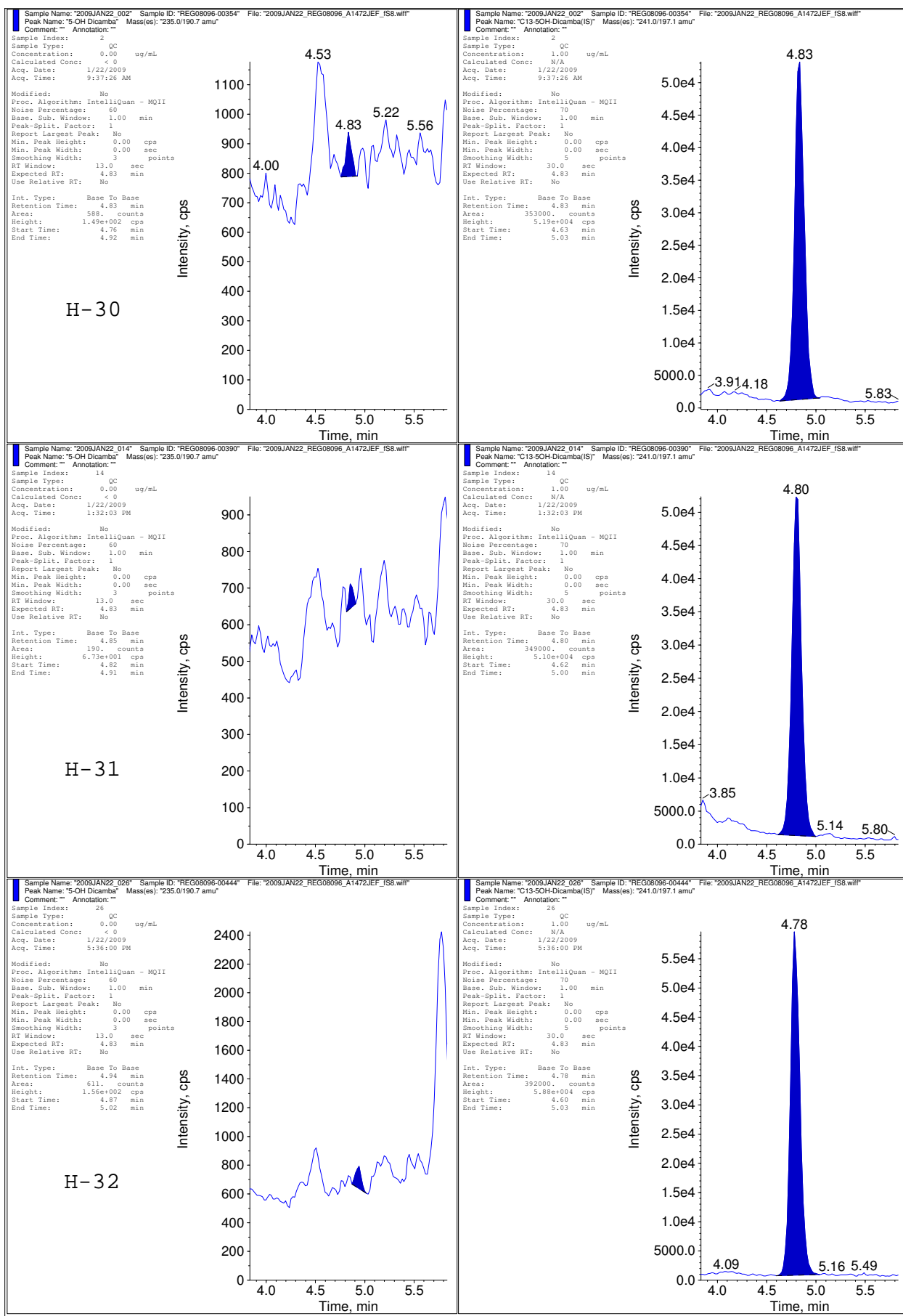


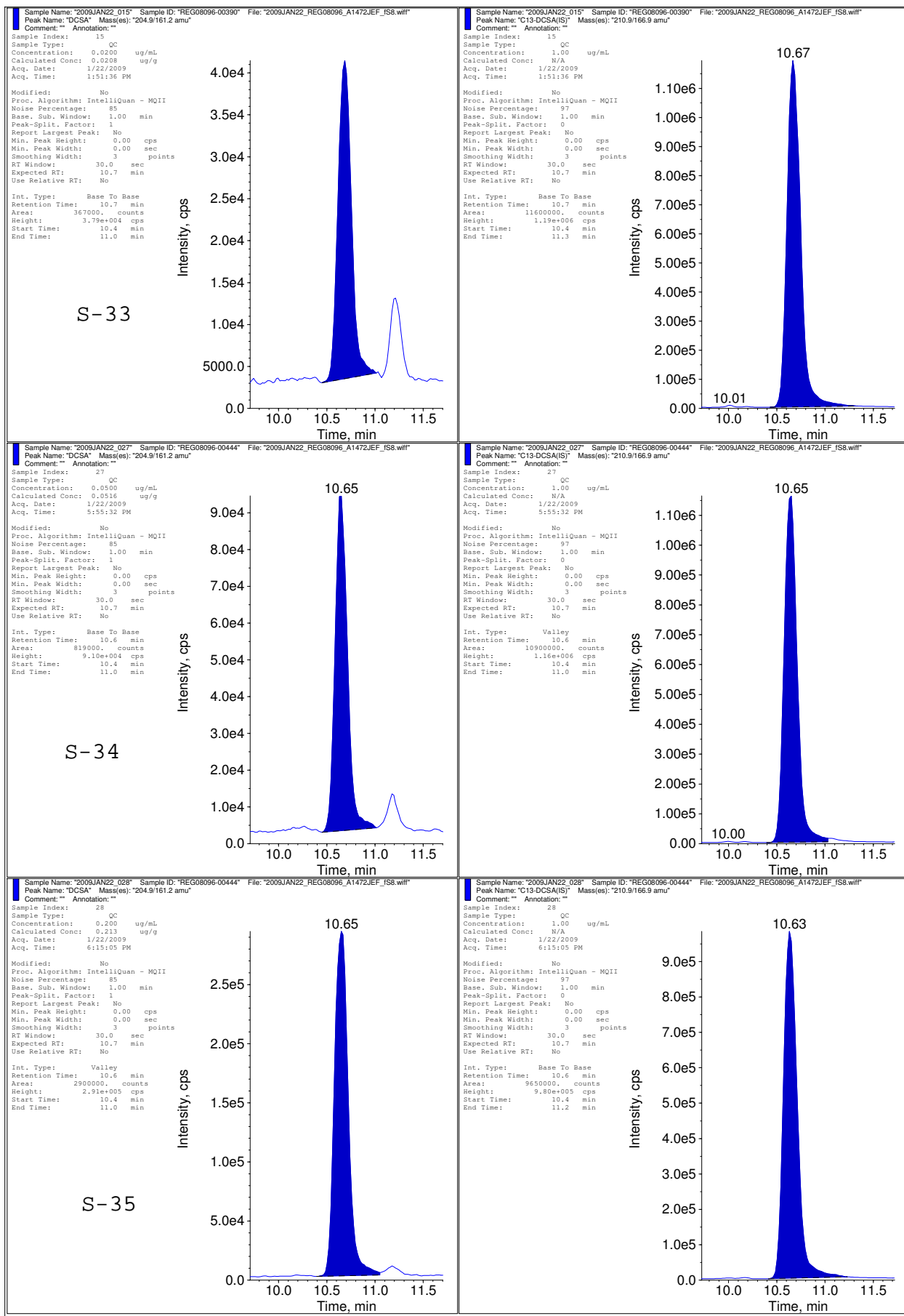


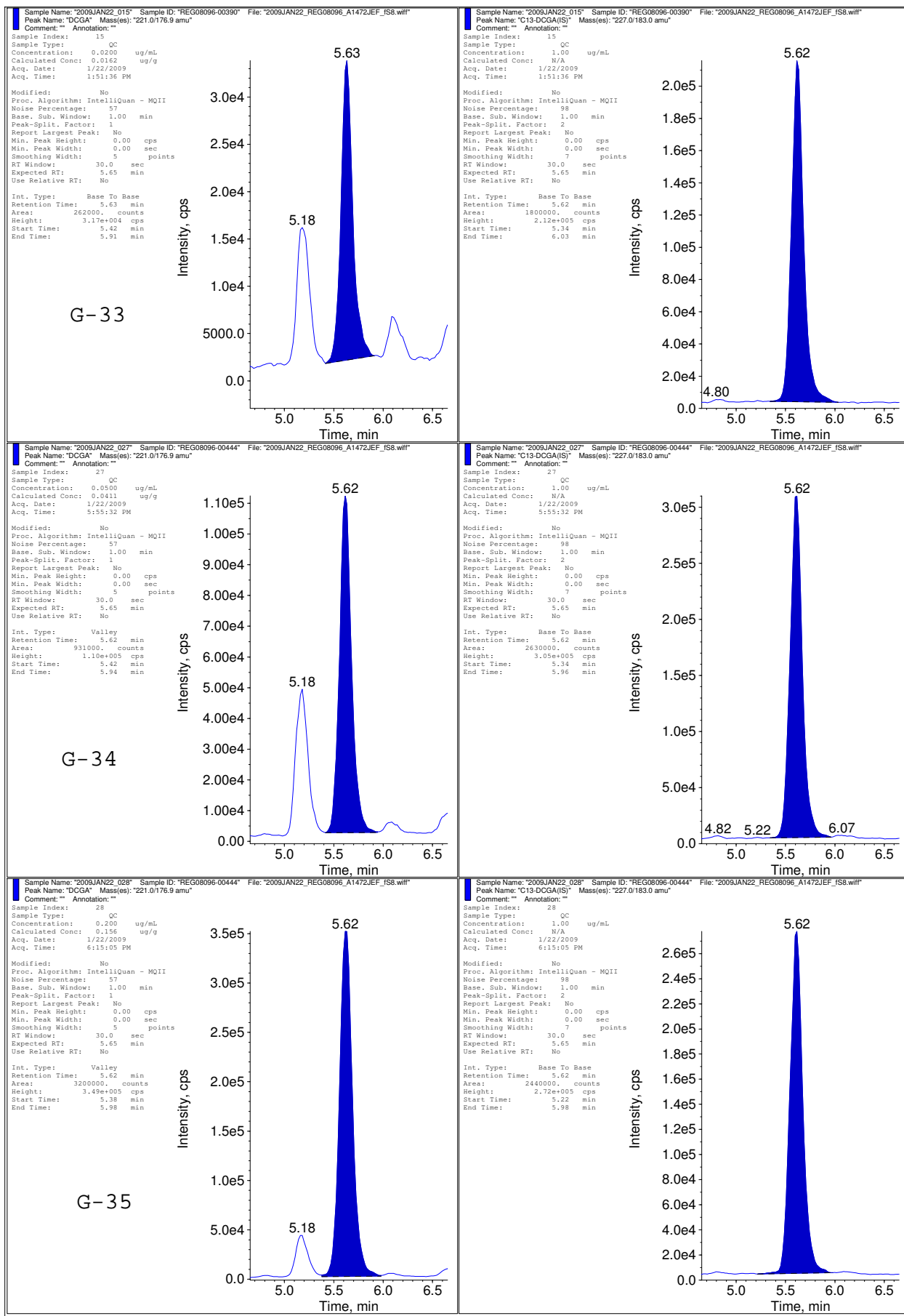


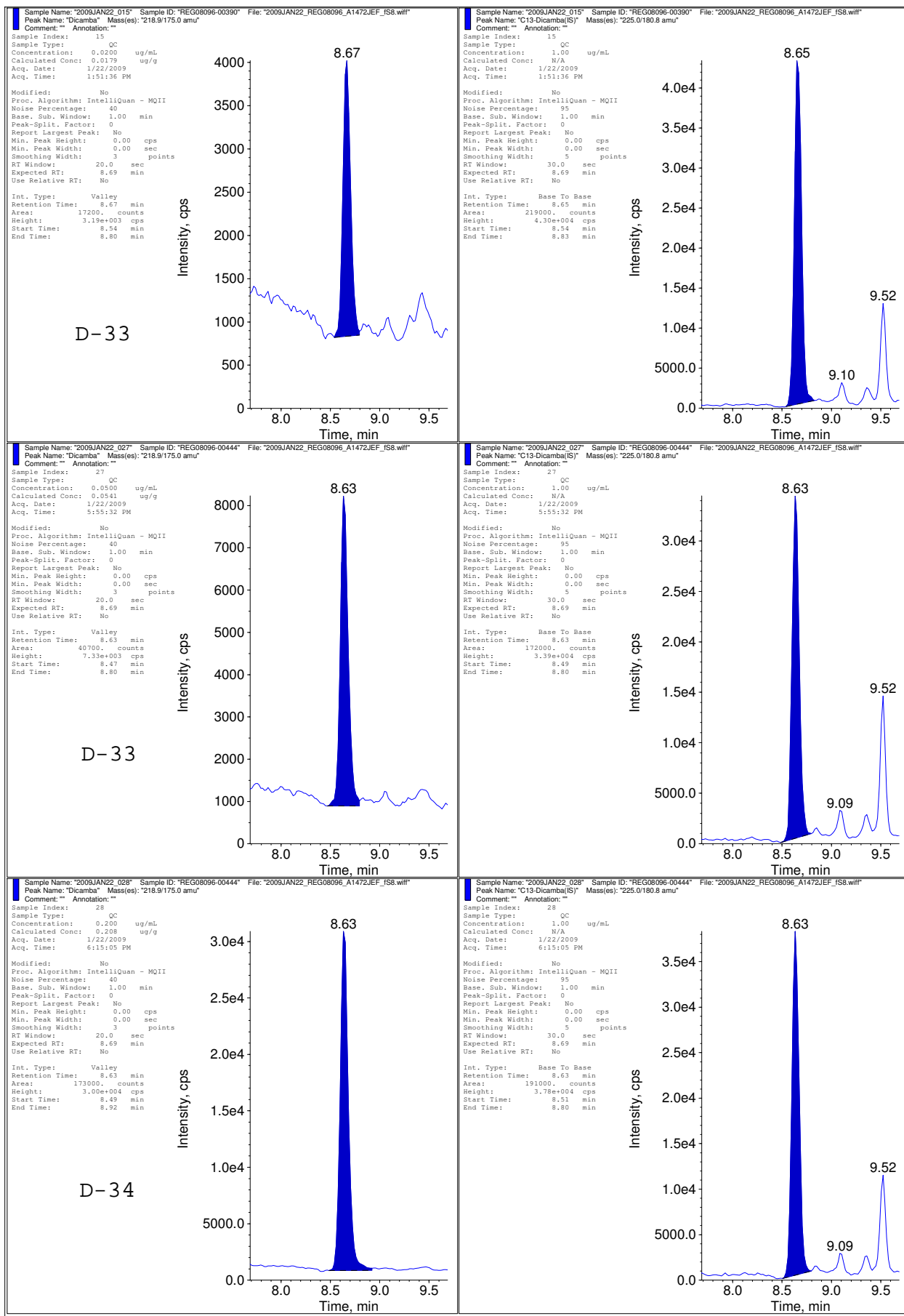


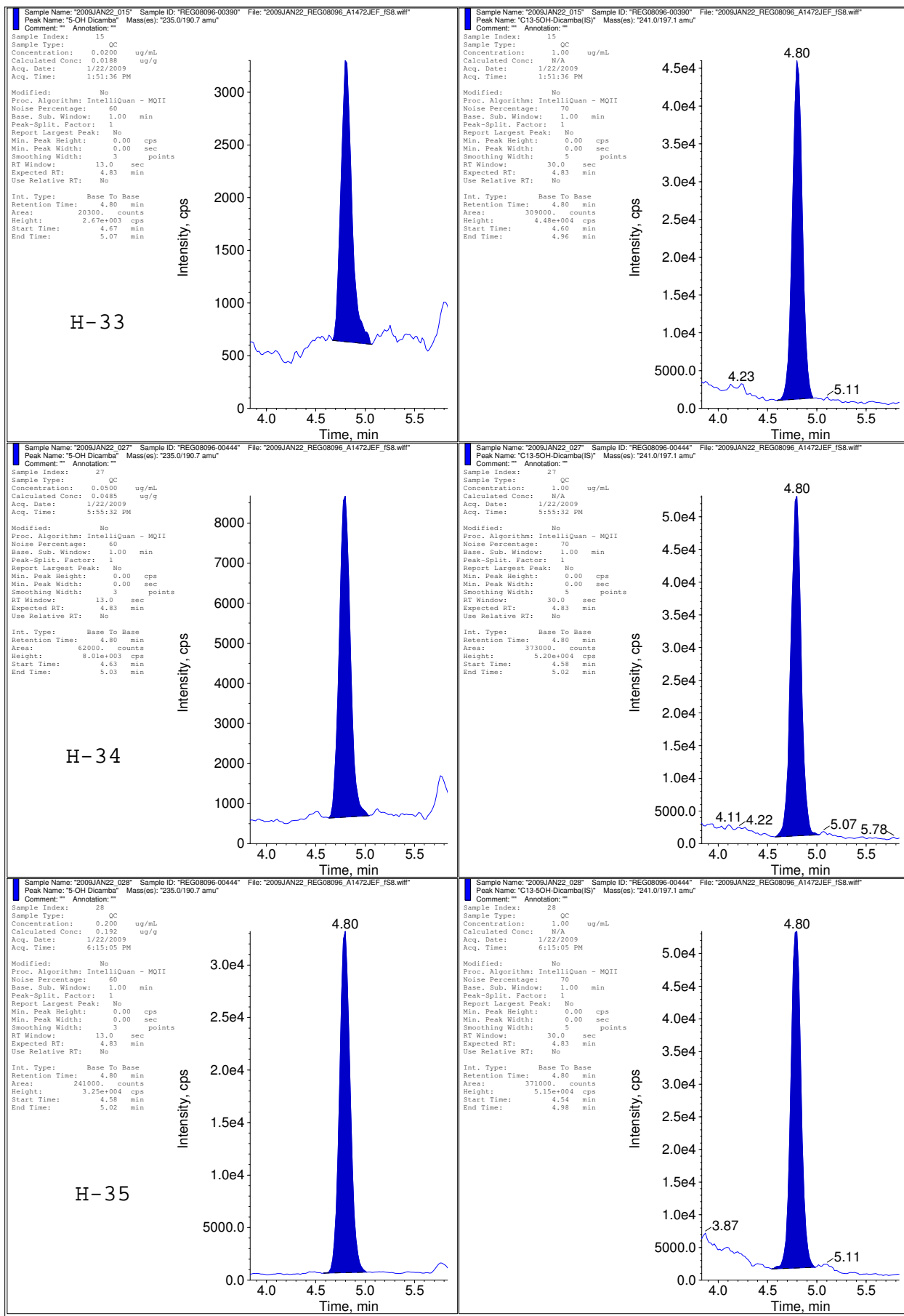


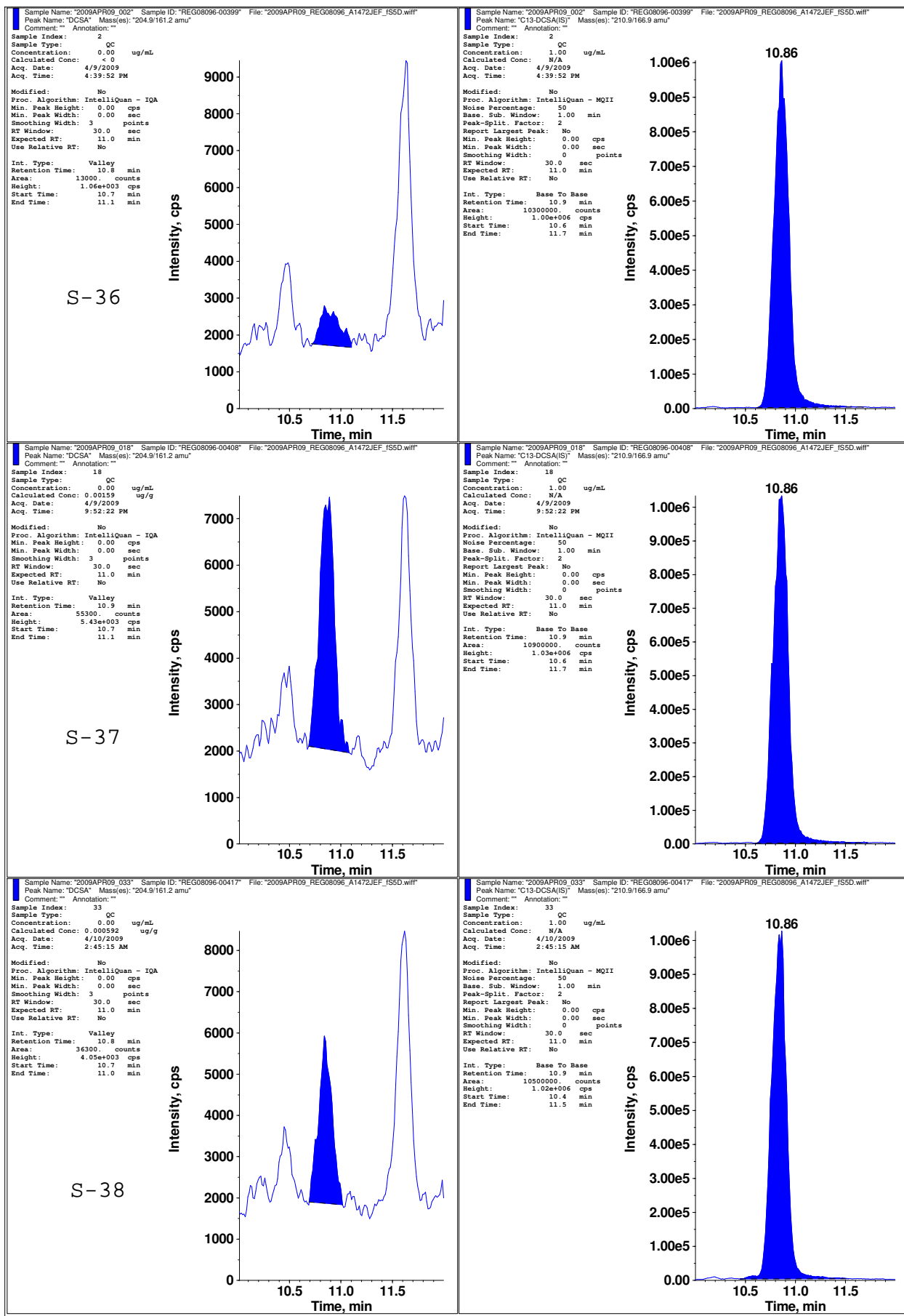


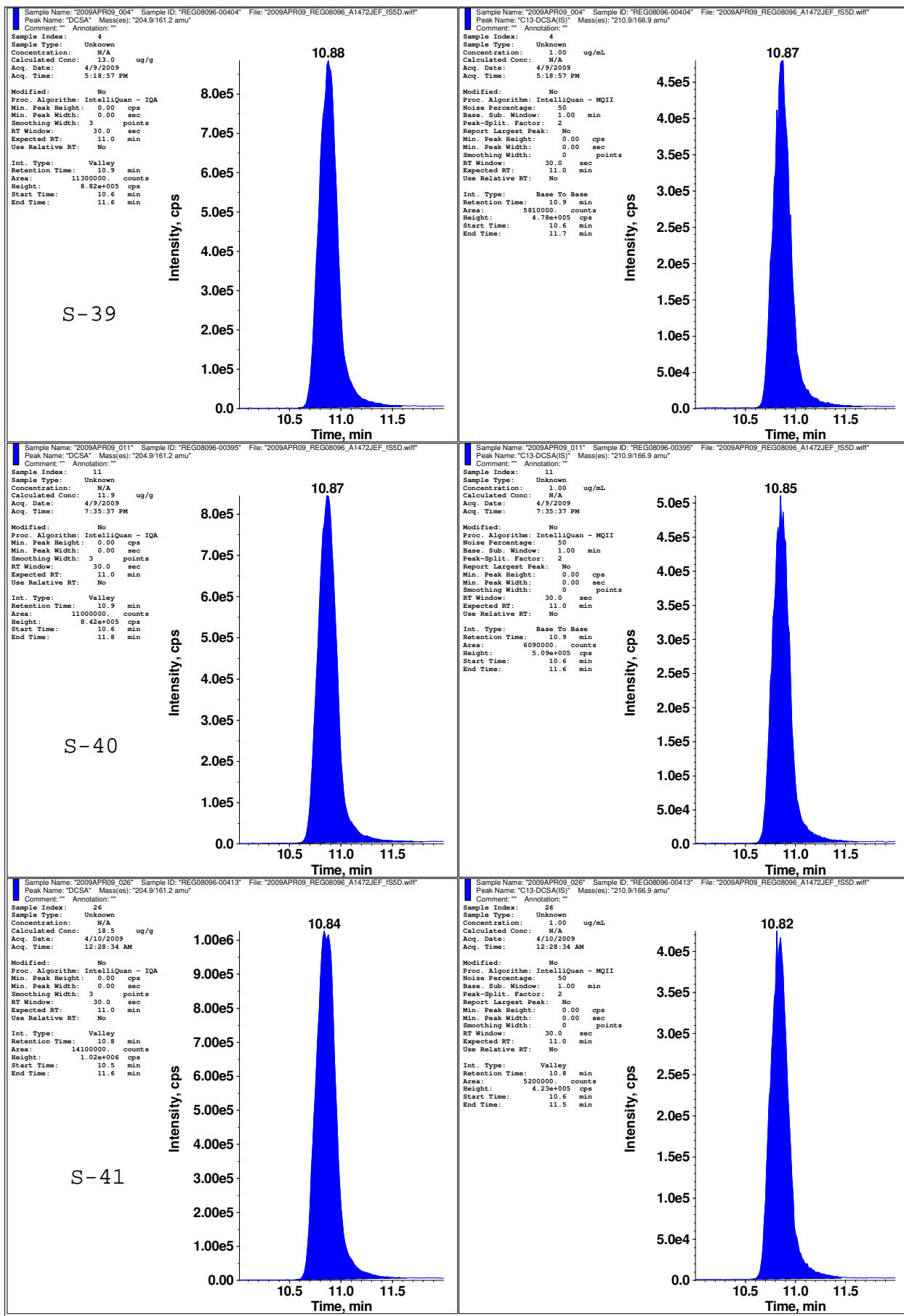


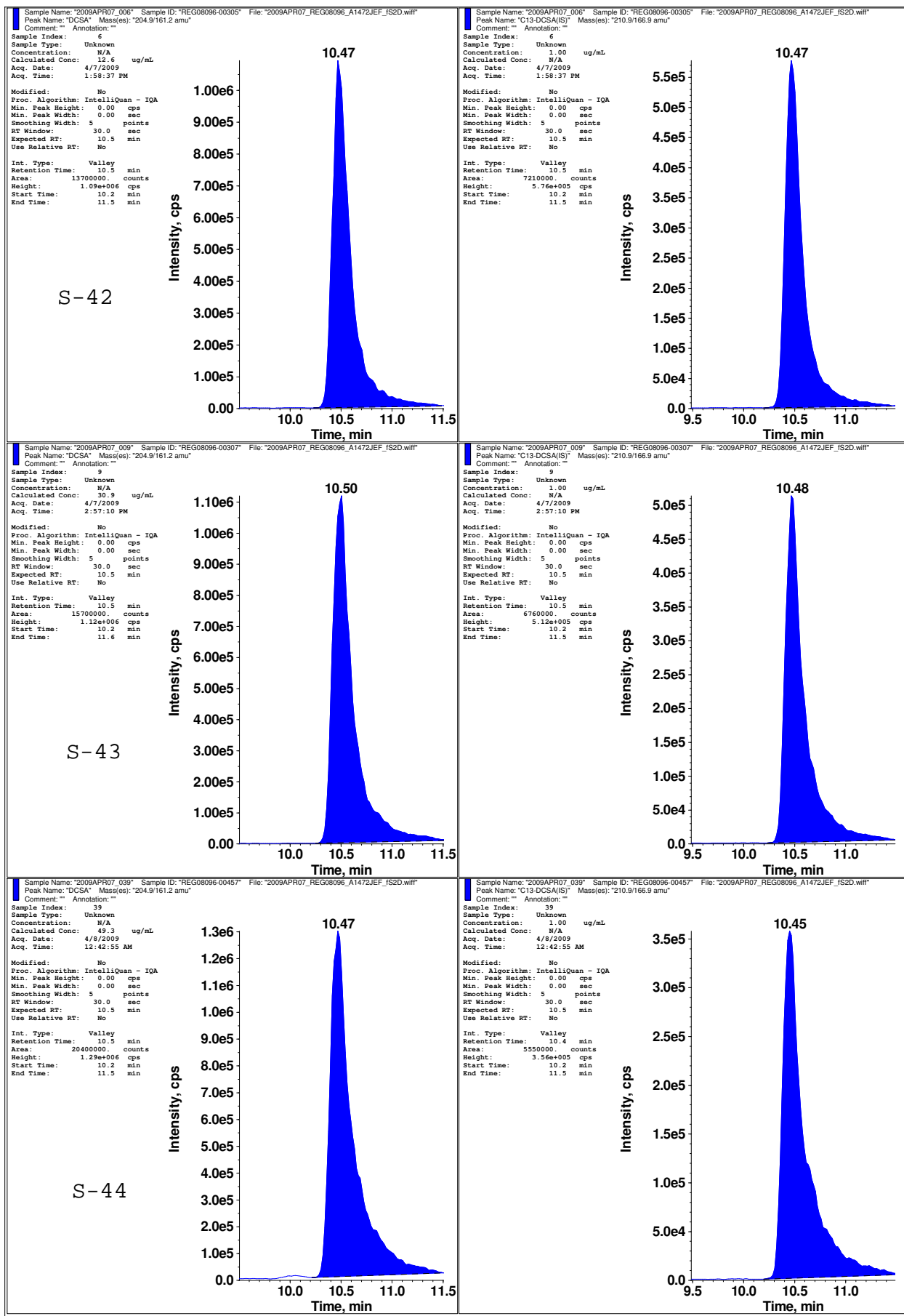


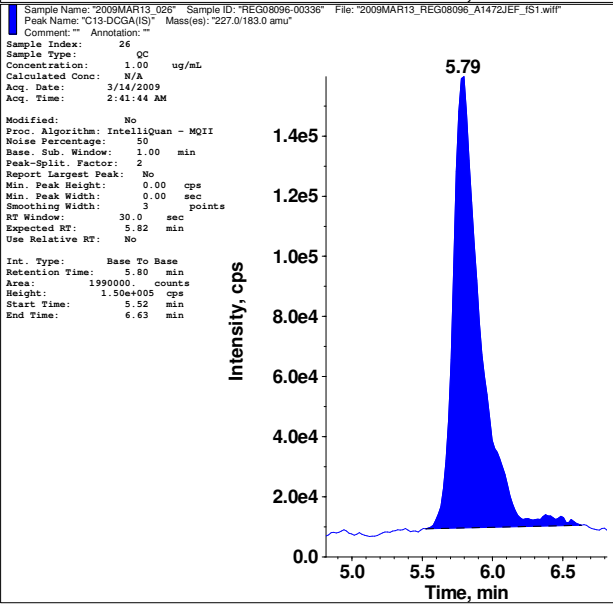
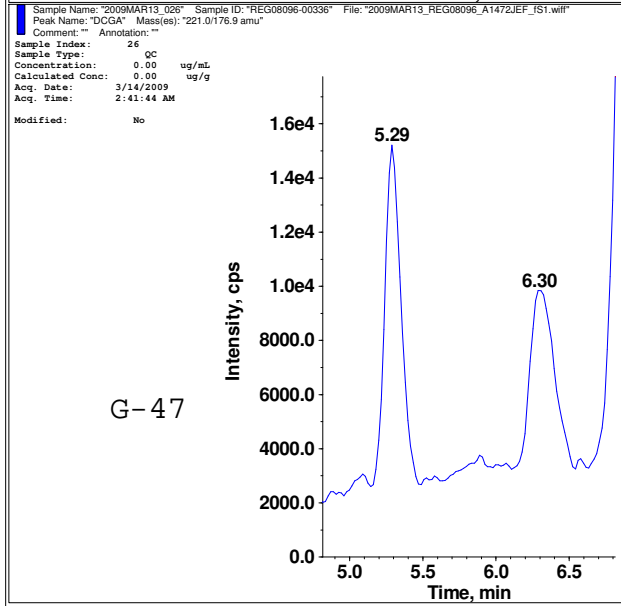
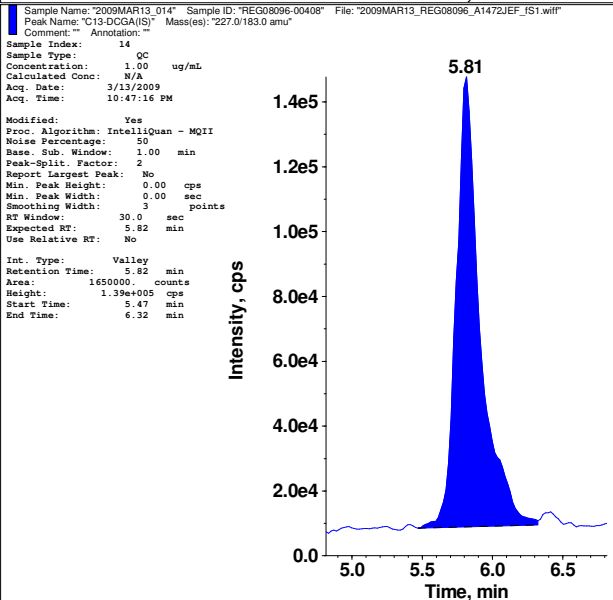
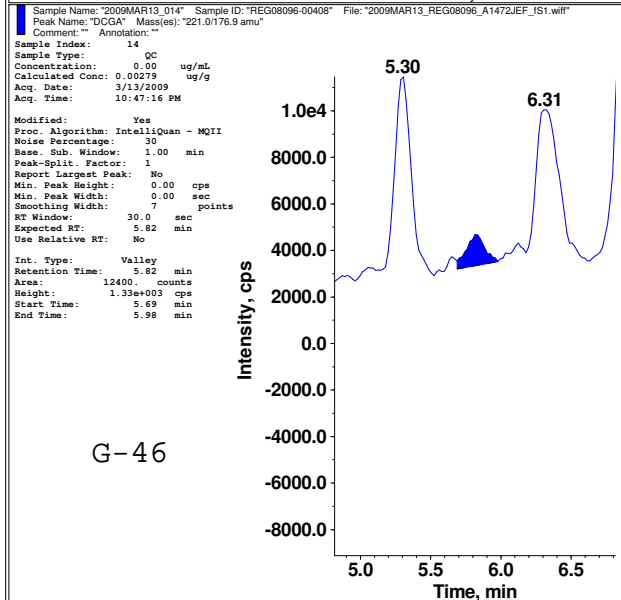
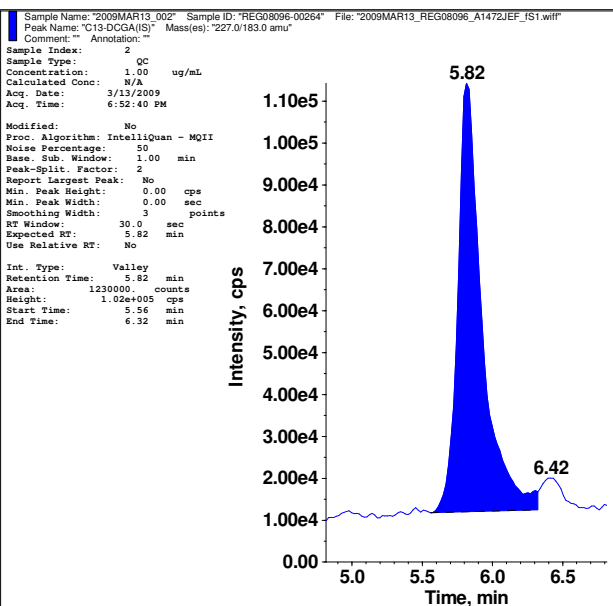
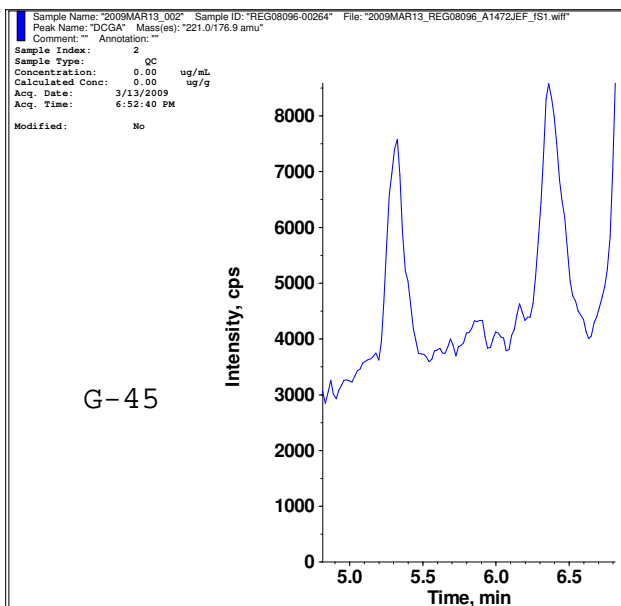


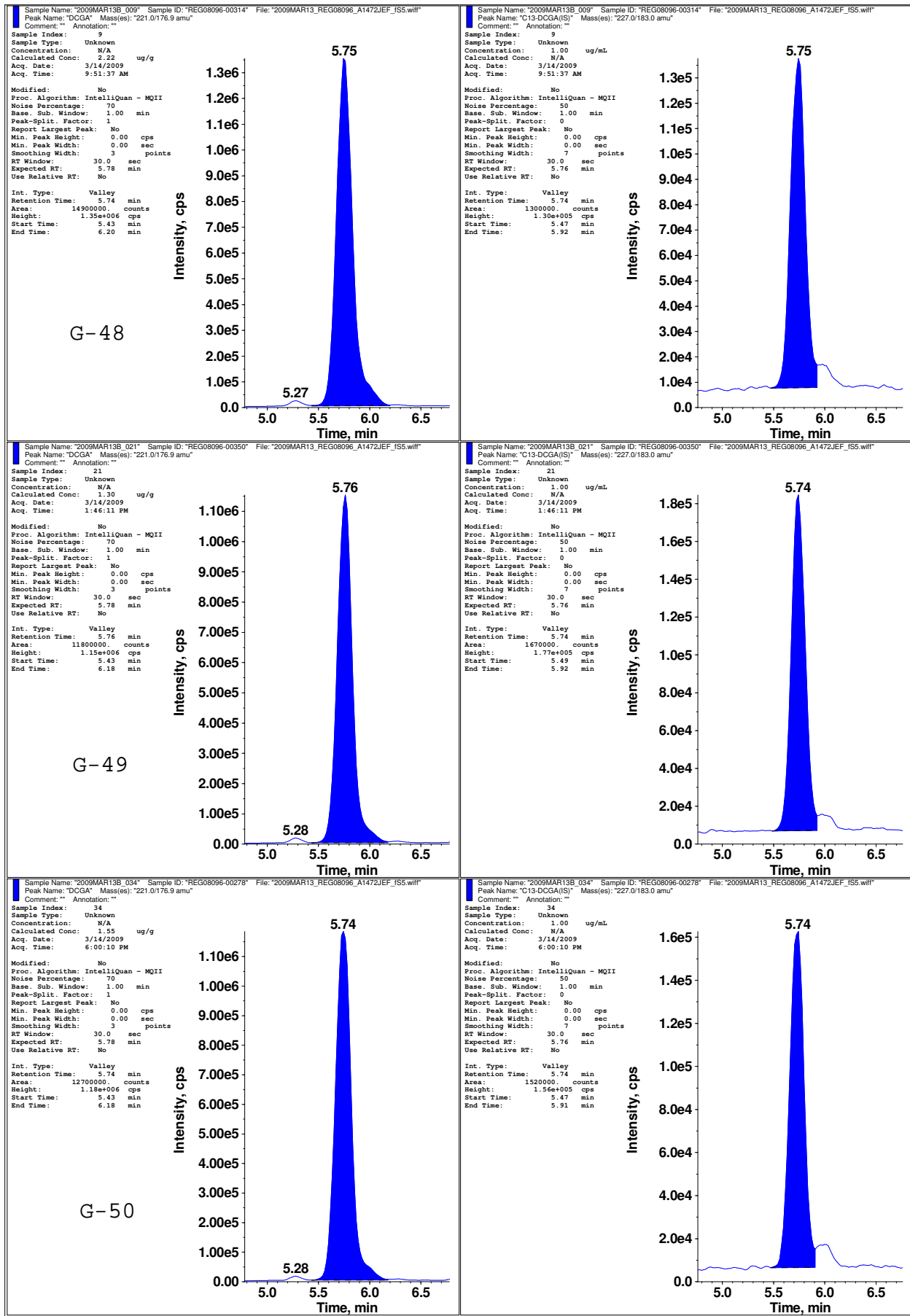


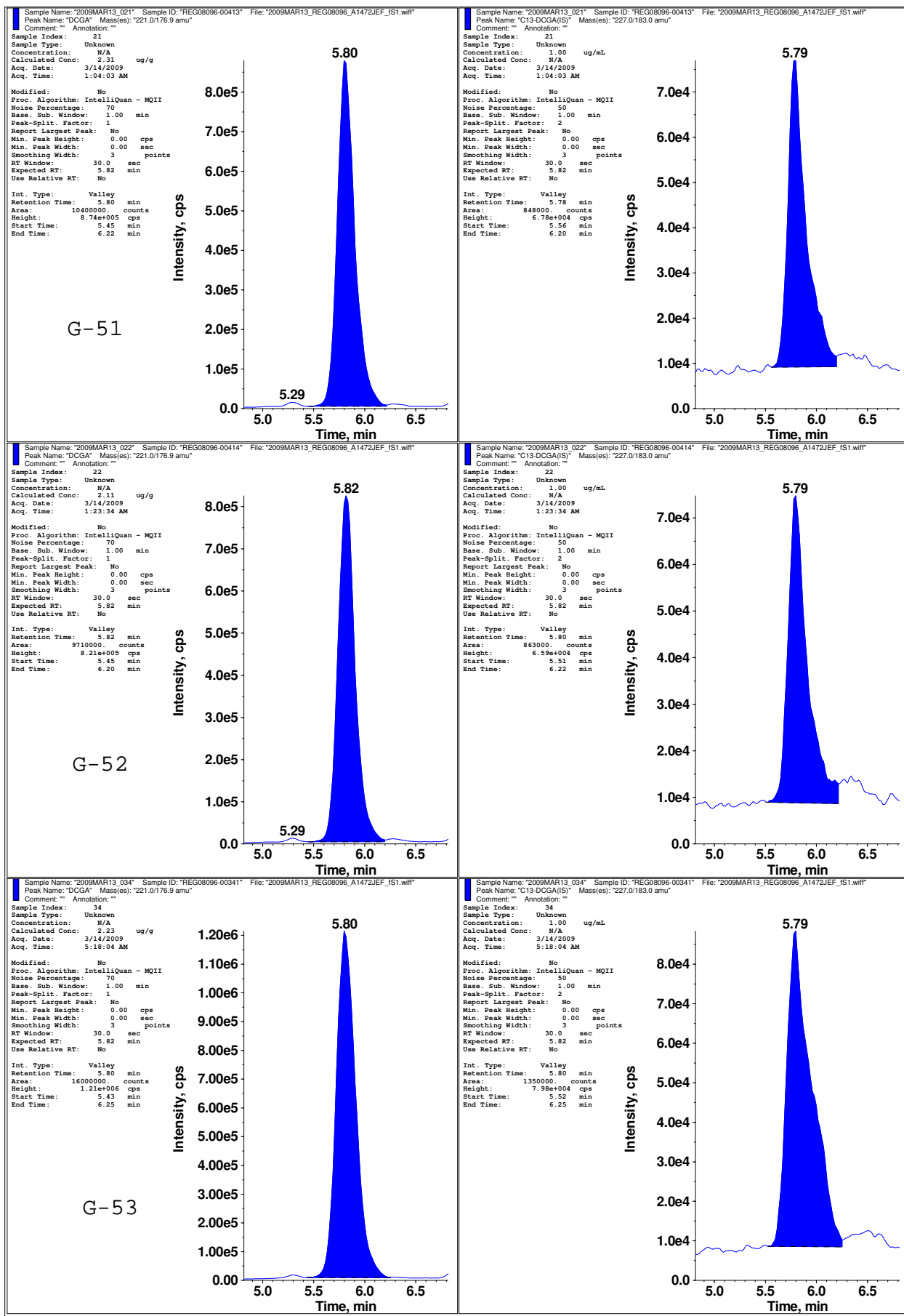




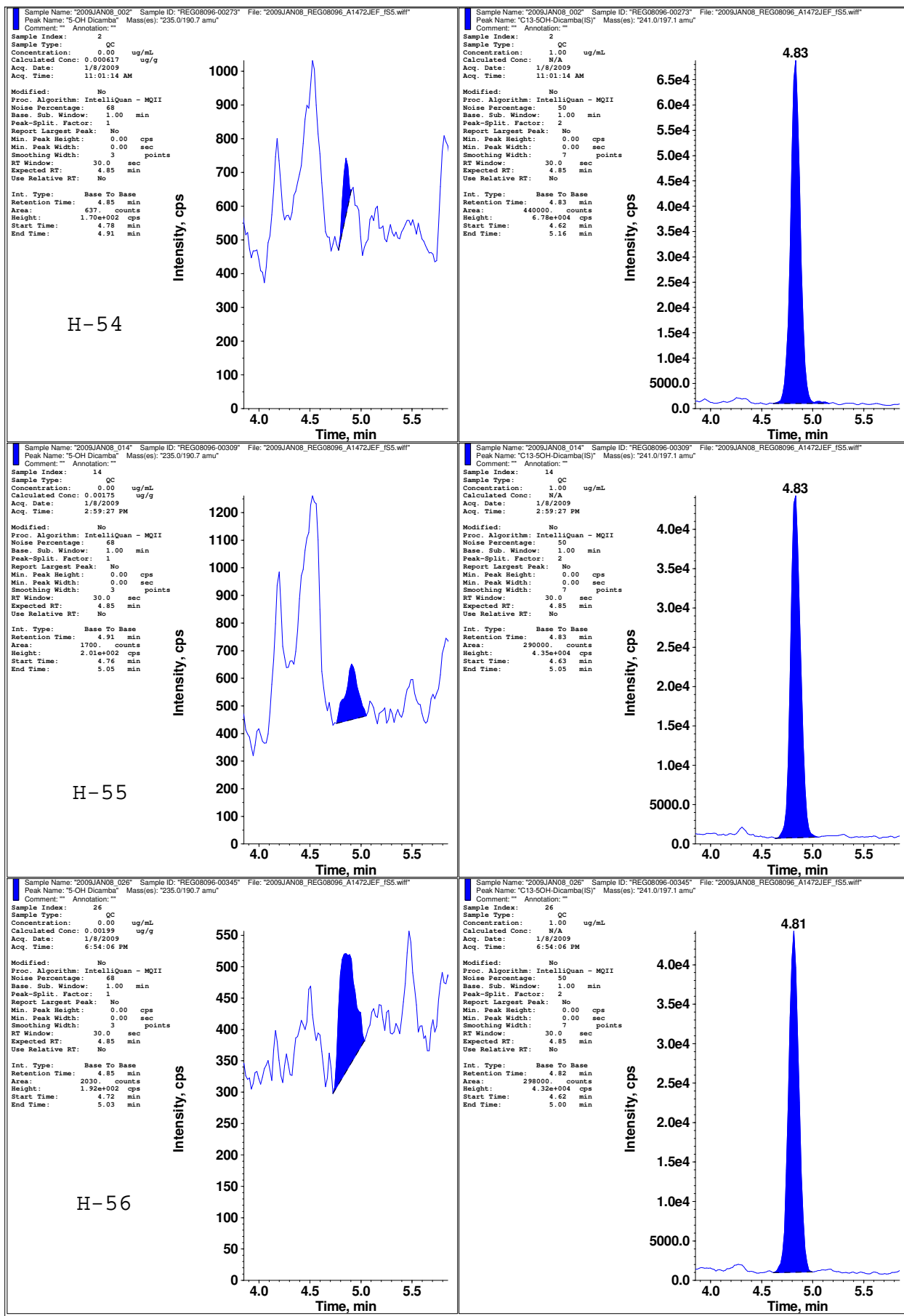


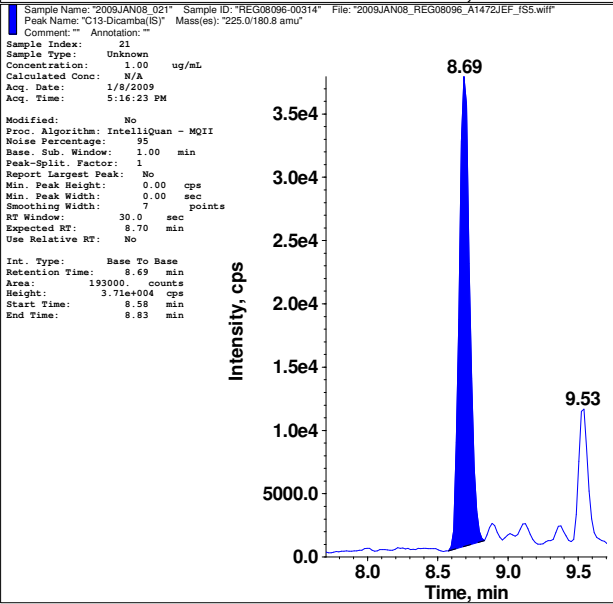
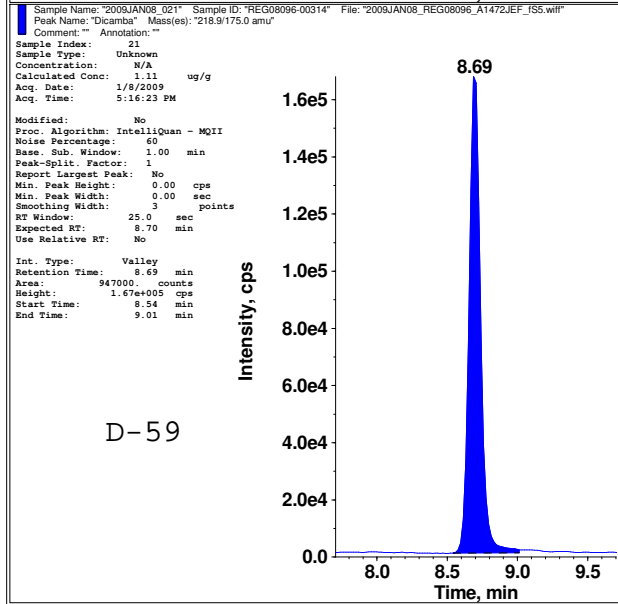
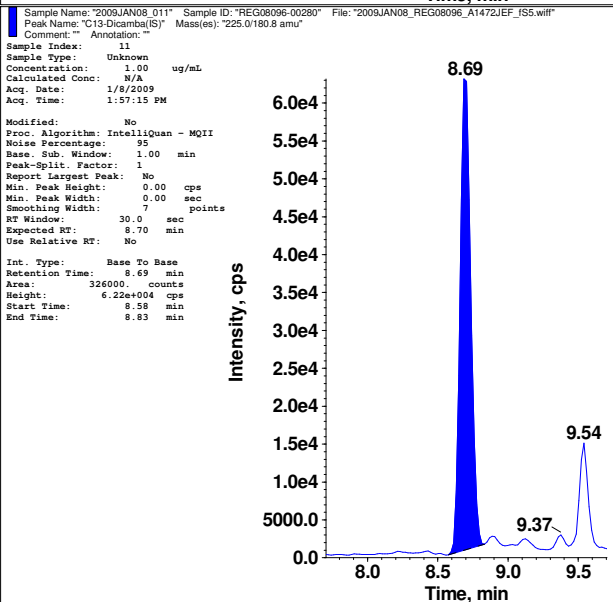
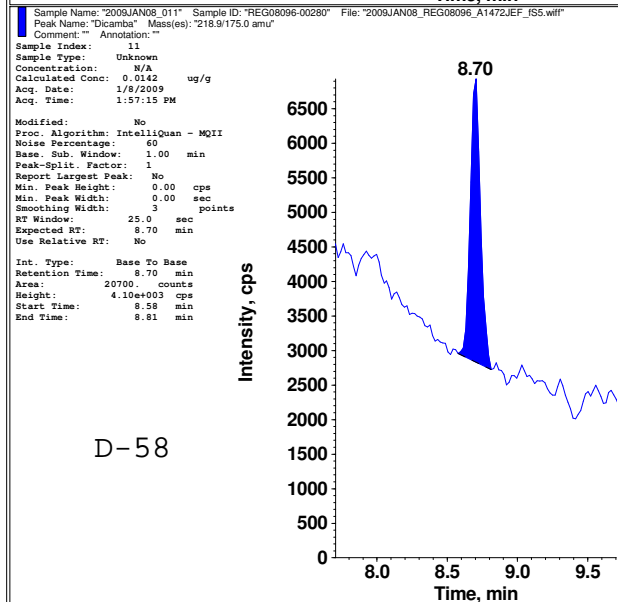
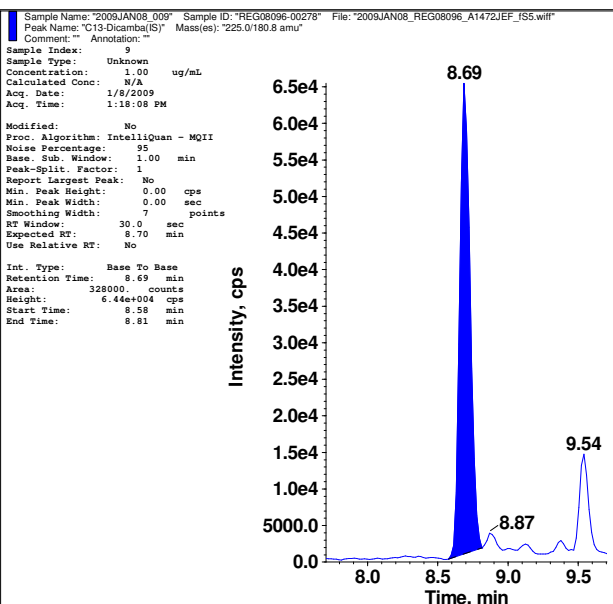
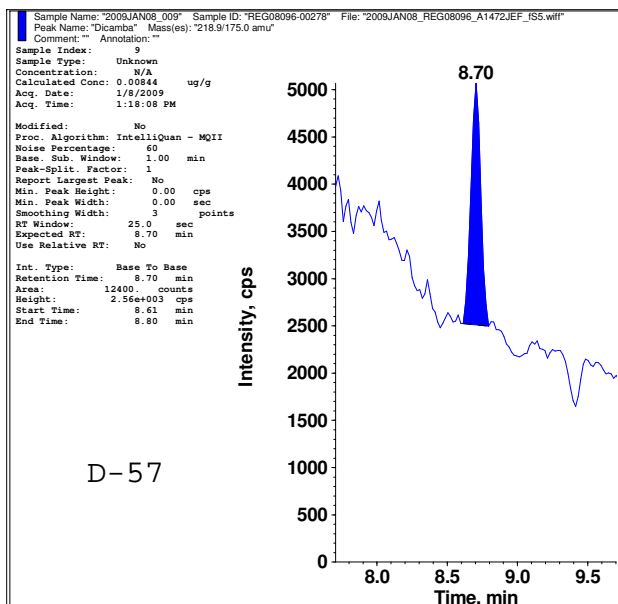


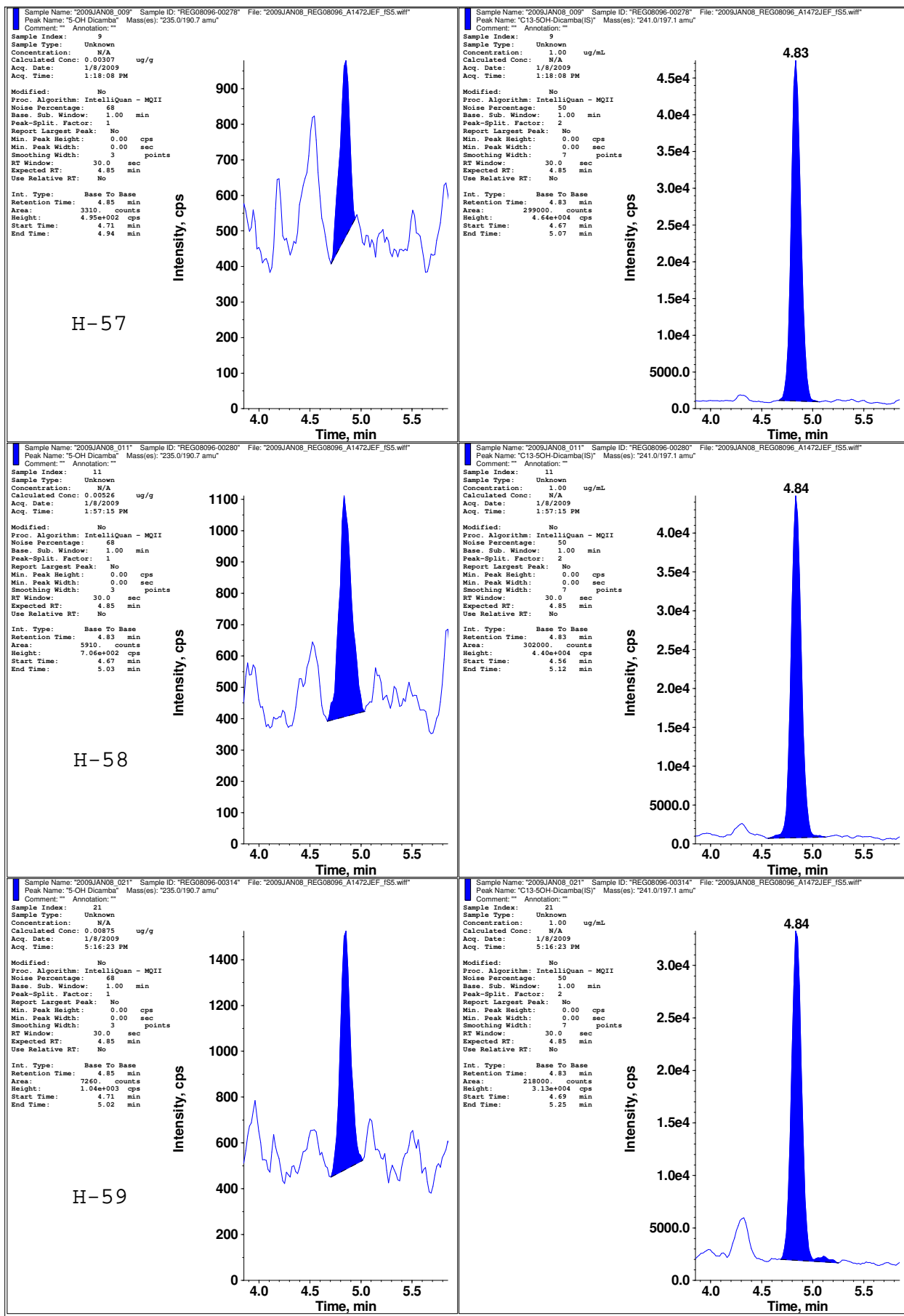


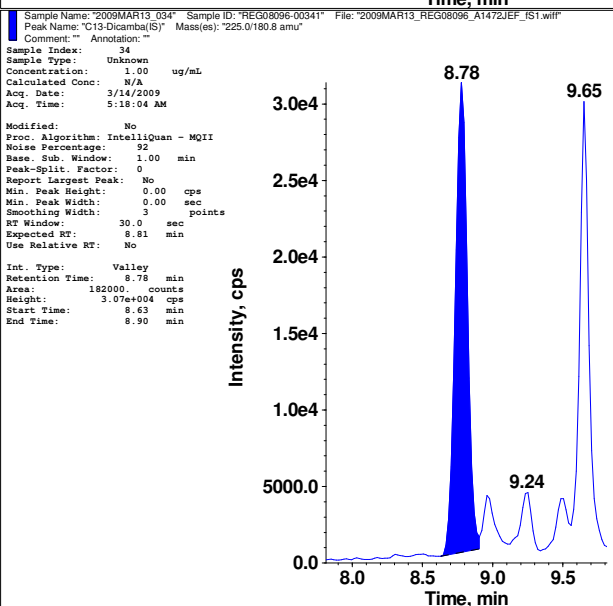
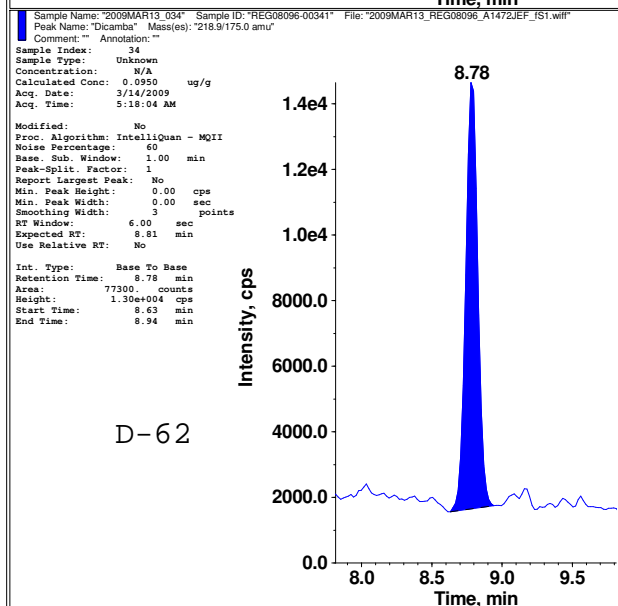
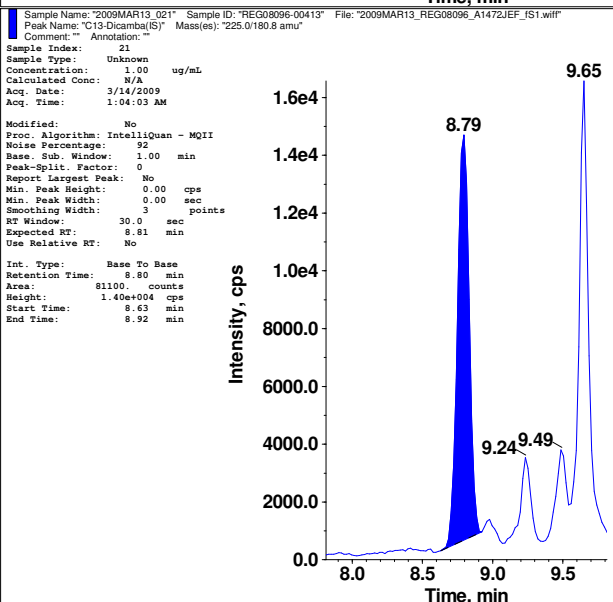
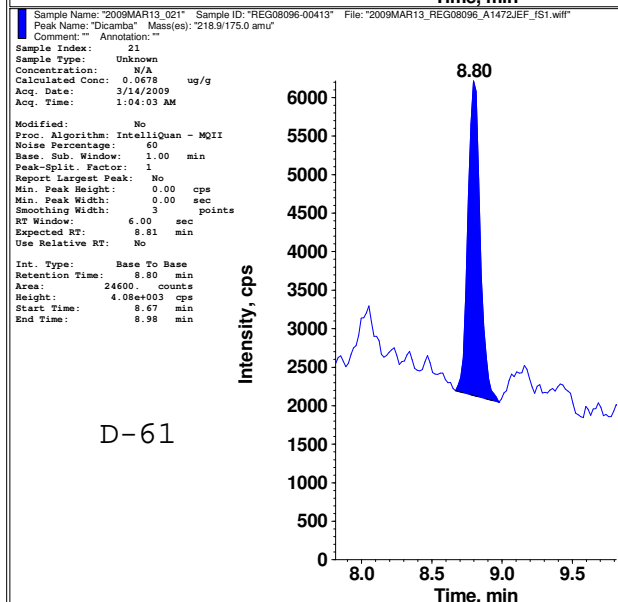
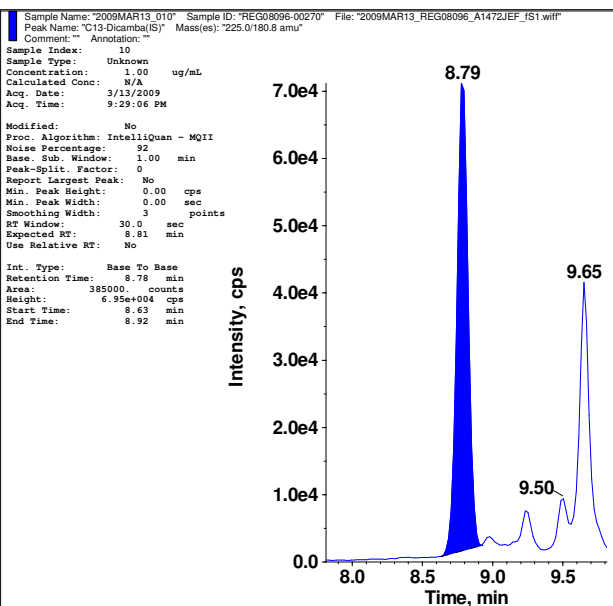
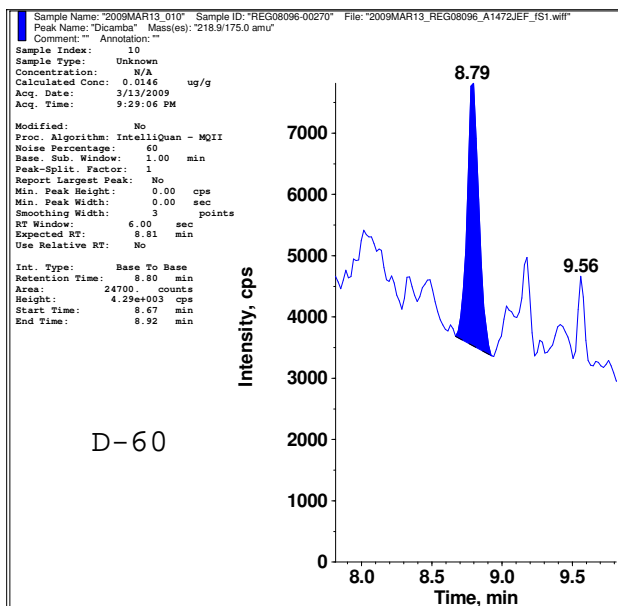


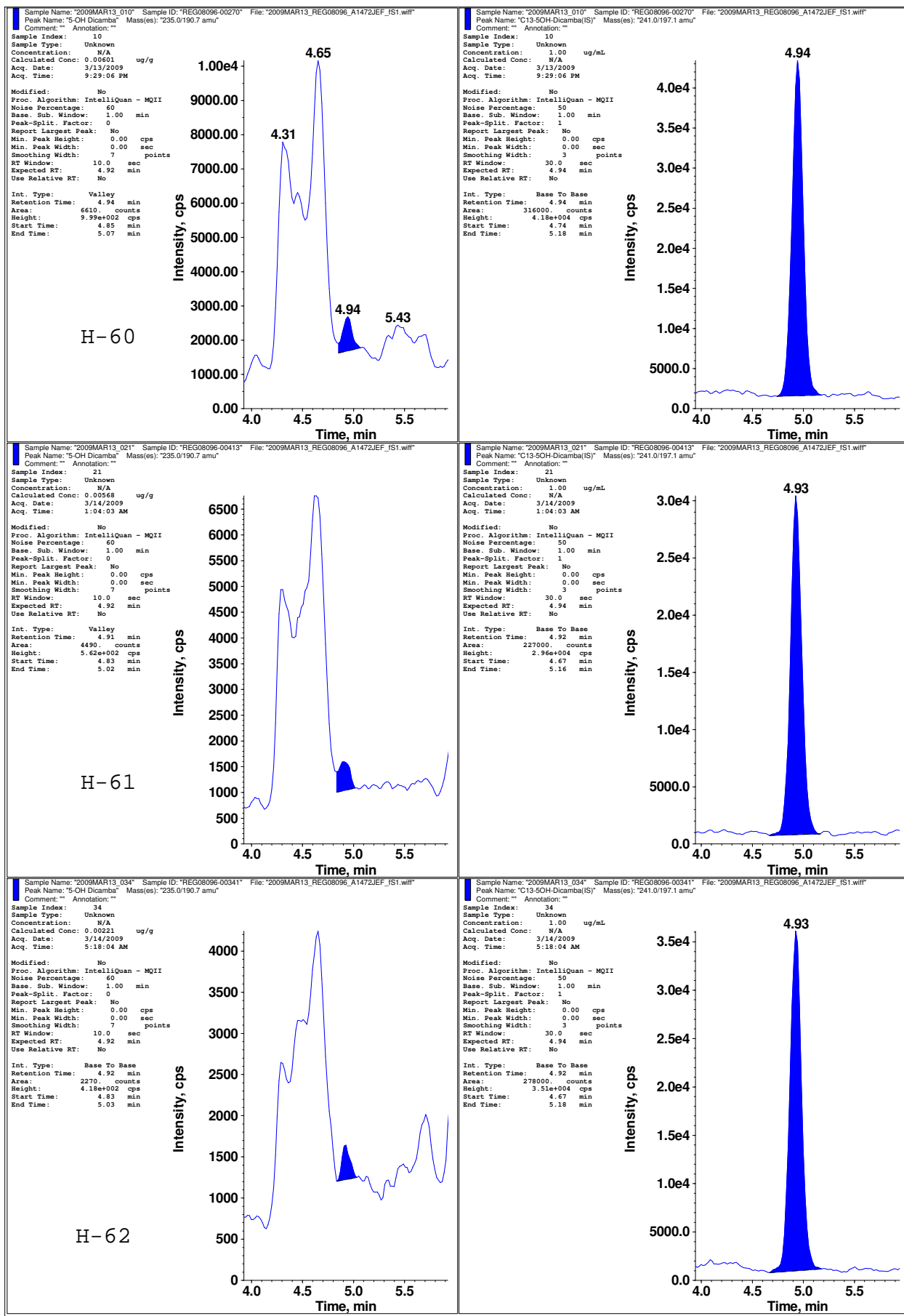


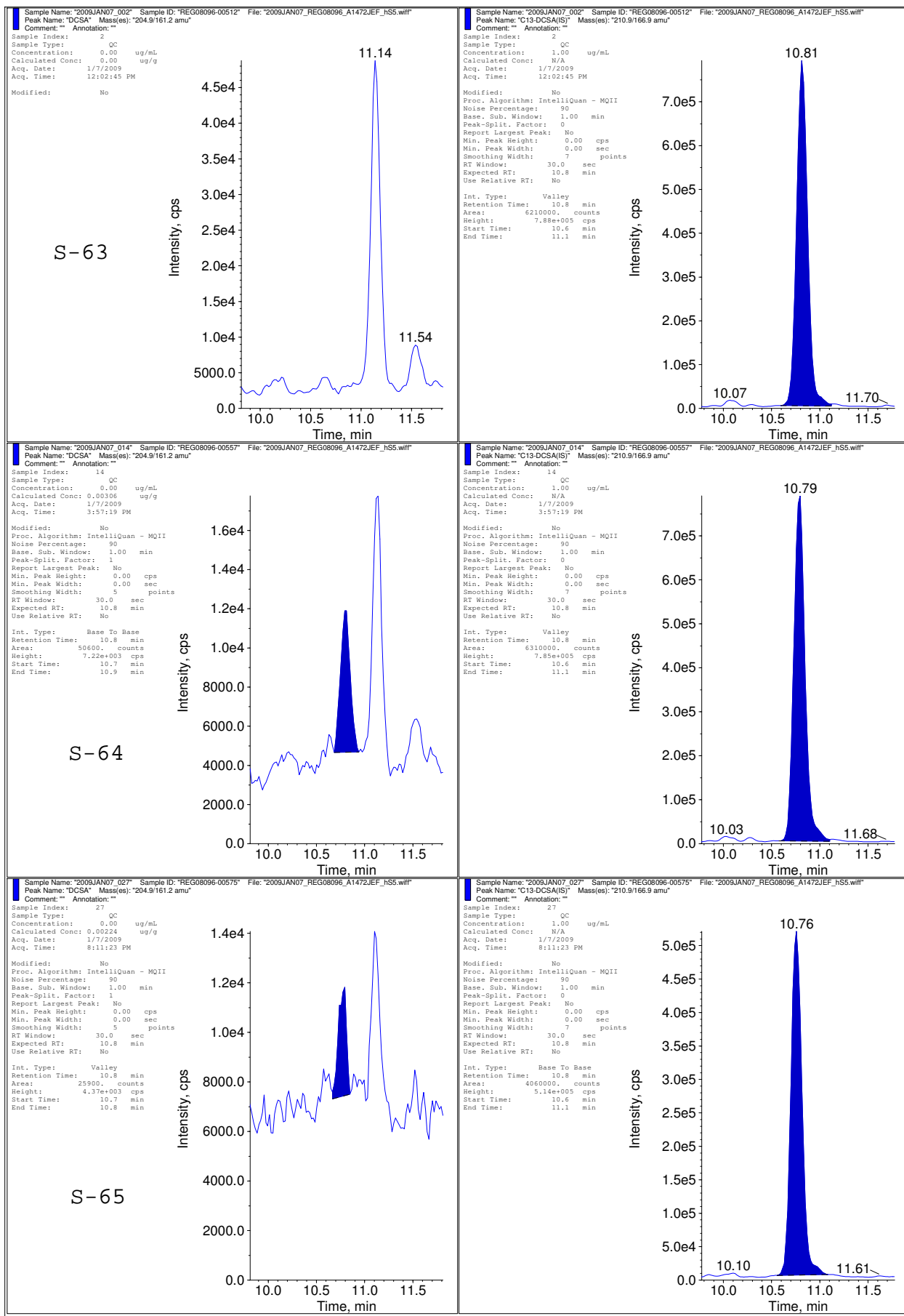


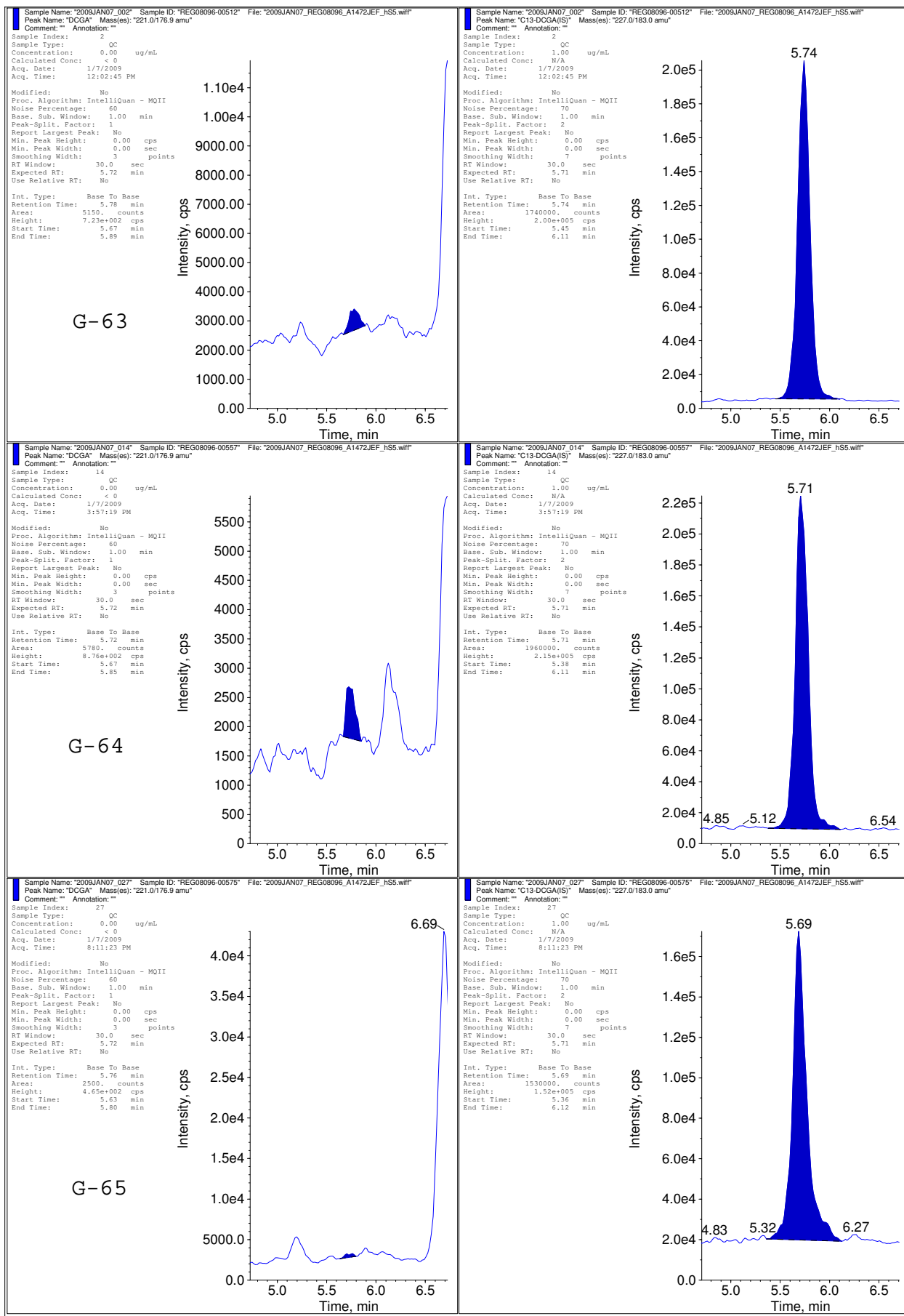


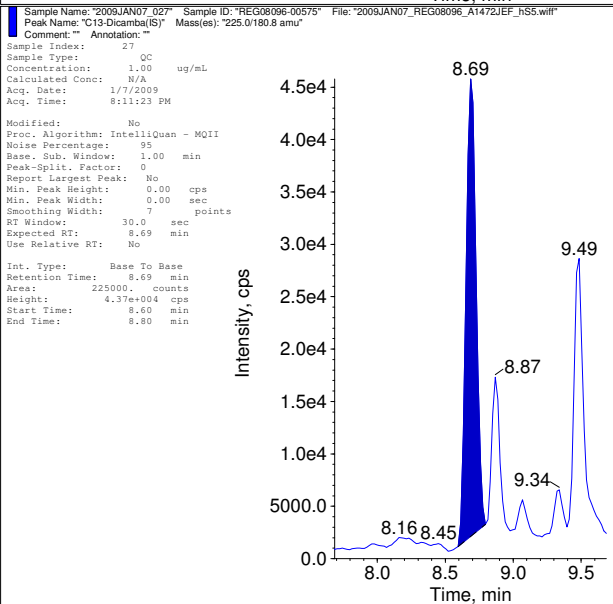
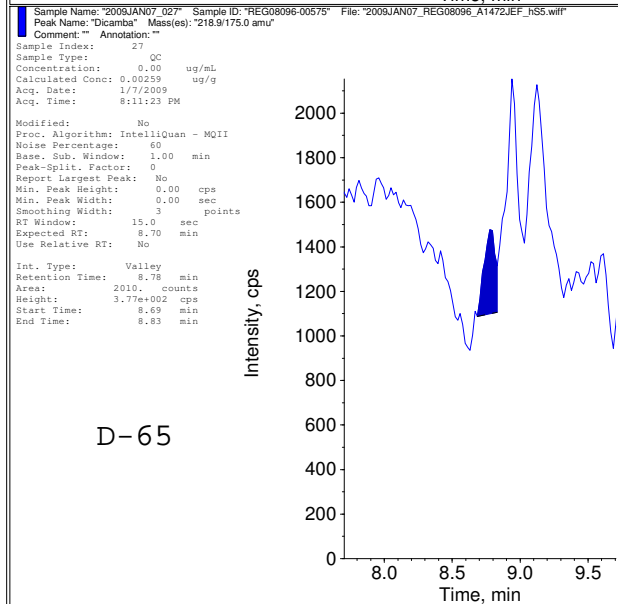
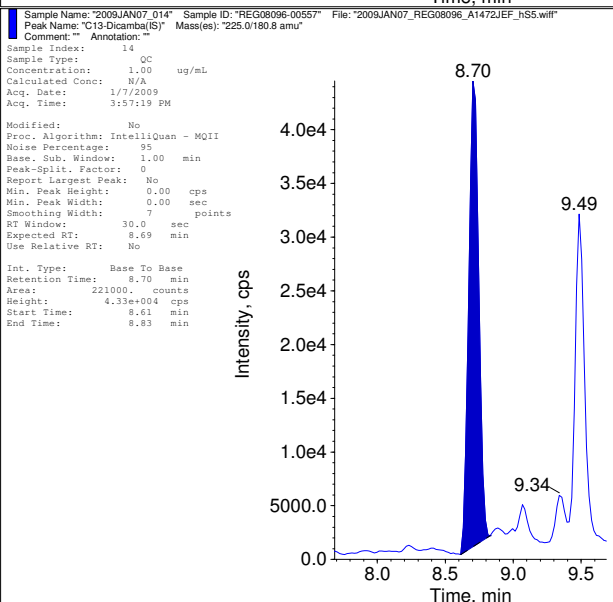
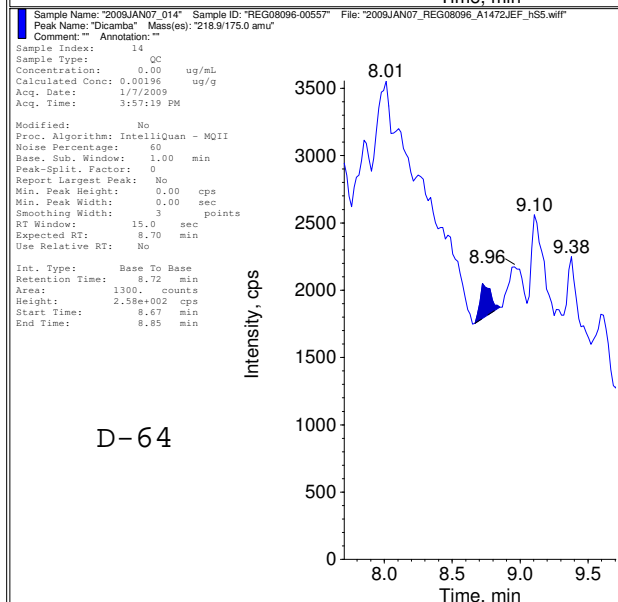
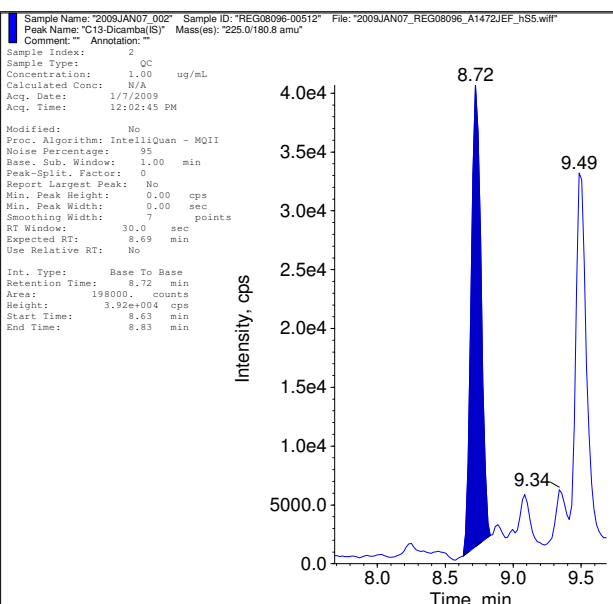
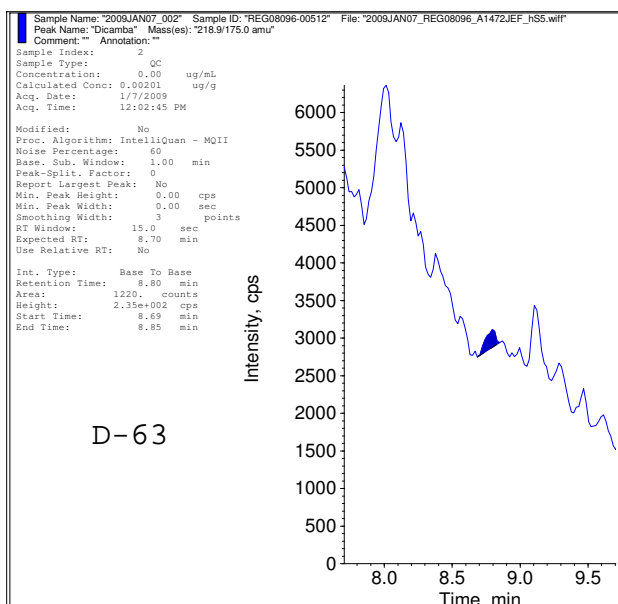


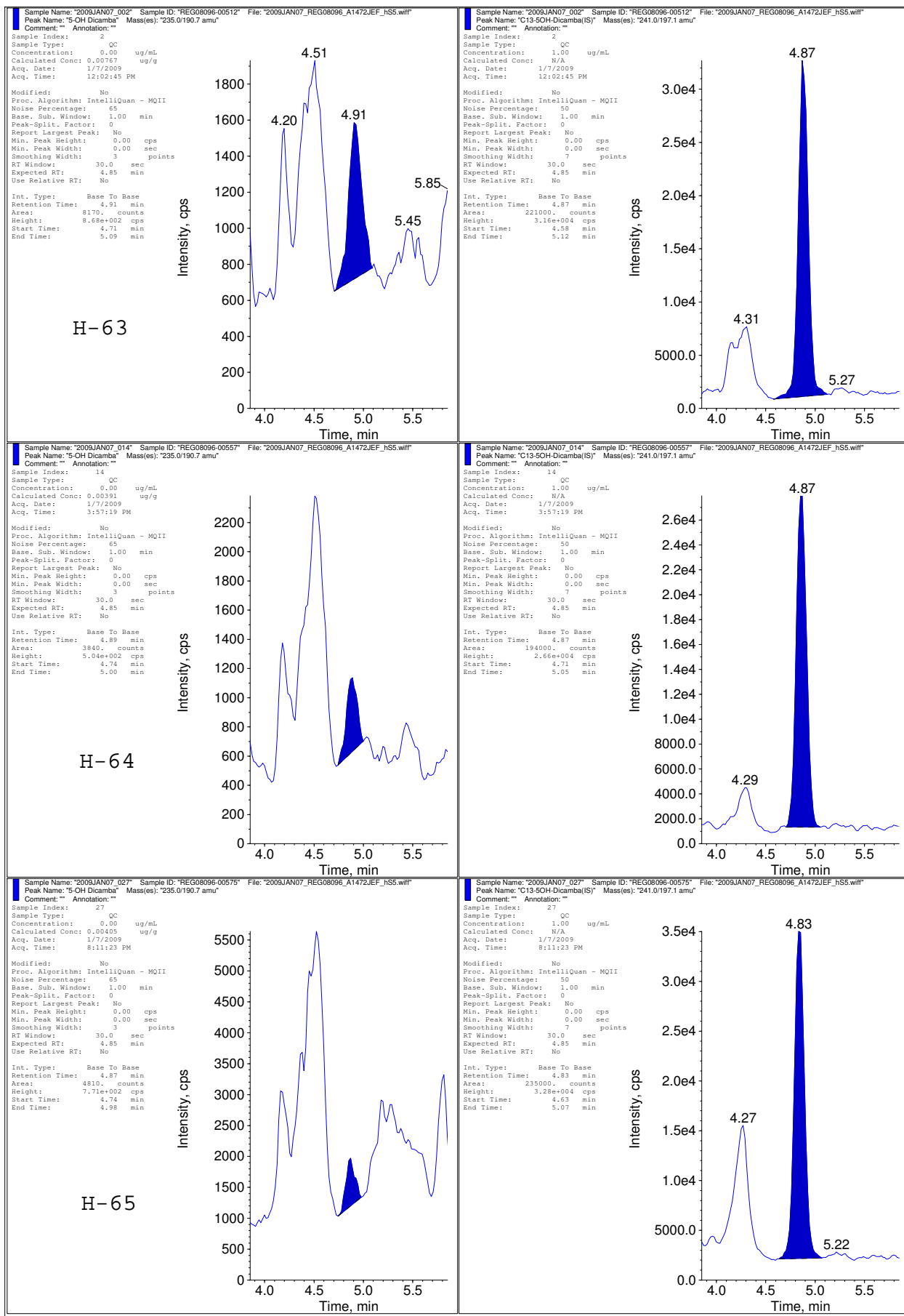


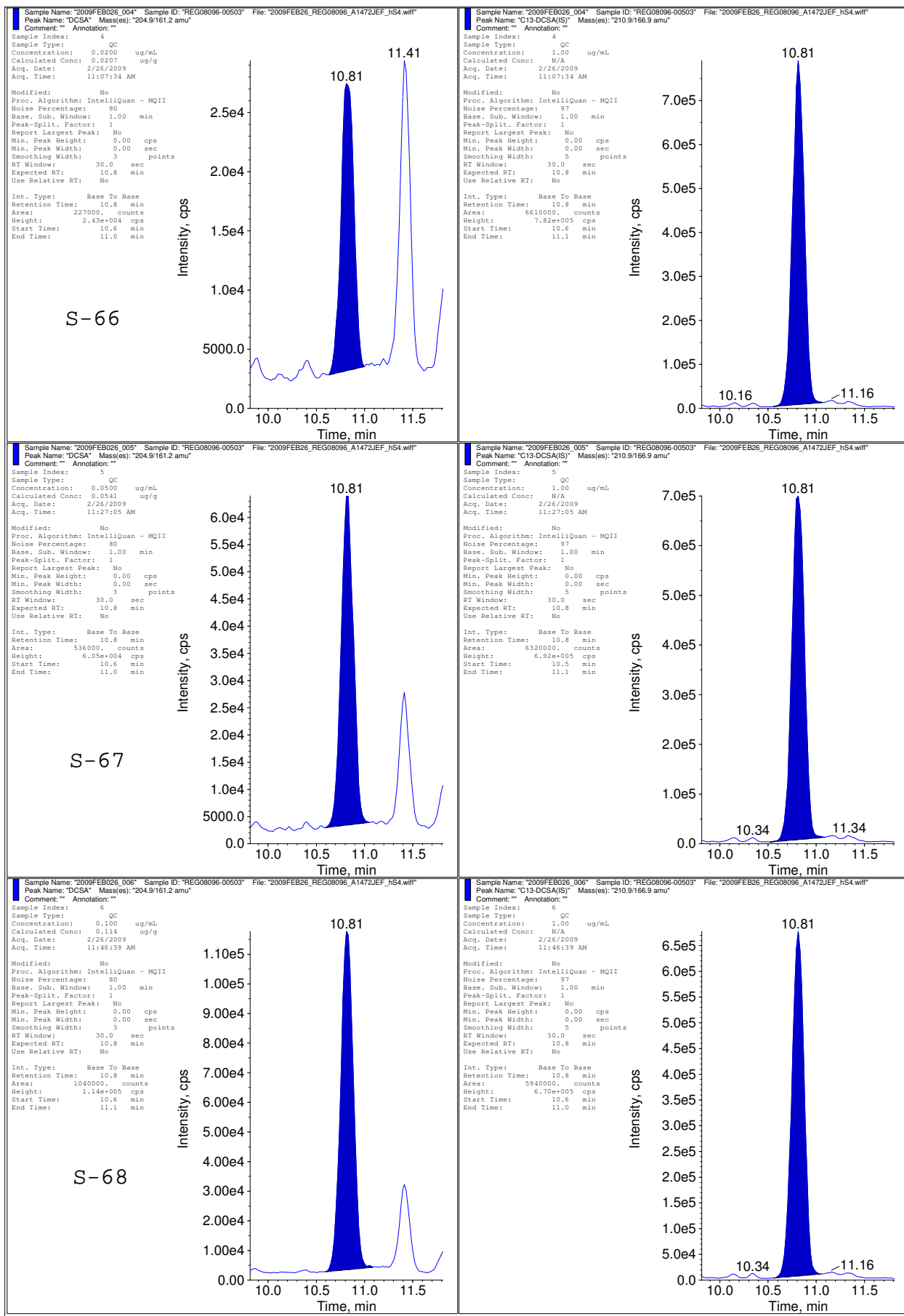


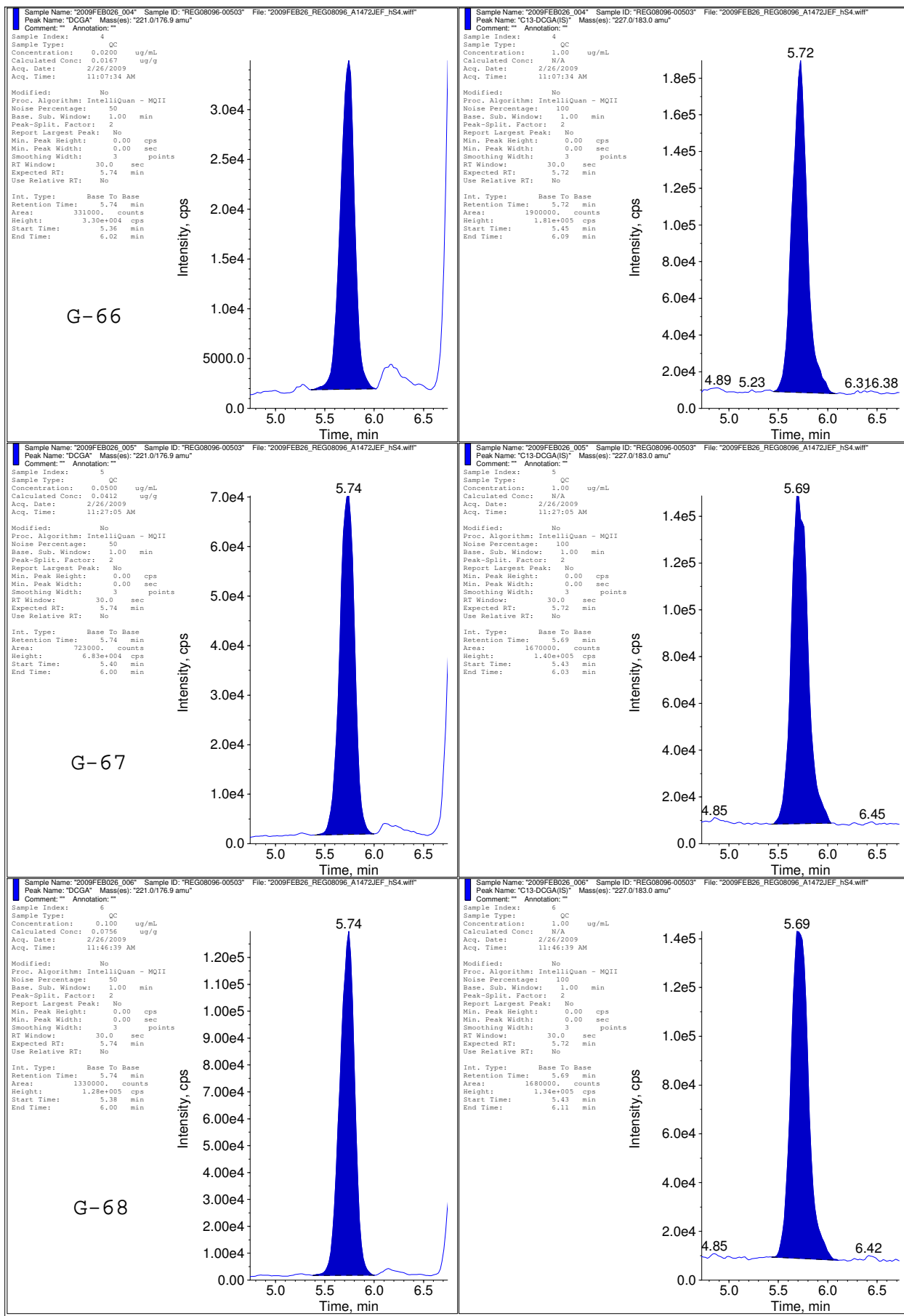


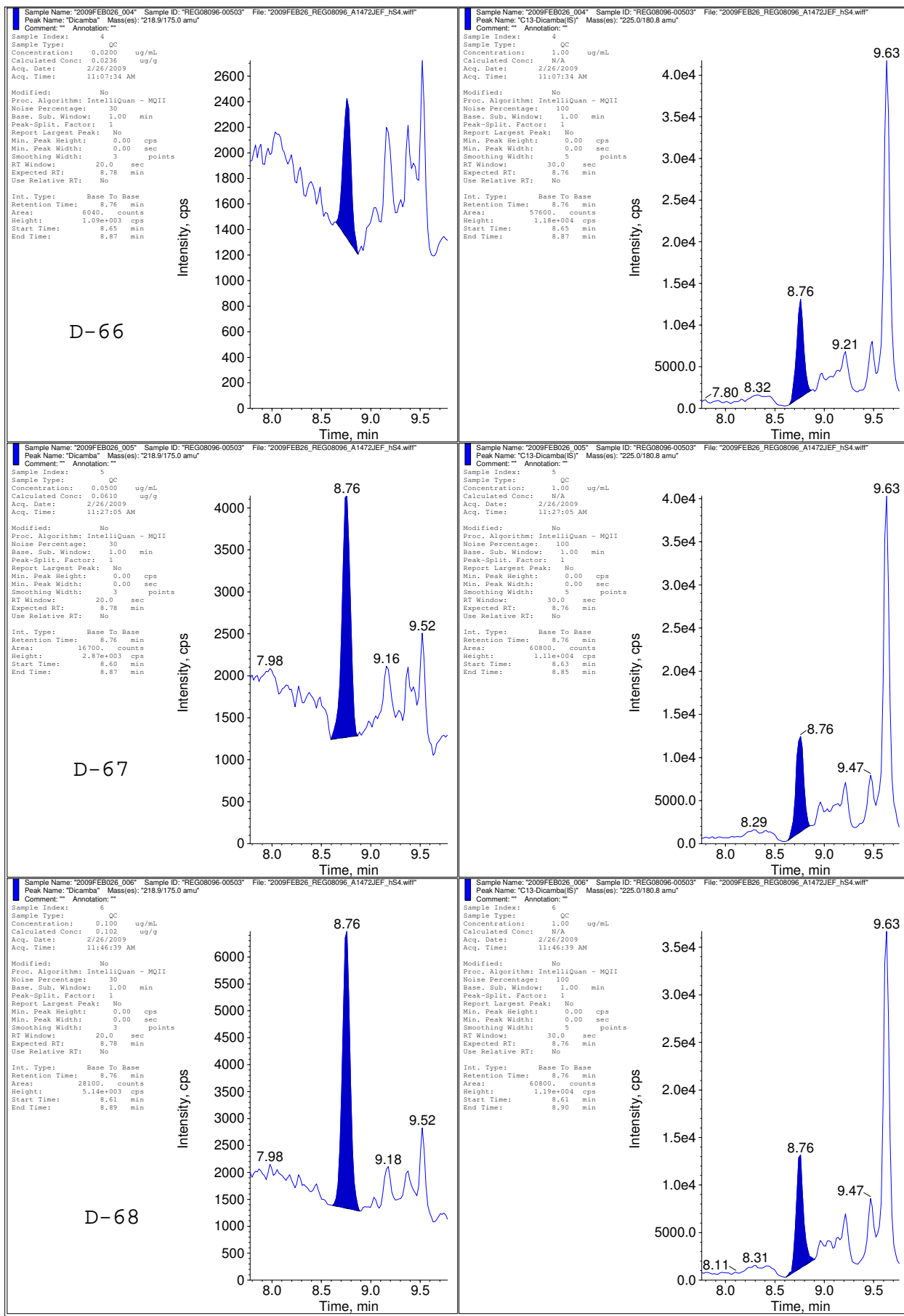


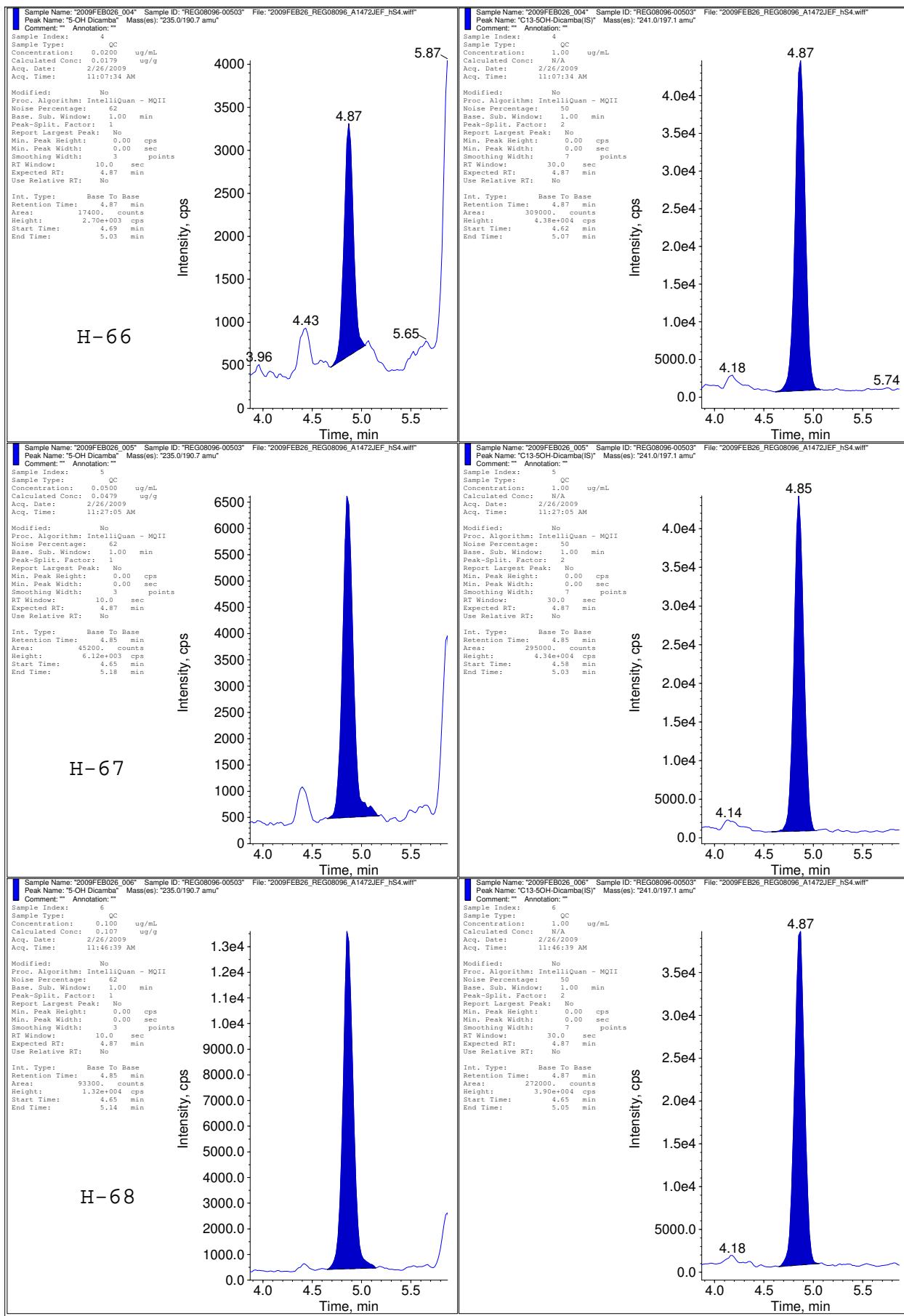


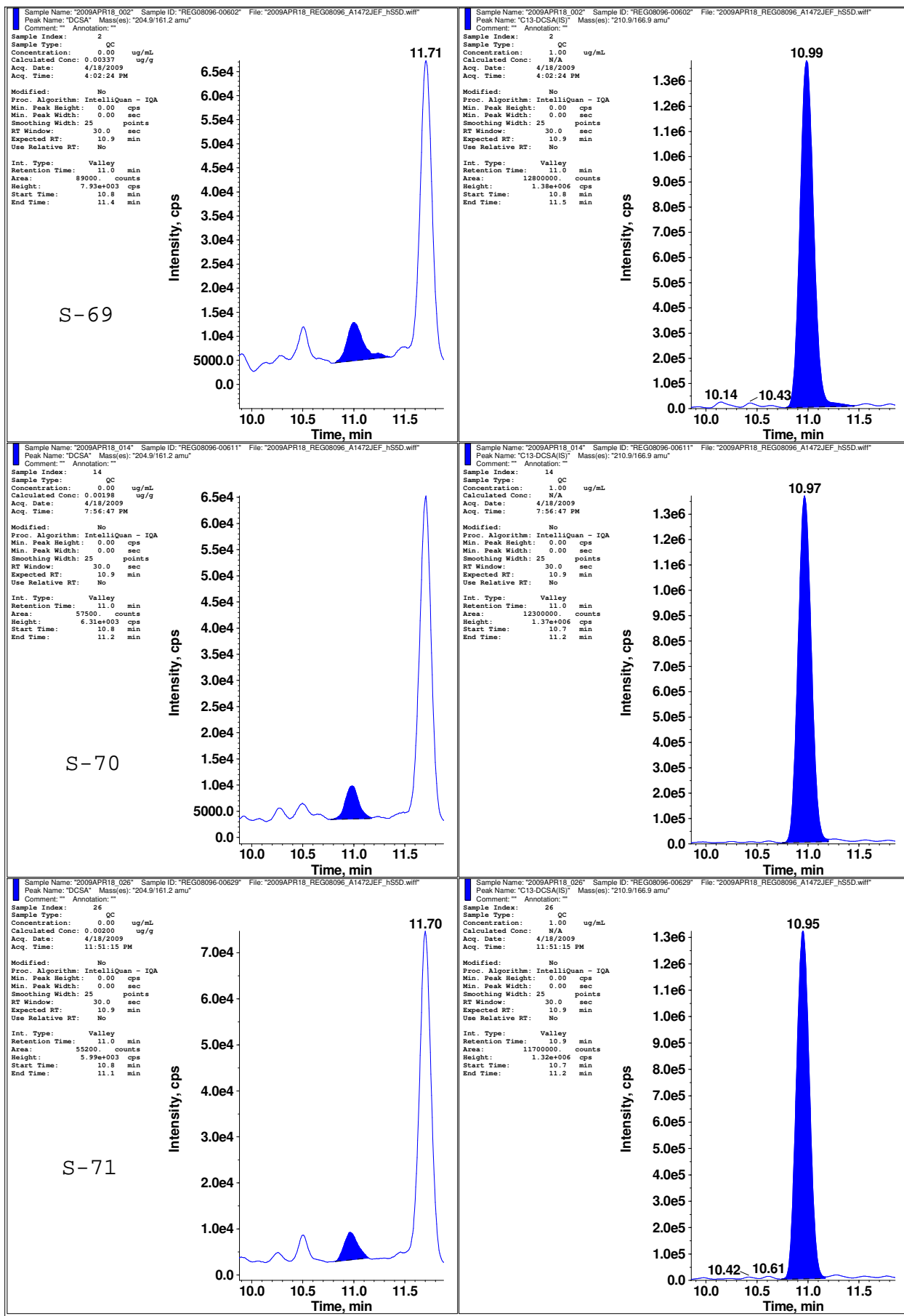


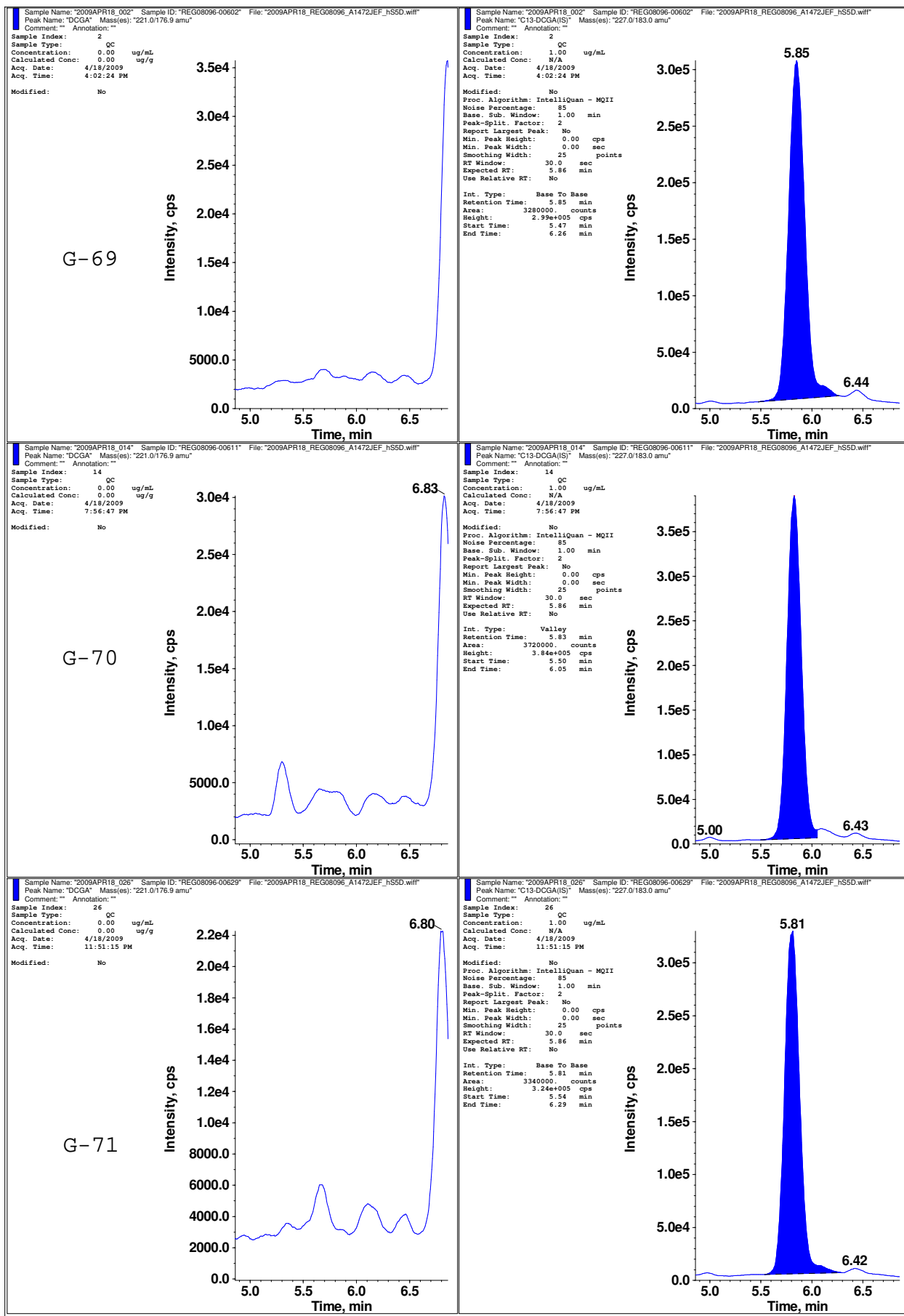


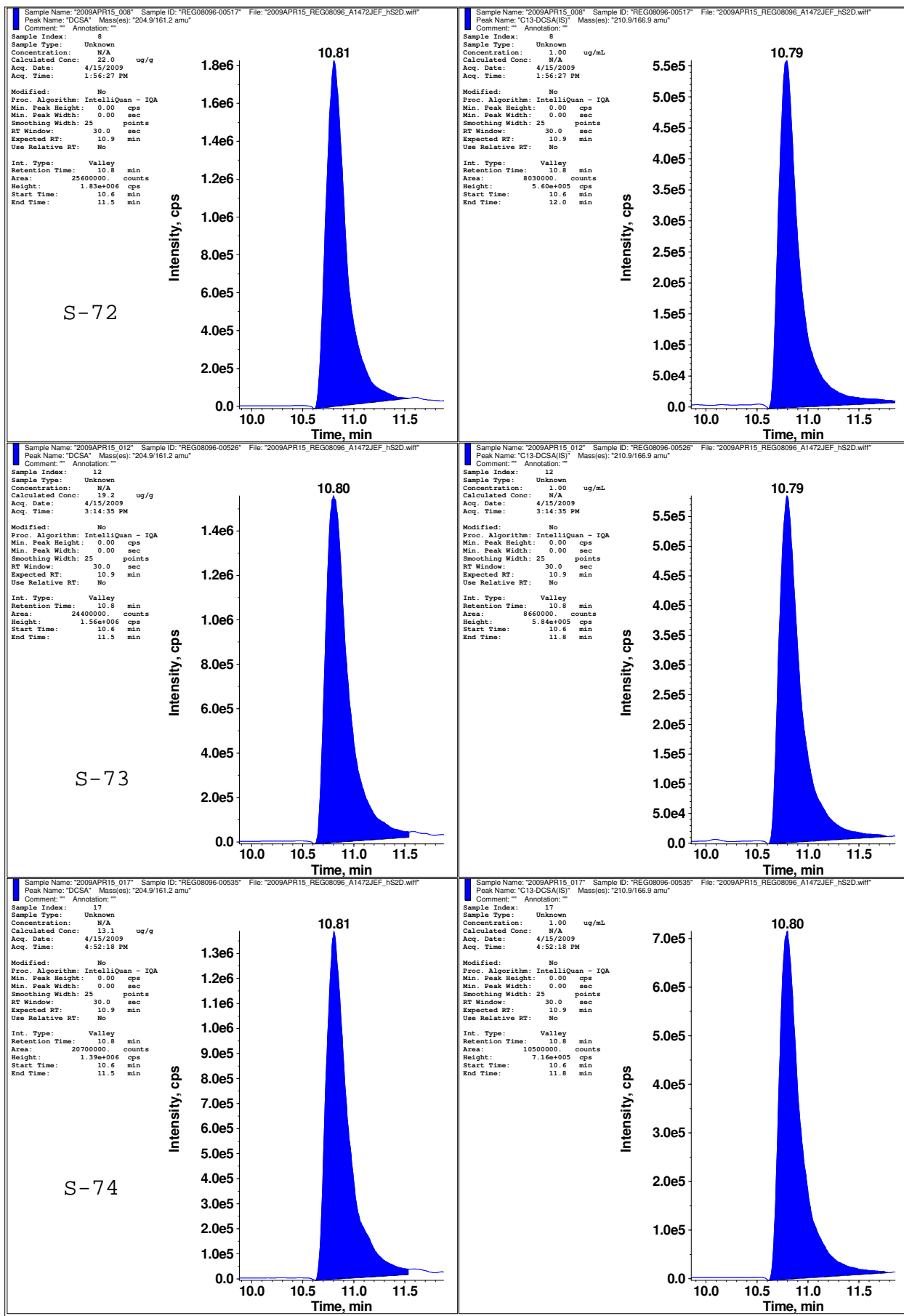


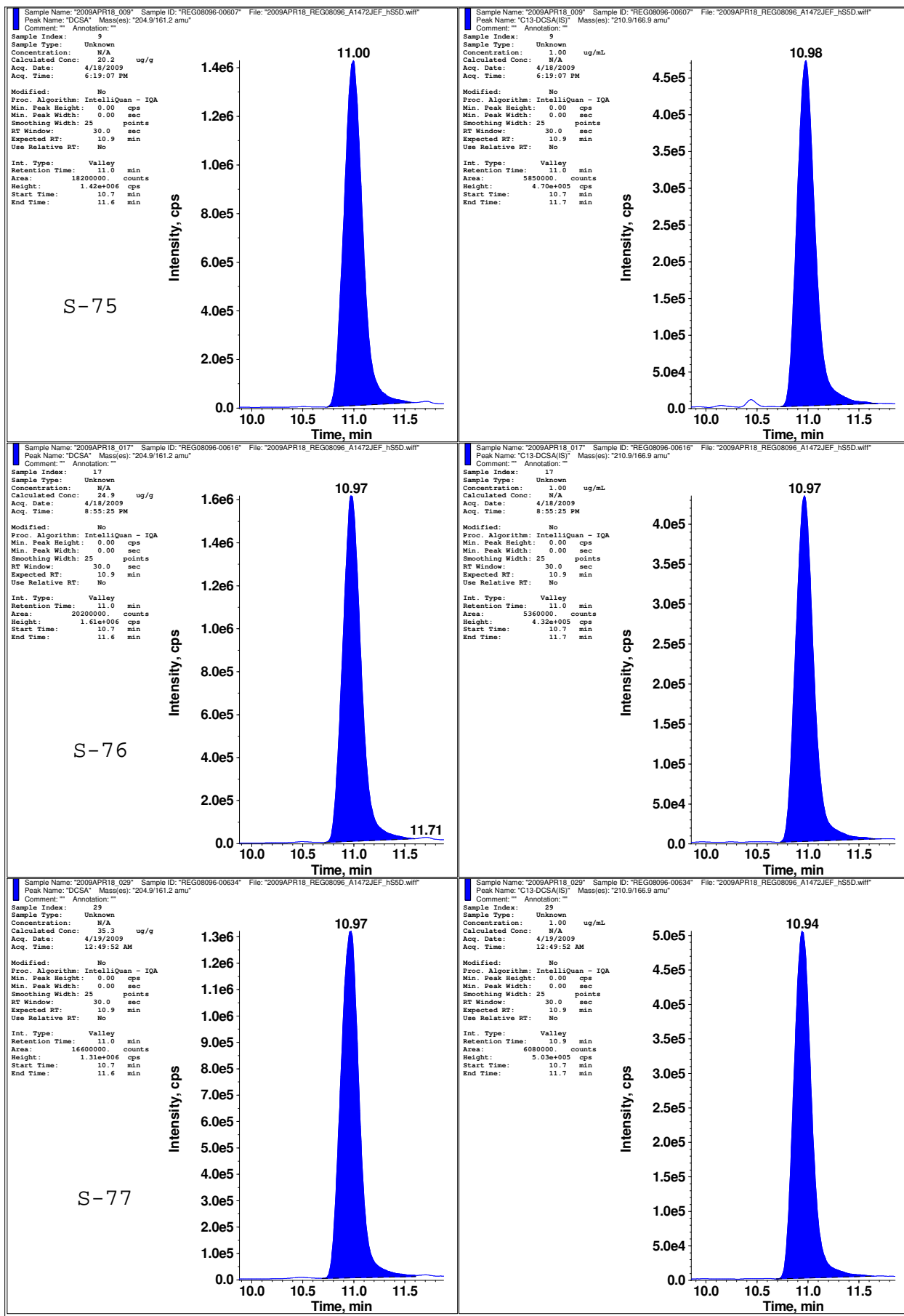


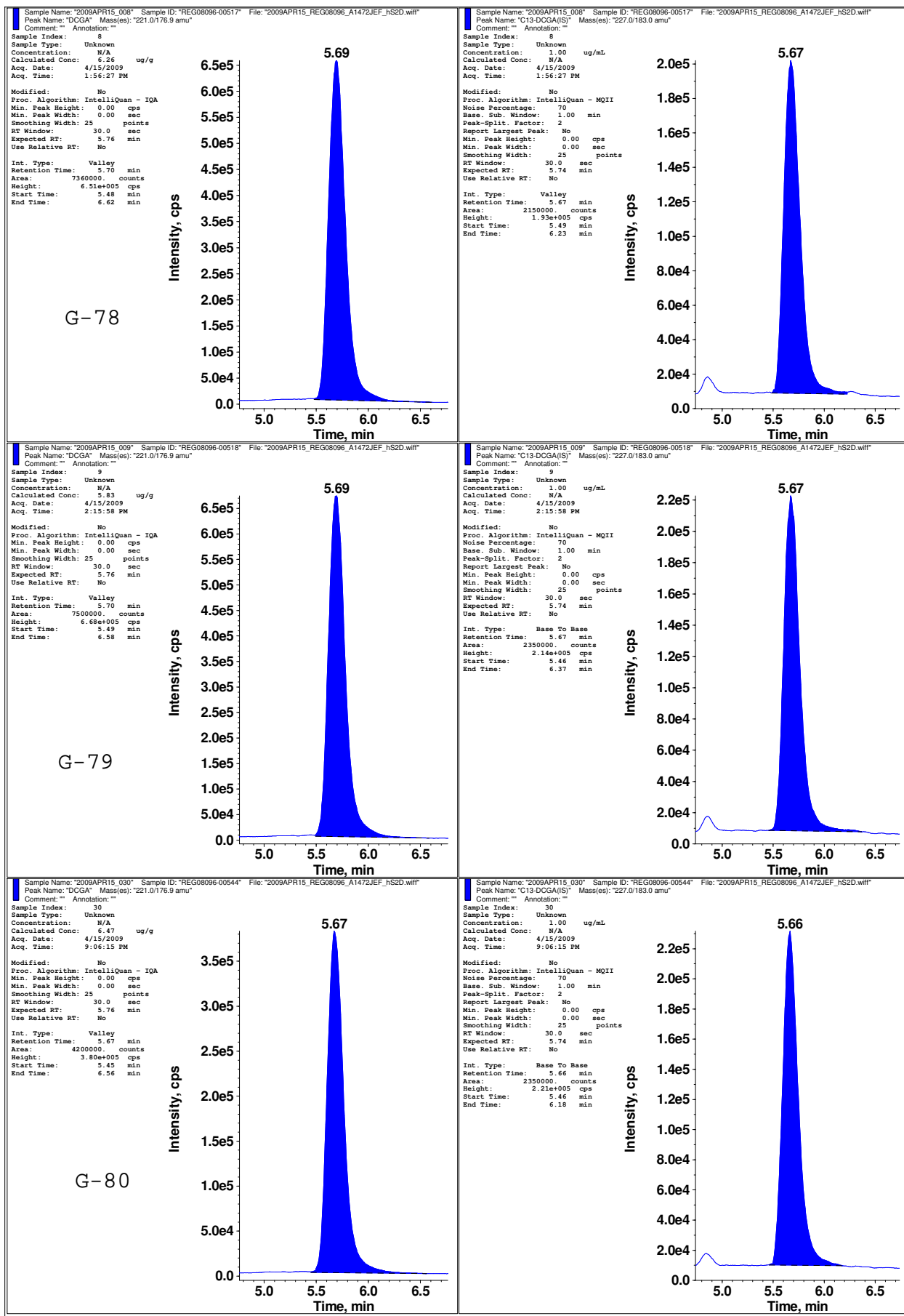


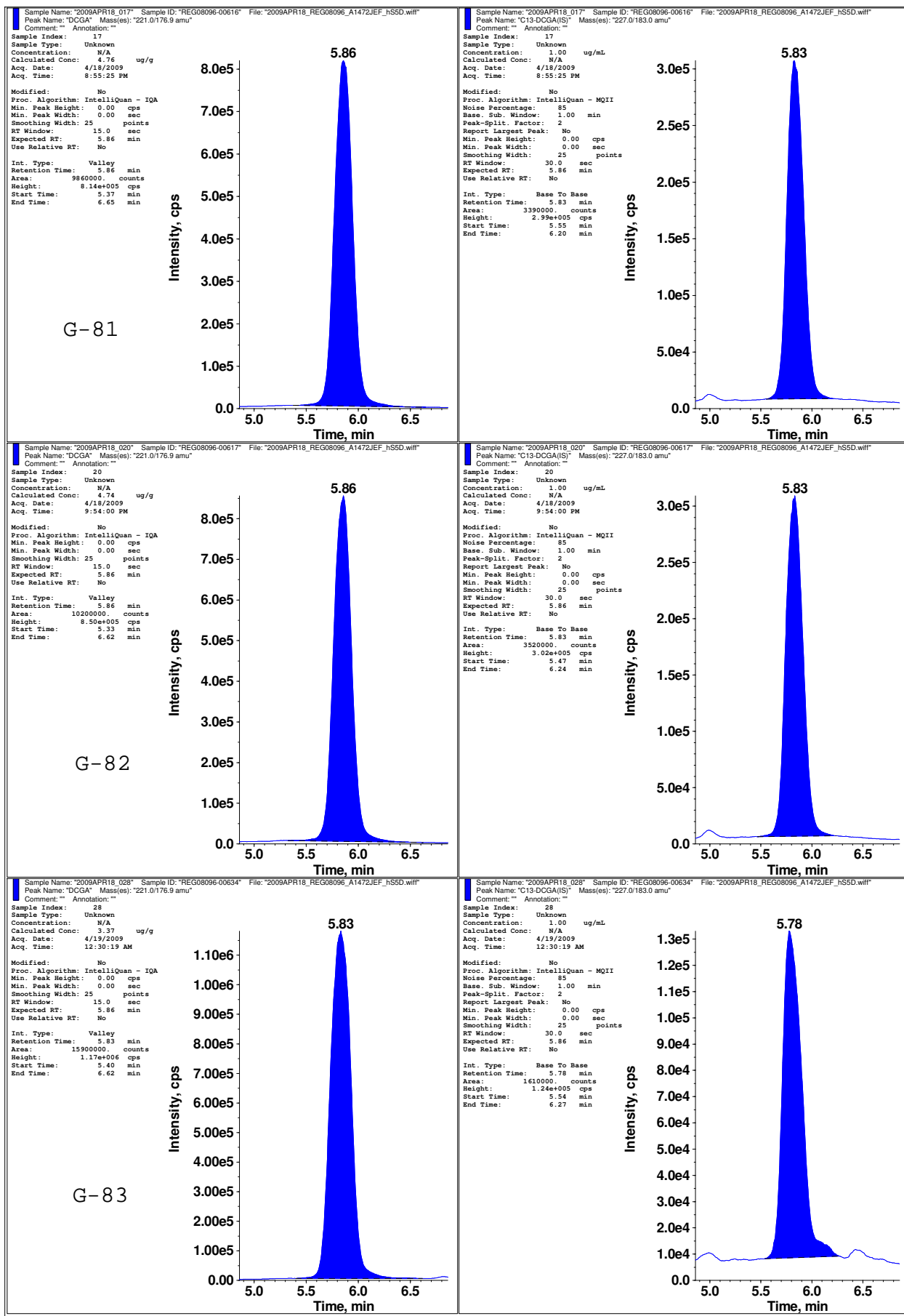


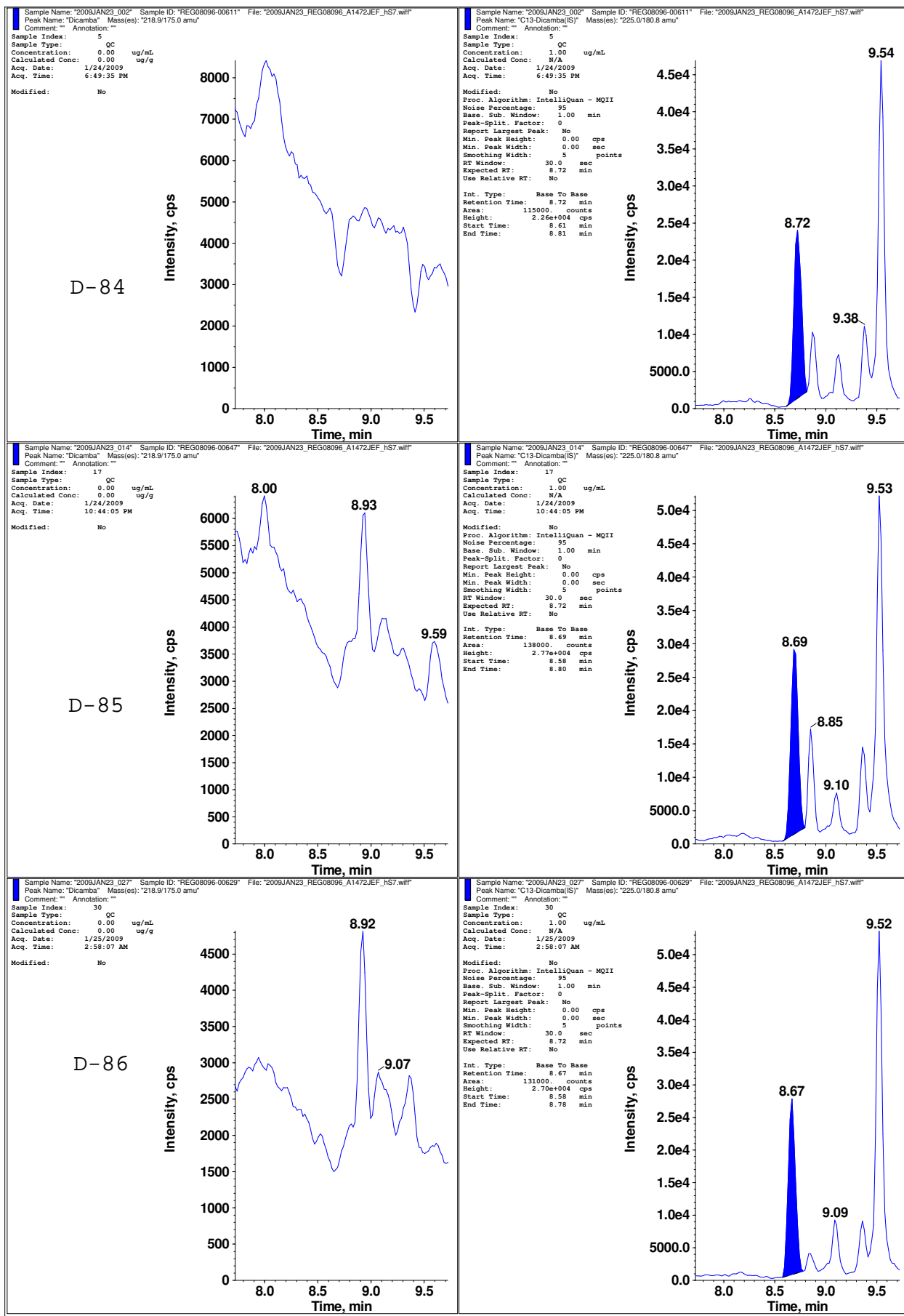


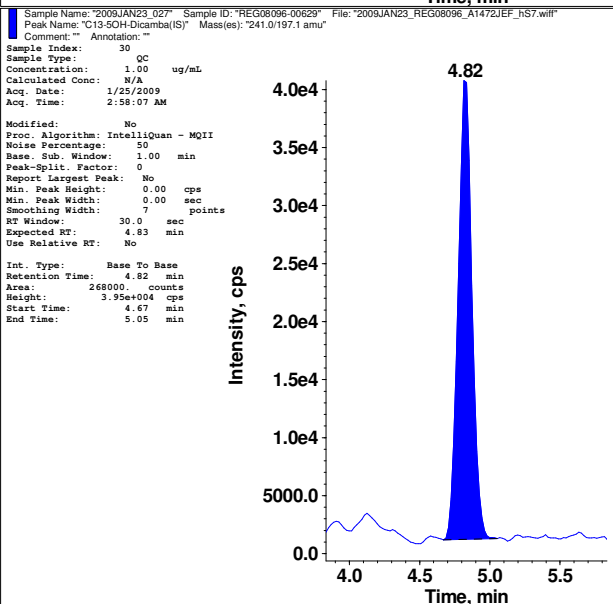
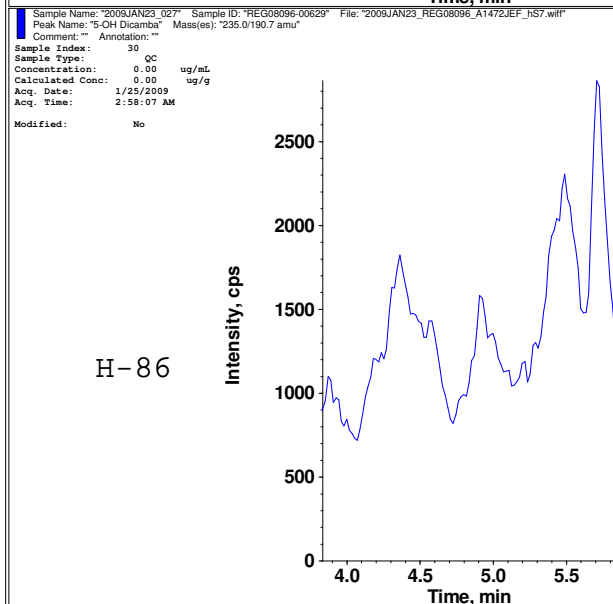
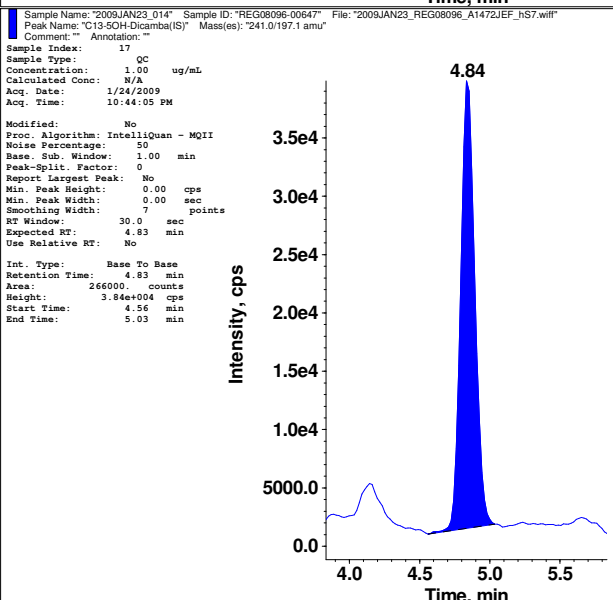
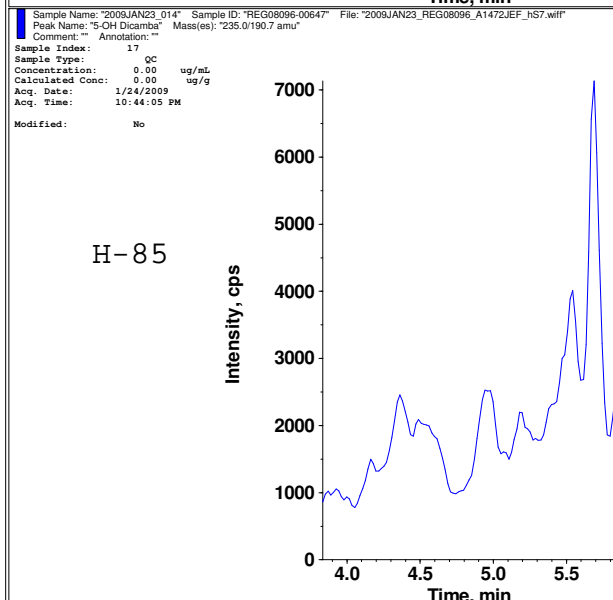
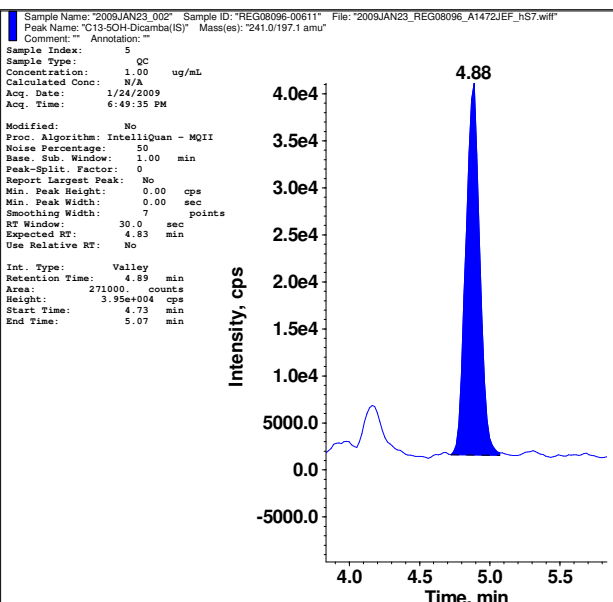
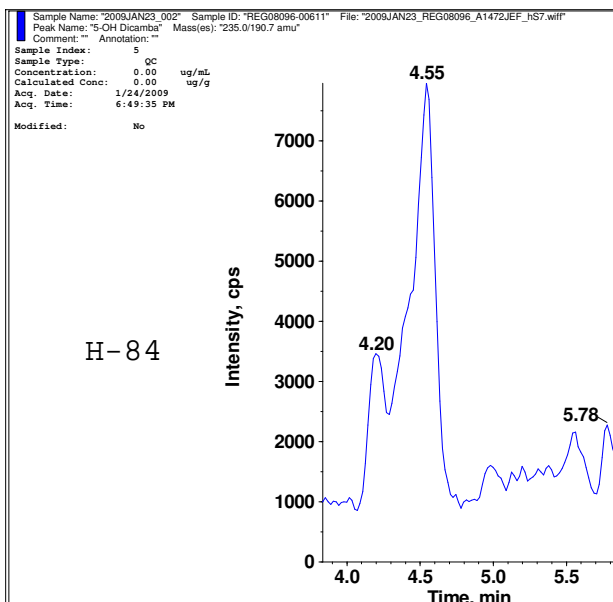


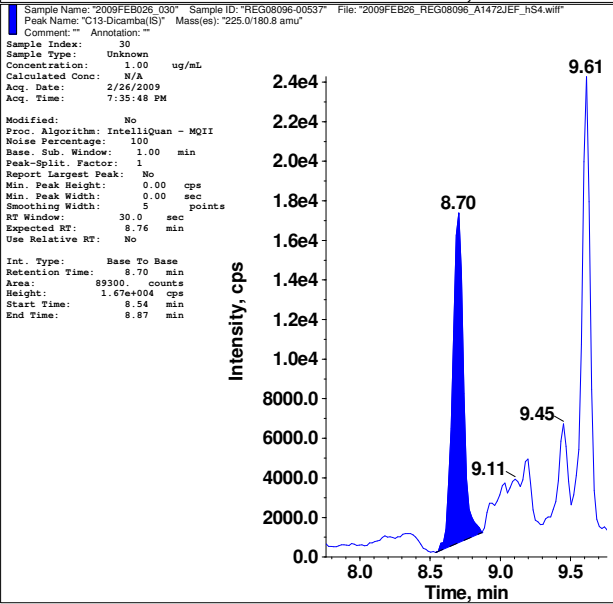
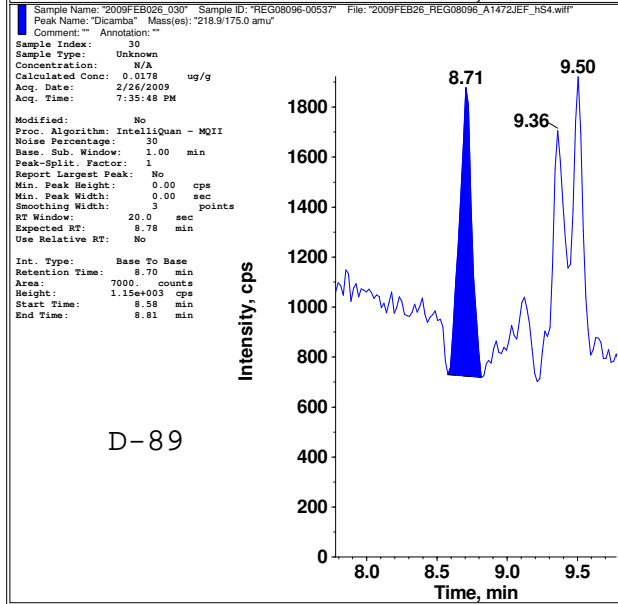
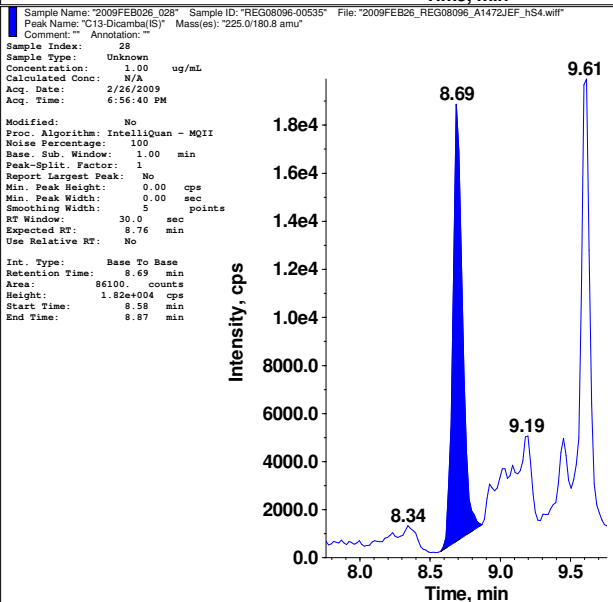
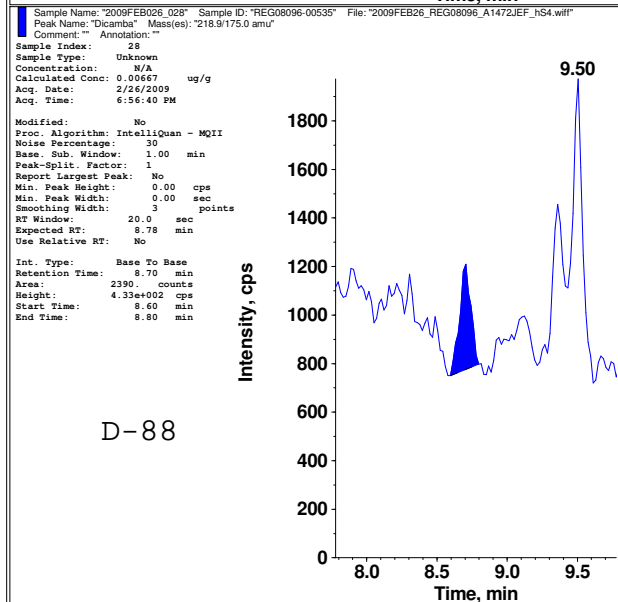
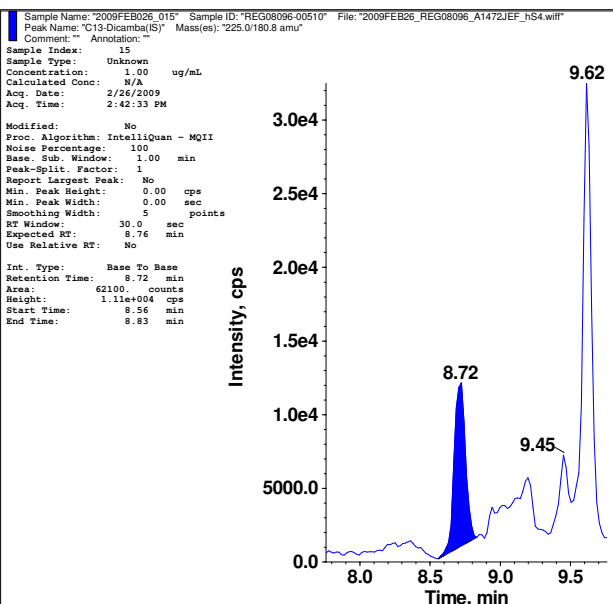
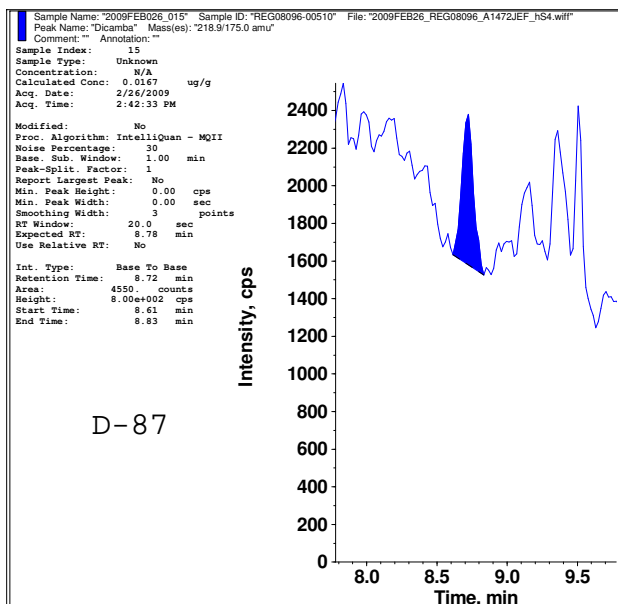


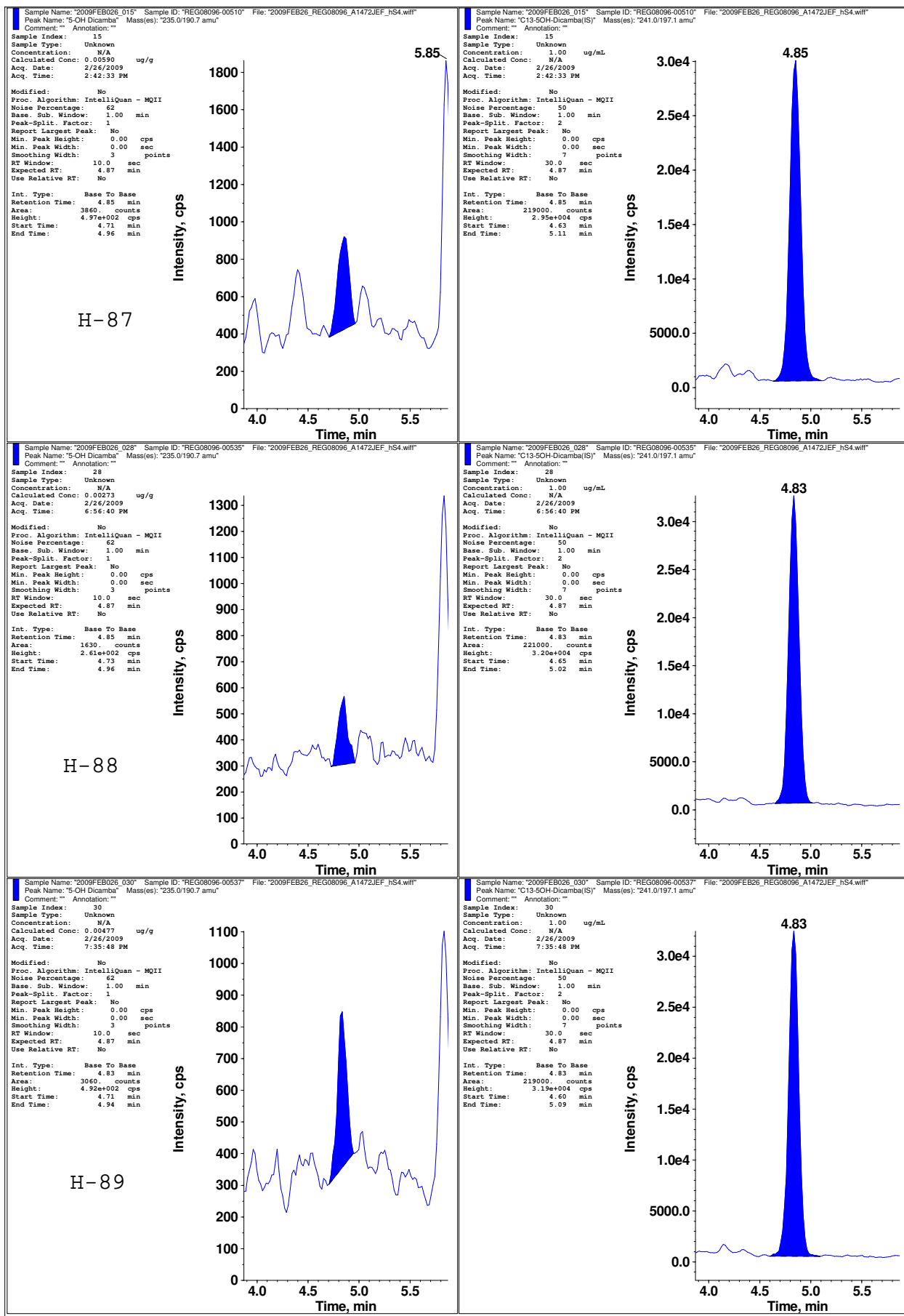


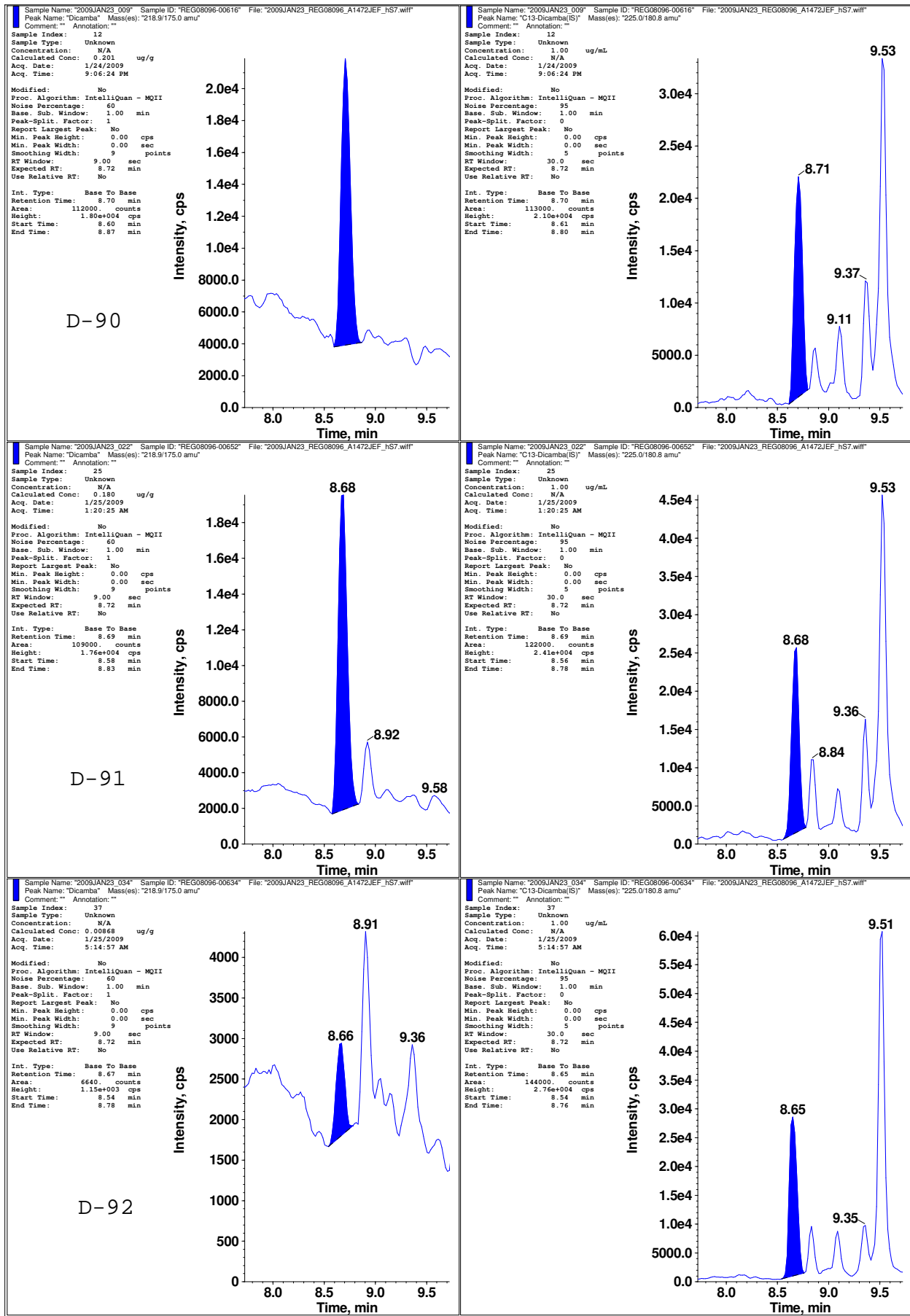


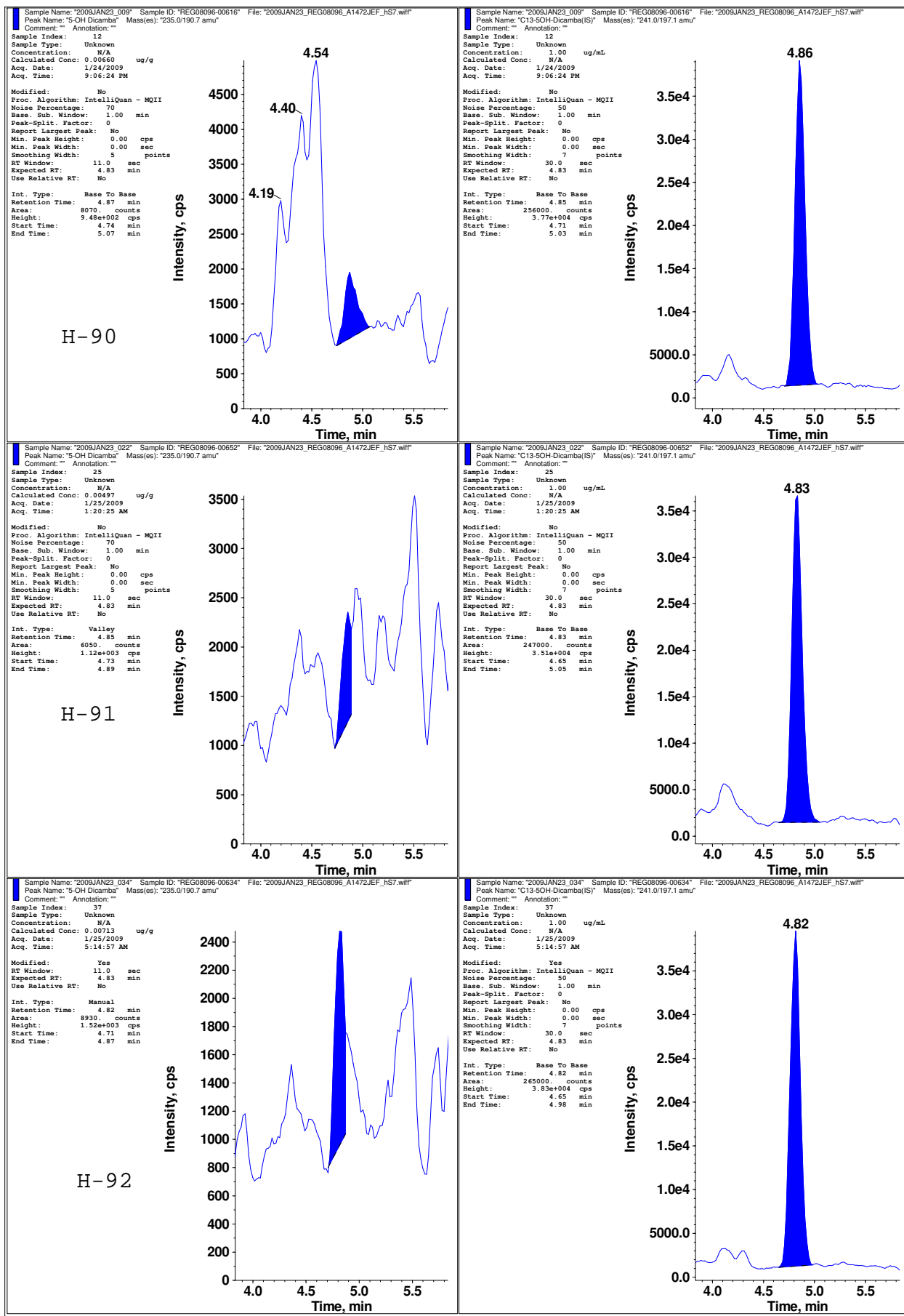


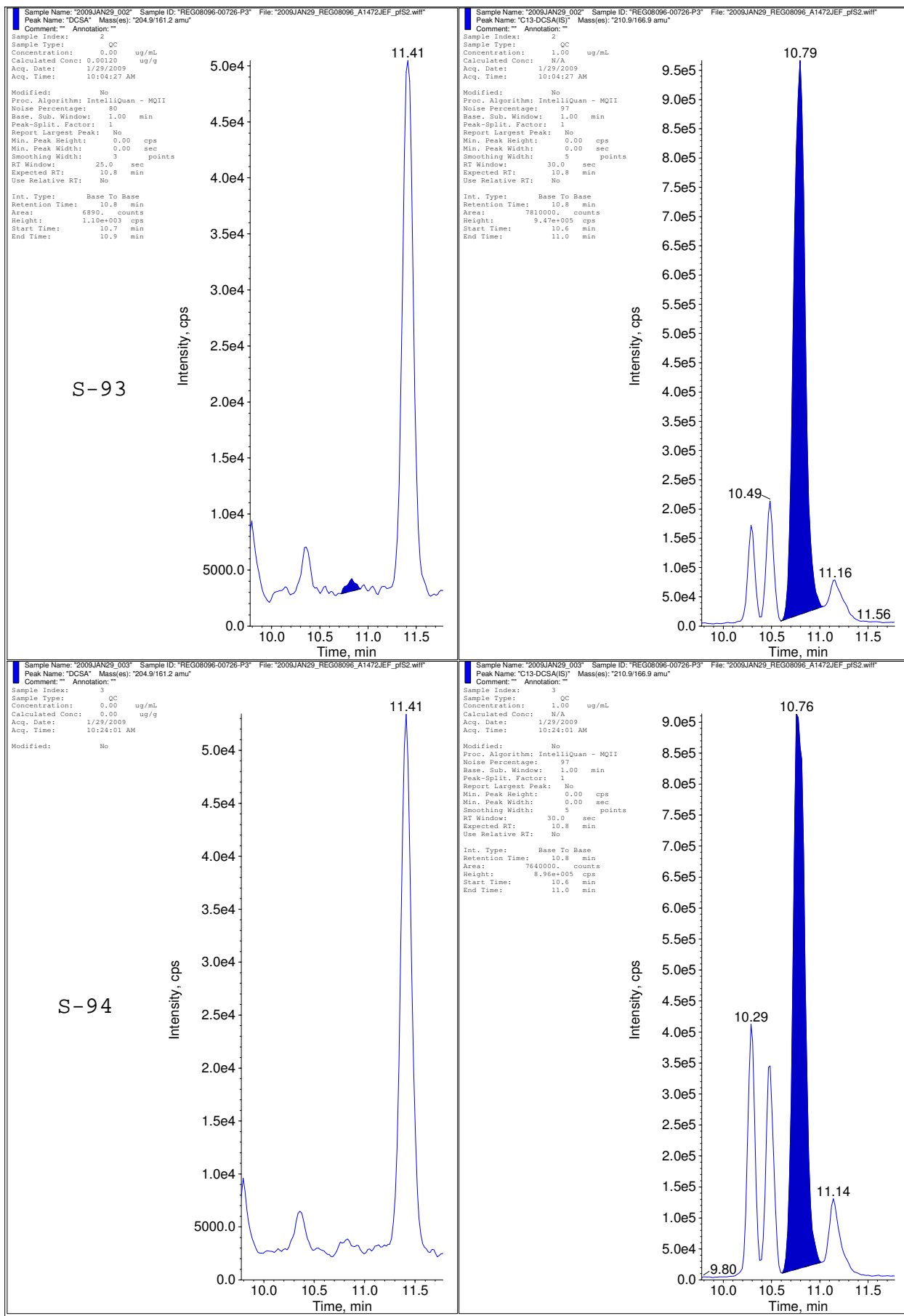


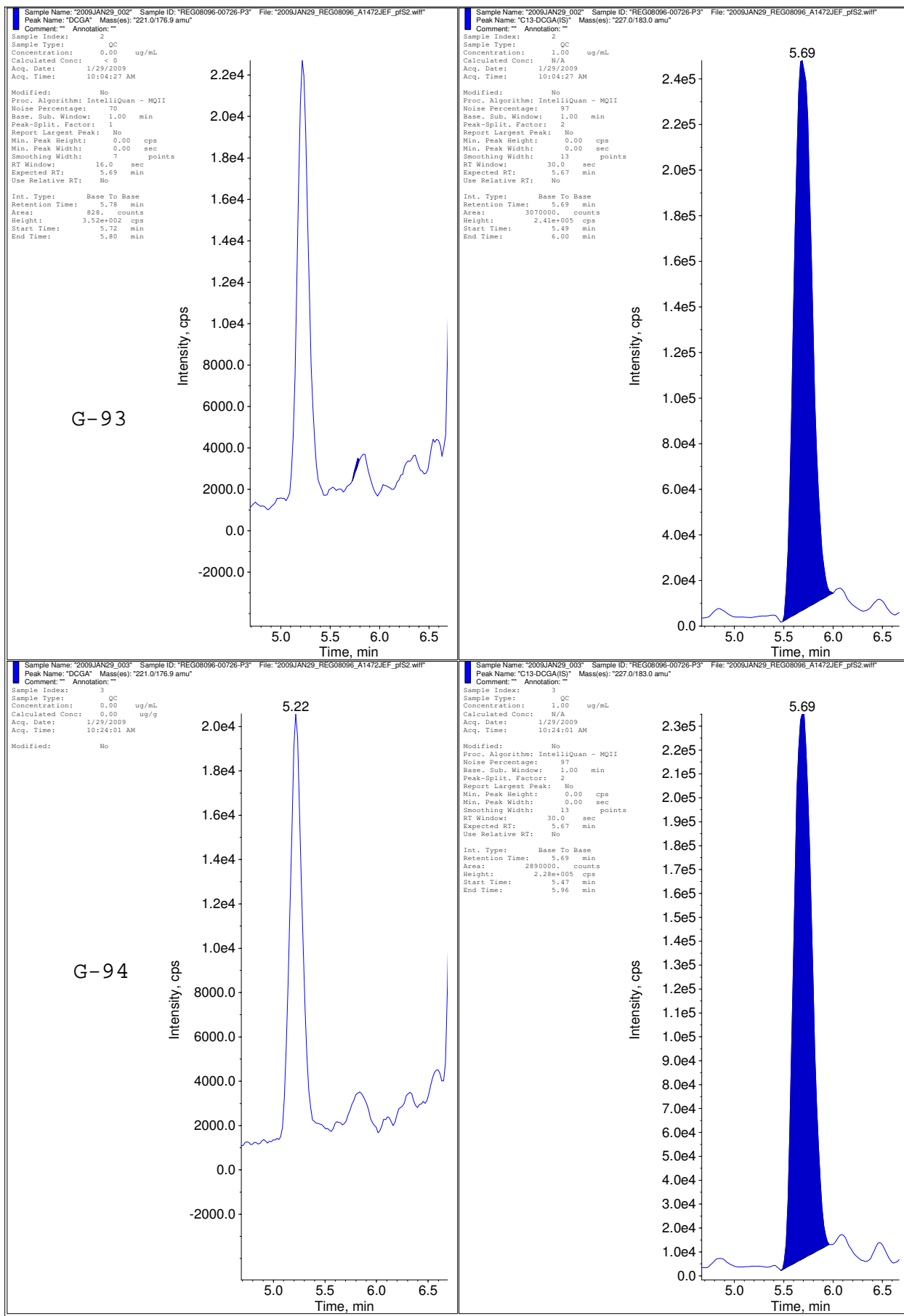


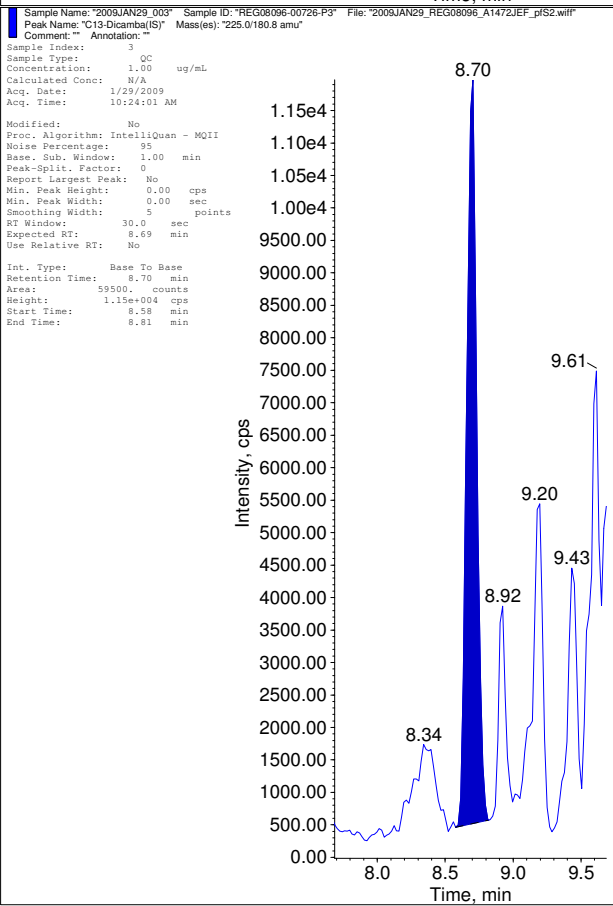
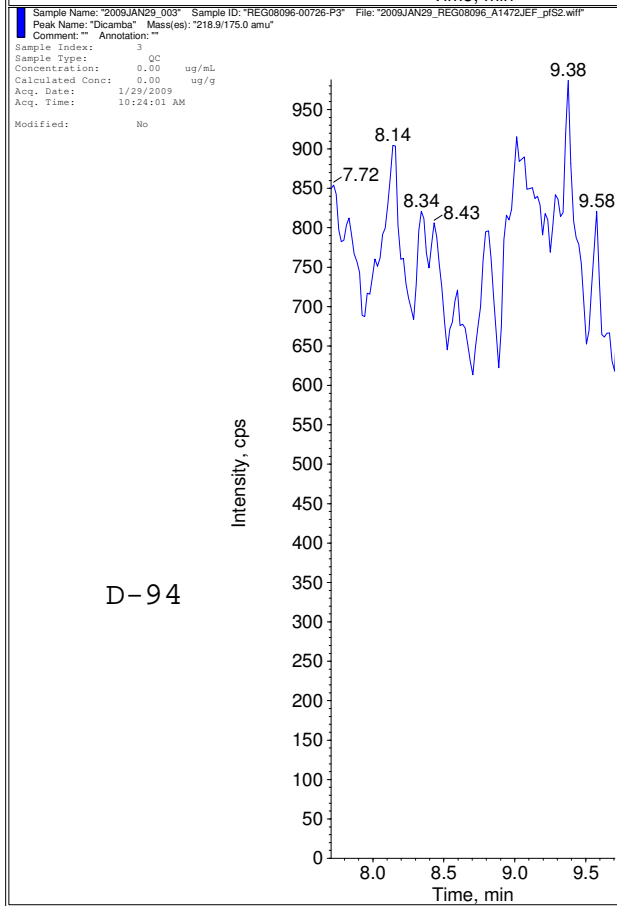
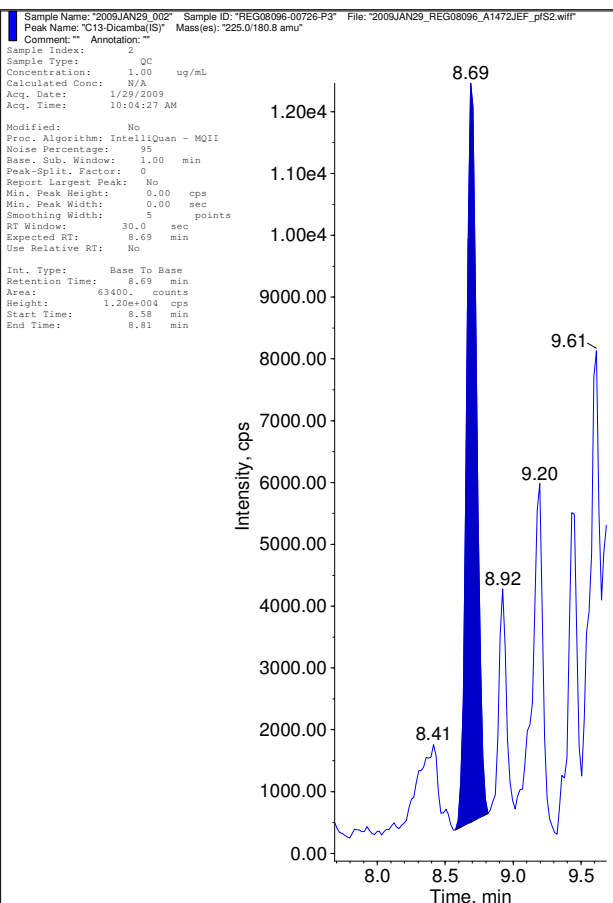
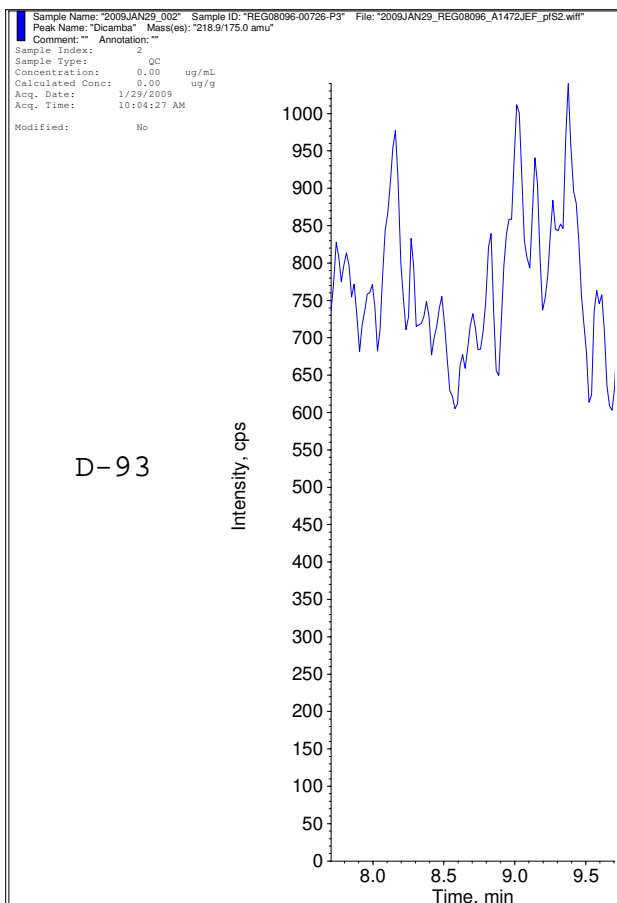


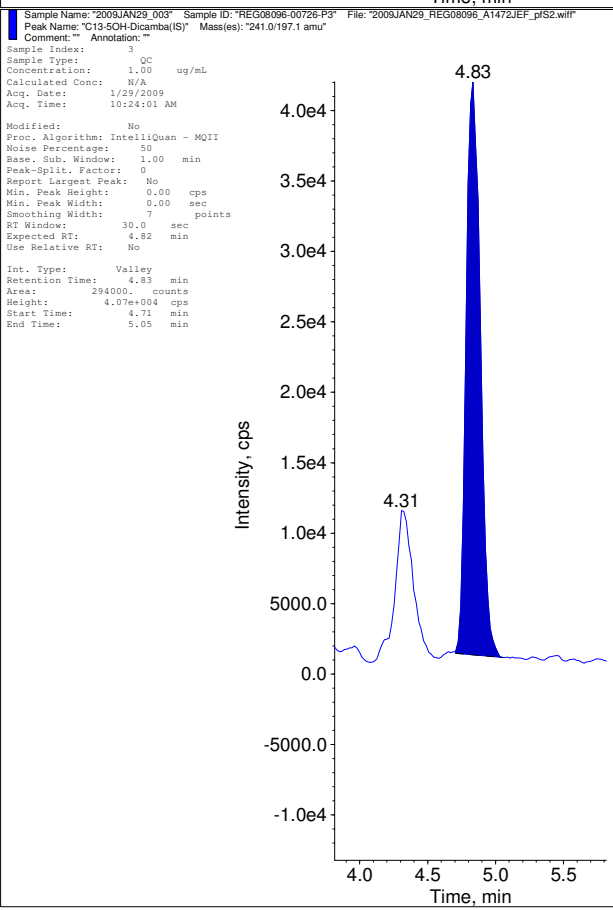
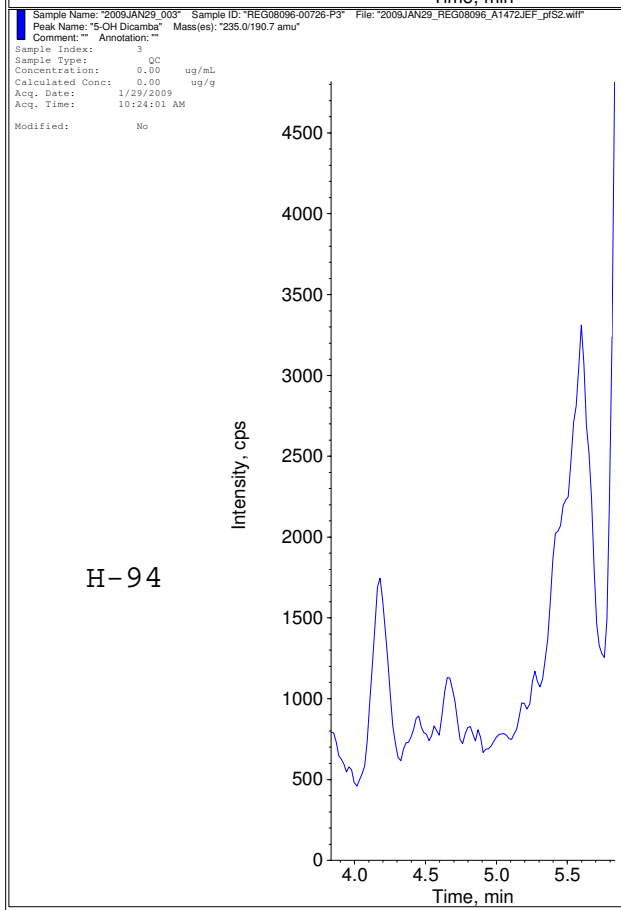
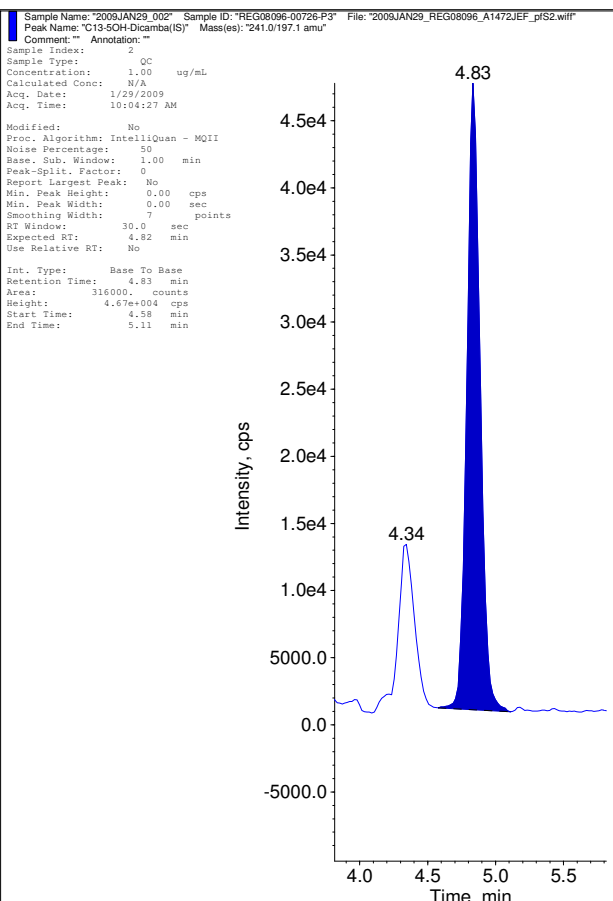
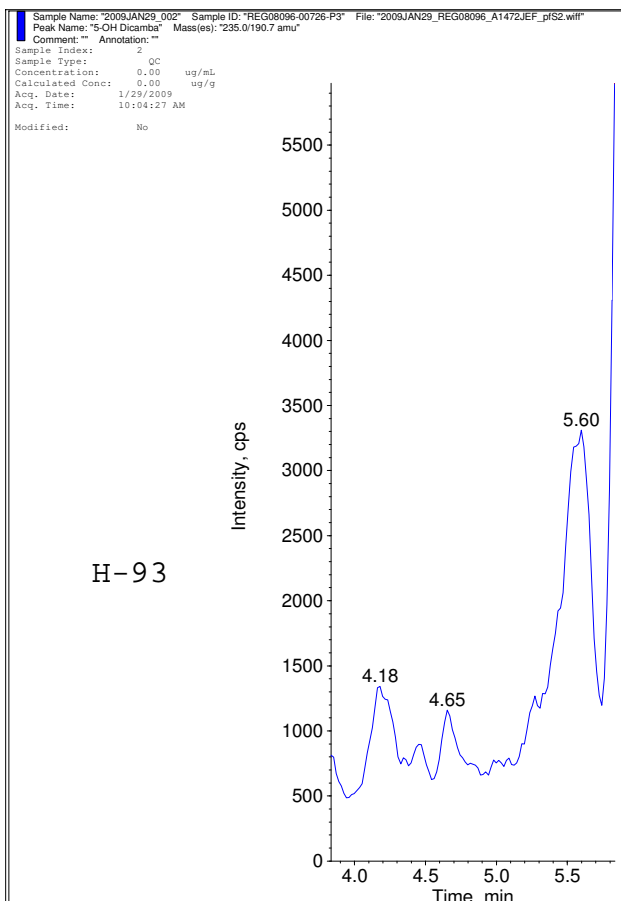


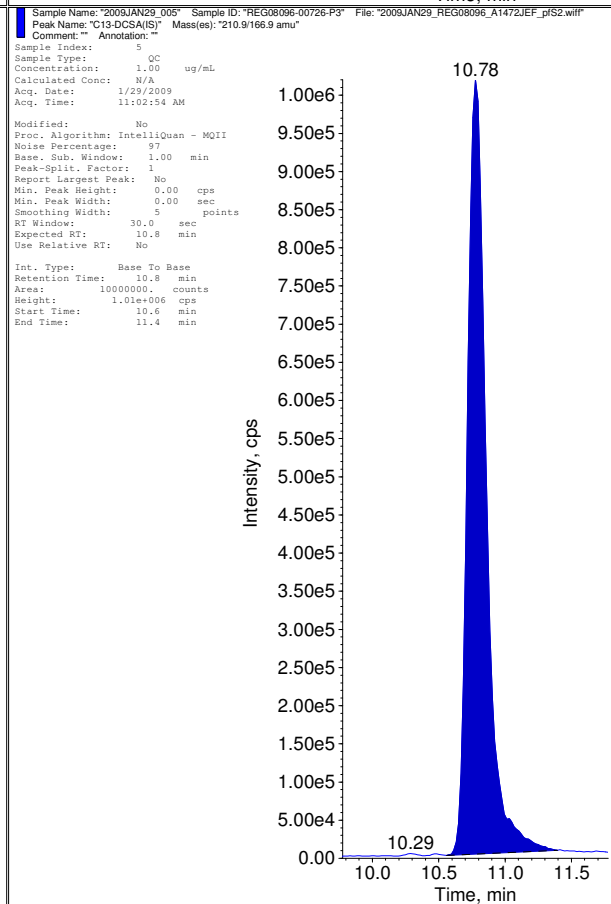
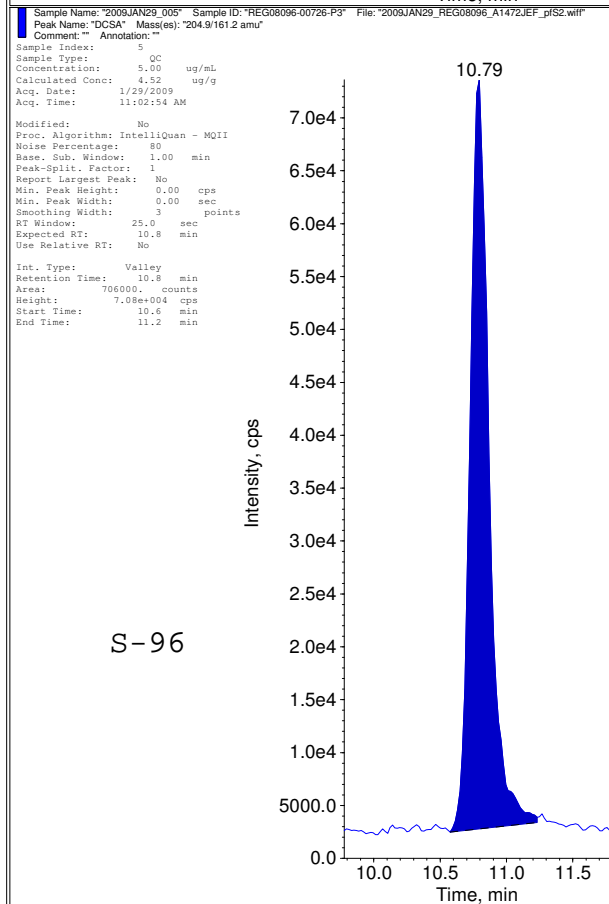
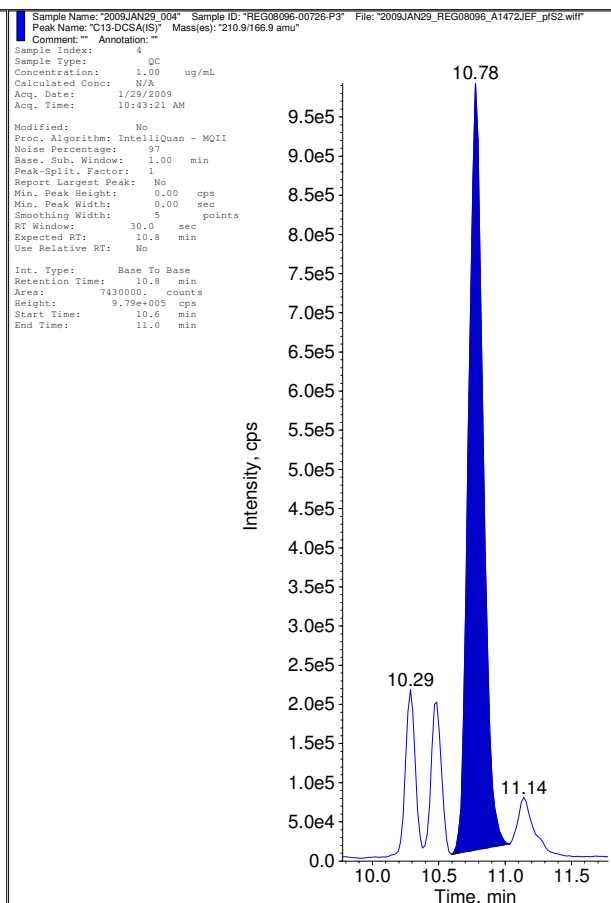
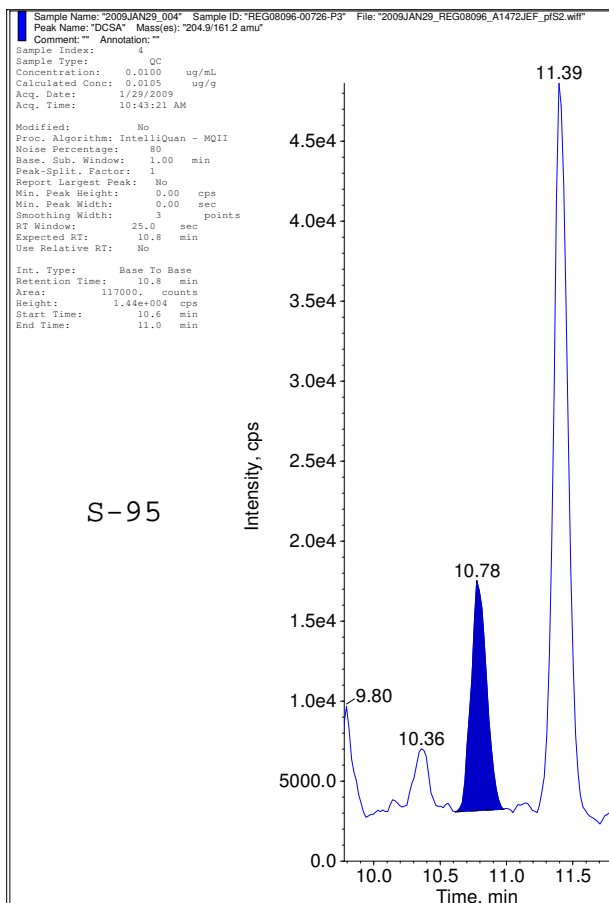


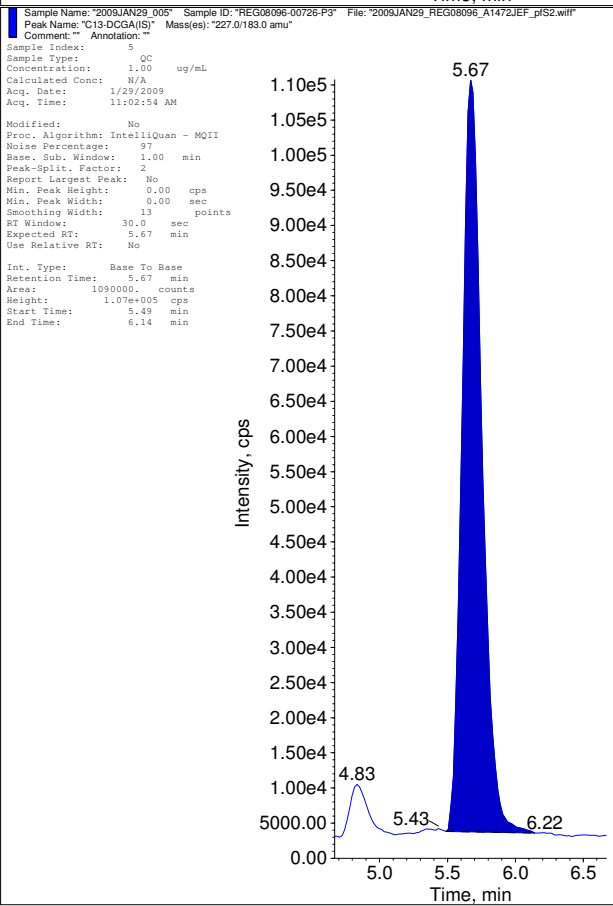
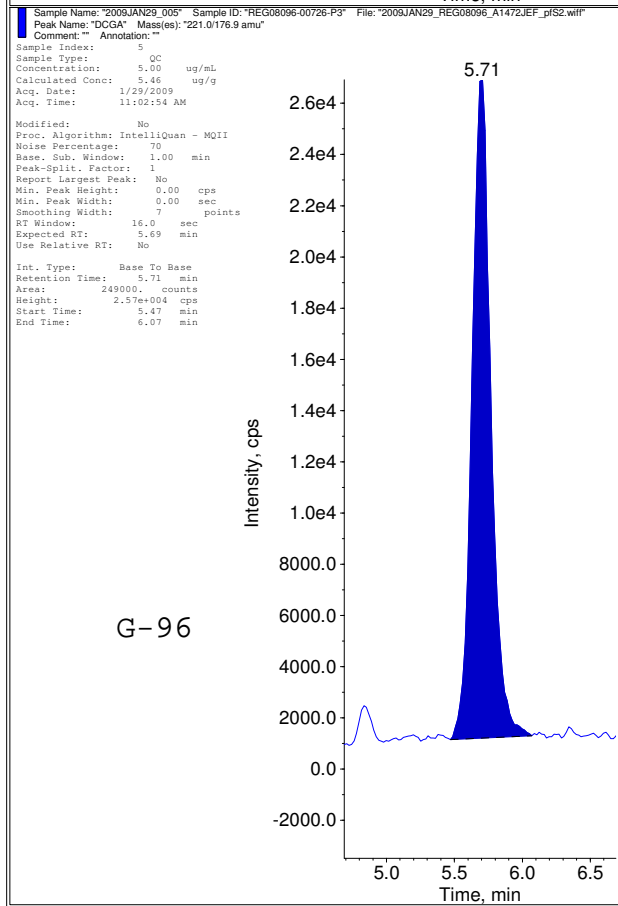
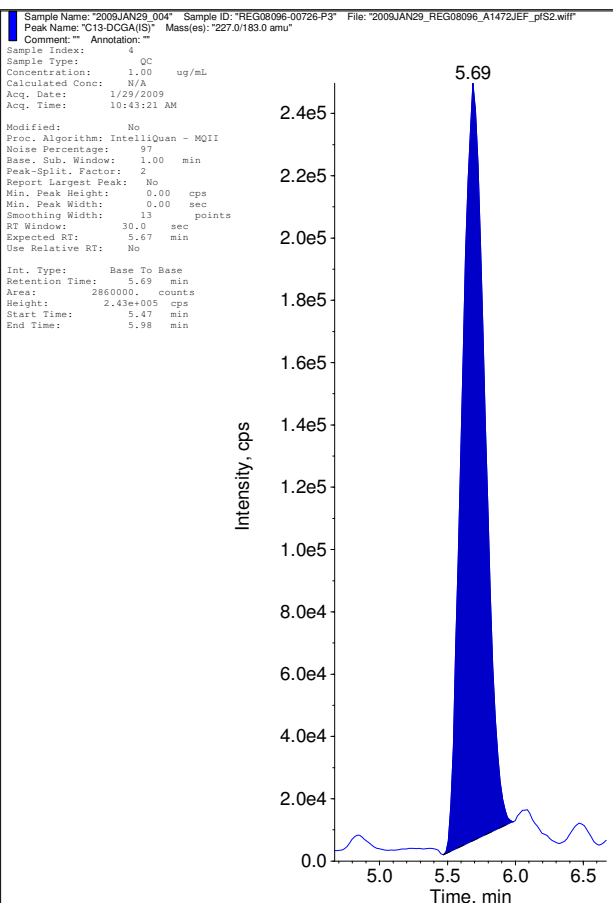
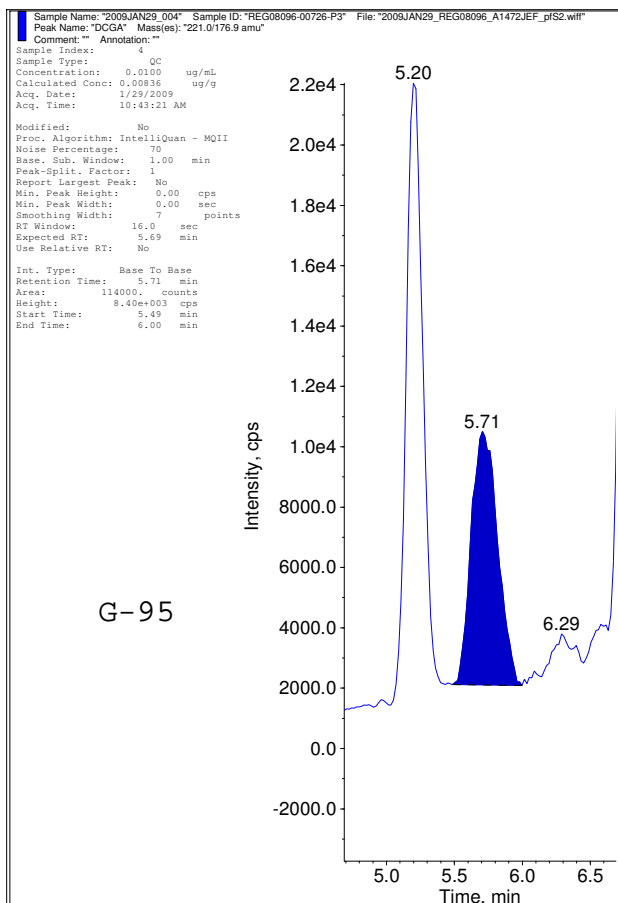


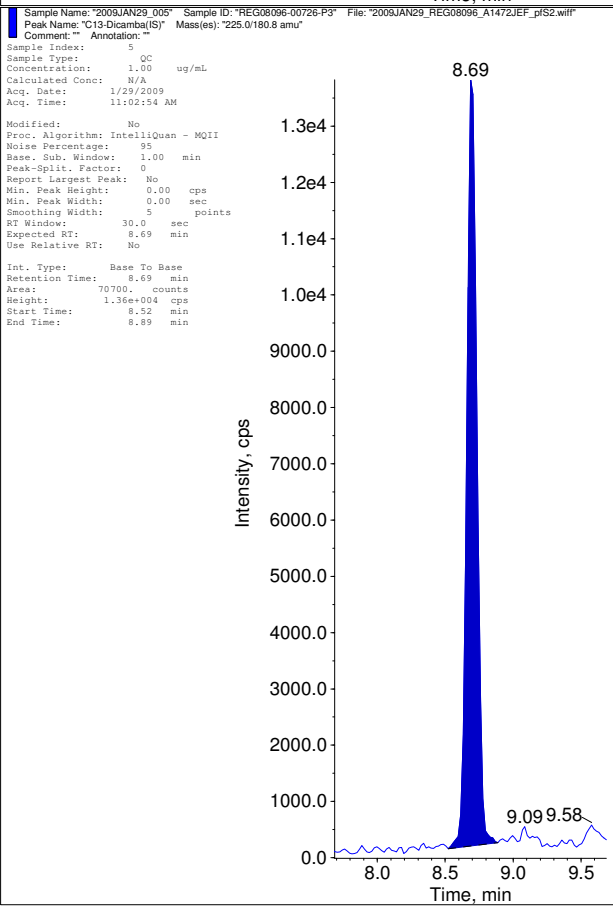
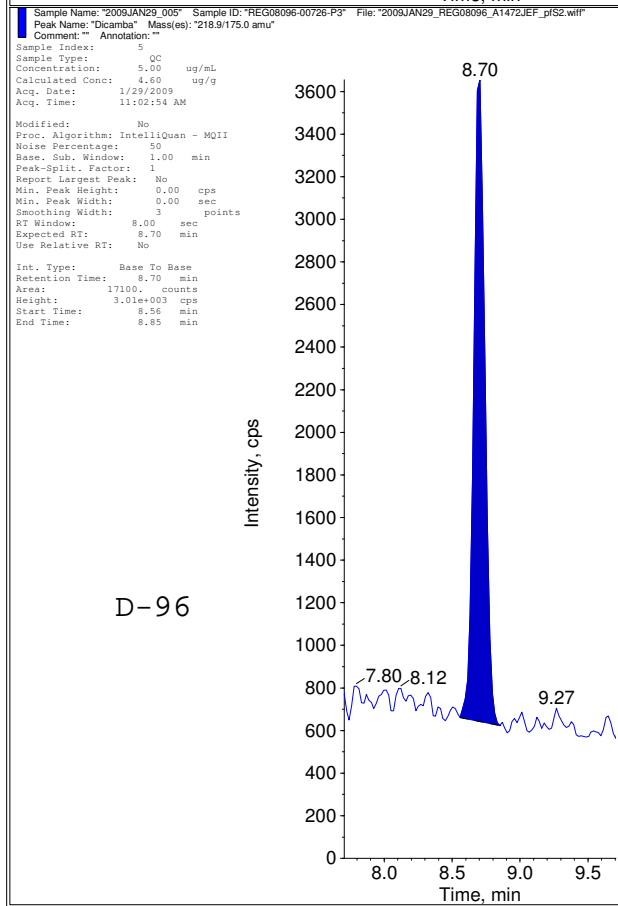
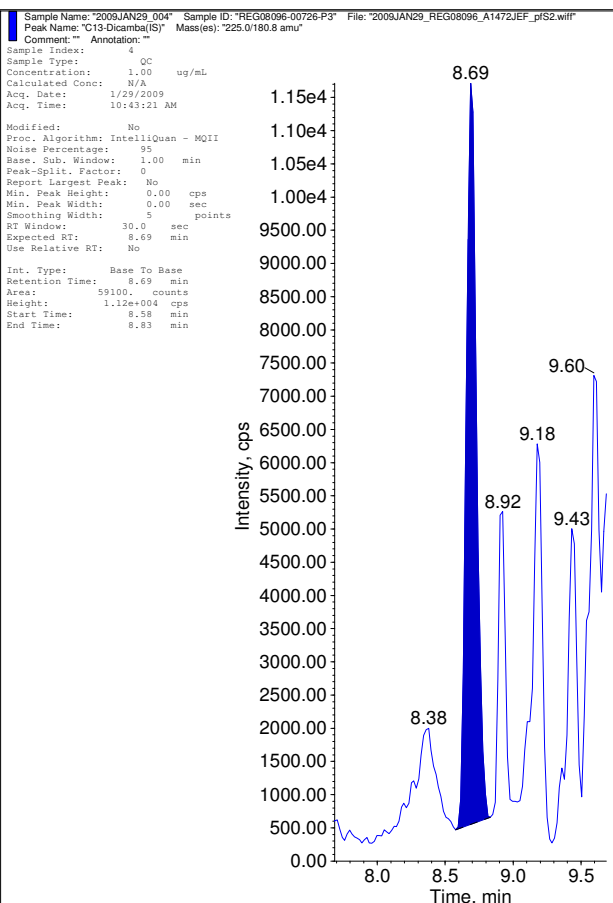
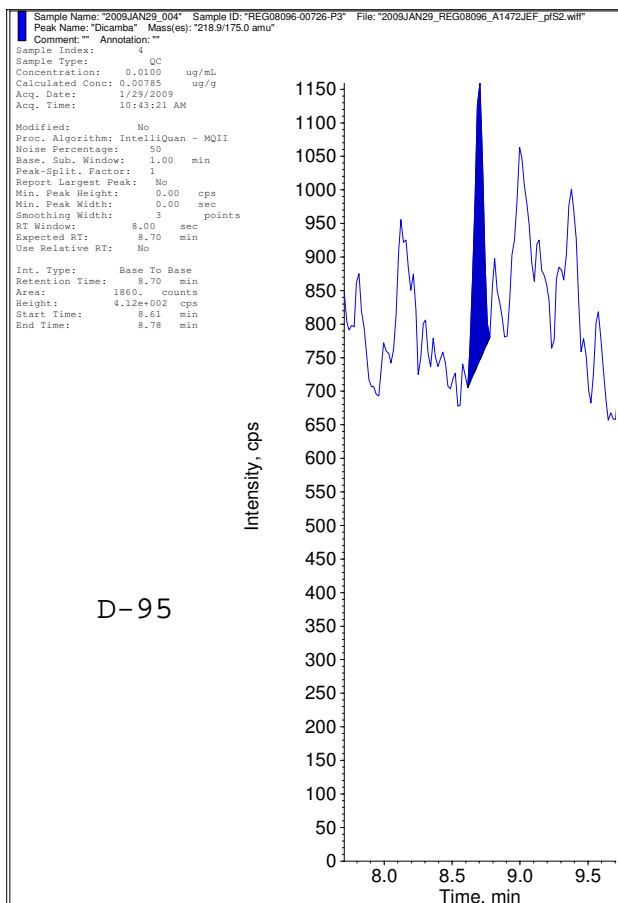


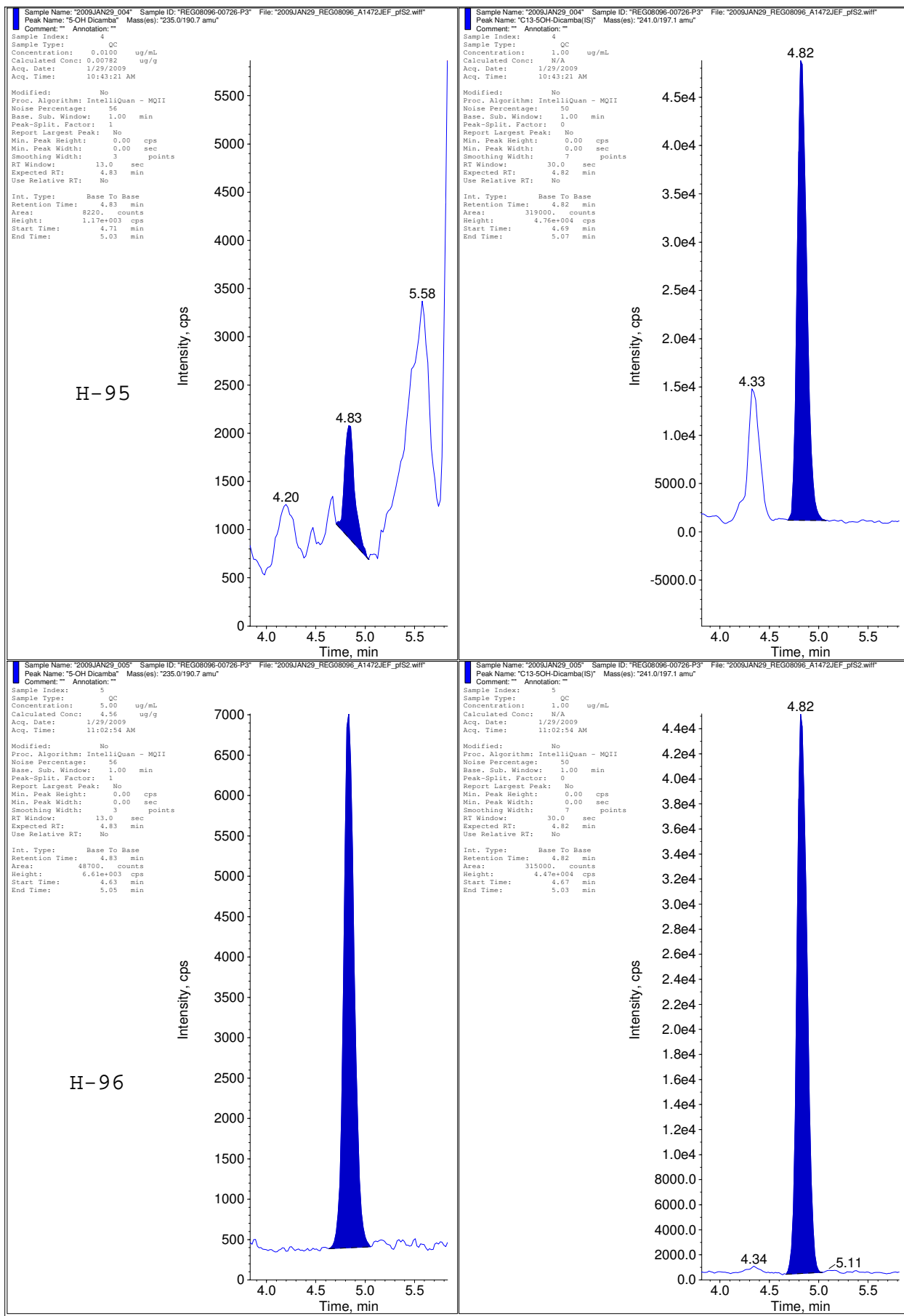


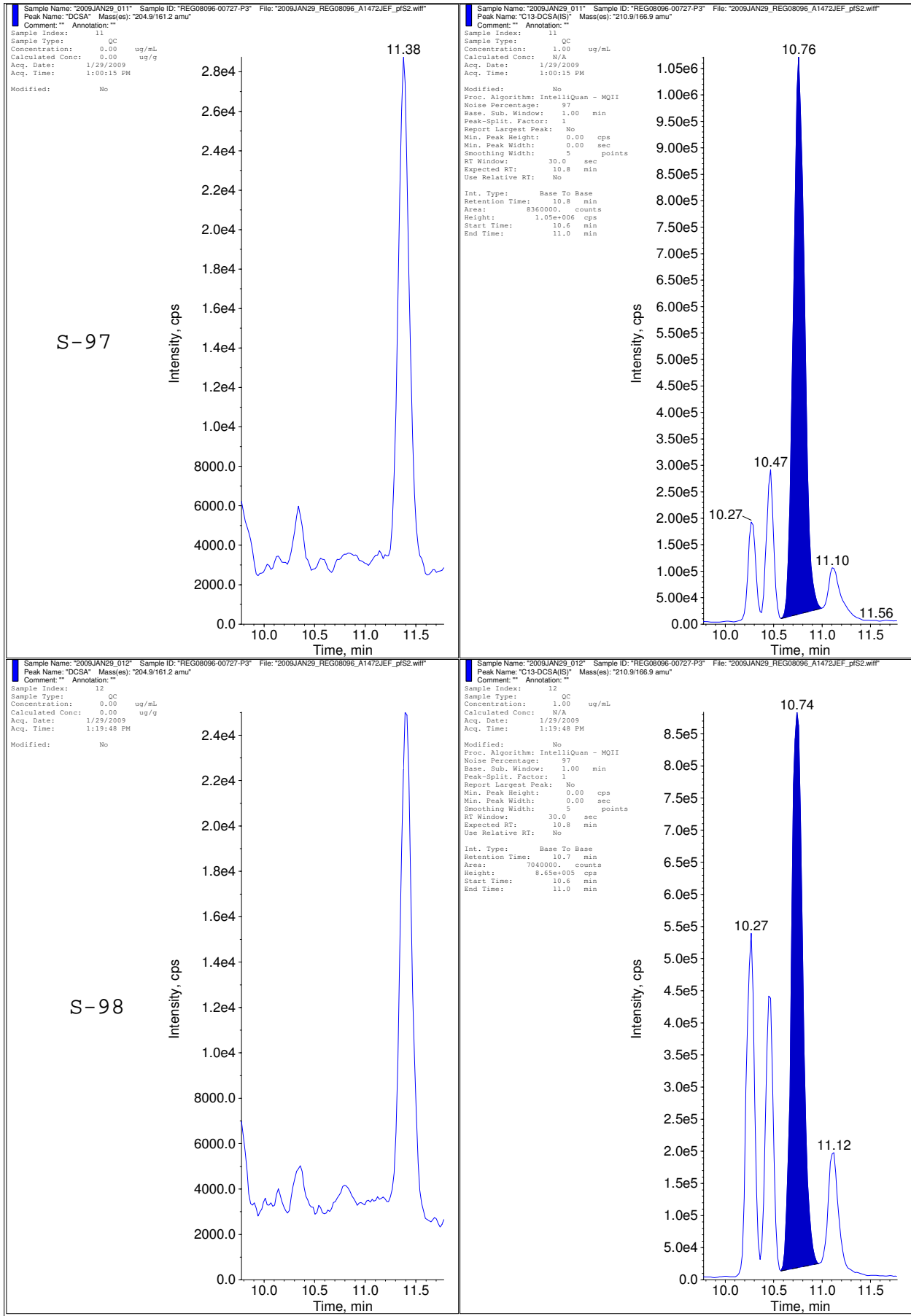


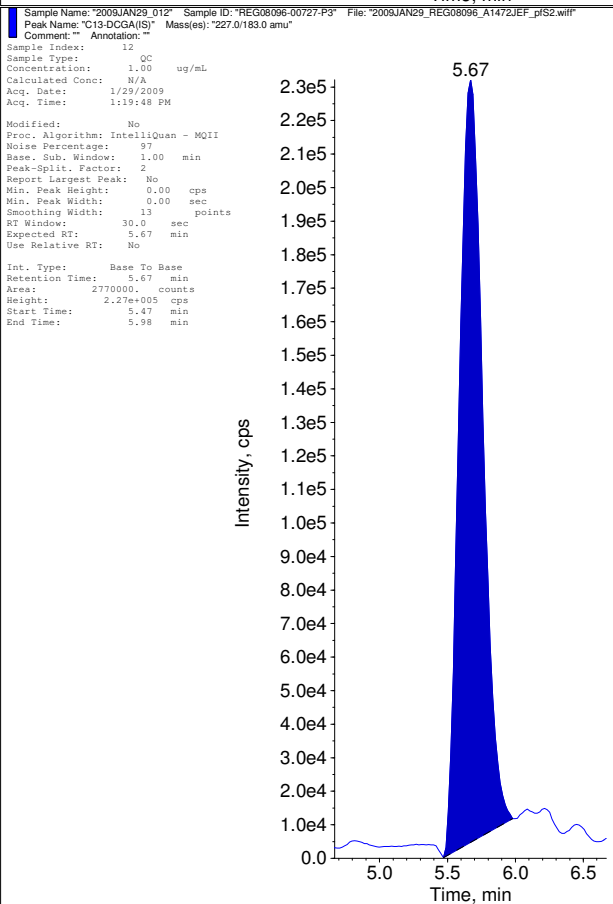
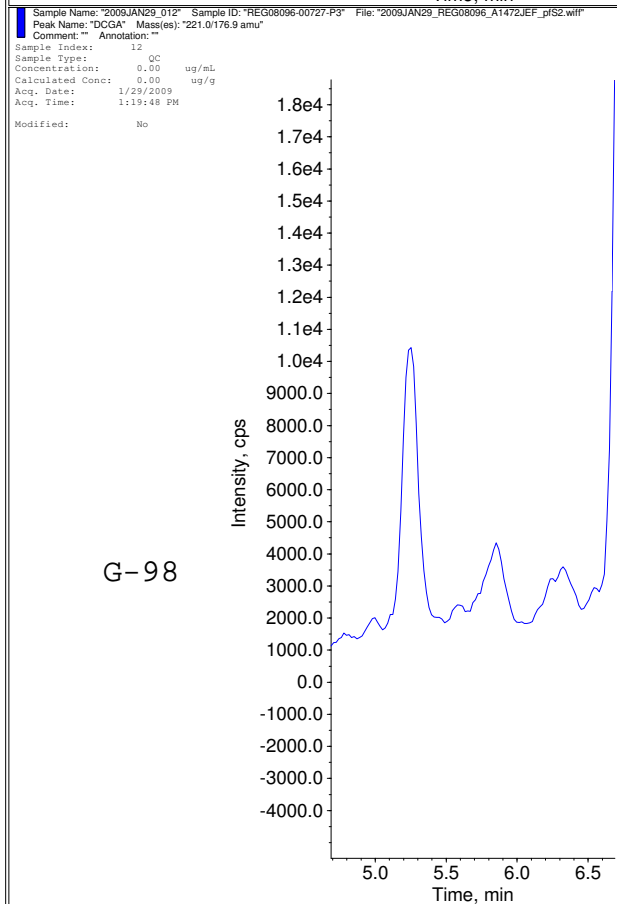
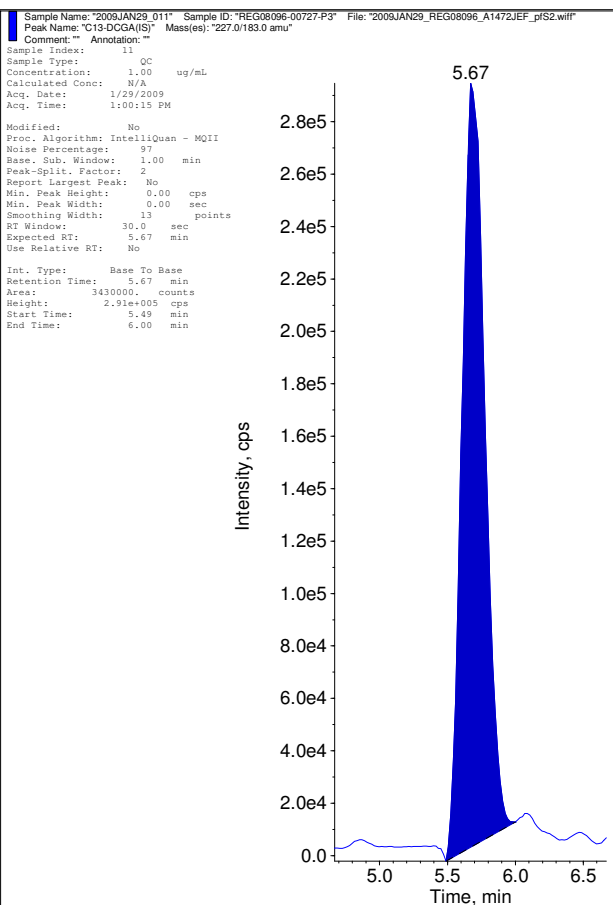
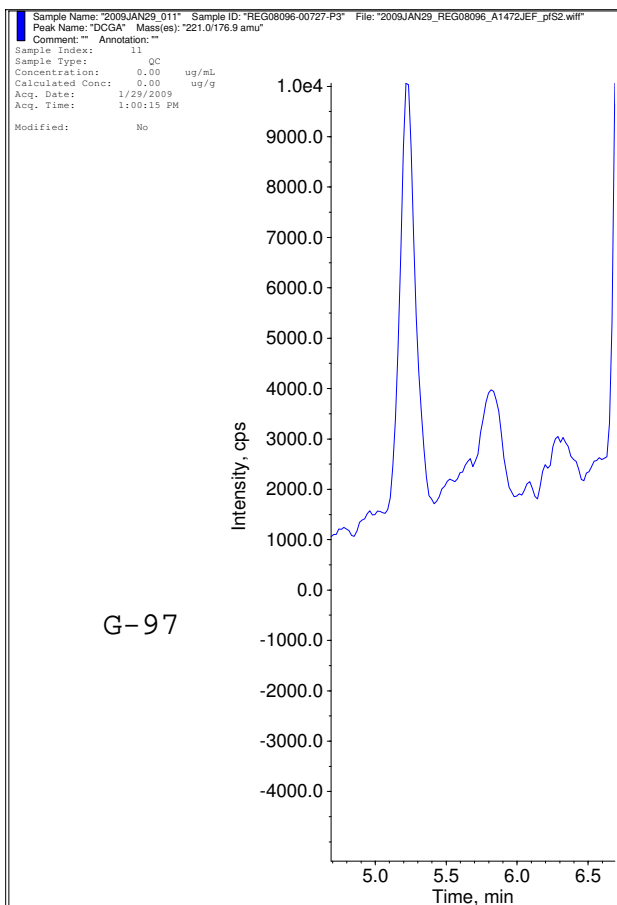


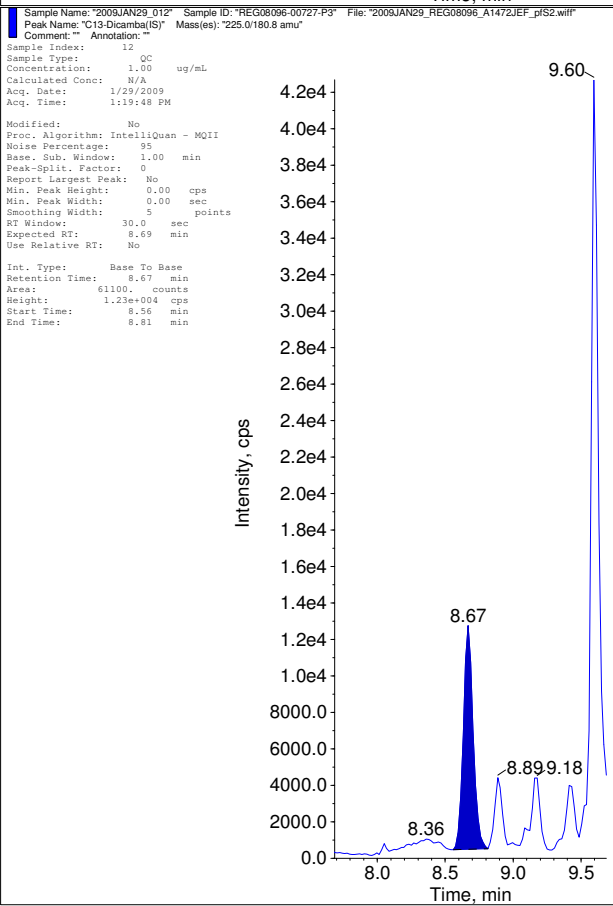
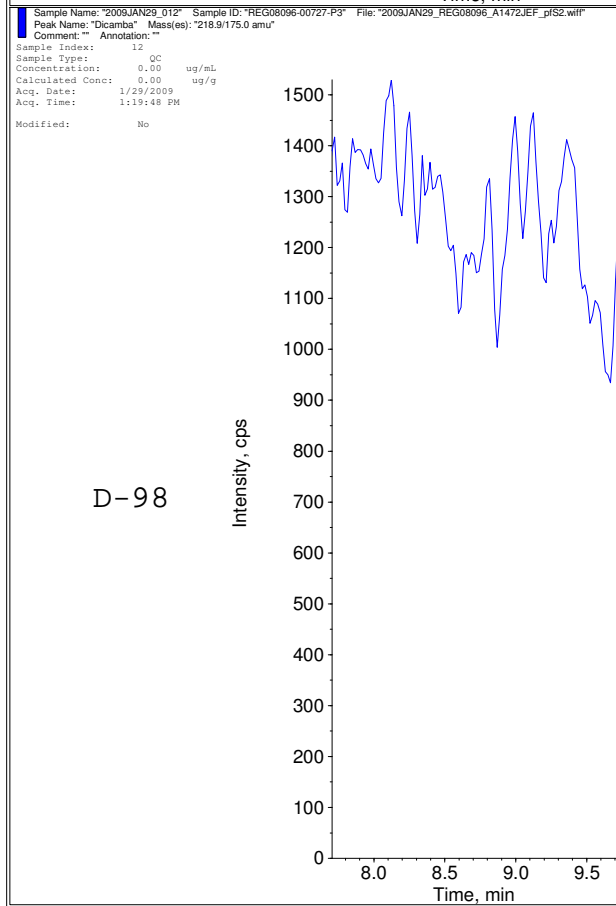
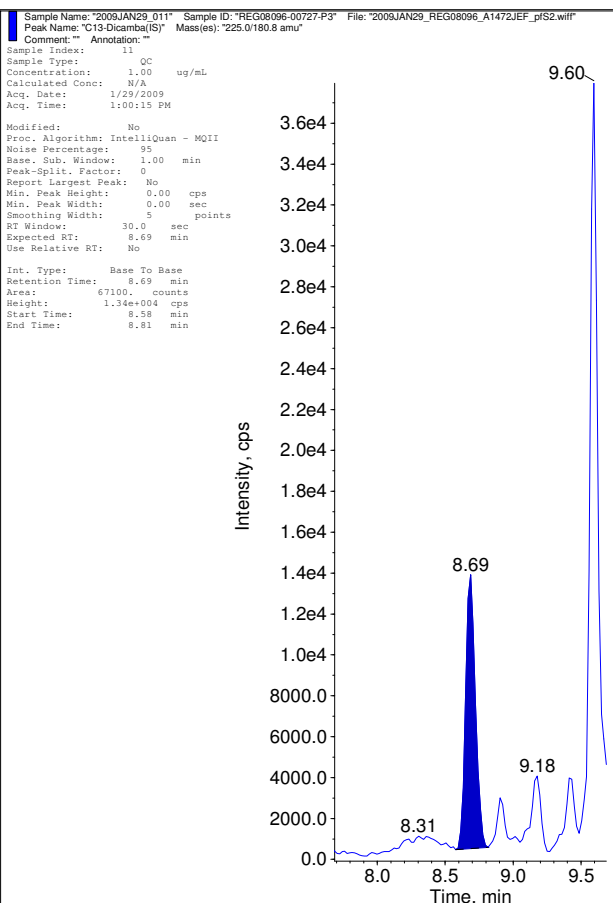
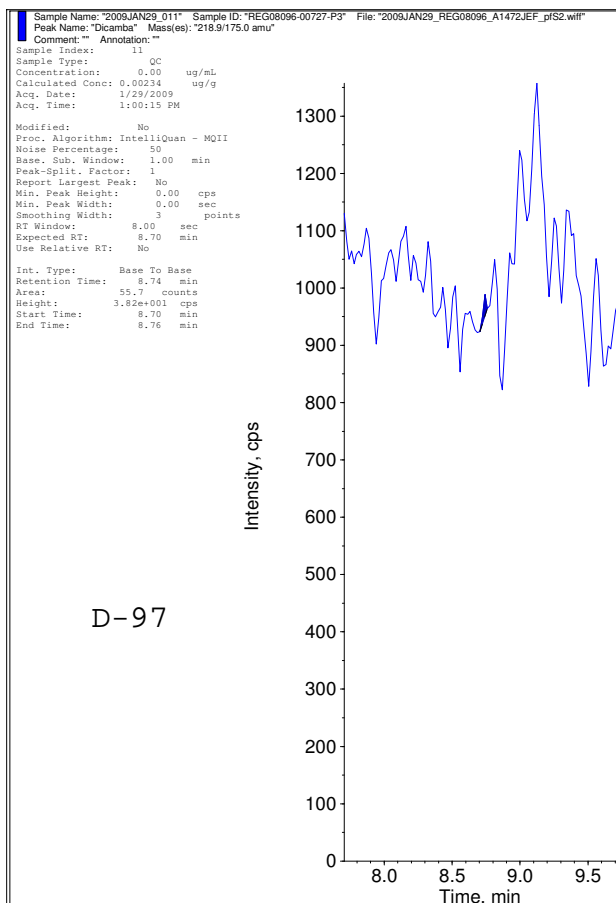


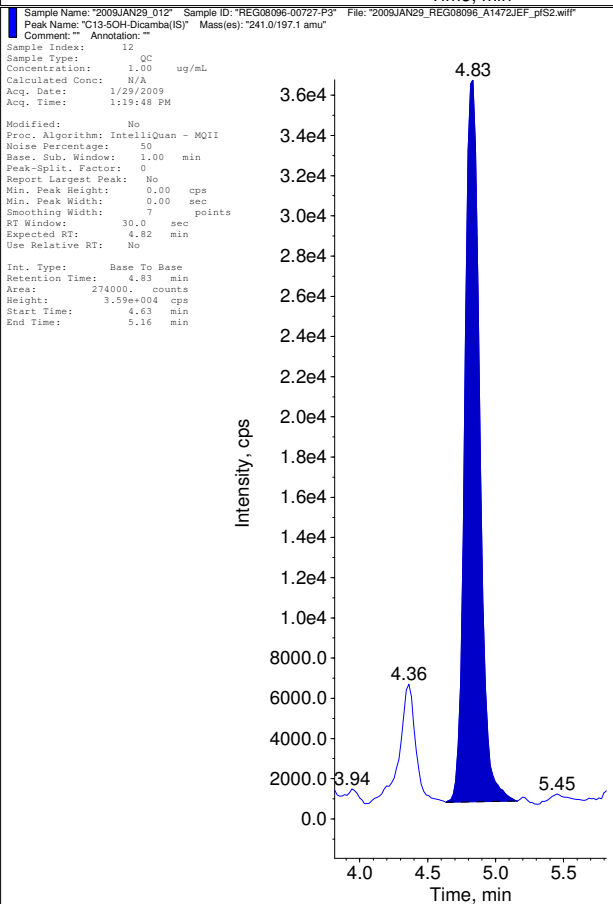
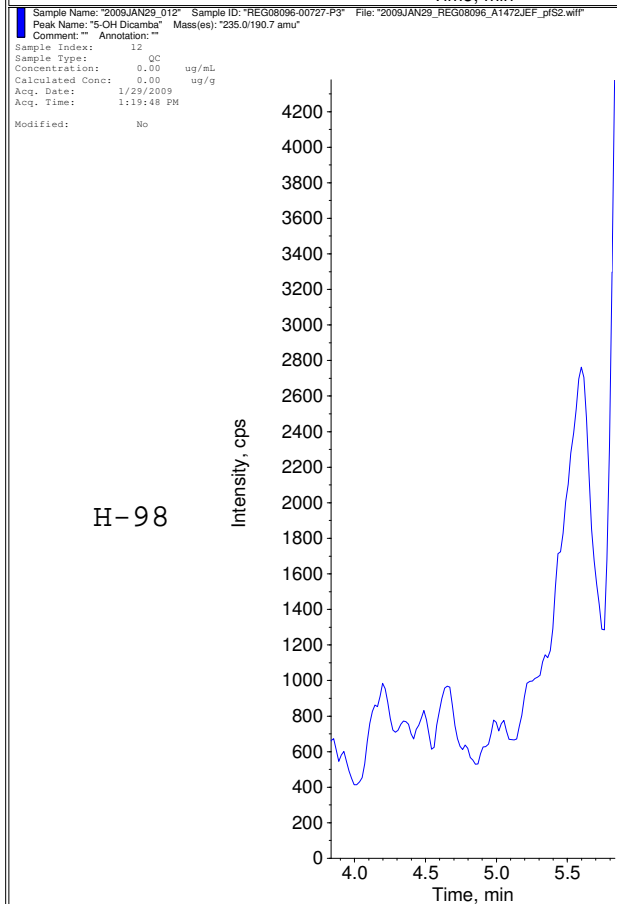
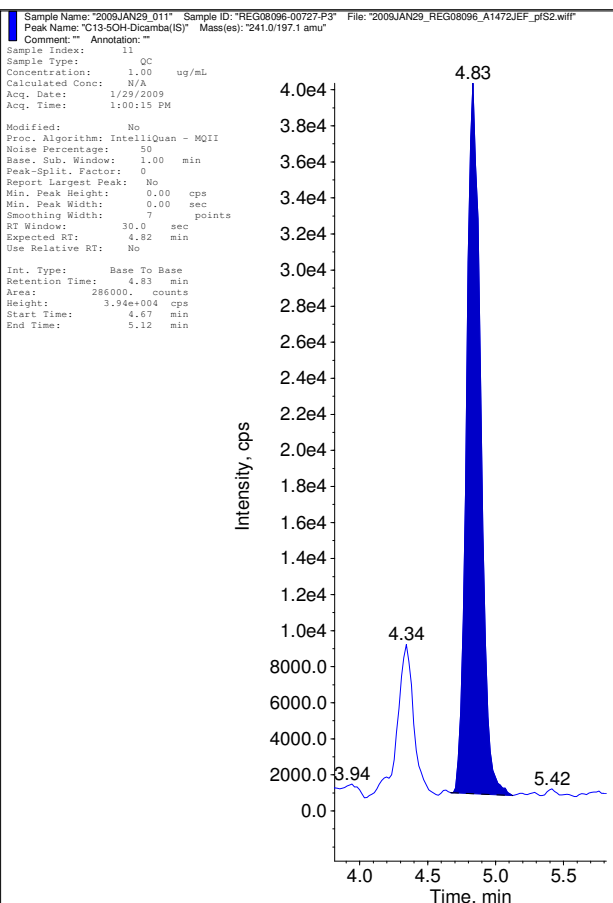
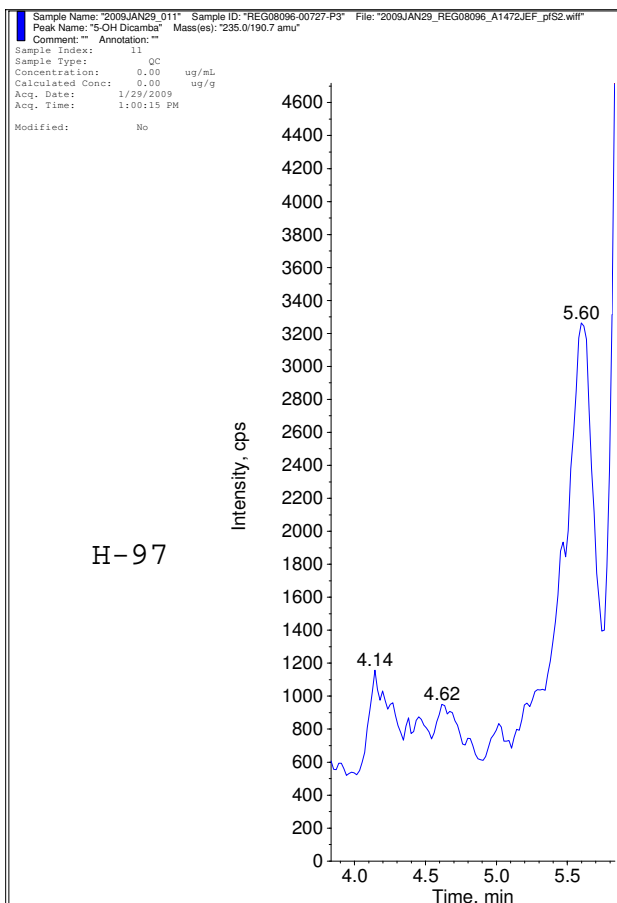




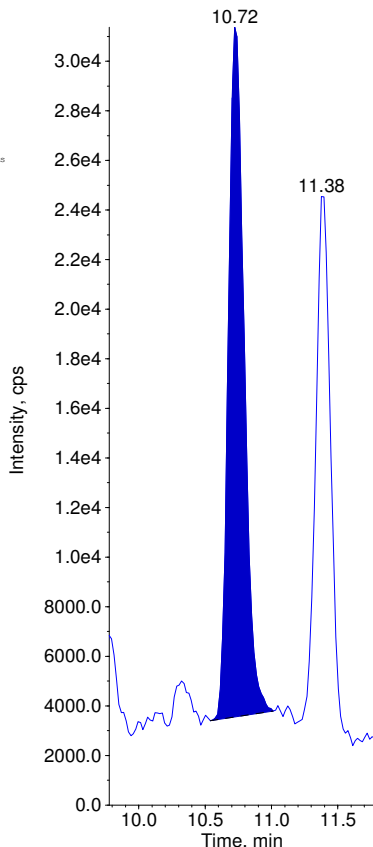






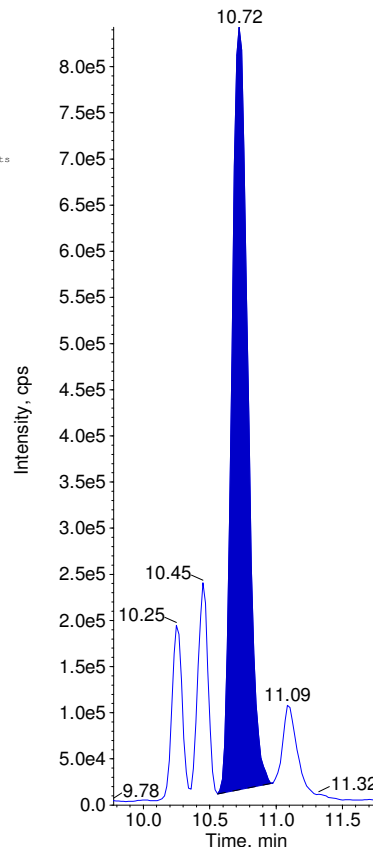


Sample Name: "2009JAN29_014" Sample ID: "REG08096-00727-P3" File: "2009JAN29_REG08096_A1472JEF_pIS2.wiff"
Peak Name: "DCSA" Mass(es): "204.9/161.2 amu"
Comment: "" Annotation: ""
Sample Index: 14
Sample Type: QC
Concentration: 0.0200 ug/mL
Calculated Conc: 0.0217 ug/g
Acq. Date: 1/29/2009
Acq. Time: 1:58:53 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 80
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 25.0 sec
Expected RT: 10.8 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 10.7 min
Area: 230000. counts
Height: 2.78e+004 cps
Start Time: 10.5 min
End Time: 11.0 min

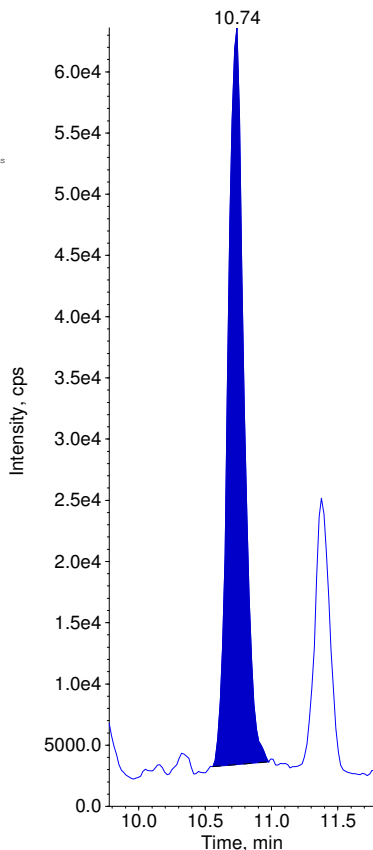


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Sample Name: "2009JAN29_014" Sample ID: "REG08096-00727-P3" File: "2009JAN29_REG08096_A1472JEF_pIS2.wiff"
Peak Name: "C13-DCSA(S)" Mass(es): "210.9/166.9 amu"
Comment: "" Annotation: ""
Sample Index: 14
Sample Type: QC
Concentration: 1.00 ug/mL
Calculated Conc: N/A
Acq. Date: 1/29/2009
Acq. Time: 1:58:53 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 97
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 5 points
RT Window: 30.0 sec
Expected RT: 10.8 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 10.7 min
Area: 6880000. counts
Height: 8.26e+005 cps
Start Time: 10.6 min
End Time: 11.0 min

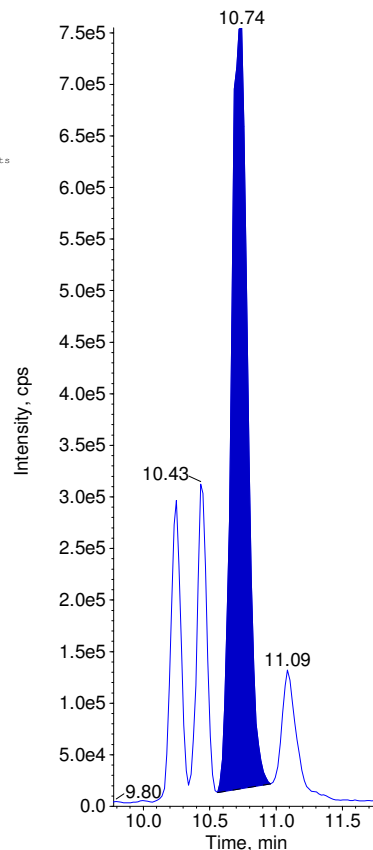


Sample Name: "2009JAN29_015" Sample ID: "REG08096-00727-P3" File: "2009JAN29_REG08096_A1472JEF_pIS2.wiff"
Peak Name: "DCSA" Mass(es): "204.9/161.2 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: QC
Concentration: 0.0500 ug/mL
Calculated Conc: 0.0505 ug/g
Acq. Date: 1/29/2009
Acq. Time: 2:18:31 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 80
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 25.0 sec
Expected RT: 10.8 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 10.7 min
Area: 499000. counts
Height: 6.02e+004 cps
Start Time: 10.6 min
End Time: 11.0 min

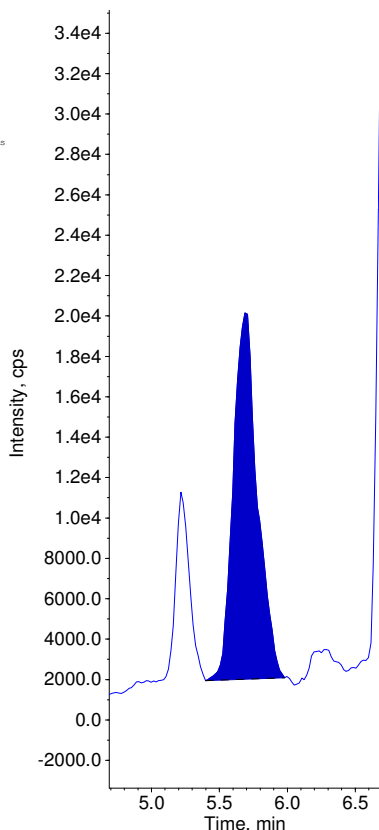


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Sample Name: "2009JAN29_015" Sample ID: "REG08096-00727-P3" File: "2009JAN29_REG08096_A1472JEF_pIS2.wiff"
Peak Name: "C13-DCSA(S)" Mass(es): "210.9/166.9 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: QC
Concentration: 1.00 ug/mL
Calculated Conc: N/A
Acq. Date: 1/29/2009
Acq. Time: 2:18:31 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 97
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 5 points
RT Window: 30.0 sec
Expected RT: 10.8 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 10.7 min
Area: 6320000. counts
Height: 7.38e+005 cps
Start Time: 10.6 min
End Time: 11.0 min

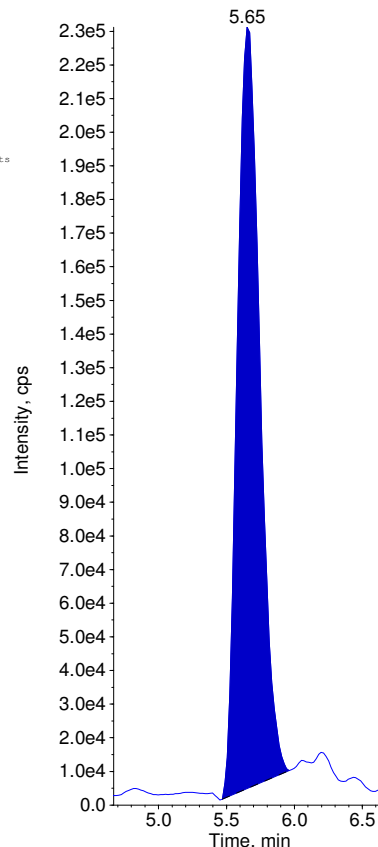


Sample Name: "2009JAN29_014" Sample ID: "REG08096-00727-P3" File: "2009JAN29_REG08096_A1472JEF_pIS2.wiff"
Peak Name: "DCGA" Mass(es): "221.0/176.9 amu"
Comment: "" Annotation: ""
Sample Index: 14
Sample Type: QC
Concentration: 0.0200 ug/mL
Calculated Conc: 0.0194 ug/g
Acq. Date: 1/29/2009
Acq. Time: 1:58:53 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 70
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 7 points
RT Window: 16.0 sec
Expected RT: 5.69 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 5.69 min
Area: 223000. counts
Height: 1.81e+004 cps
Start Time: 5.40 min
End Time: 5.98 min

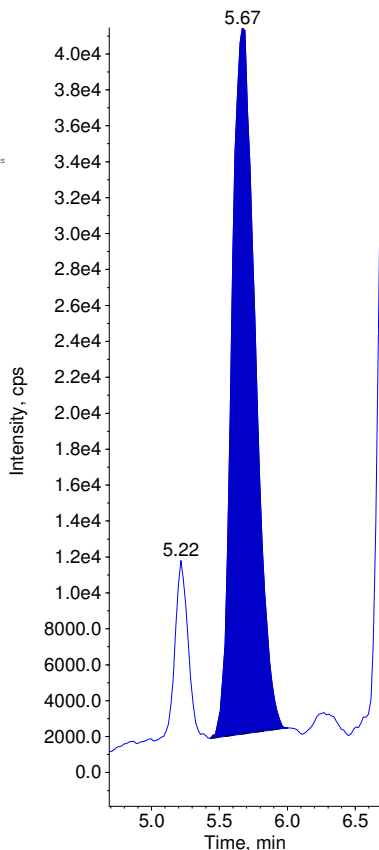


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Sample Name: "2009JAN29_014" Sample ID: "REG08096-00727-P3" File: "2009JAN29_REG08096_A1472JEF_pIS2.wiff"
Peak Name: "C13-DCGA(S)" Mass(es): "227.0/183.0 amu"
Comment: "" Annotation: ""
Sample Index: 14
Sample Type: QC
Concentration: 1.00 ug/mL
Calculated Conc: N/A
Acq. Date: 1/29/2009
Acq. Time: 1:58:53 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 97
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 2
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 13 points
RT Window: 30.0 sec
Expected RT: 5.67 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 5.65 min
Area: 2630000. counts
Height: 2.26e+005 cps
Start Time: 5.47 min
End Time: 5.96 min

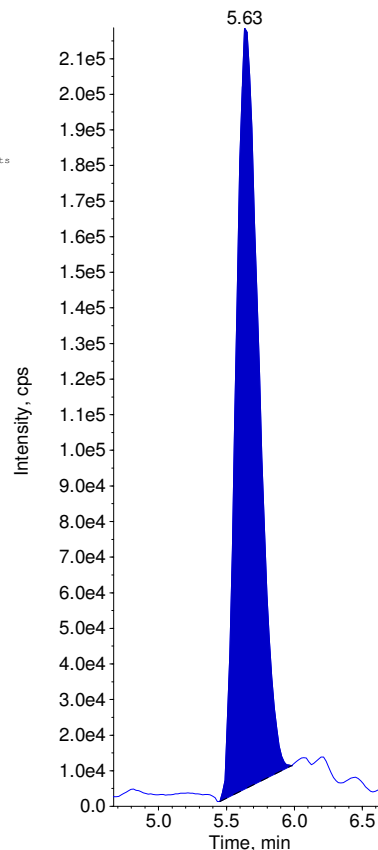


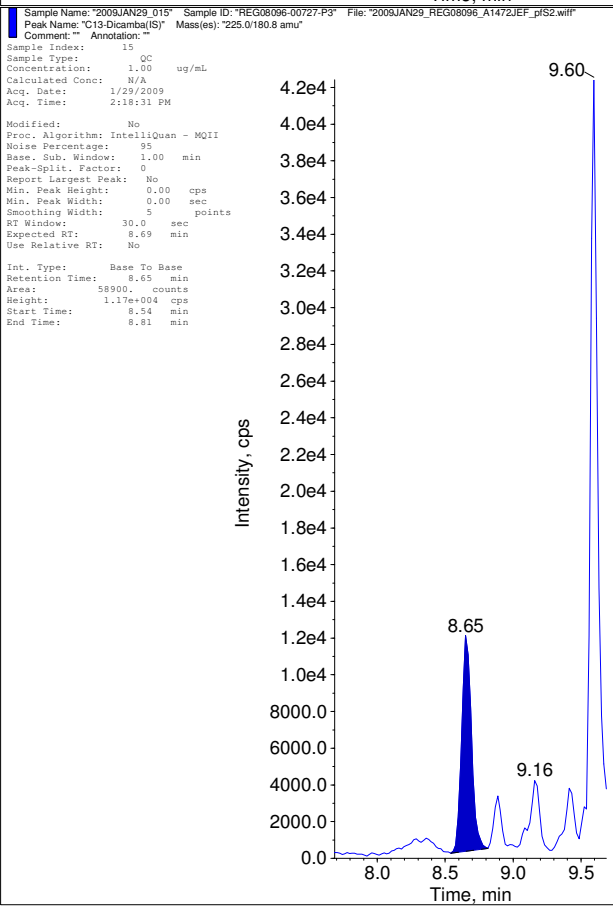
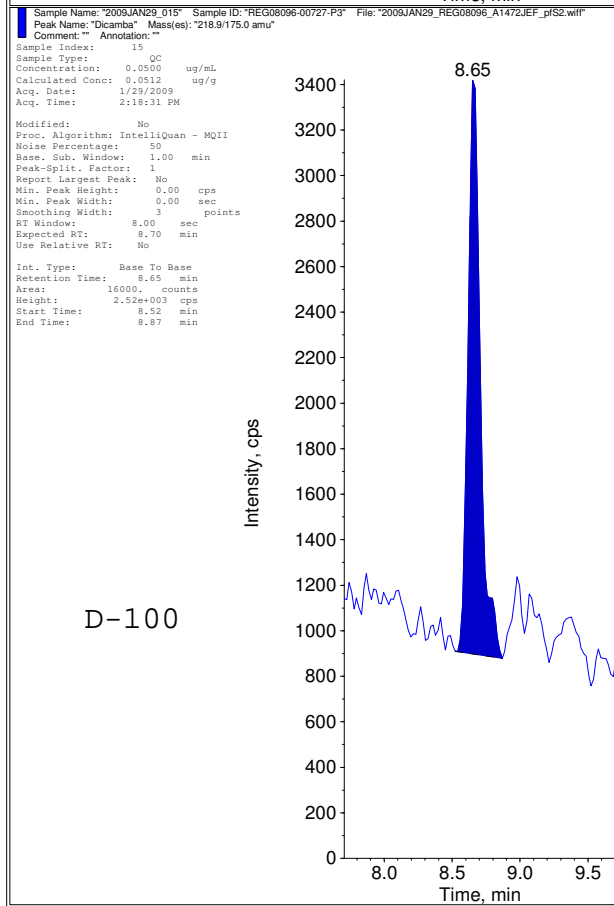
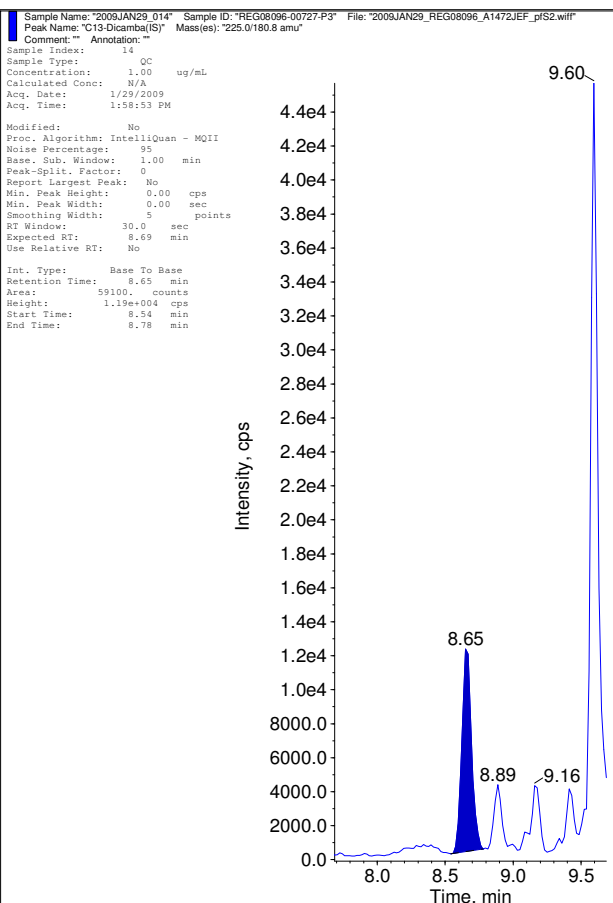
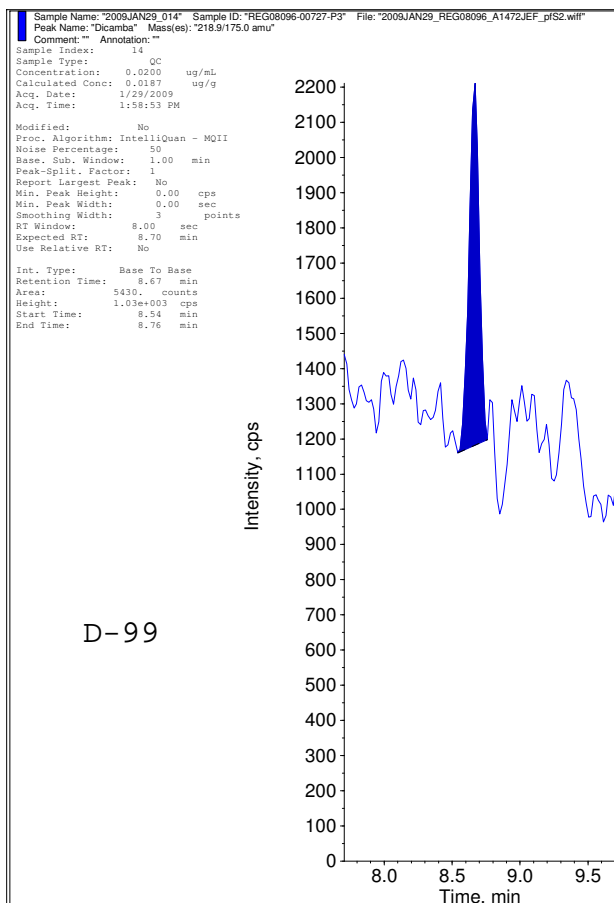
Sample Name: "2009JAN29_015" Sample ID: "REG08096-00727-P3" File: "2009JAN29_REG08096_A1472JEF_pIS2.wiff"
Peak Name: "DCGA" Mass(es): "221.0/176.9 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: QC
Concentration: 0.0500 ug/mL
Calculated Conc: 0.0447 ug/g
Acq. Date: 1/29/2009
Acq. Time: 2:18:31 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 70
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 7 points
RT Window: 16.0 sec
Expected RT: 5.69 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 5.67 min
Area: 472000. counts
Height: 3.93e+004 cps
Start Time: 5.43 min
End Time: 6.00 min

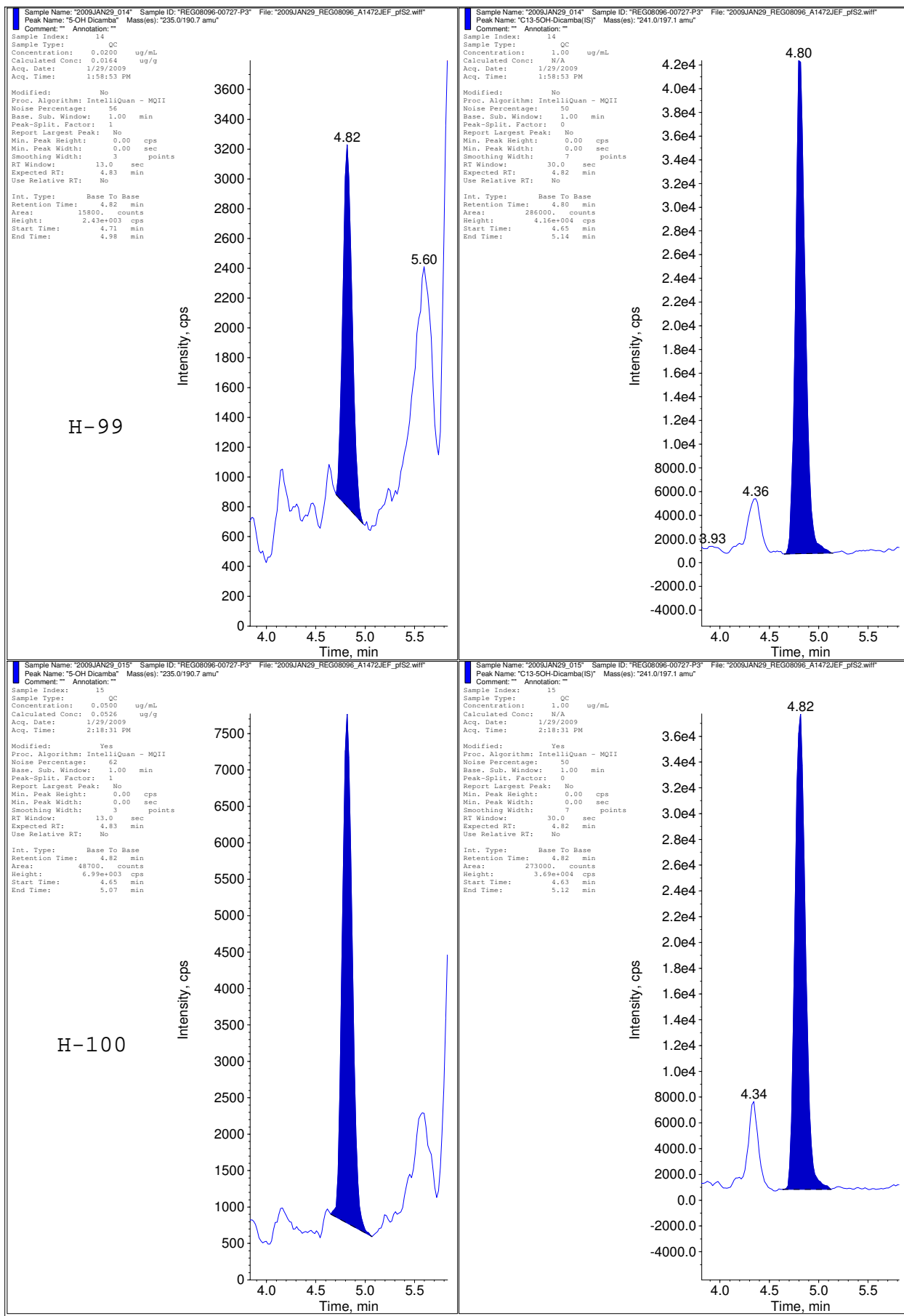


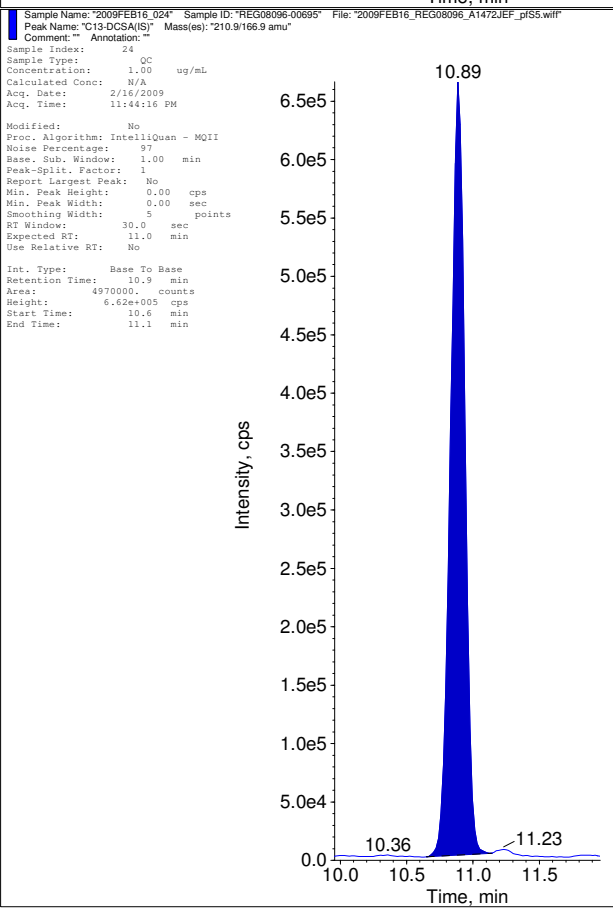
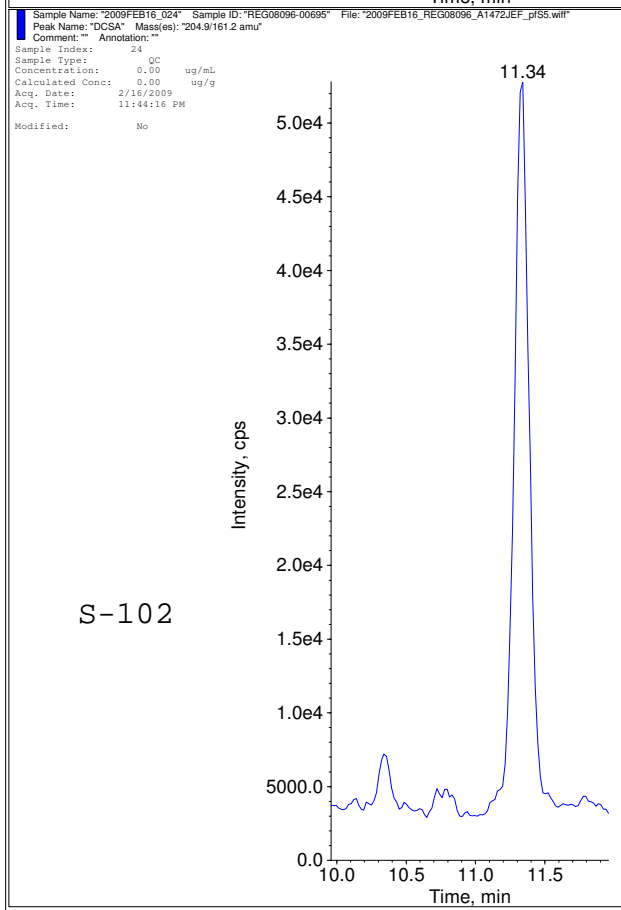
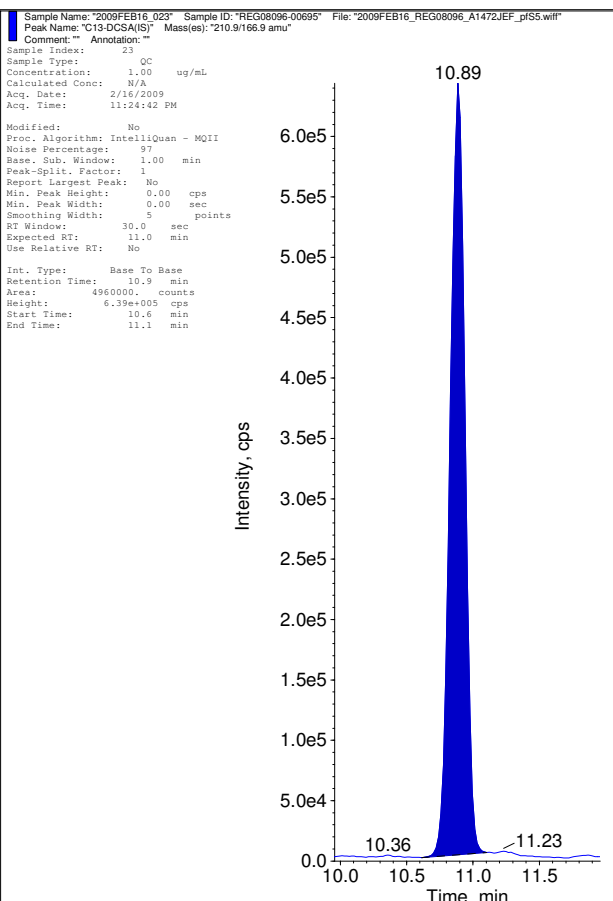
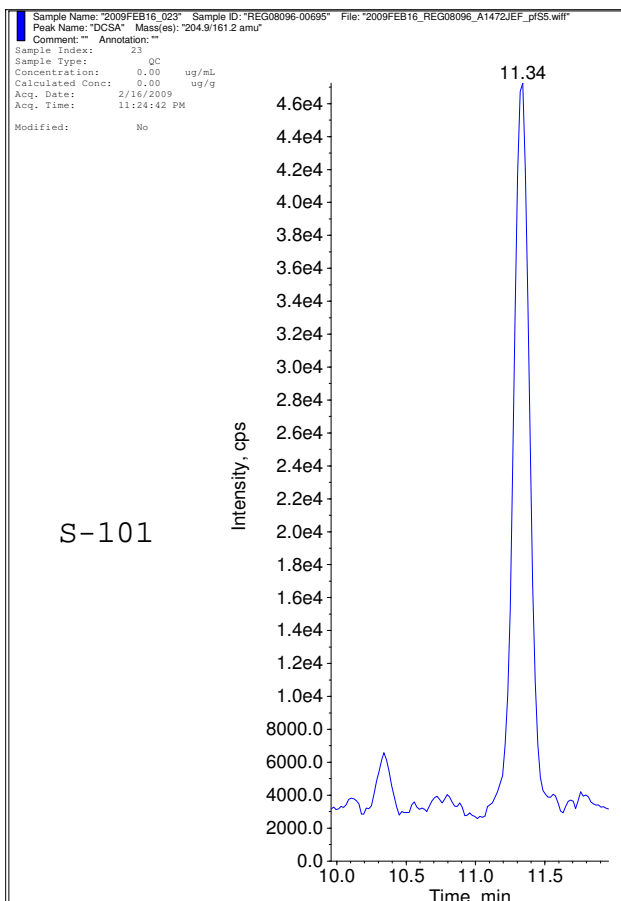
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Sample Name: "2009JAN29_015" Sample ID: "REG08096-00727-P3" File: "2009JAN29_REG08096_A1472JEF_pIS2.wiff"
Peak Name: "C13-DCGA(S)" Mass(es): "227.0/183.0 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: QC
Concentration: 1.00 ug/mL
Calculated Conc: N/A
Acq. Date: 1/29/2009
Acq. Time: 2:18:31 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 97
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 2
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 13 points
RT Window: 30.0 sec
Expected RT: 5.67 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 5.63 min
Area: 2510000. counts
Height: 2.14e+005 cps
Start Time: 5.45 min
End Time: 5.98 min

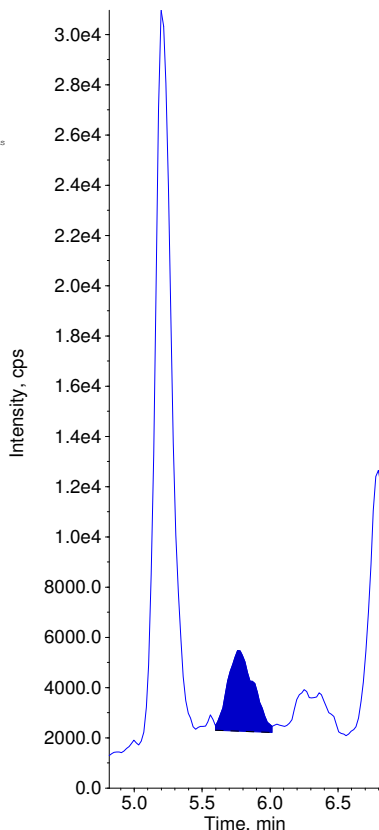




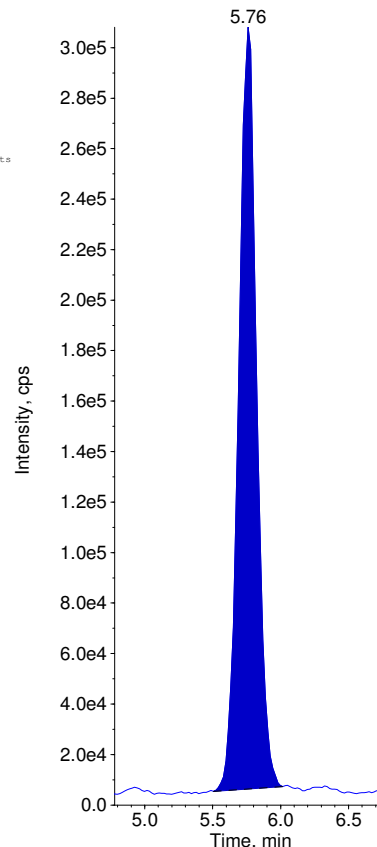




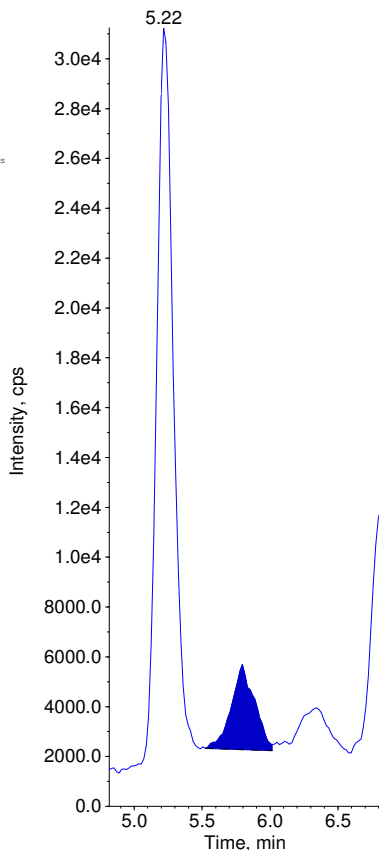
Sample Name: "2009FEB16_023" Sample ID: "REG08096-00695" File: "2009FEB16_REG08096_A1472JEF_pRSS.wiff"
Peak Name: "DCGA" Mass(es): "221.0/176.9 amu"
Comment: "" Annotation: ""
Sample Index: 23
Sample Type: QC
Concentration: 0.00 ug/mL
Calculated Conc: 0.00252 ug/g
Acq. Date: 2/16/2009
Acq. Time: 11:24:42 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 40
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 5.82 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 5.76 min
Area: 42500. counts
Height: 3.21e+003 cps
Start Time: 5.60 min
End Time: 6.02 min



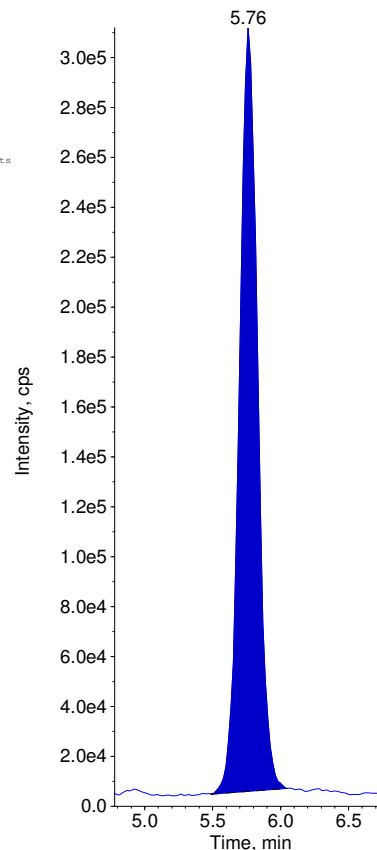
Sample Name: "2009FEB16_023" Sample ID: "REG08096-00695" File: "2009FEB16_REG08096_A1472JEF_pRSS.wiff"
Peak Name: "C13-DCGA(S)" Mass(es): "227.0/183.0 amu"
Comment: "" Annotation: ""
Sample Index: 23
Sample Type: QC
Concentration: 1.00 ug/mL
Calculated Conc: N/A
Acq. Date: 2/16/2009
Acq. Time: 11:24:42 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 99
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 5 points
RT Window: 30.0 sec
Expected RT: 5.78 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 5.76 min
Area: 2780000. counts
Height: 3.02e+005 cps
Start Time: 5.51 min
End Time: 6.02 min

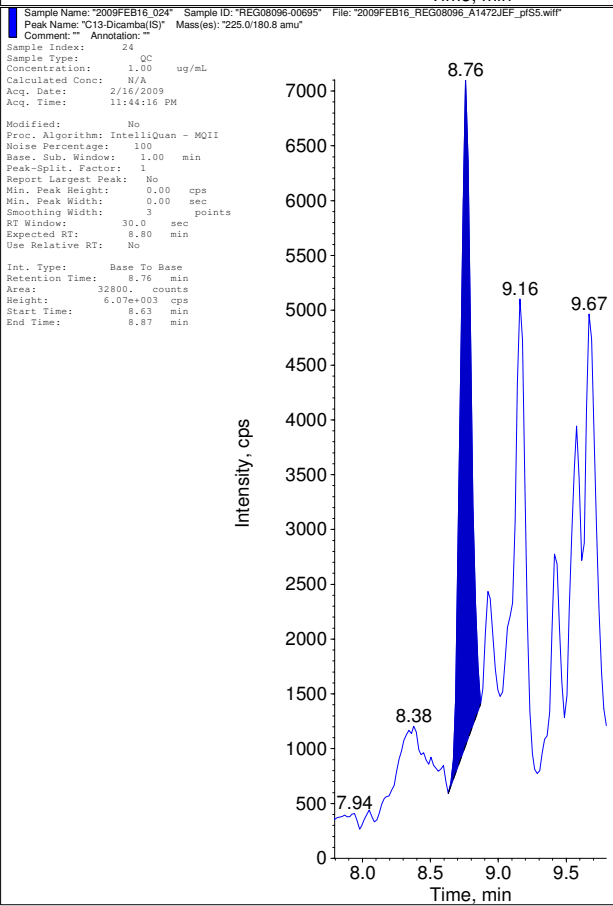
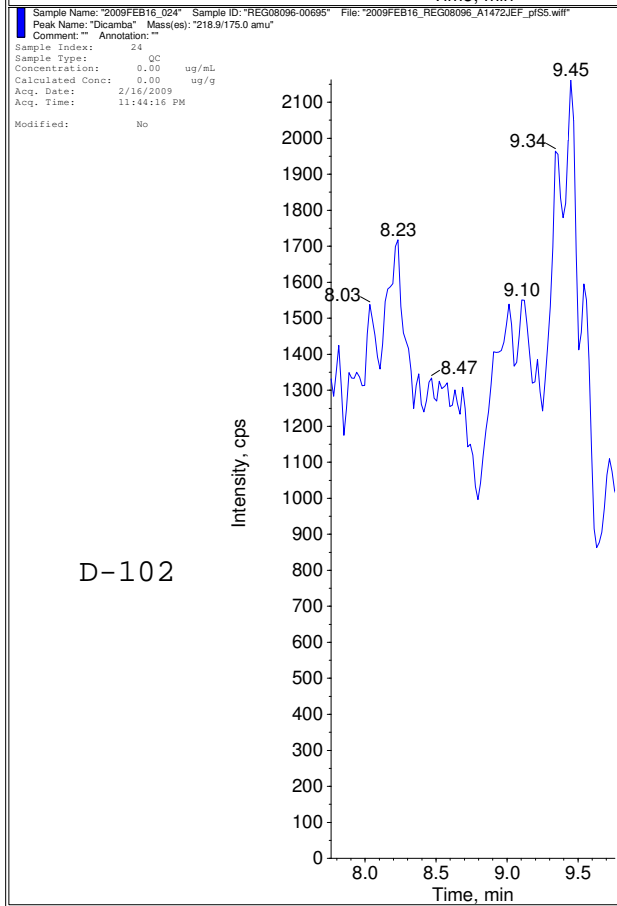
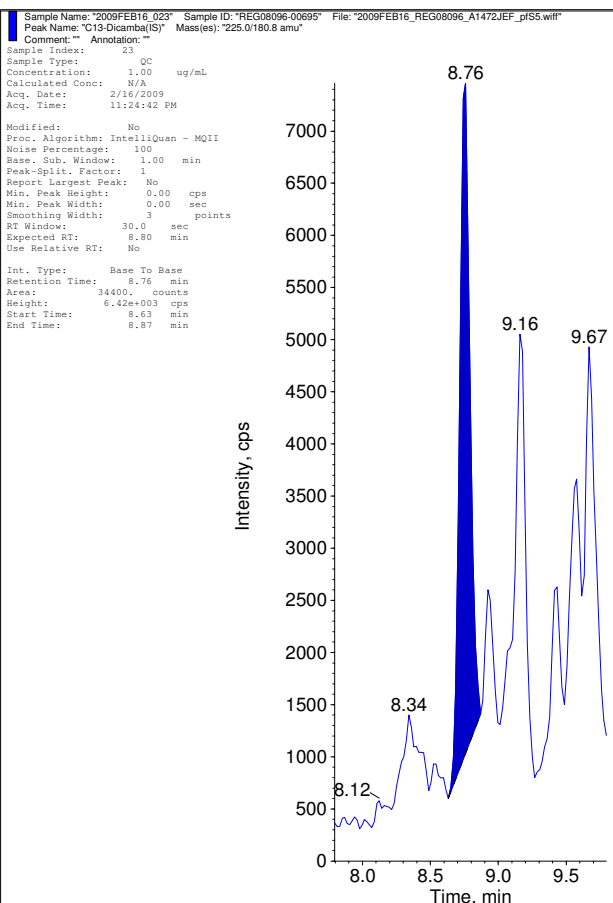
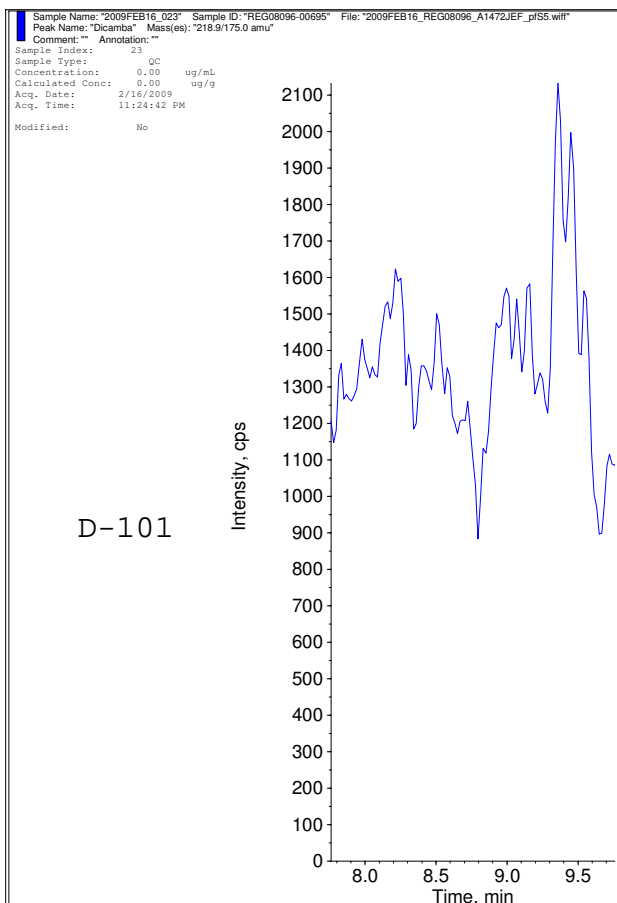


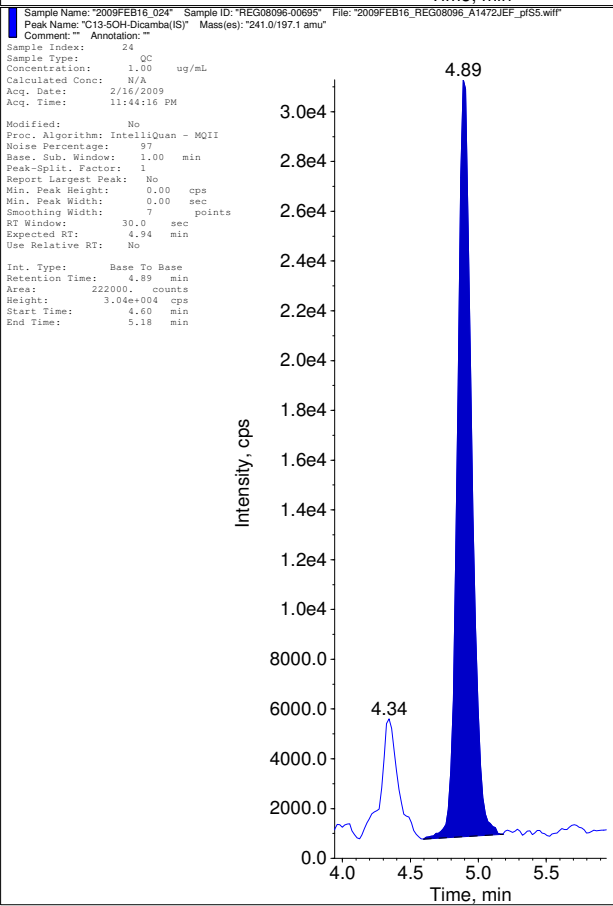
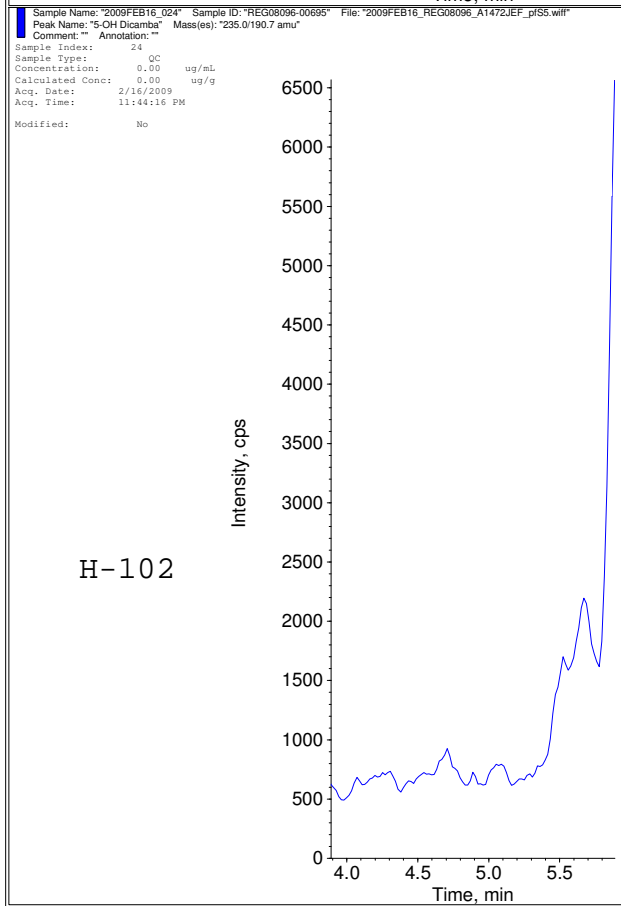
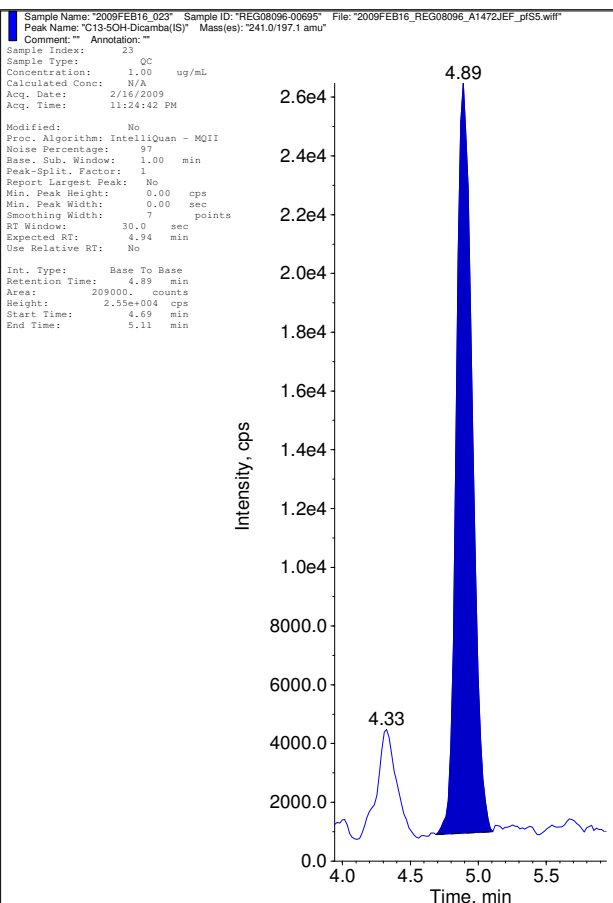
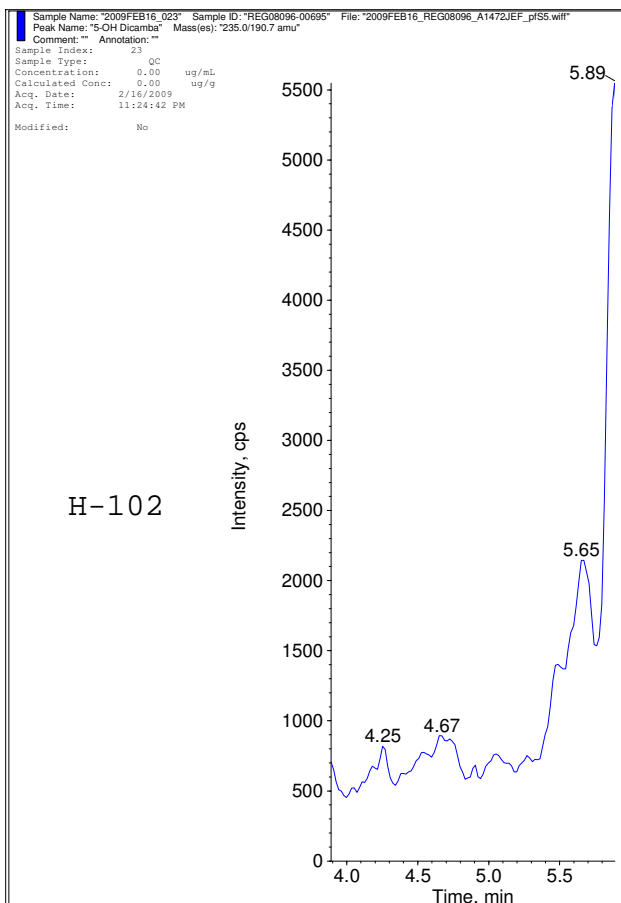
Sample Name: "2009FEB16_024" Sample ID: "REG08096-00695" File: "2009FEB16_REG08096_A1472JEF_pRSS.wiff"
Peak Name: "DCGA" Mass(es): "221.0/176.9 amu"
Comment: "" Annotation: ""
Sample Index: 24
Sample Type: QC
Concentration: 0.00 ug/mL
Calculated Conc: 0.00233 ug/g
Acq. Date: 2/16/2009
Acq. Time: 11:44:16 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 40
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 5.82 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 5.80 min
Area: 40300. counts
Height: 3.42e+003 cps
Start Time: 5.52 min
End Time: 6.02 min

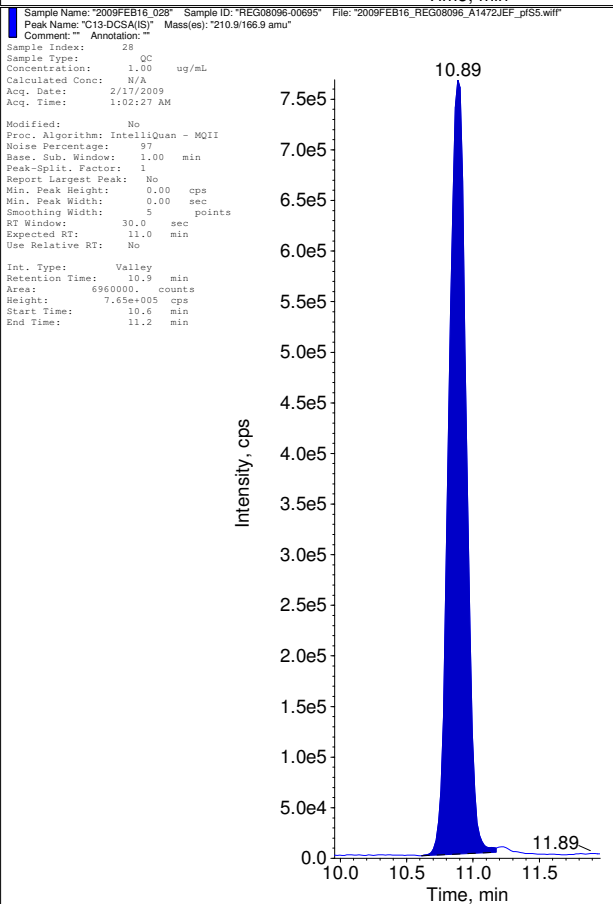
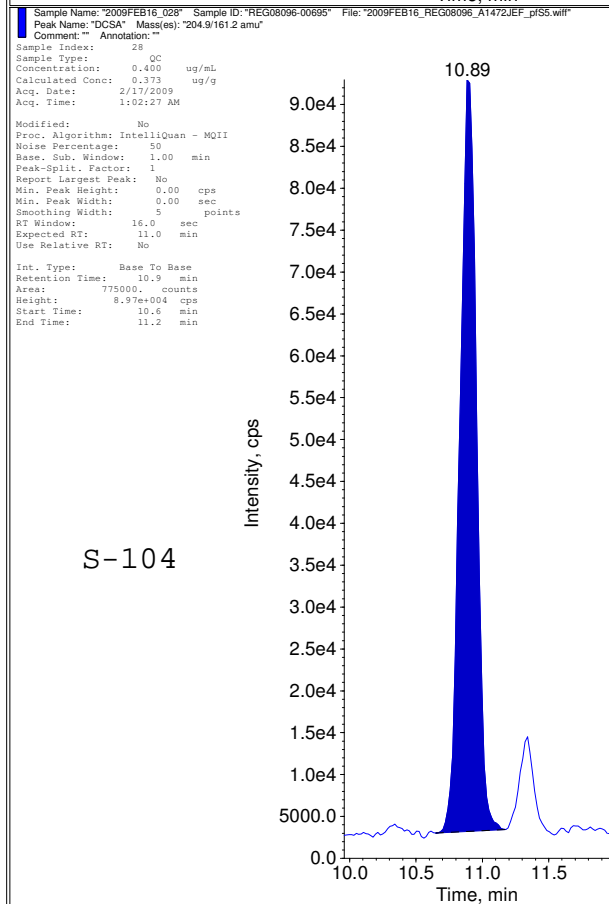
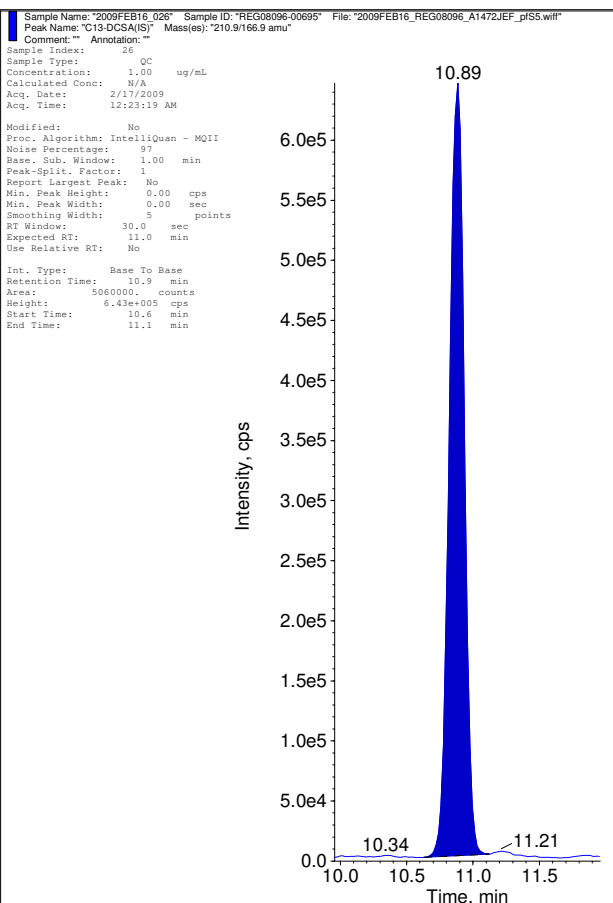
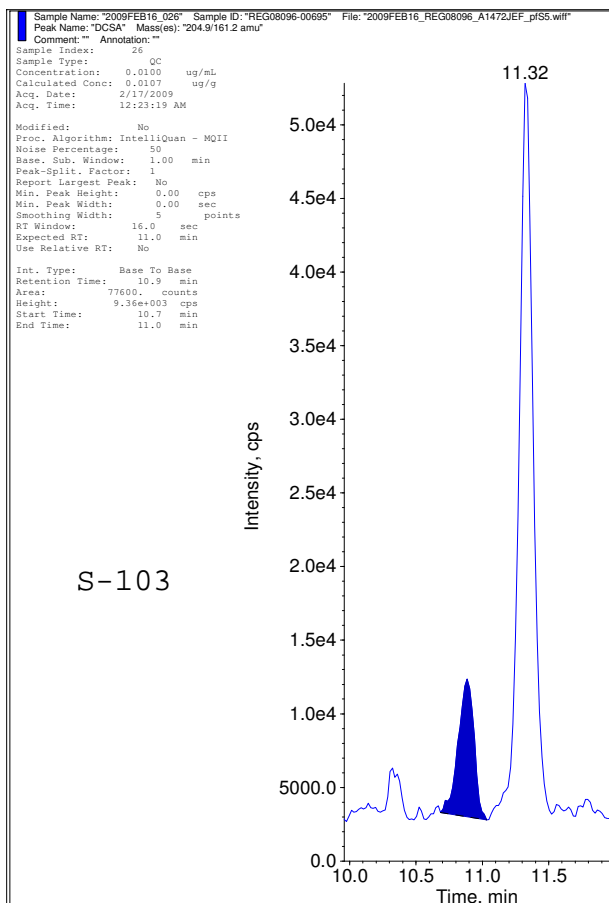


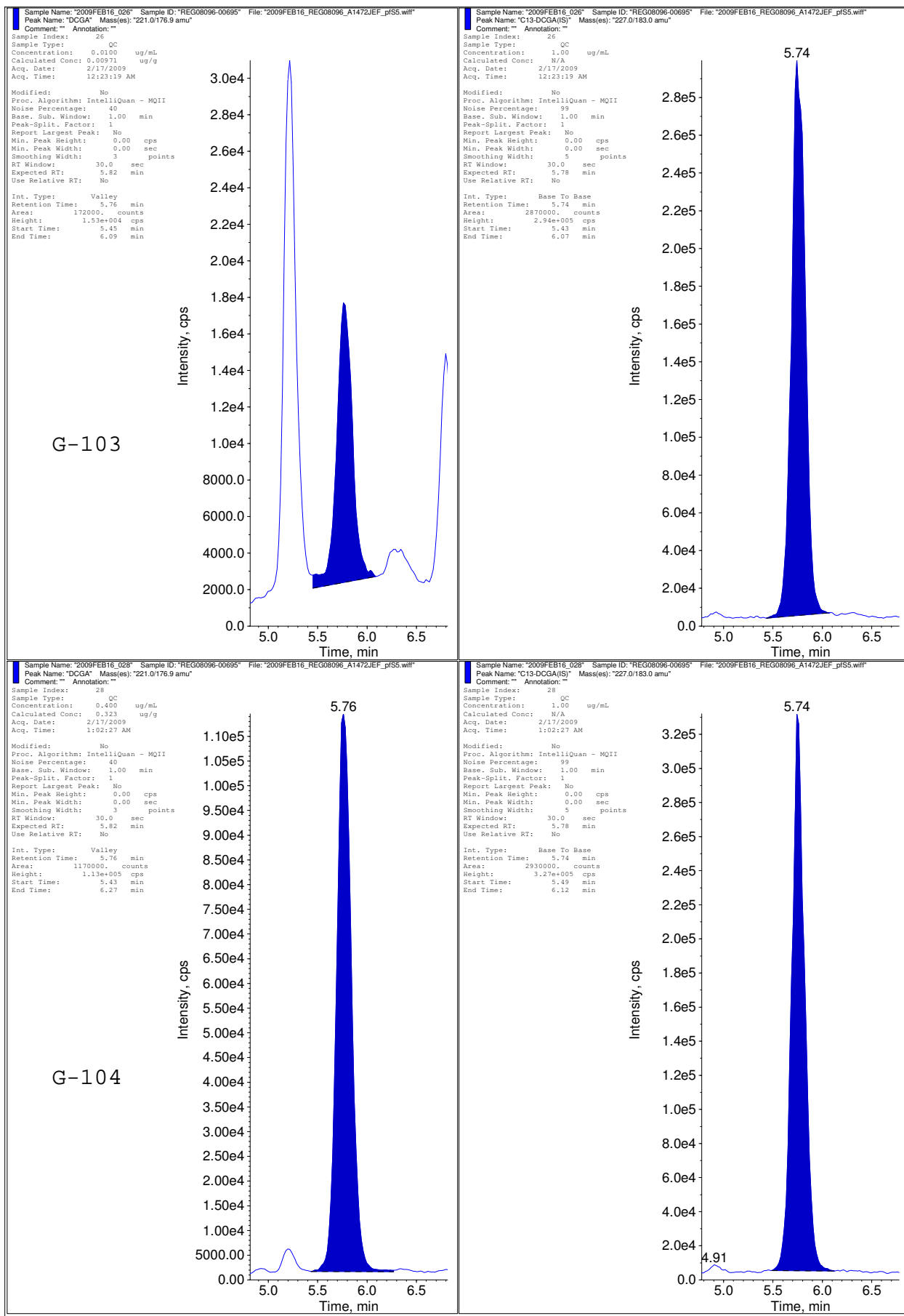
Sample Name: "2009FEB16_024" Sample ID: "REG08096-00695" File: "2009FEB16_REG08096_A1472JEF_pRSS.wiff"
Peak Name: "C13-DCGA(S)" Mass(es): "227.0/183.0 amu"
Comment: "" Annotation: ""
Sample Index: 24
Sample Type: QC
Concentration: 1.00 ug/mL
Calculated Conc: N/A
Acq. Date: 2/16/2009
Acq. Time: 11:44:16 PM
Modified: No
Proc. Algorithm: IntelliQuan - MQII
Noise Percentage: 99
Base. Sub. Window: 1.00 min
Peak-Split. Factor: 1
Report Largest Peak: No
Min. Peak Height: 0.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 5 points
RT Window: 30.0 sec
Expected RT: 5.78 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 5.76 min
Area: 2850000. counts
Height: 3.06e+005 cps
Start Time: 5.49 min
End Time: 6.05 min

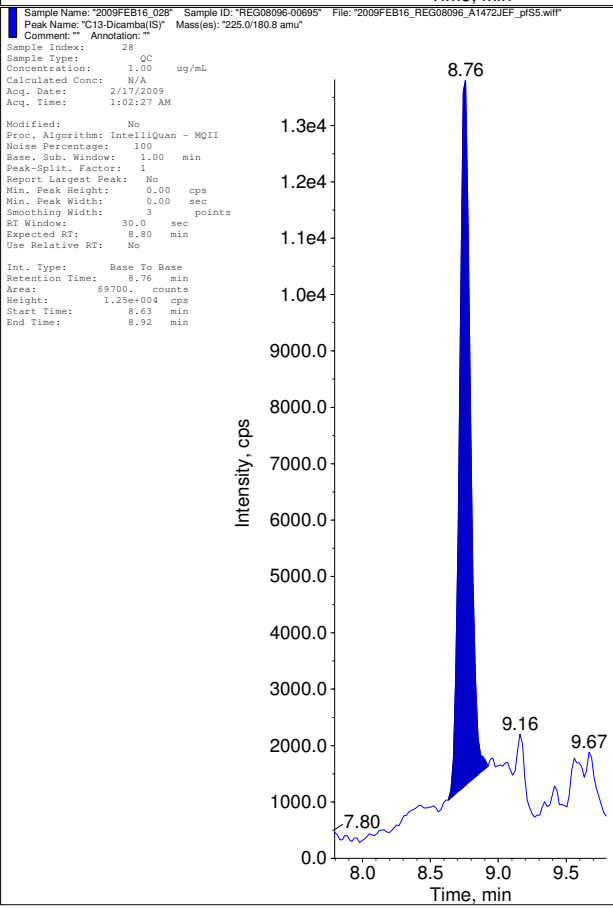
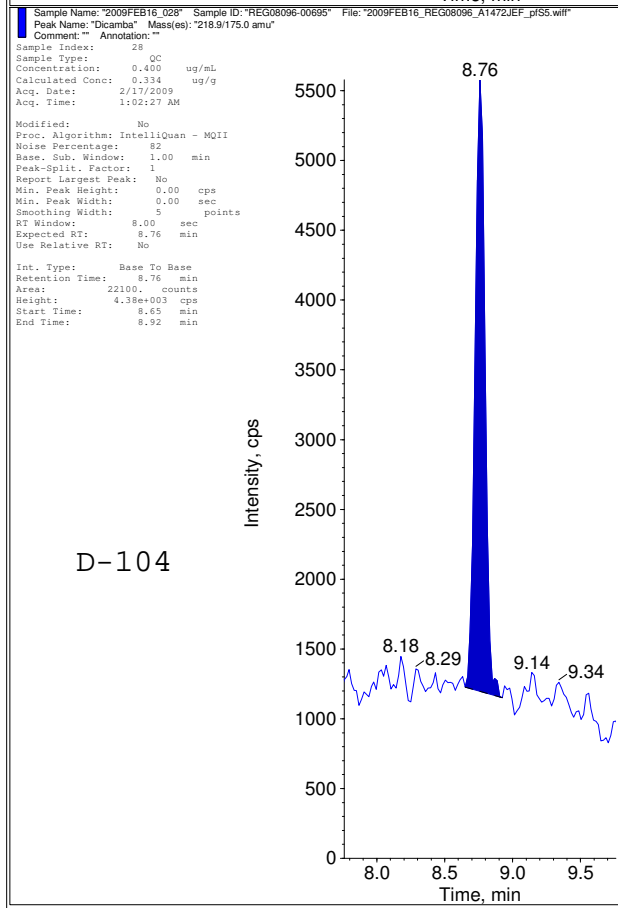
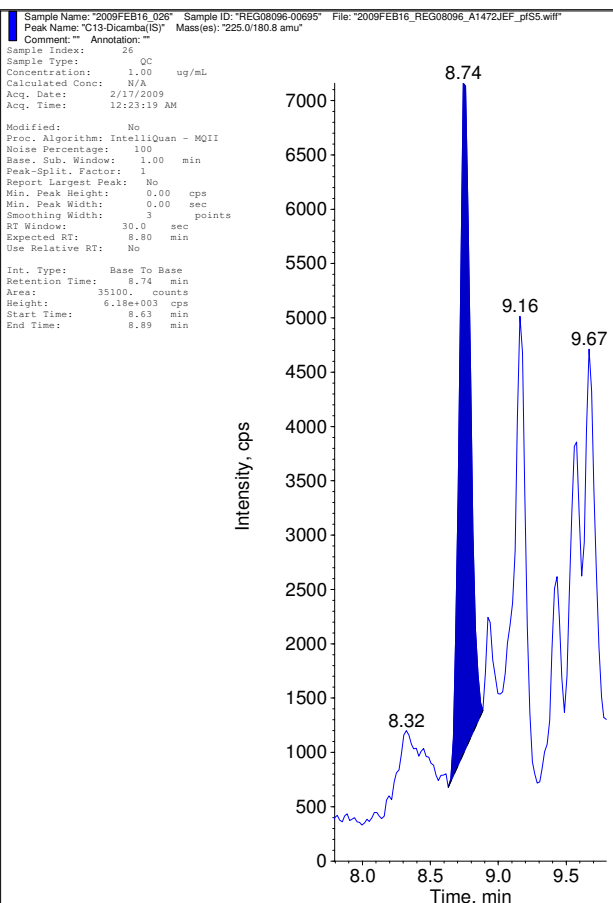
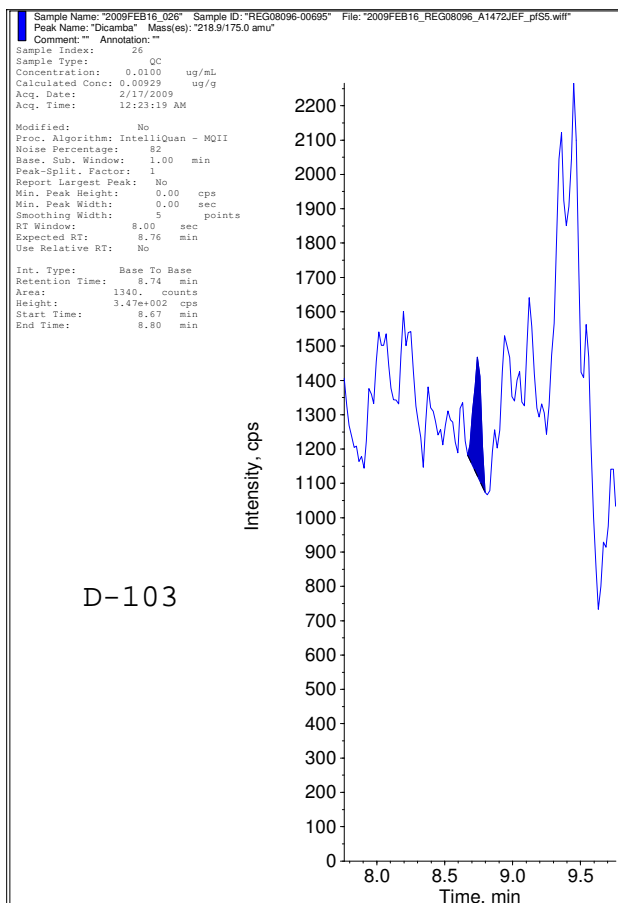


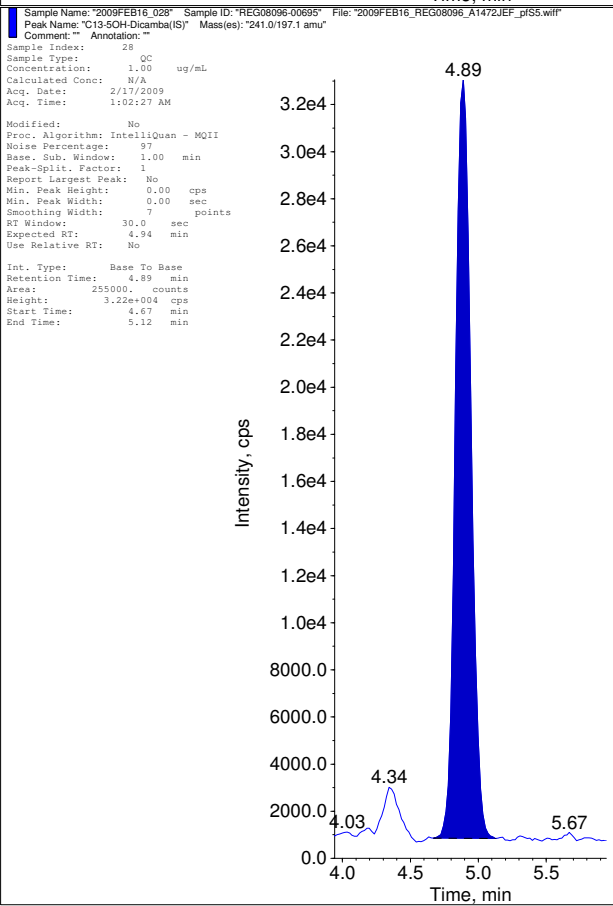
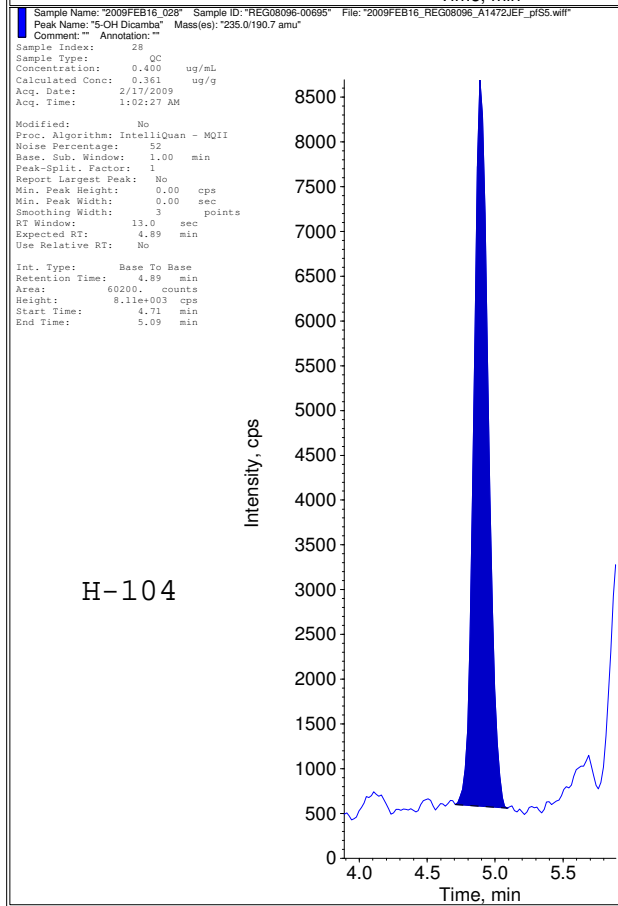
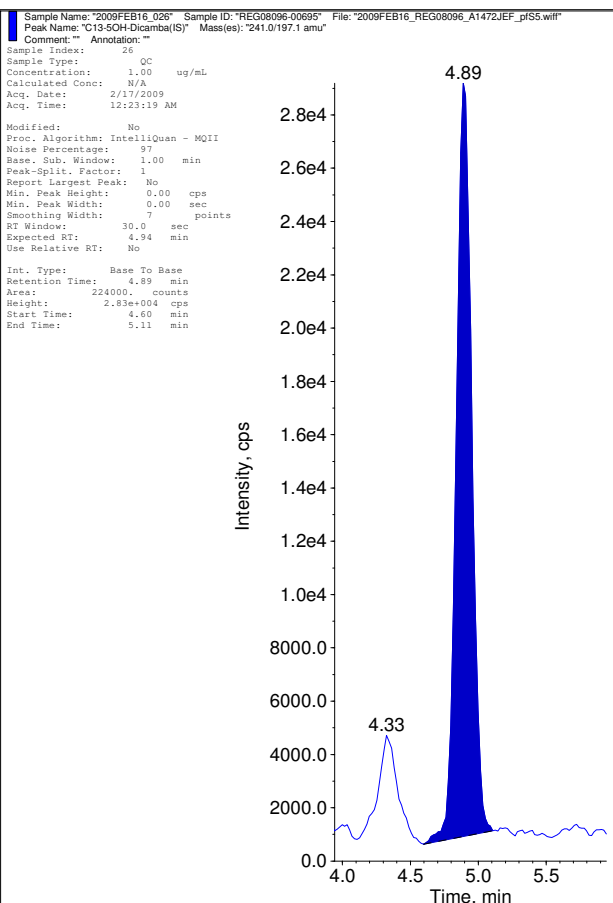
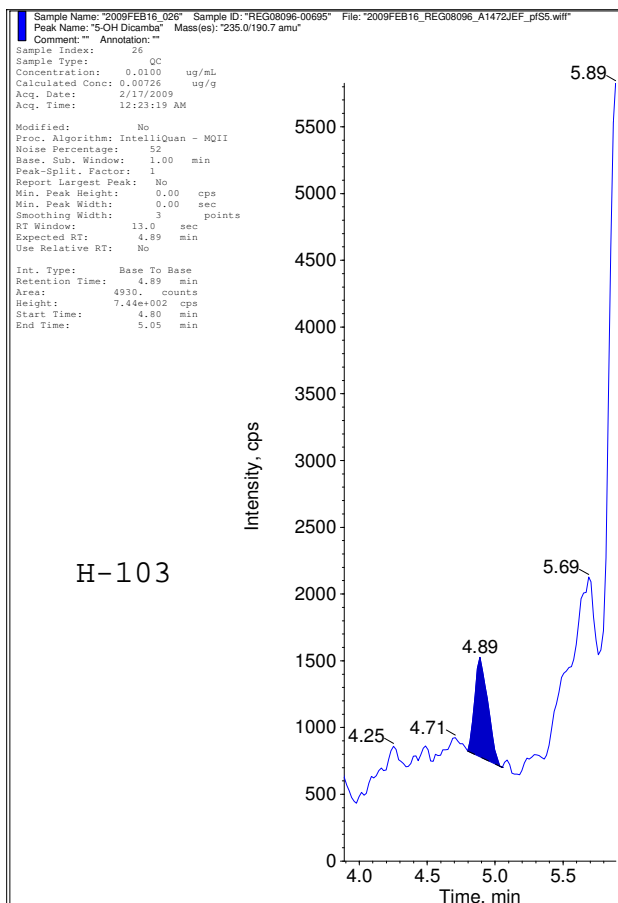


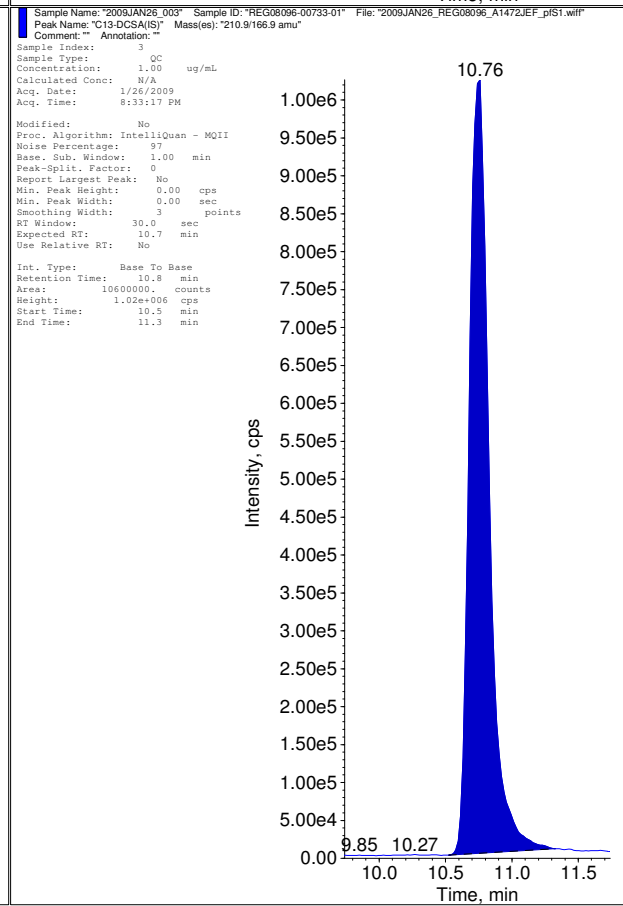
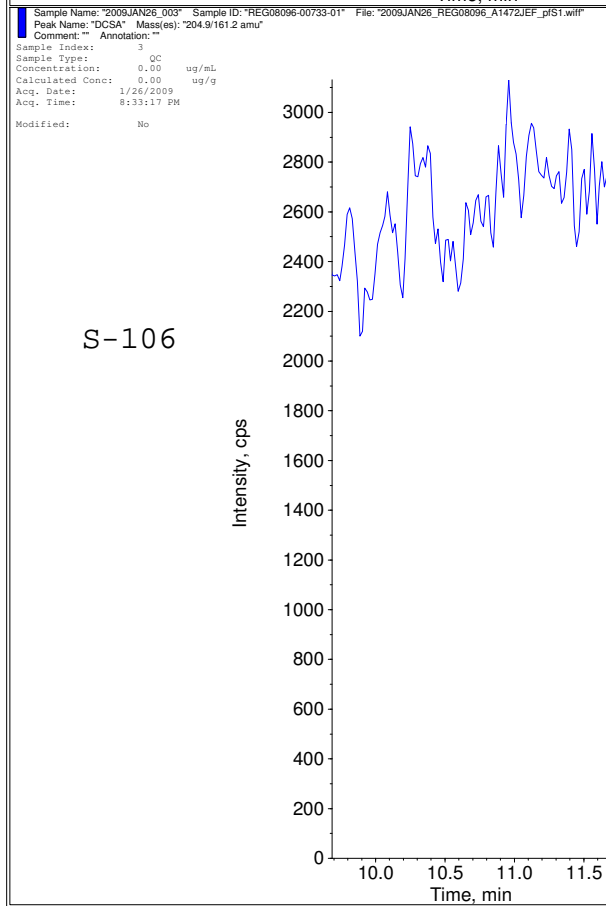
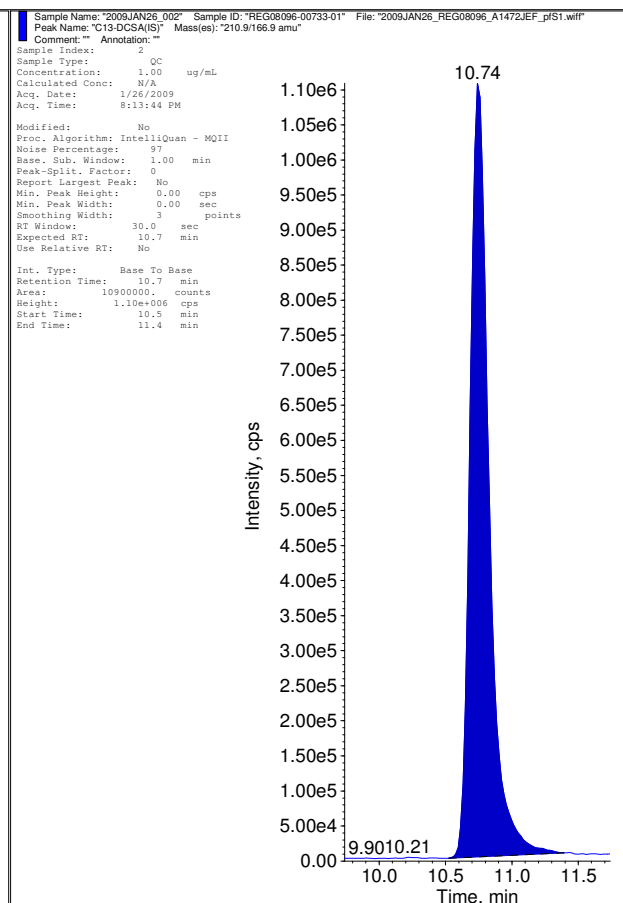
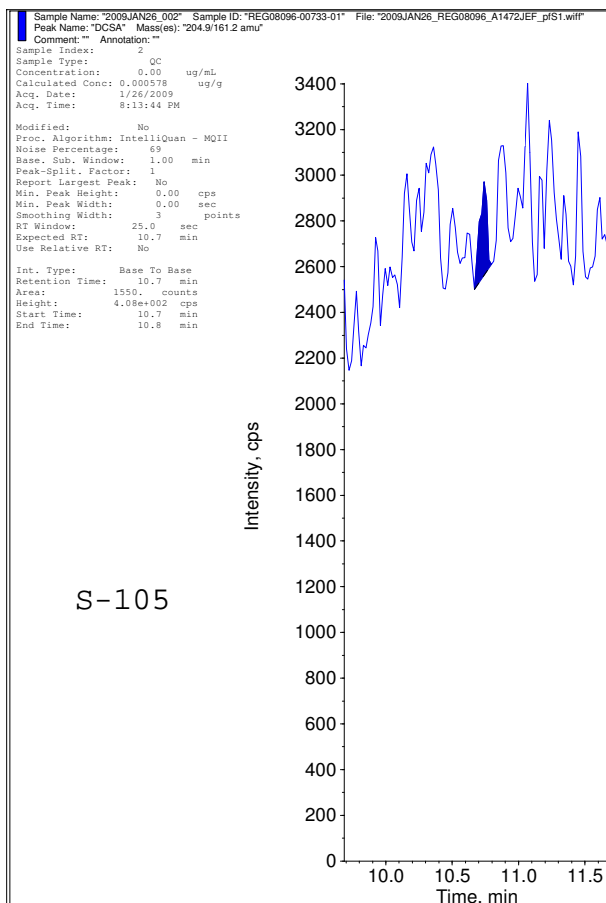


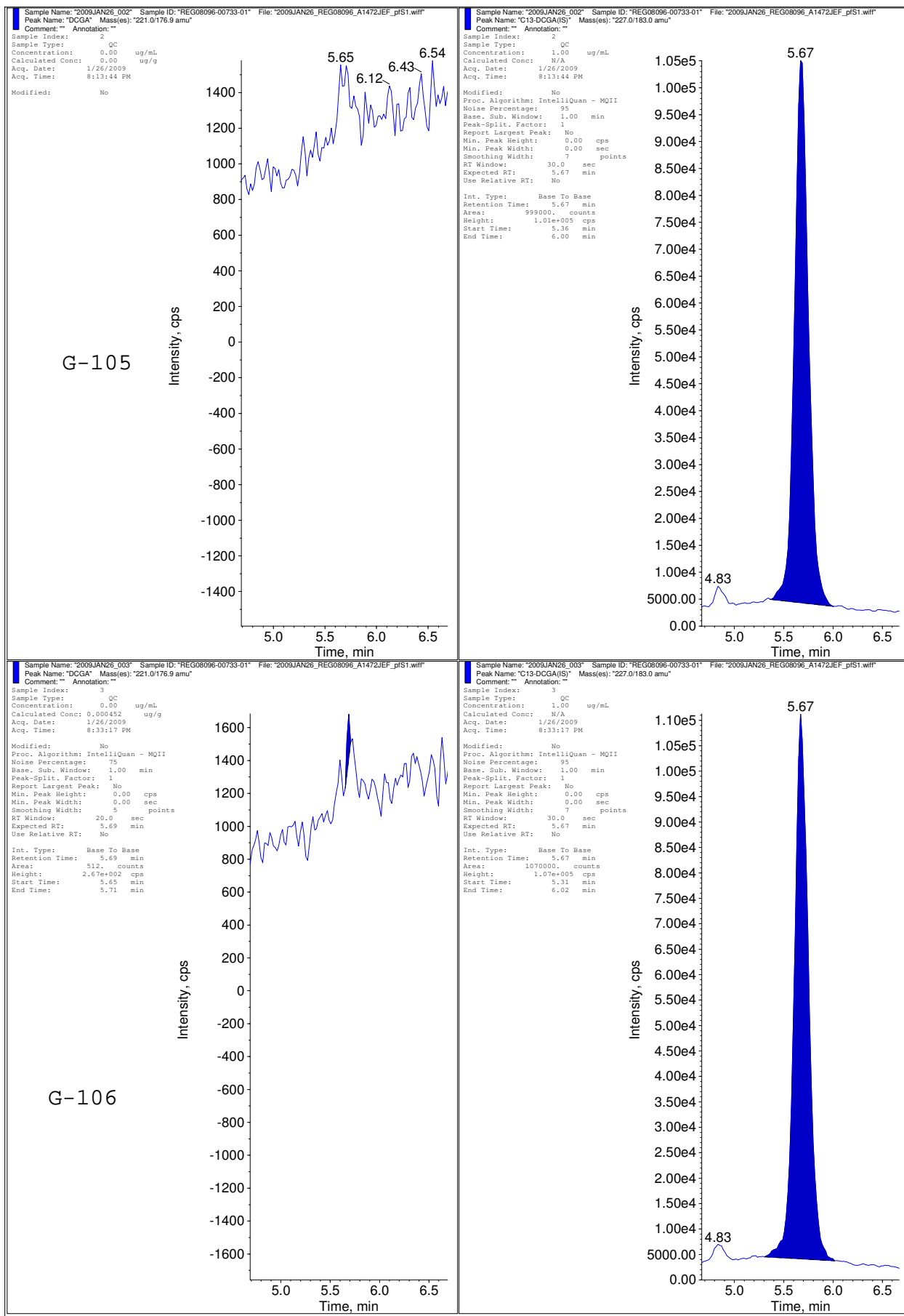


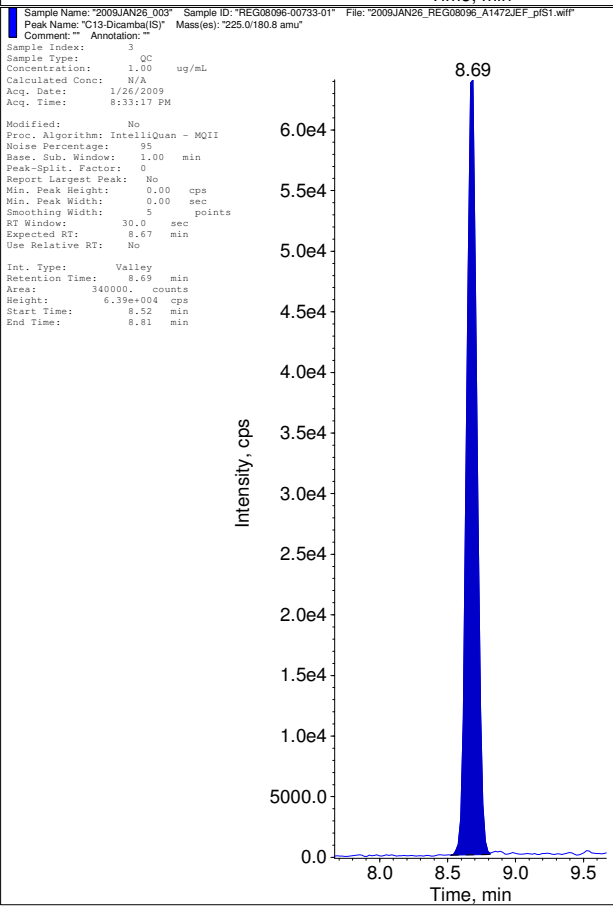
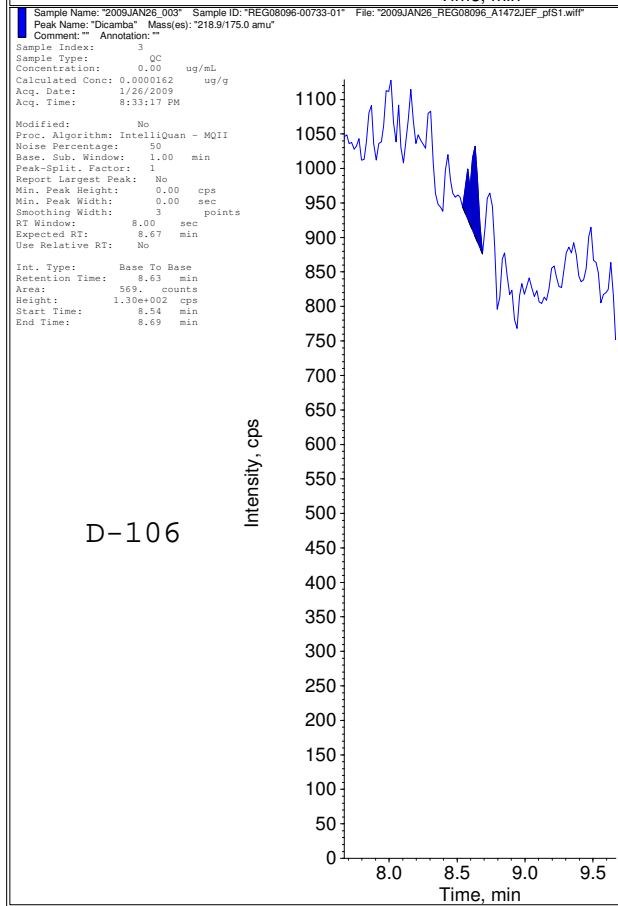
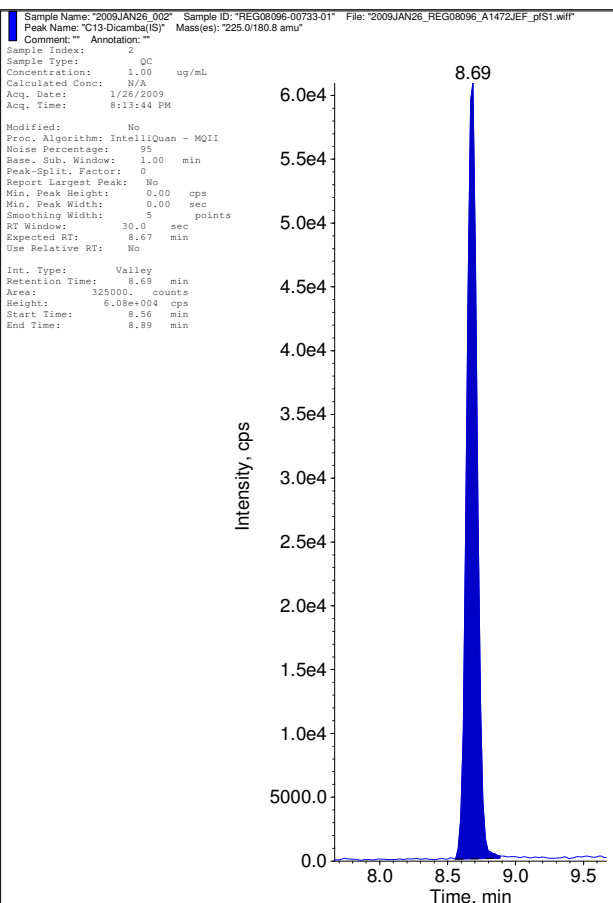
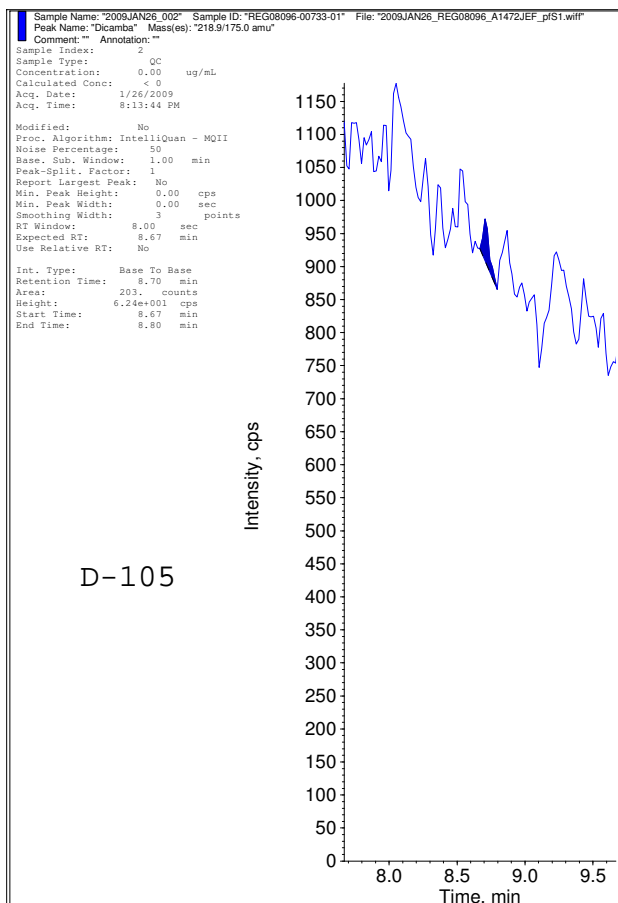


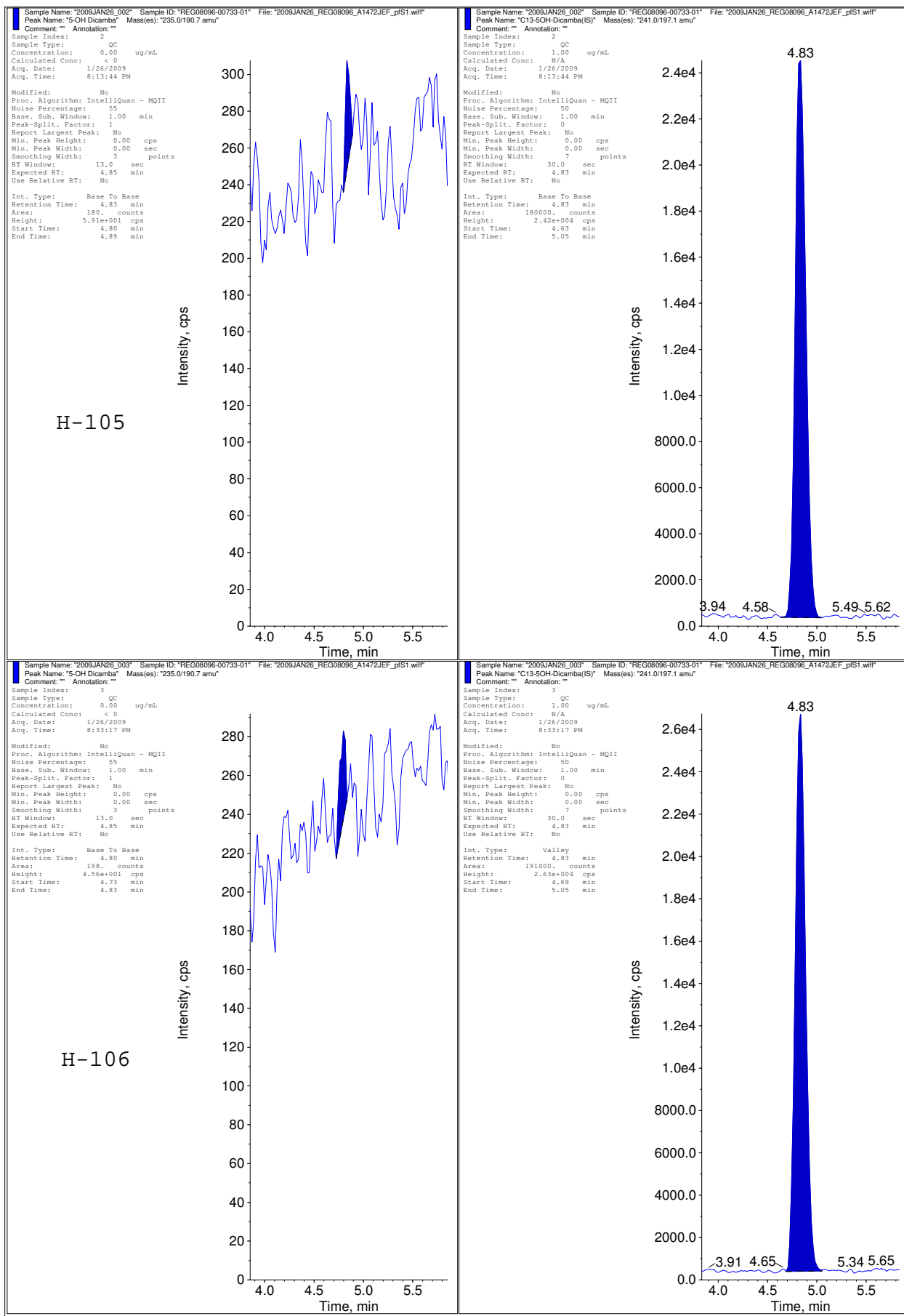


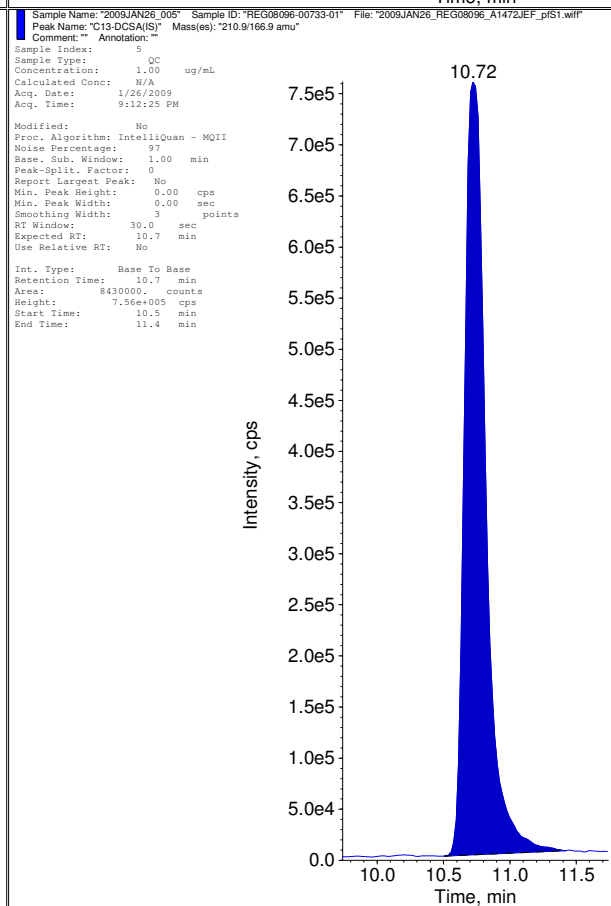
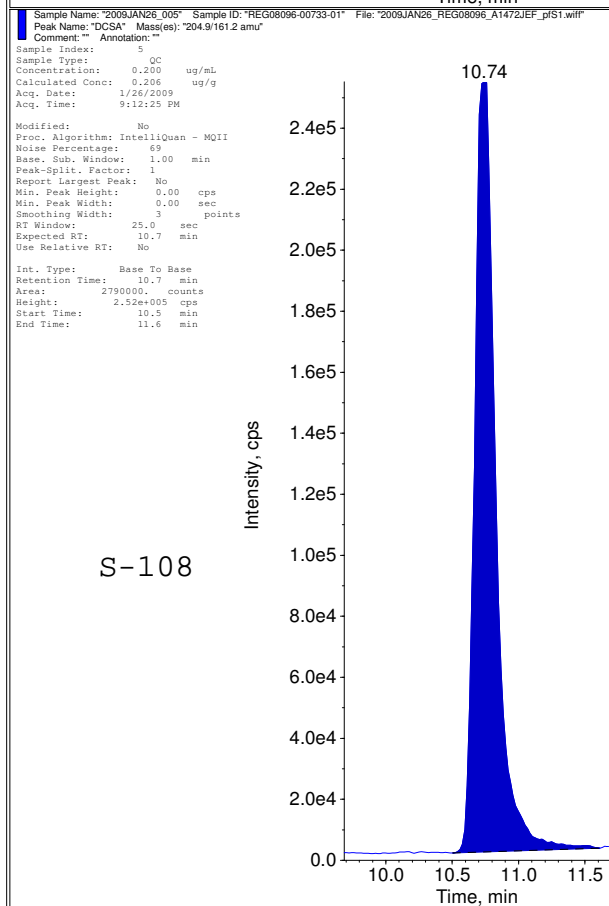
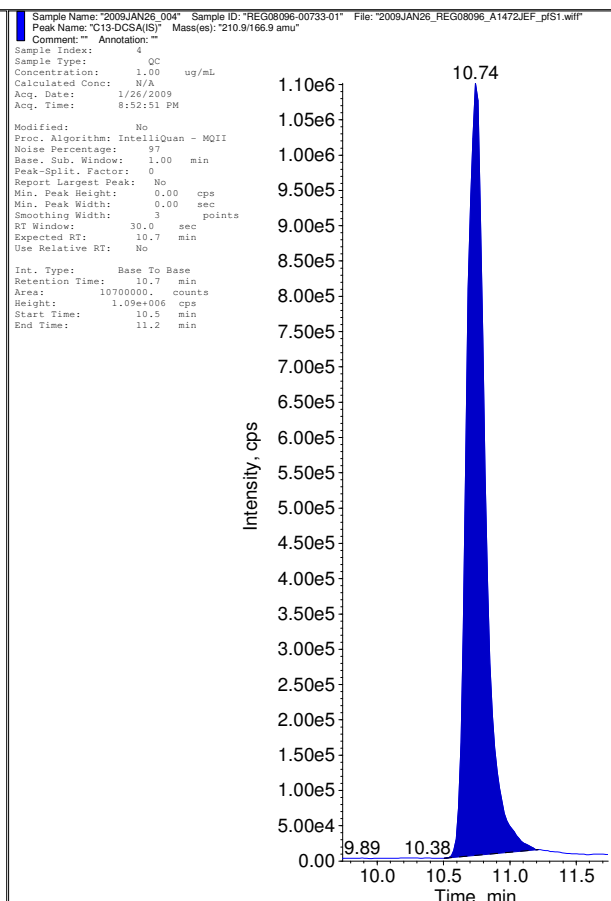
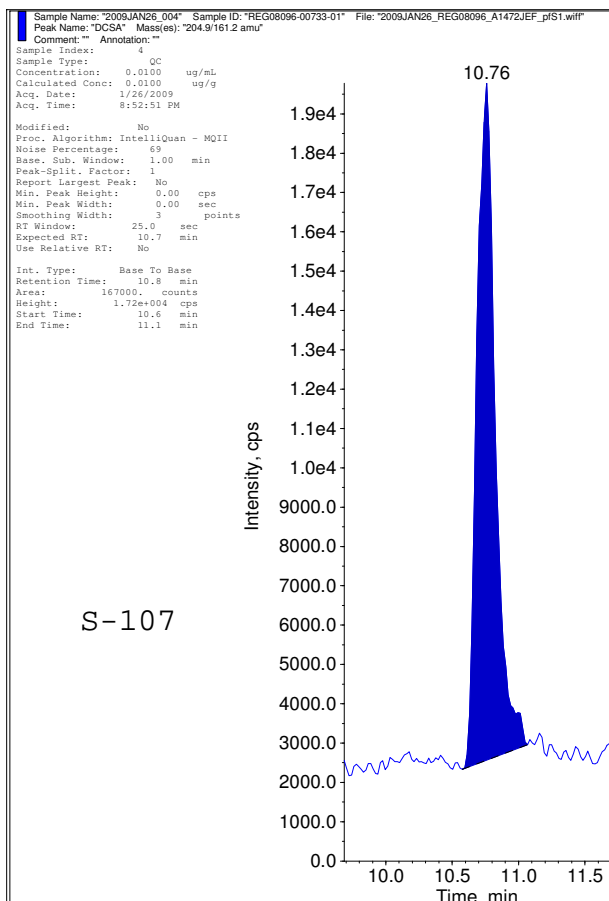


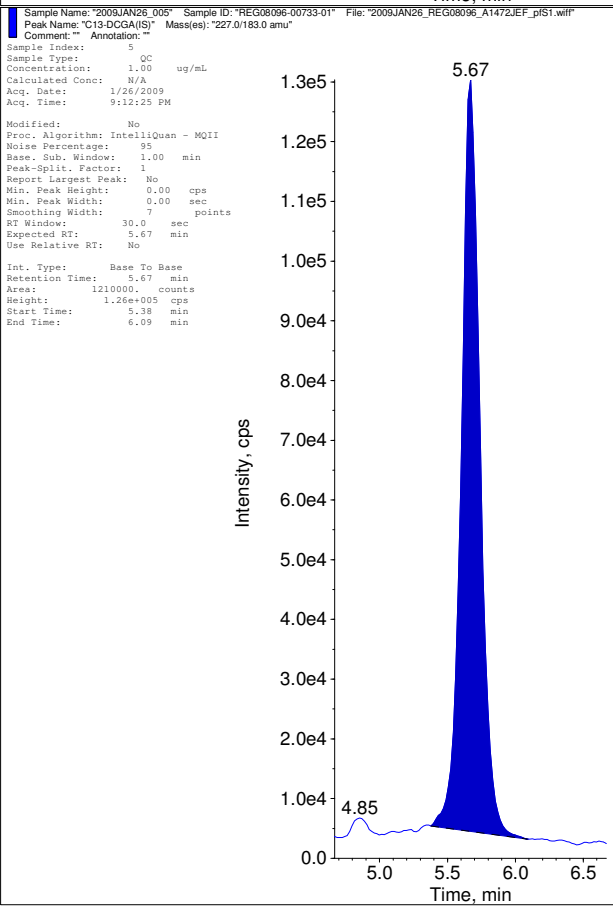
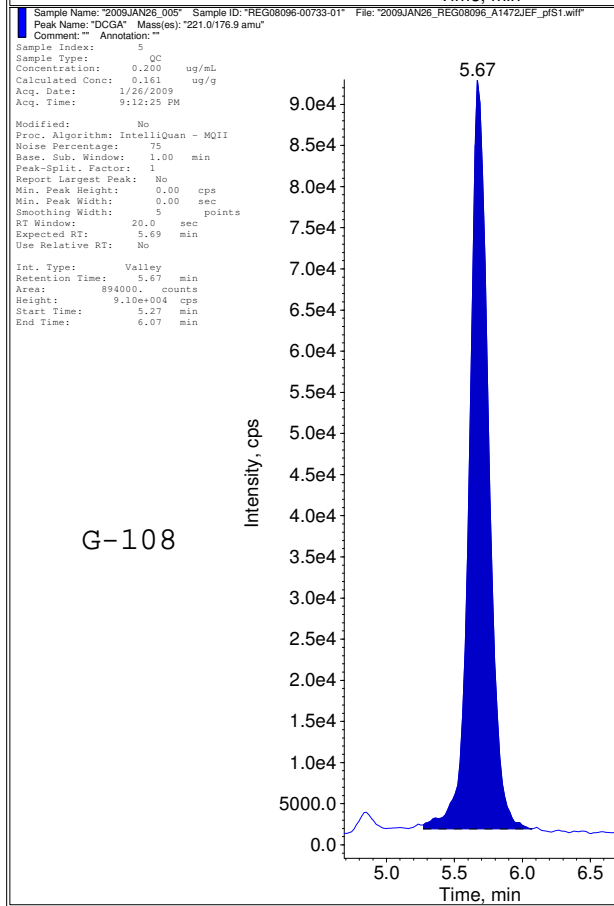
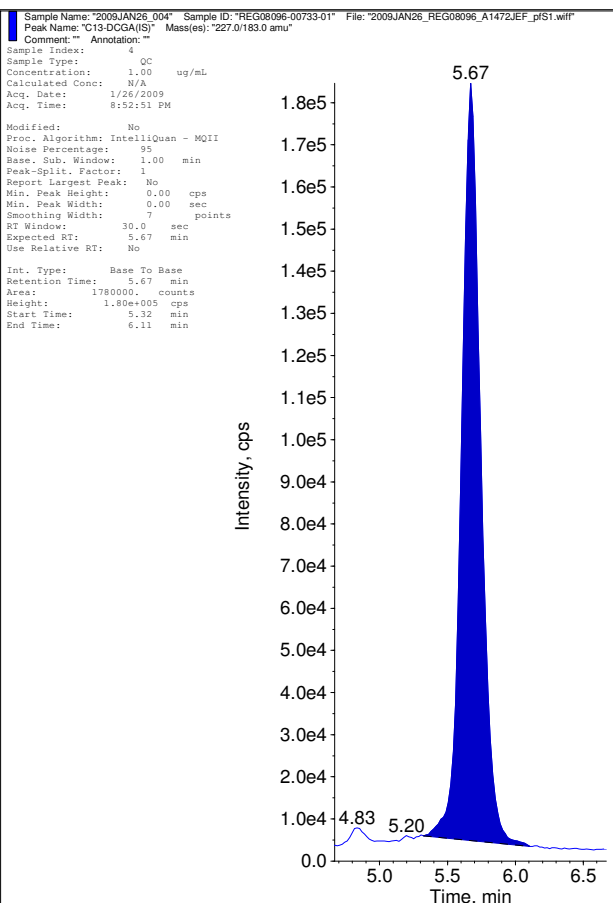
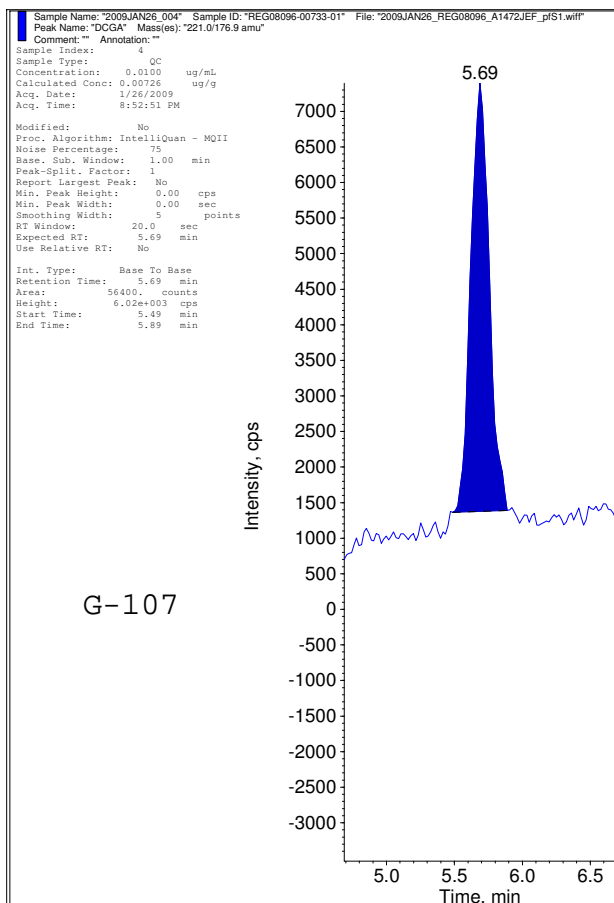


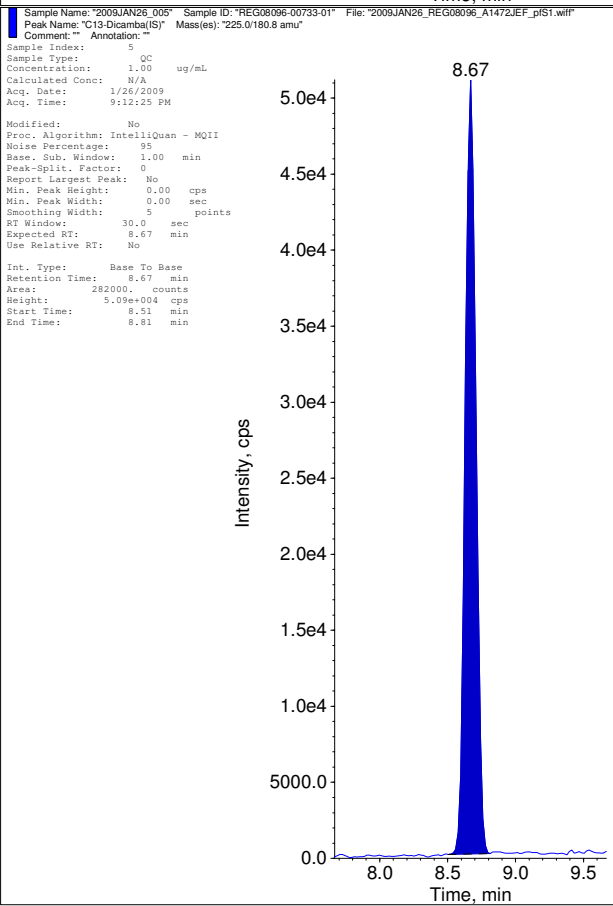
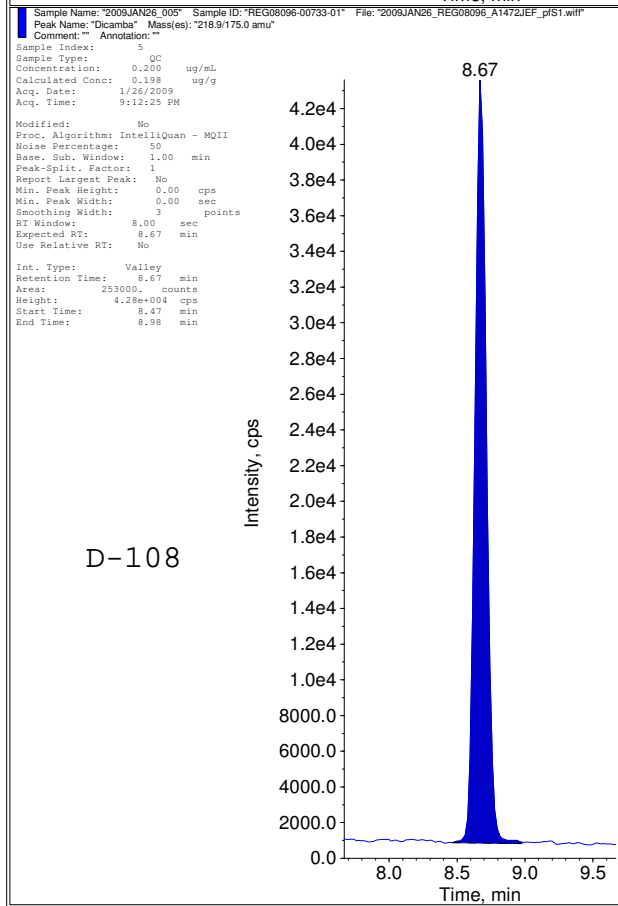
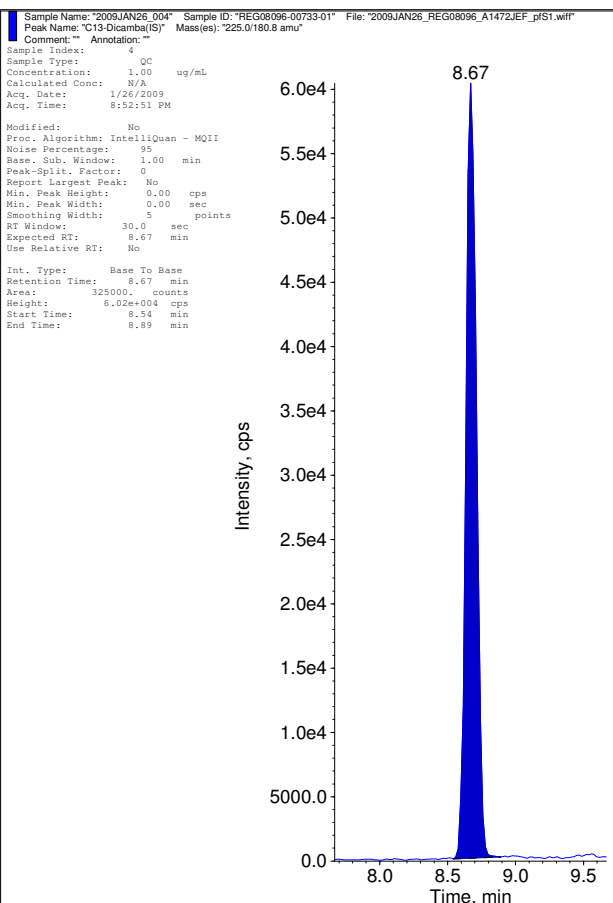
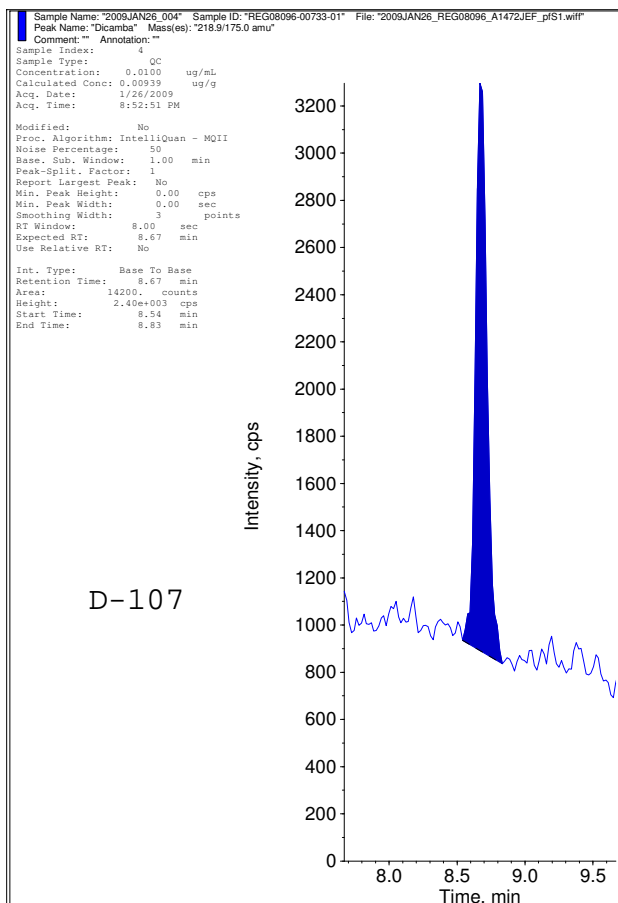


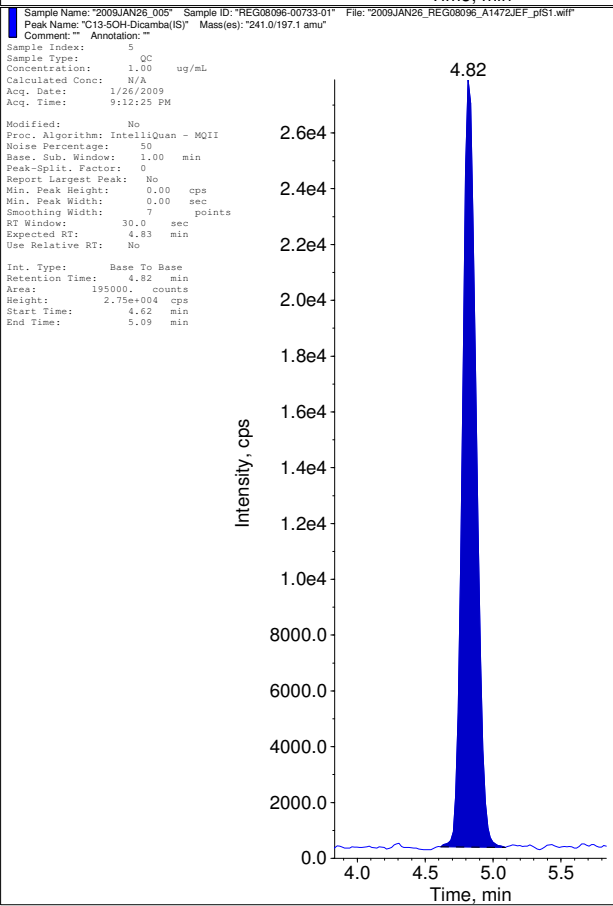
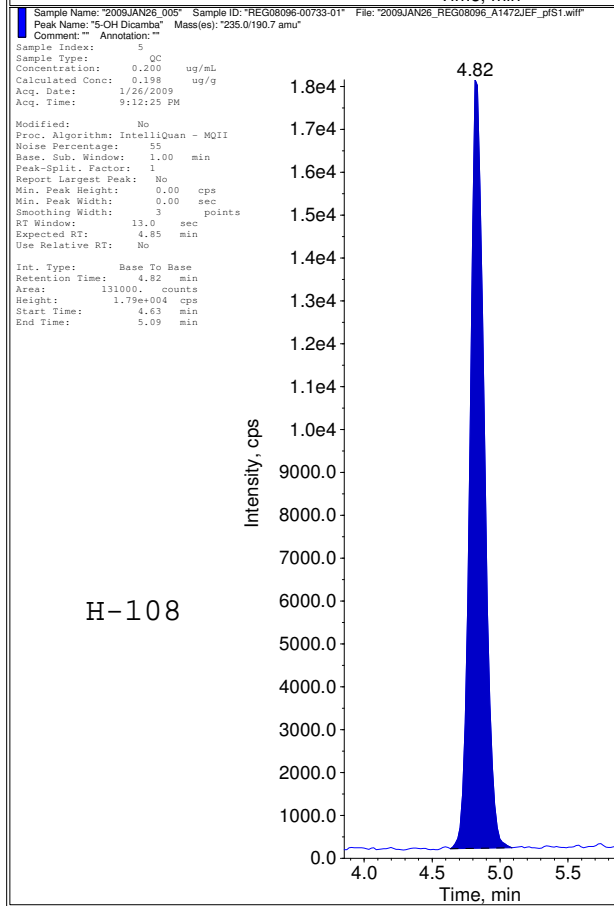
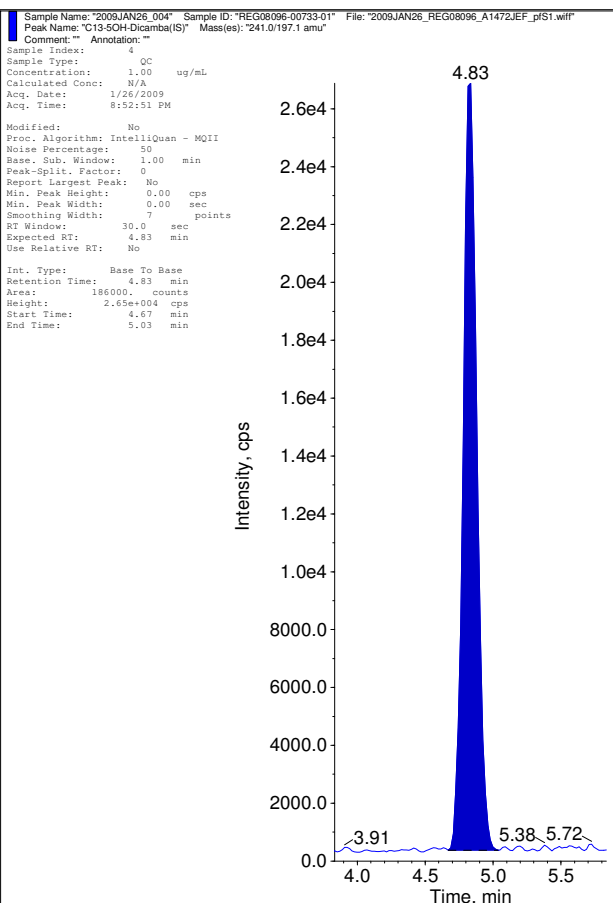
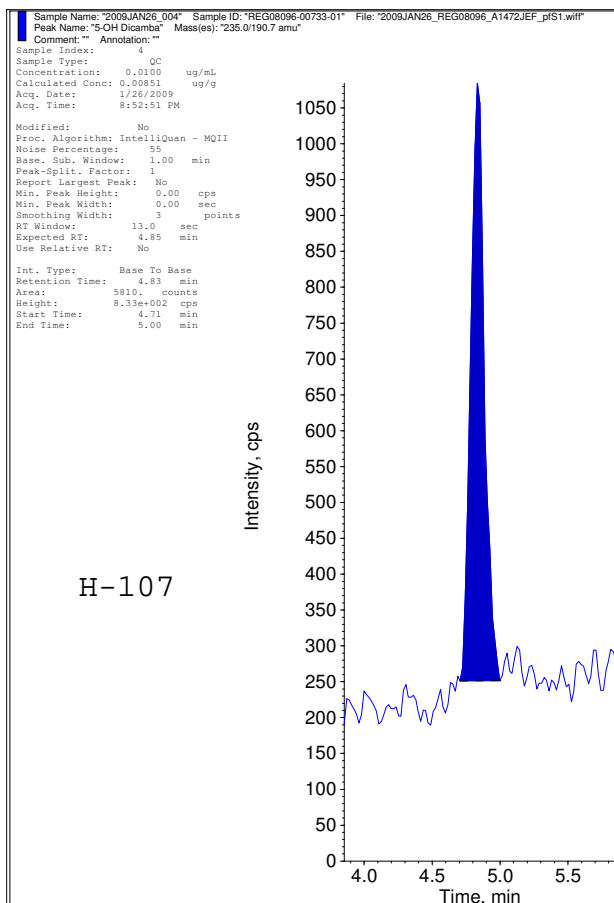


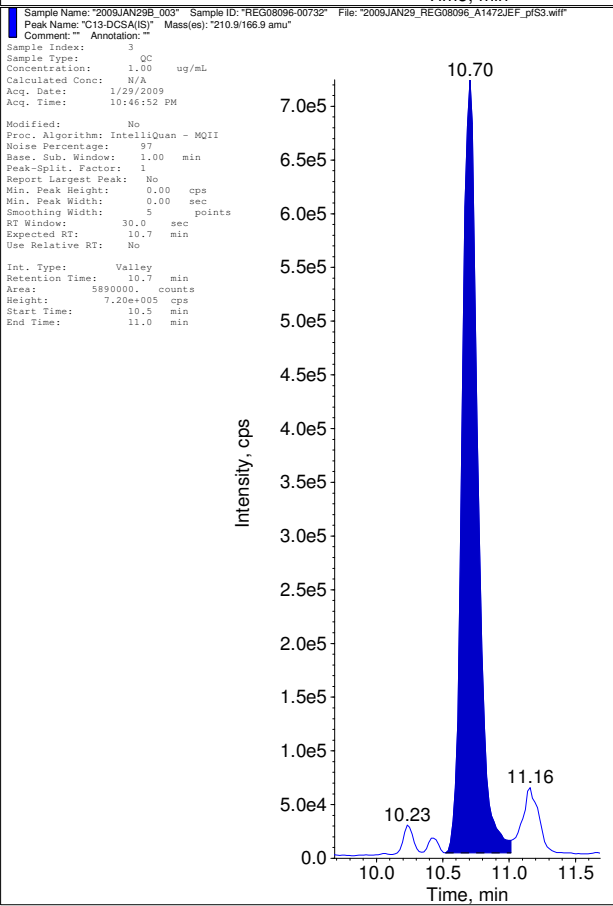
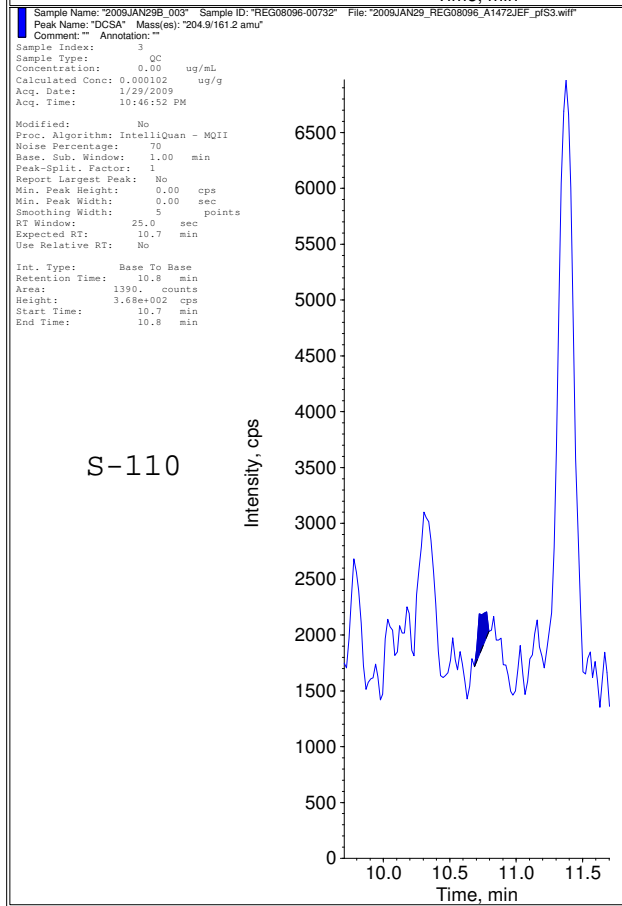
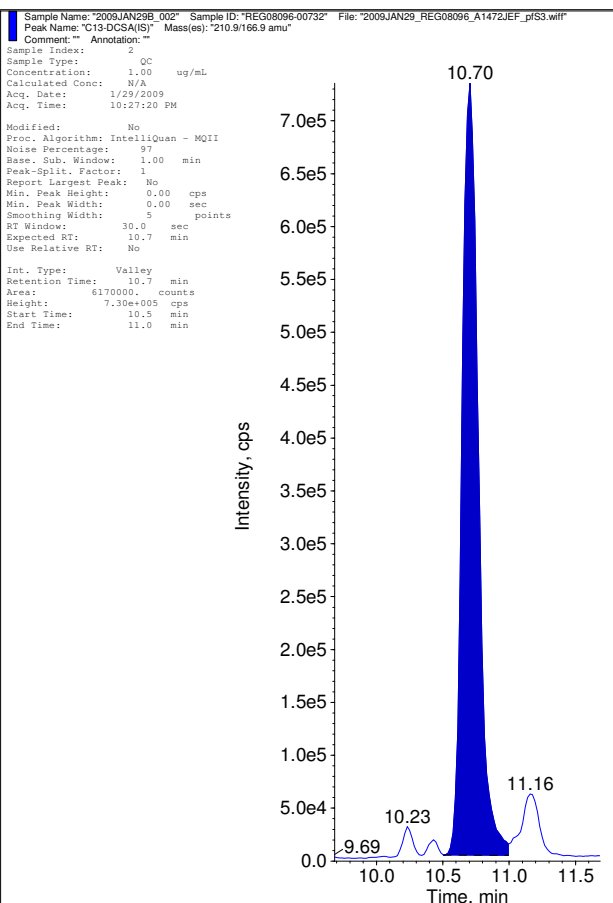
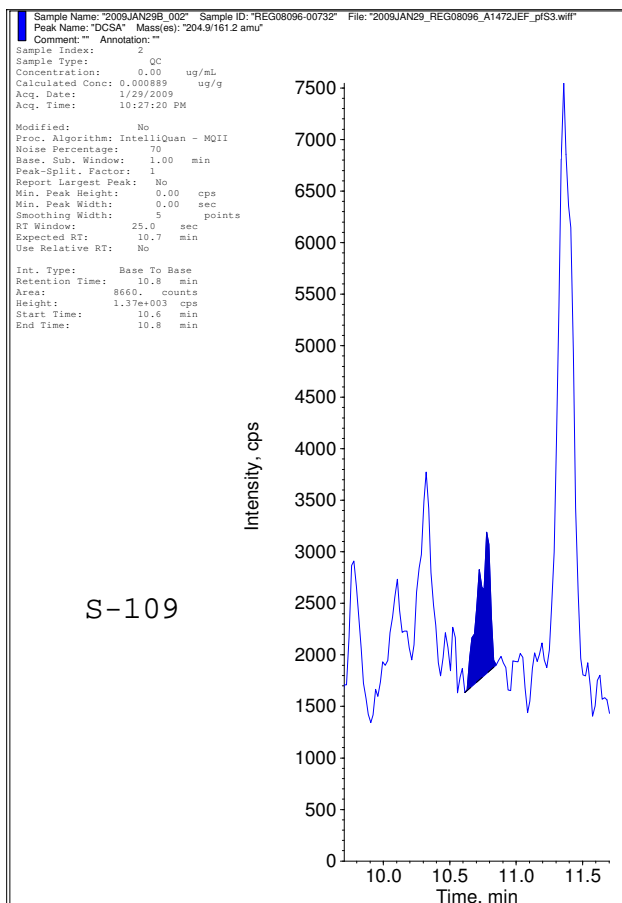


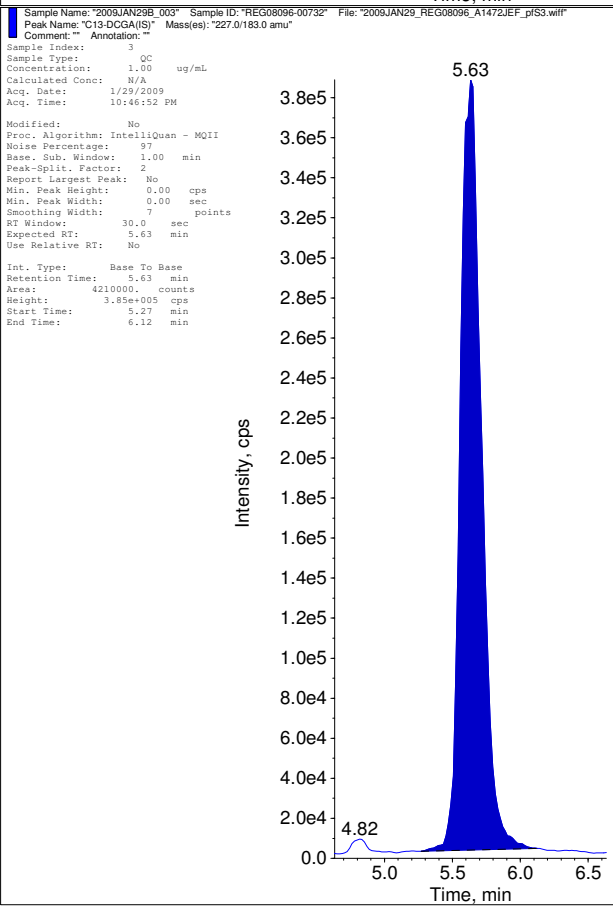
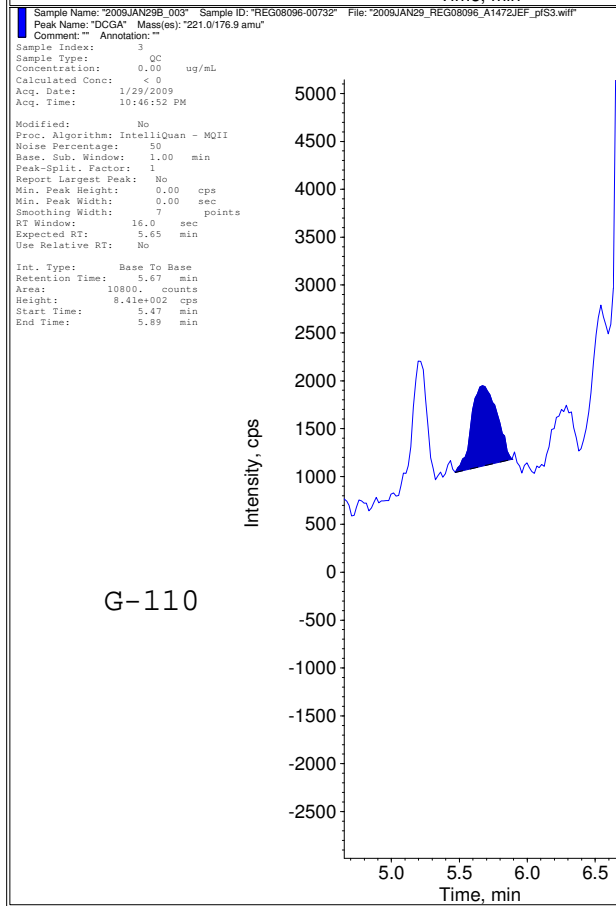
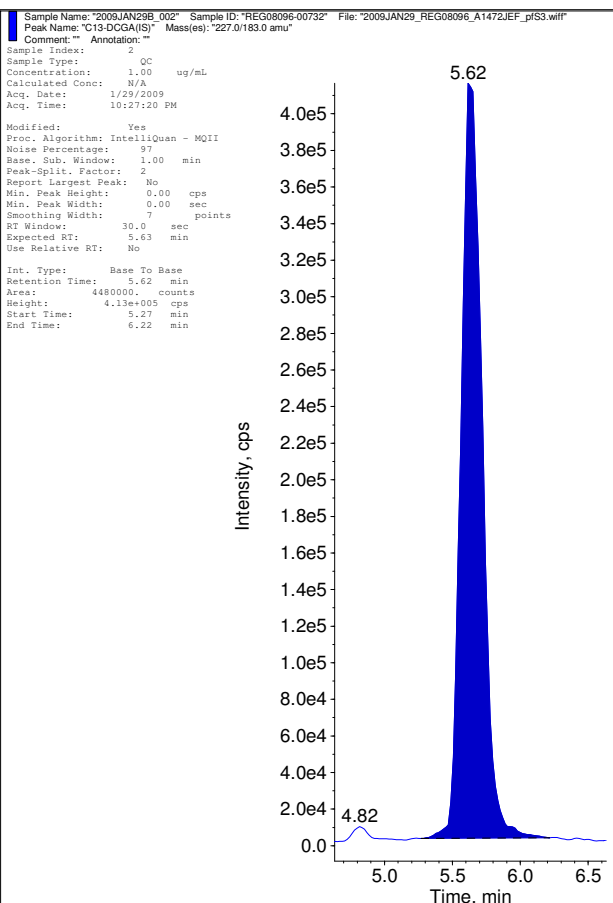
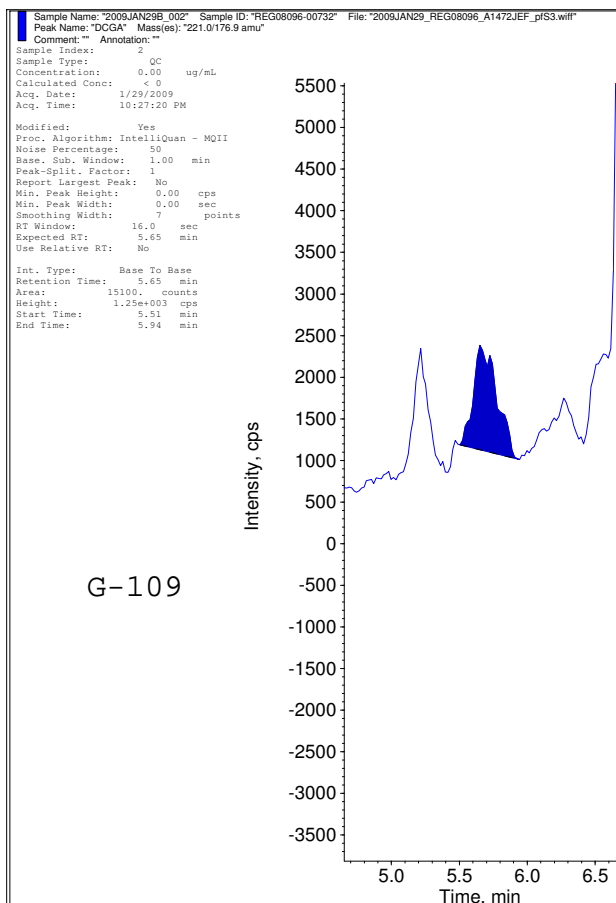


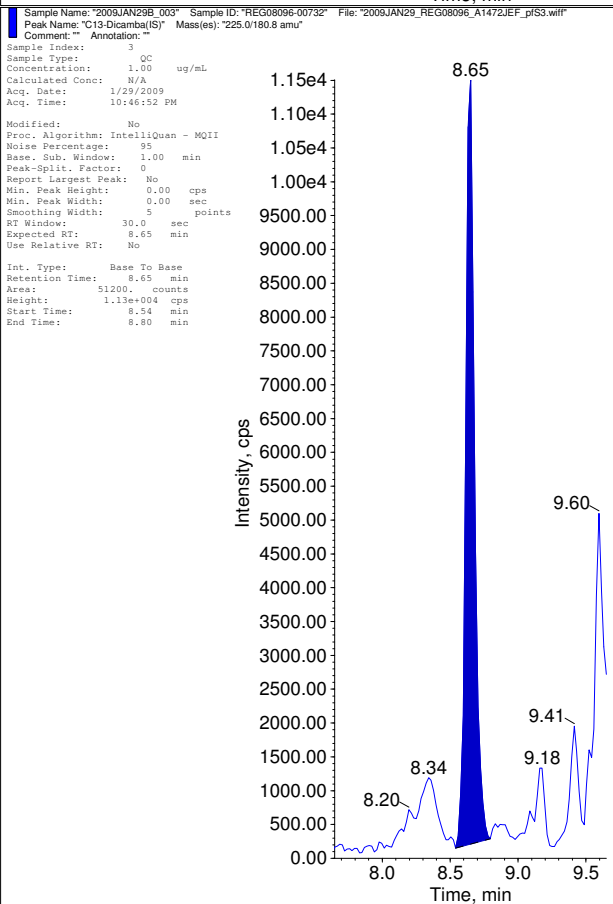
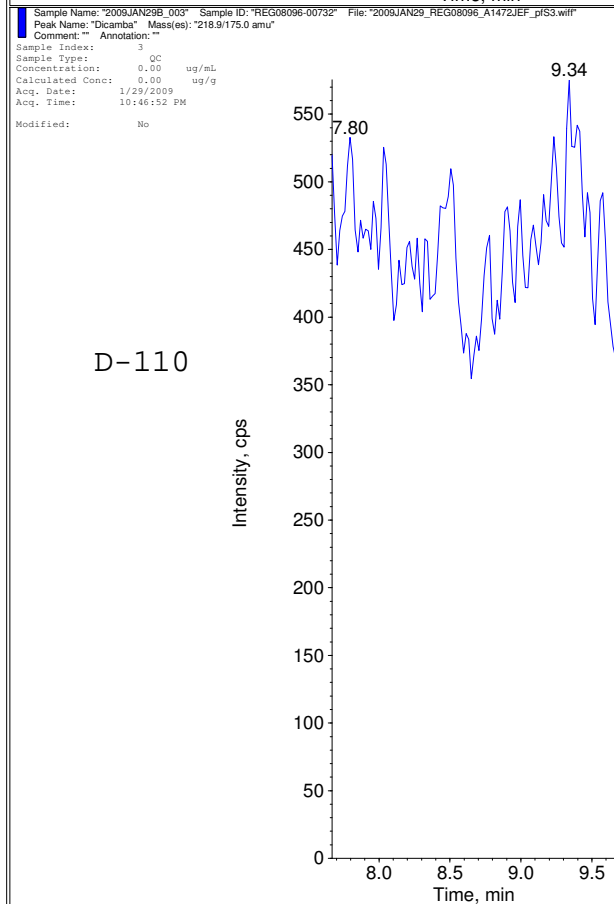
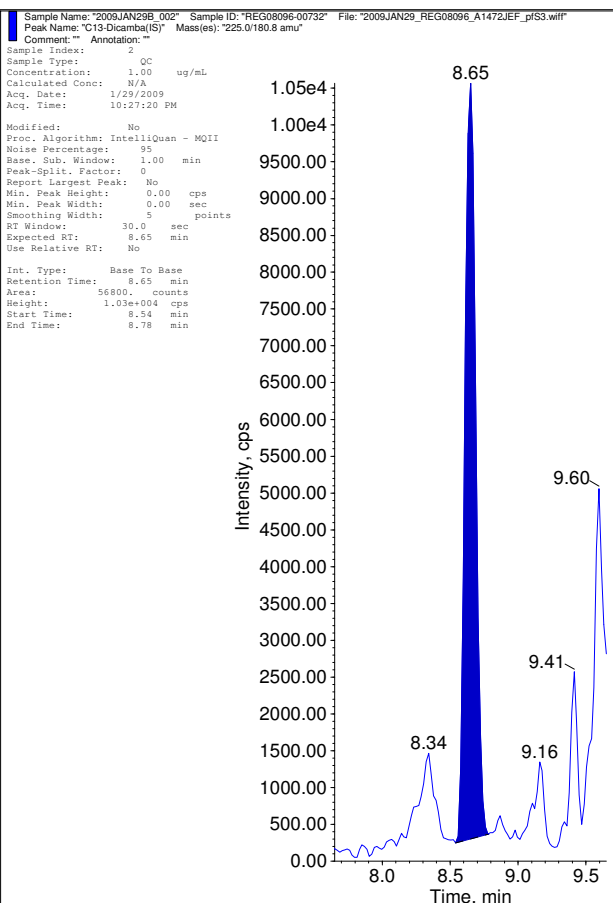
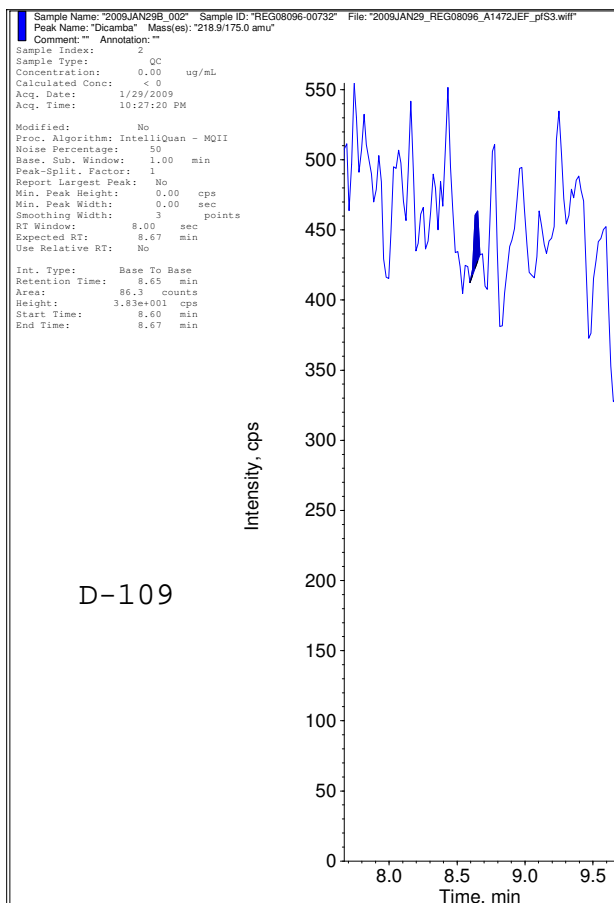


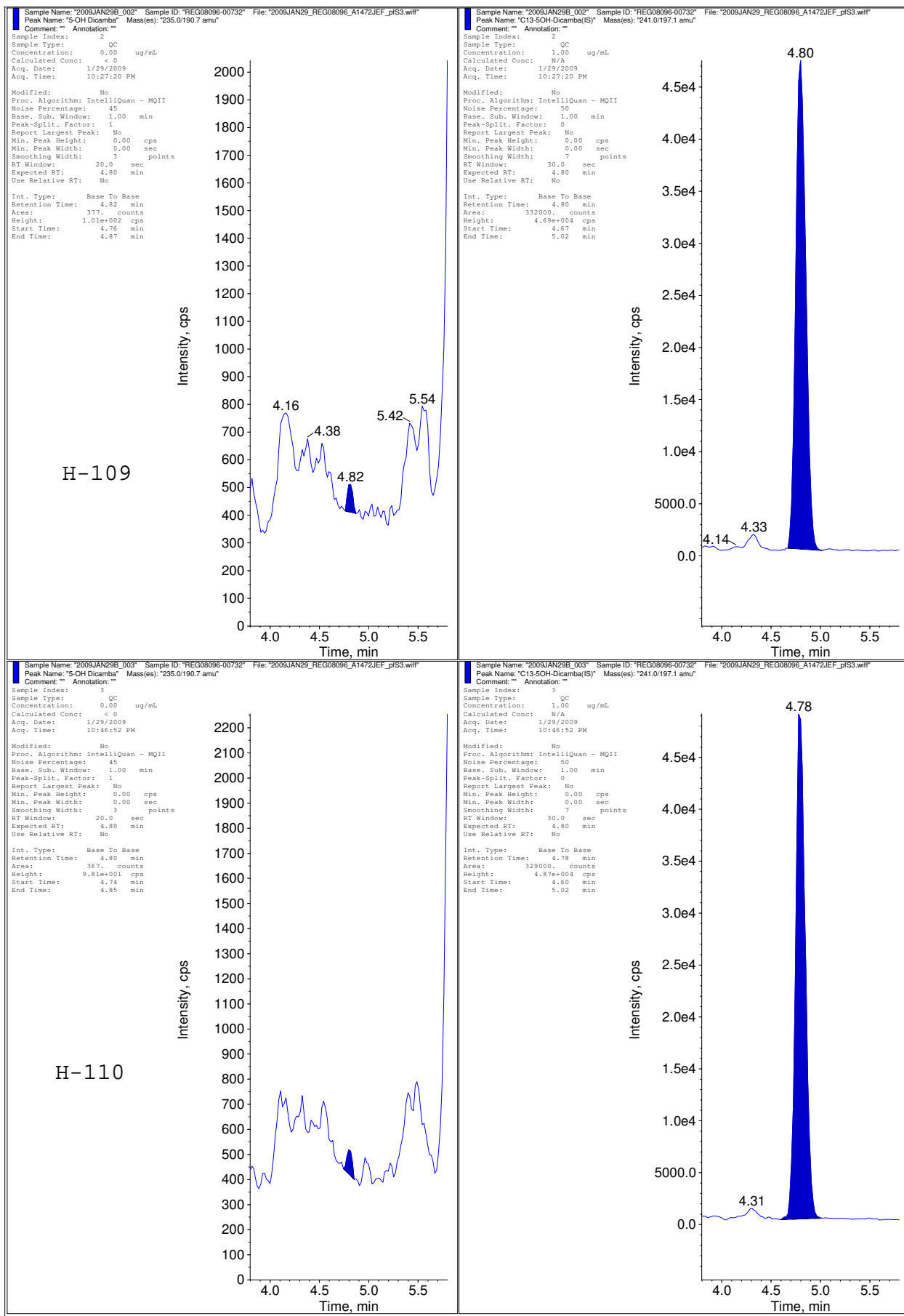


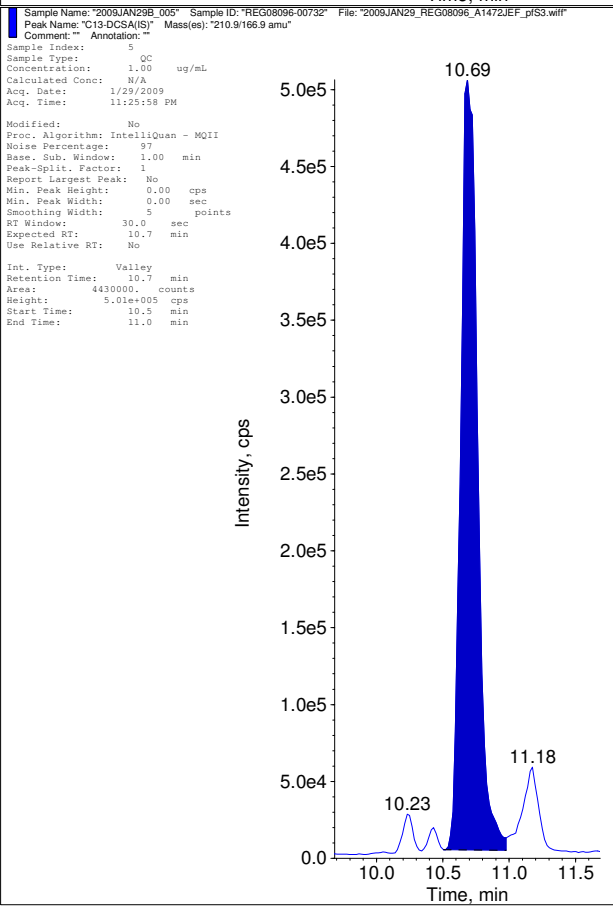
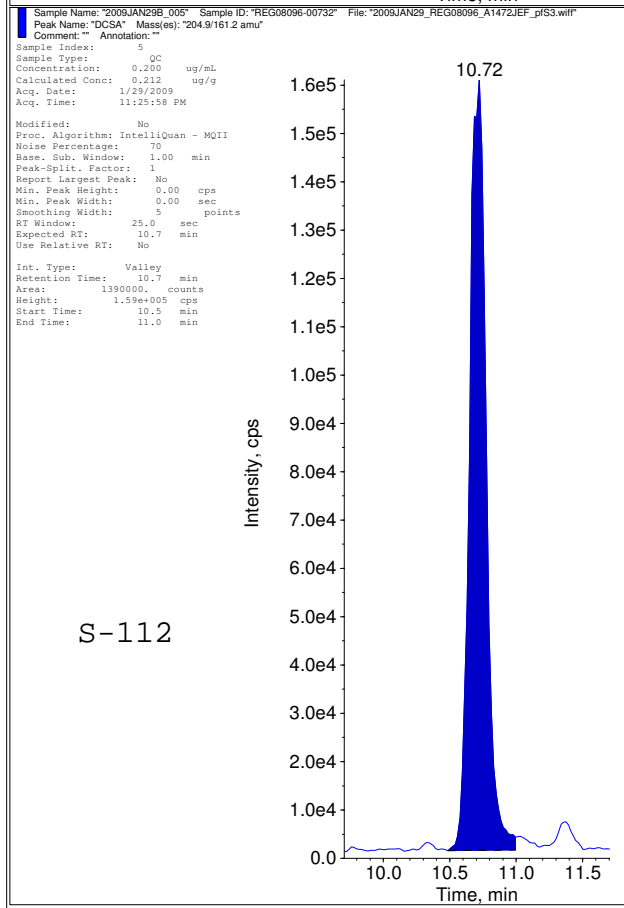
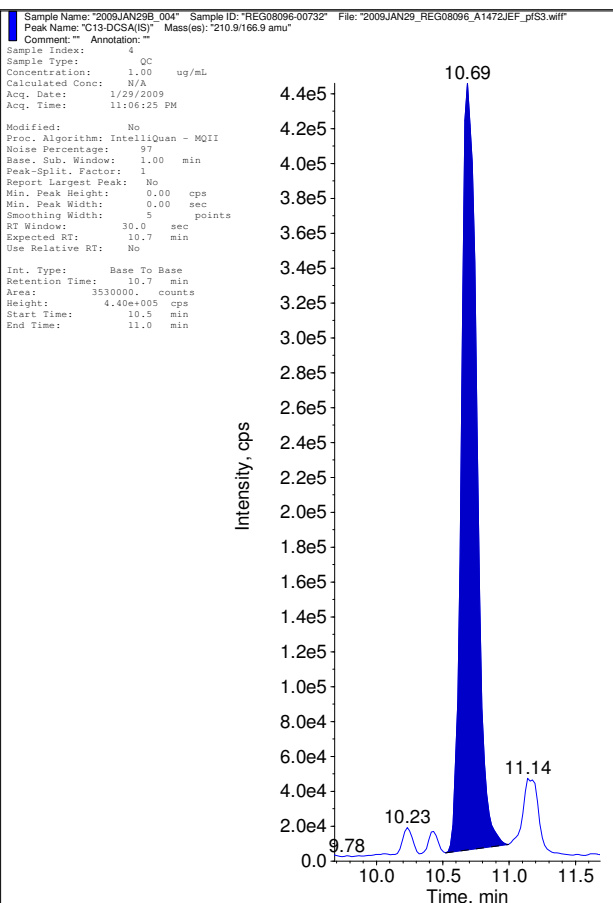
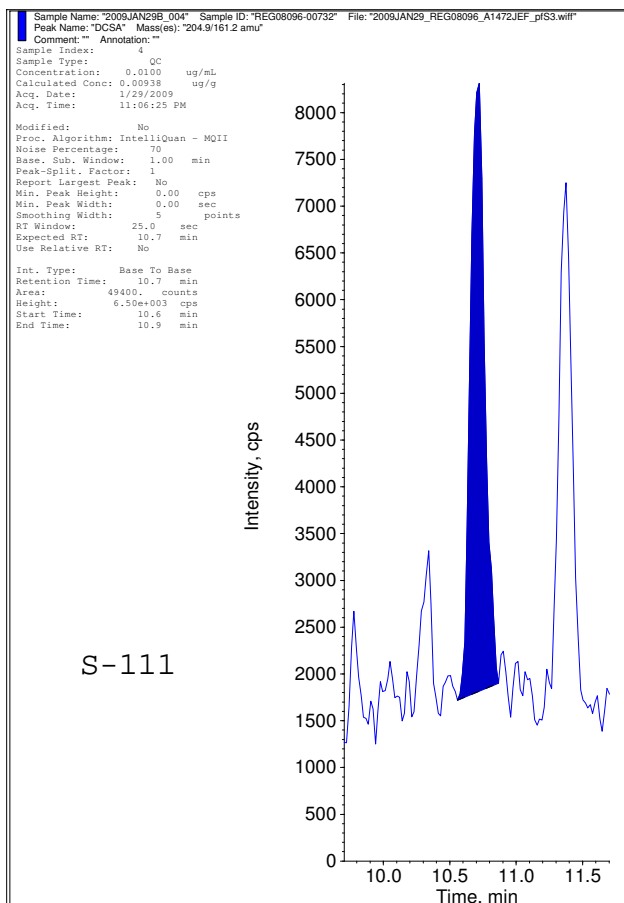


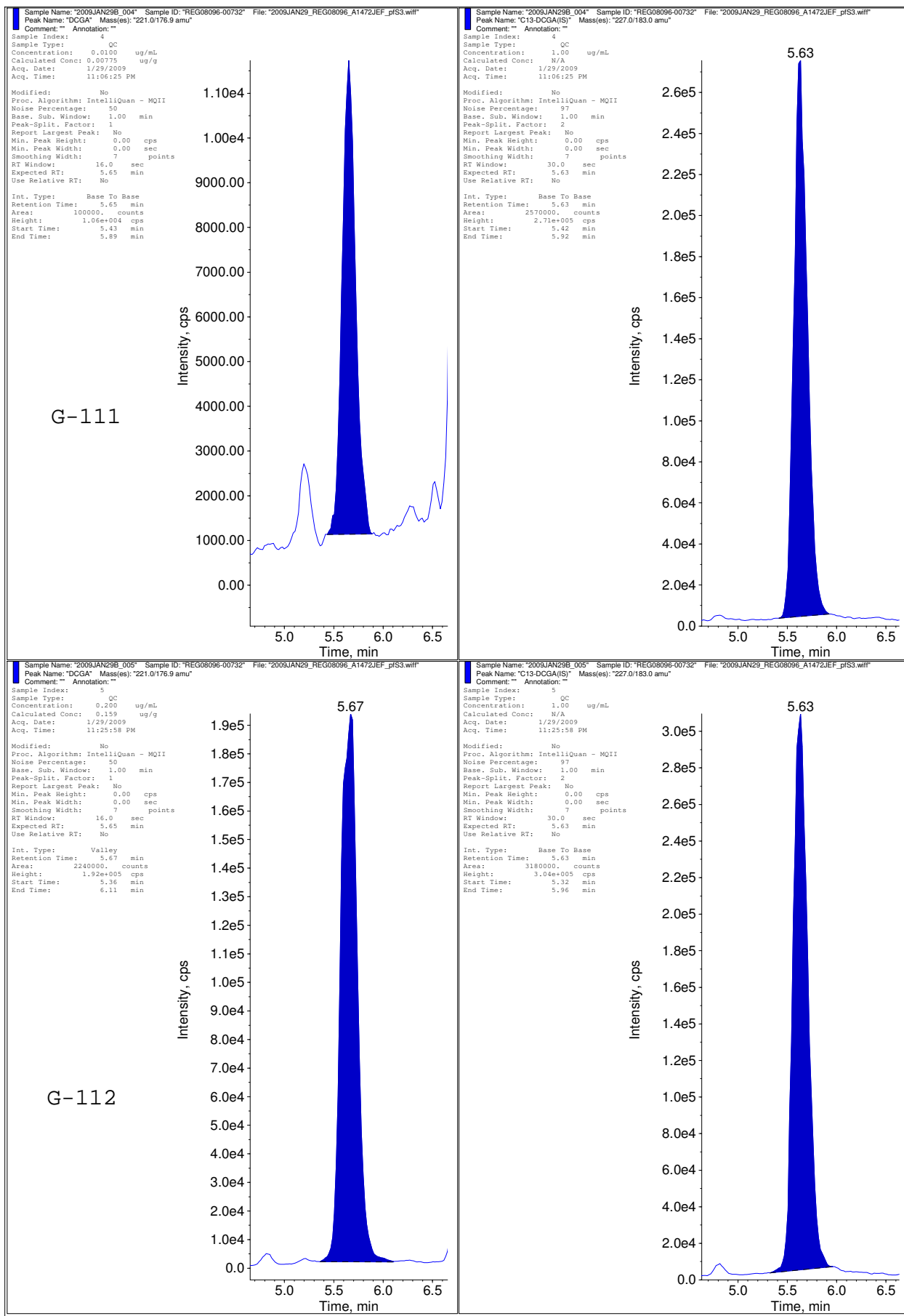


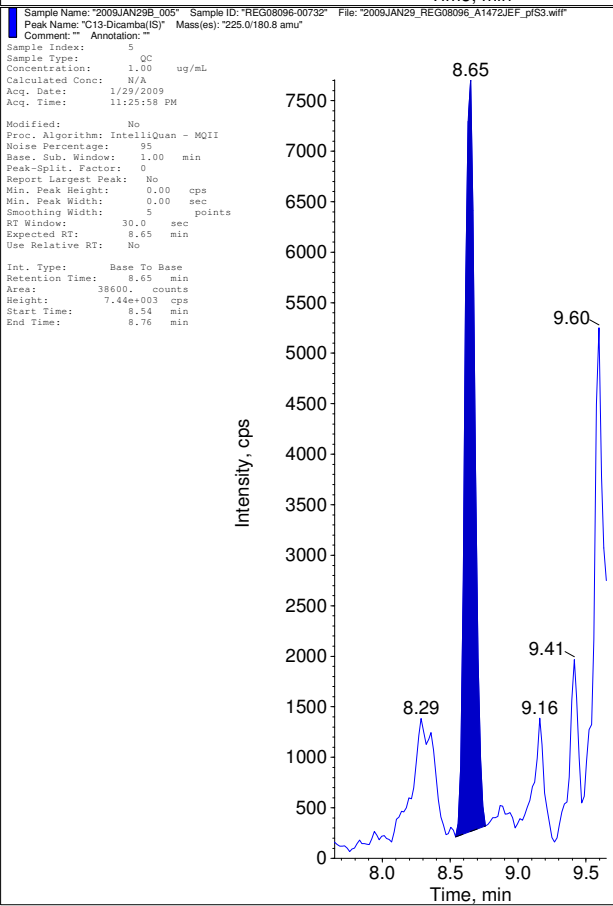
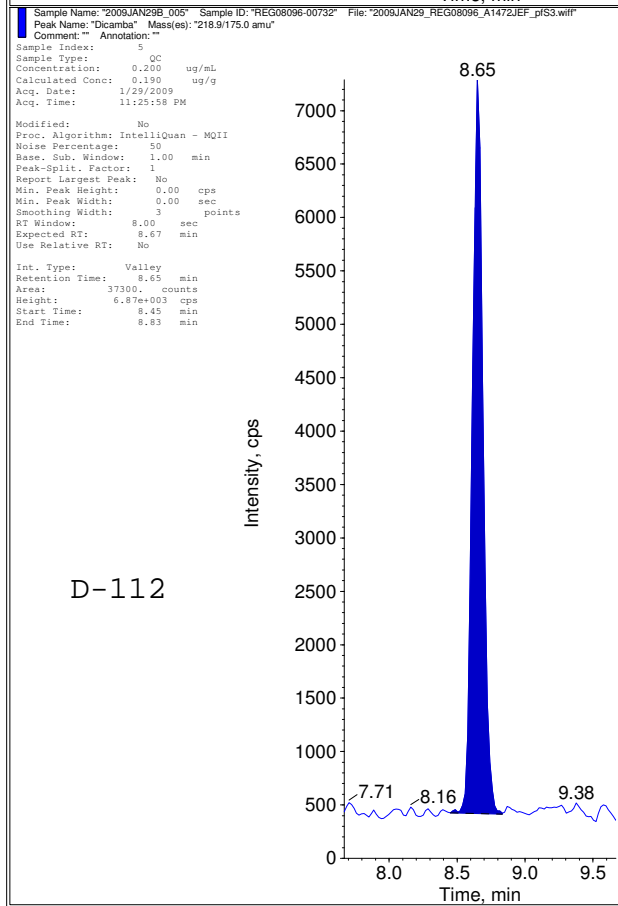
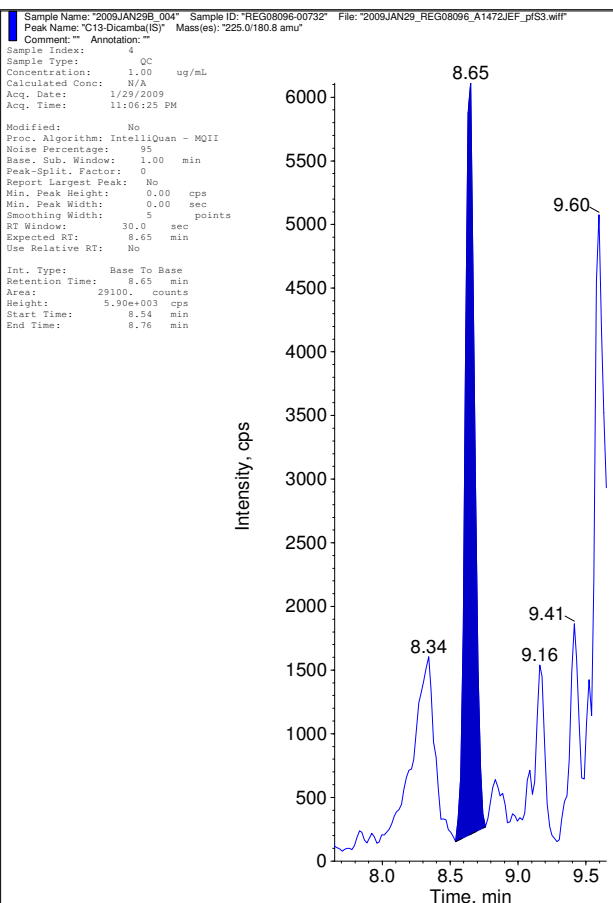
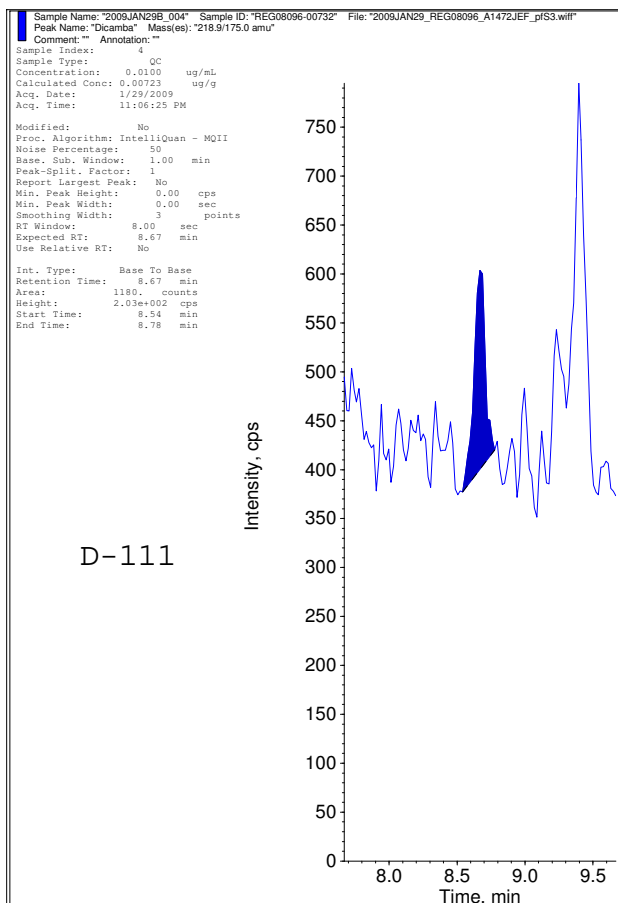


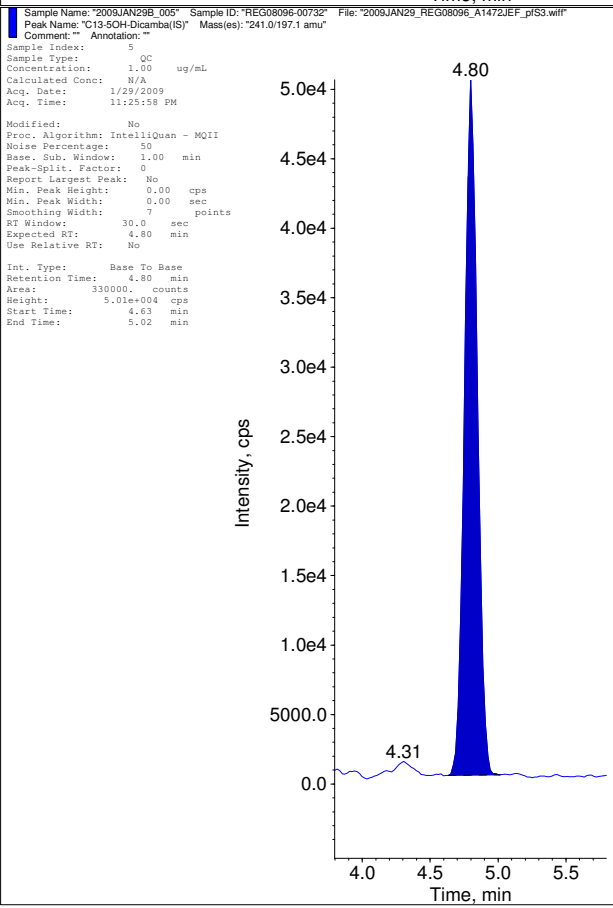
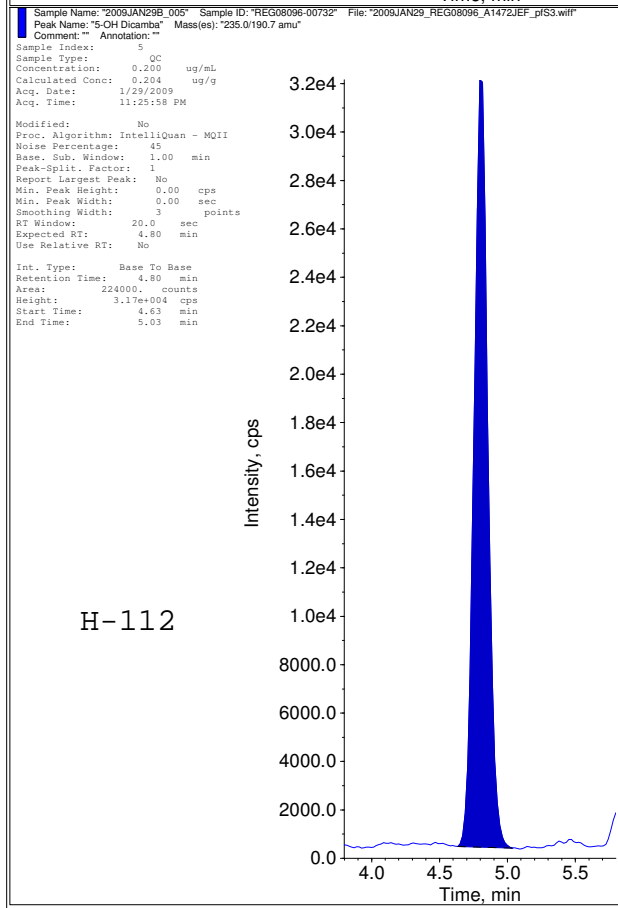
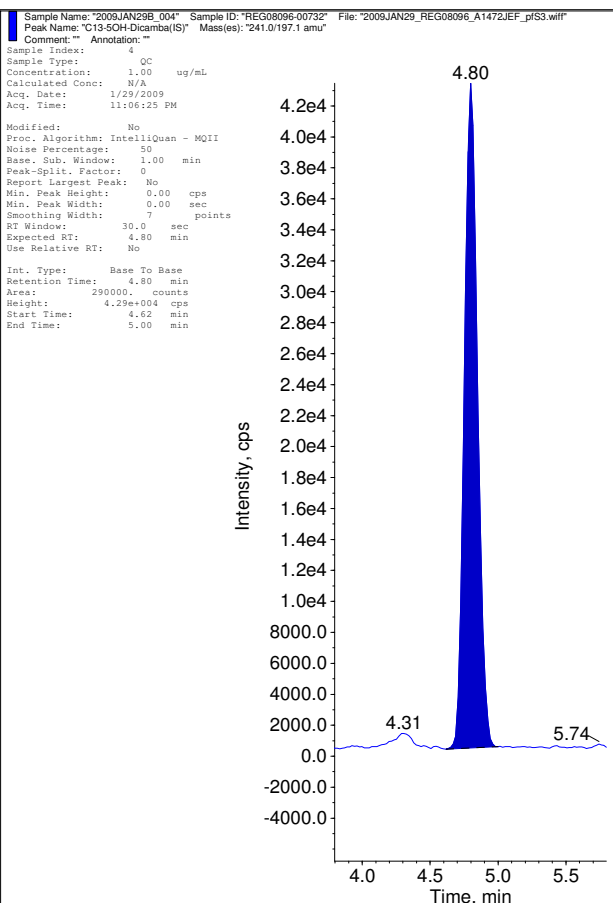
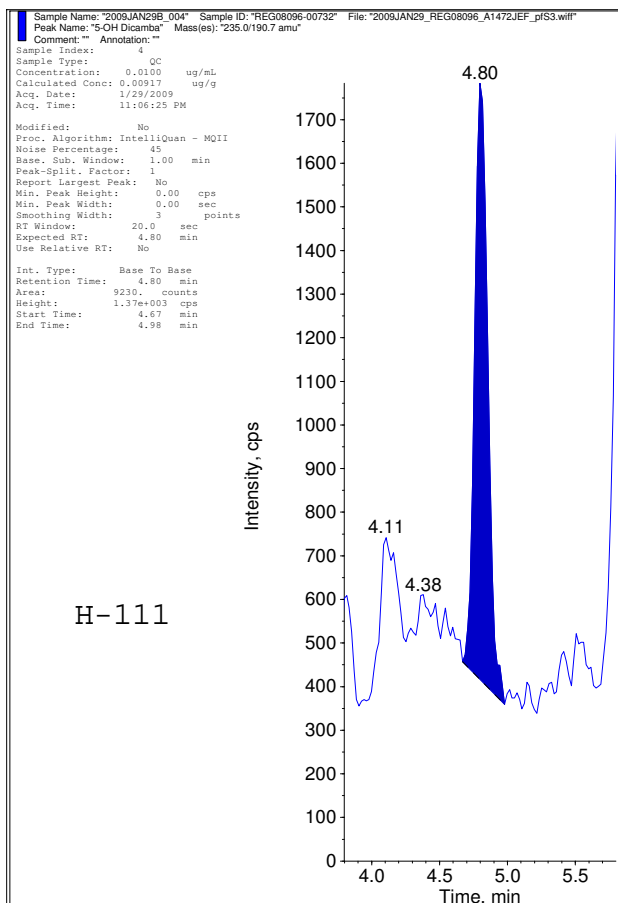


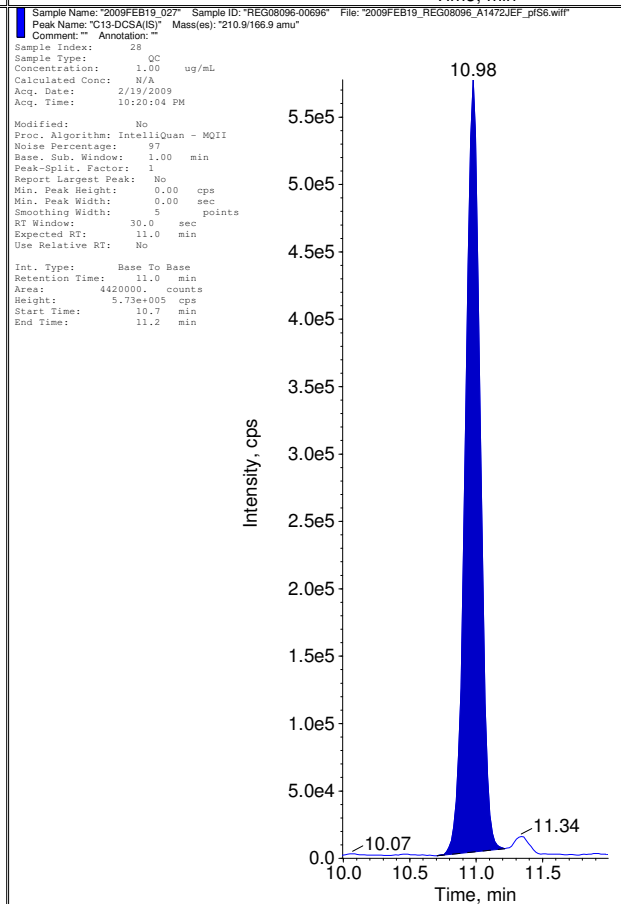
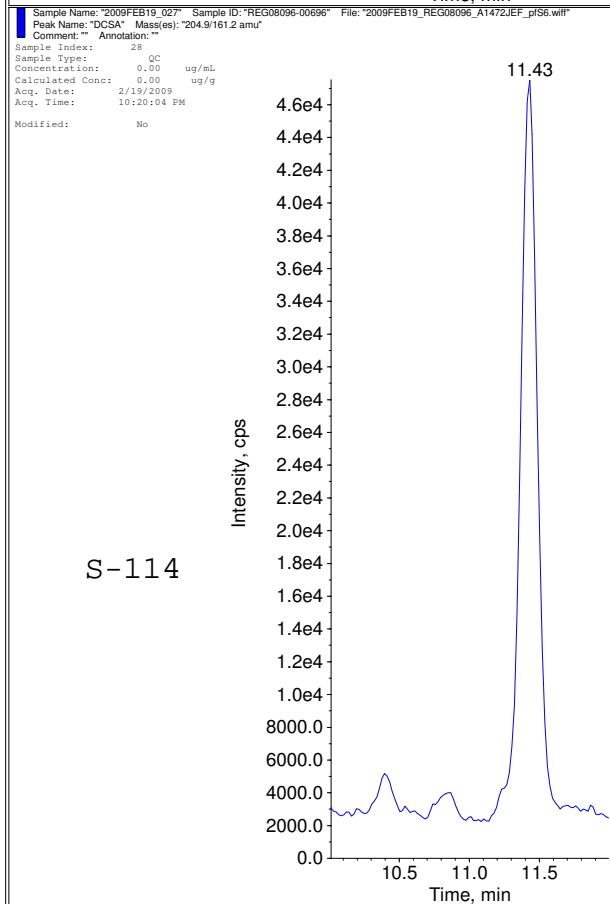
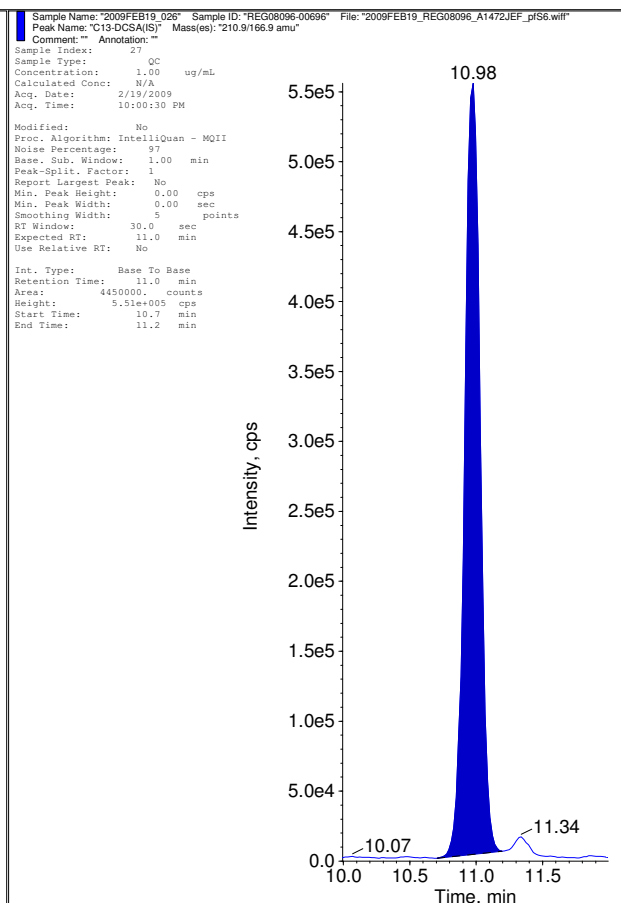
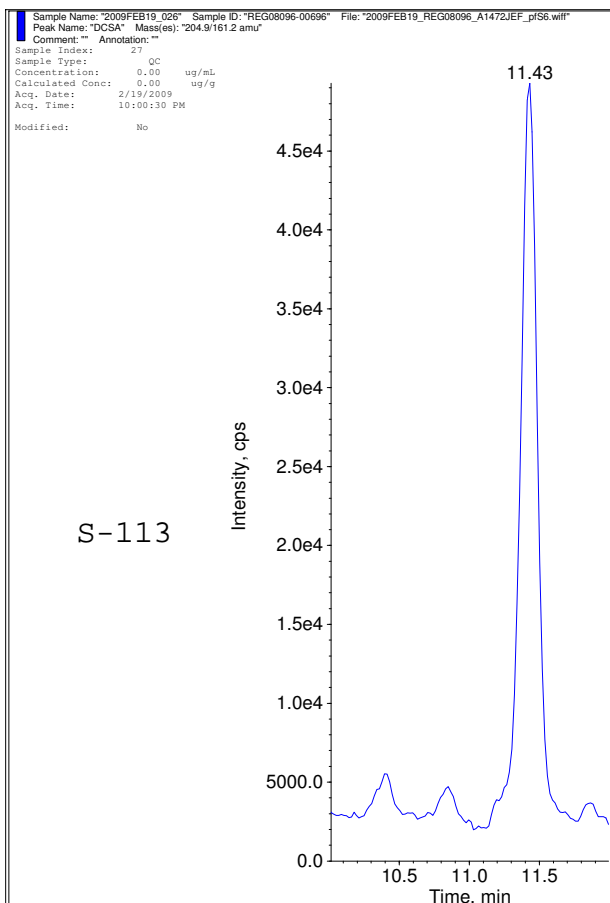


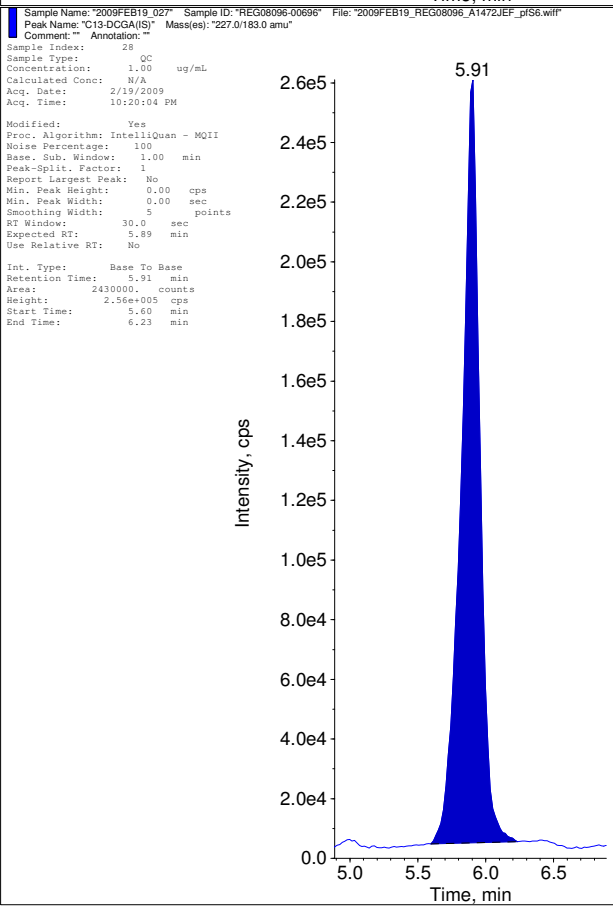
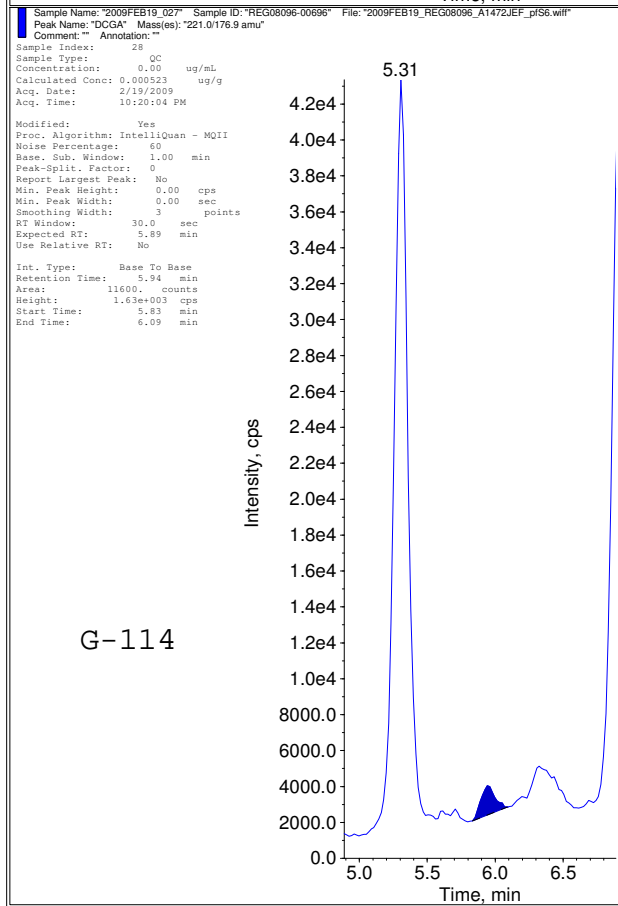
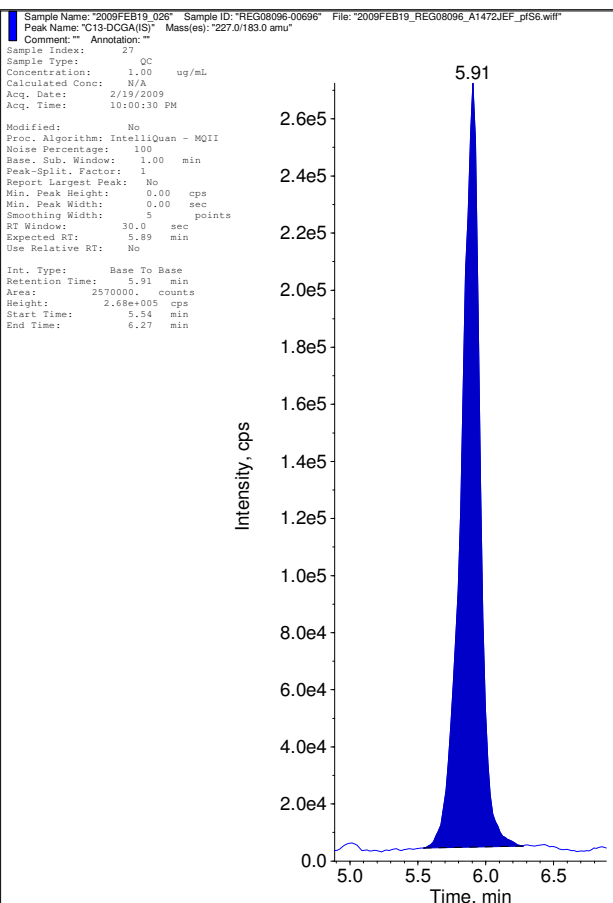
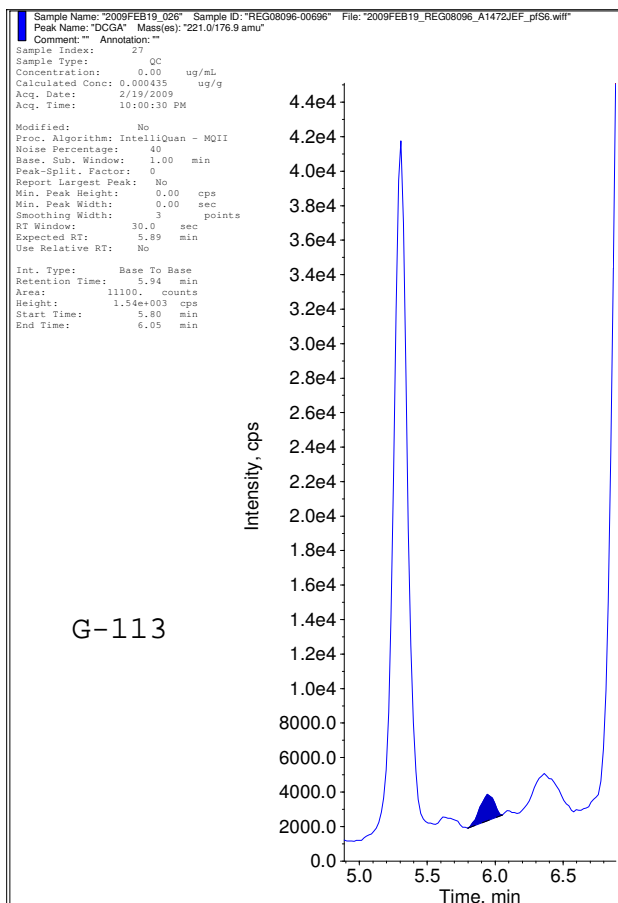


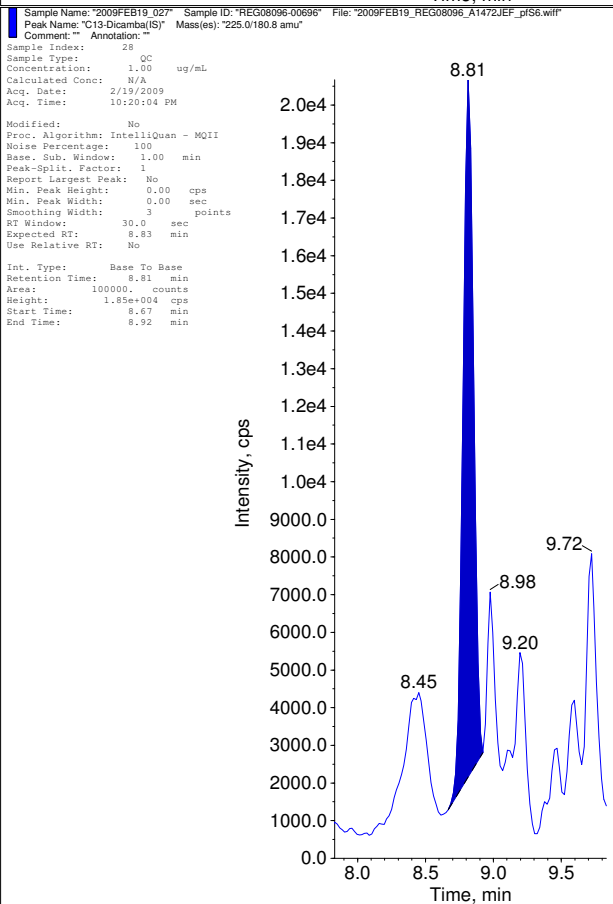
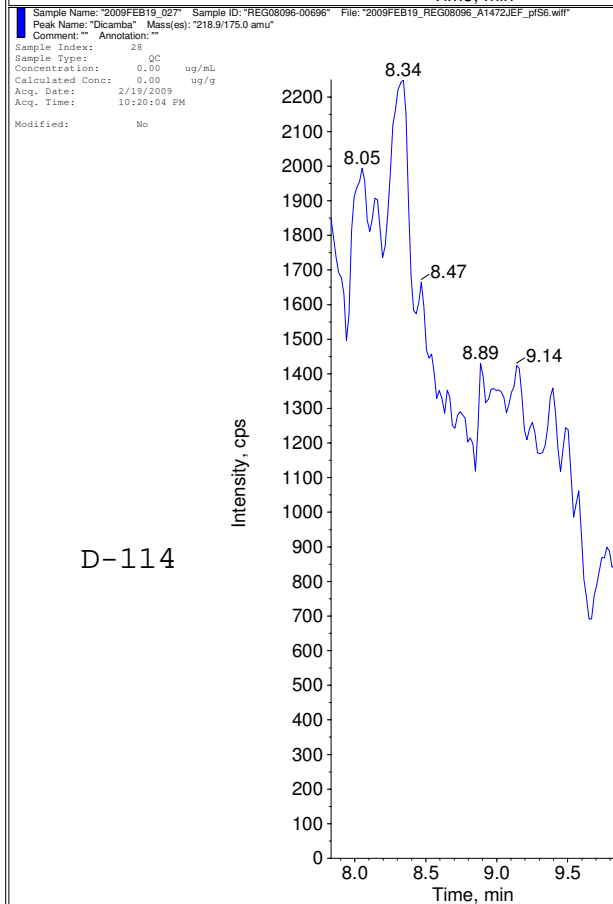
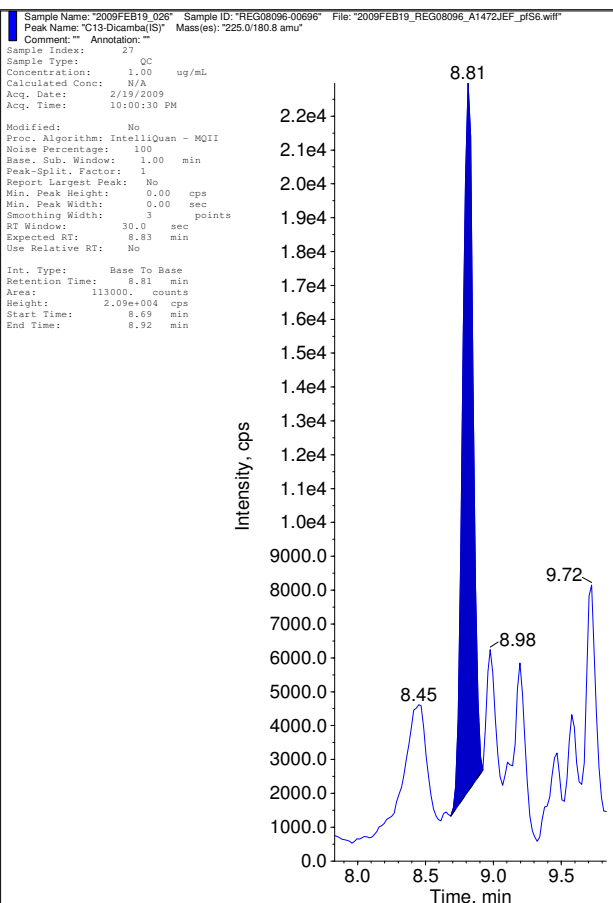
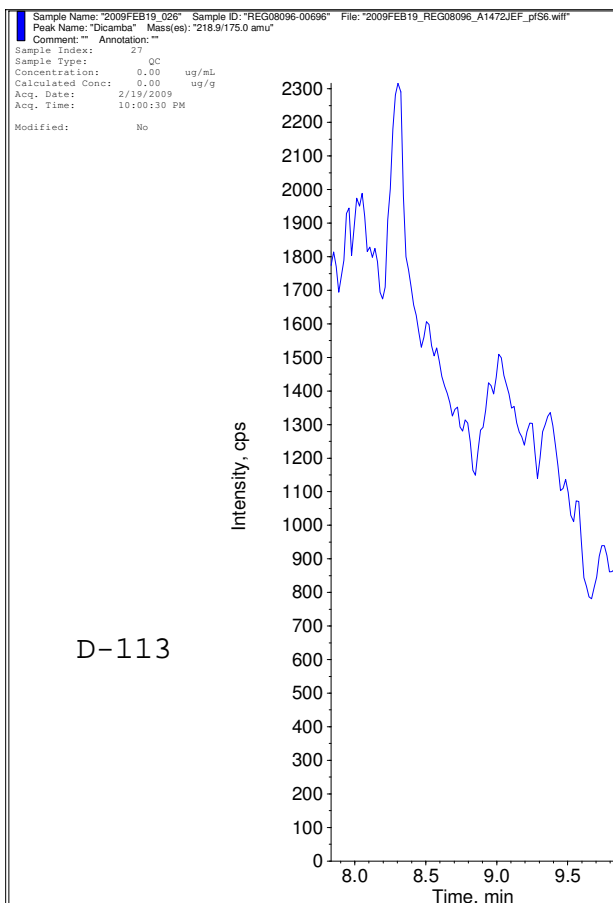


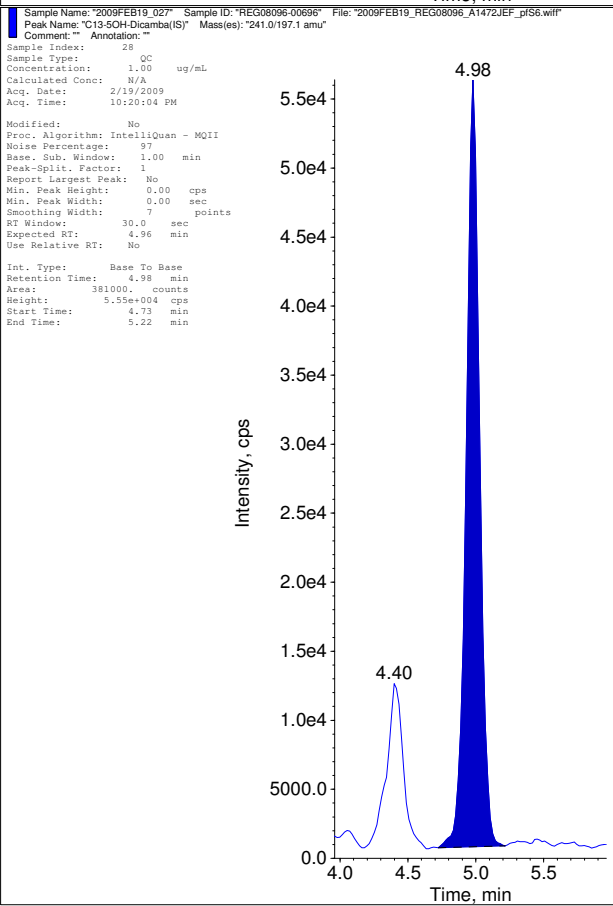
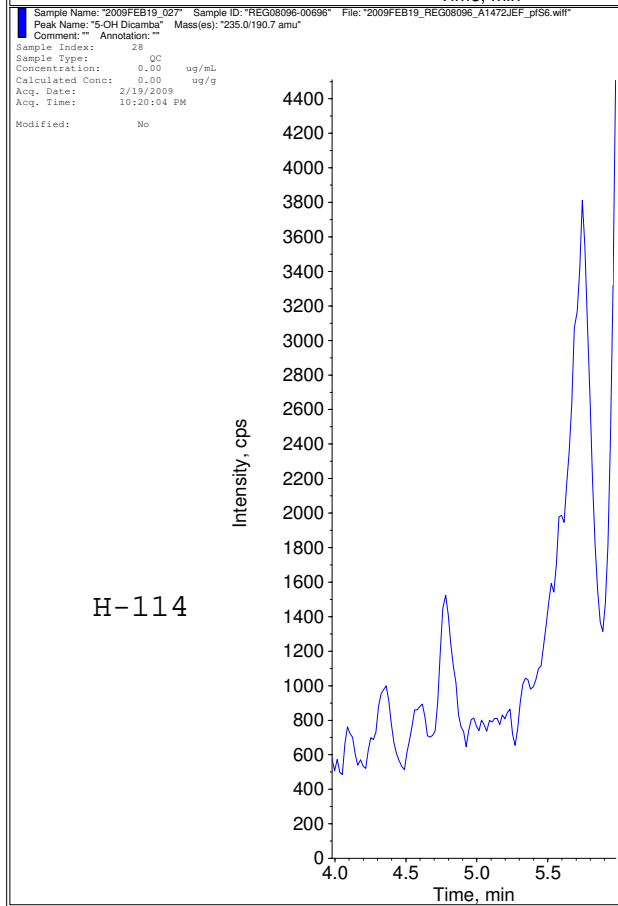
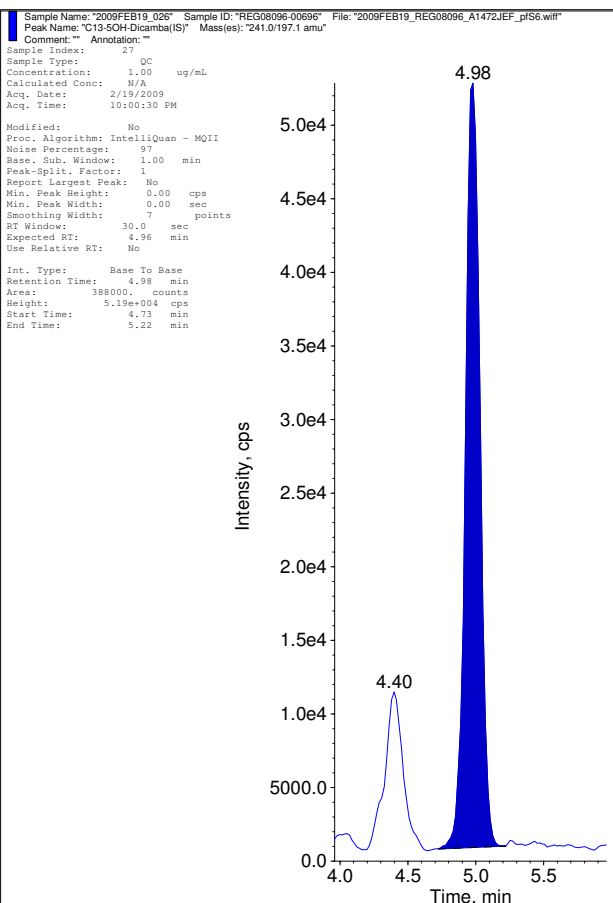
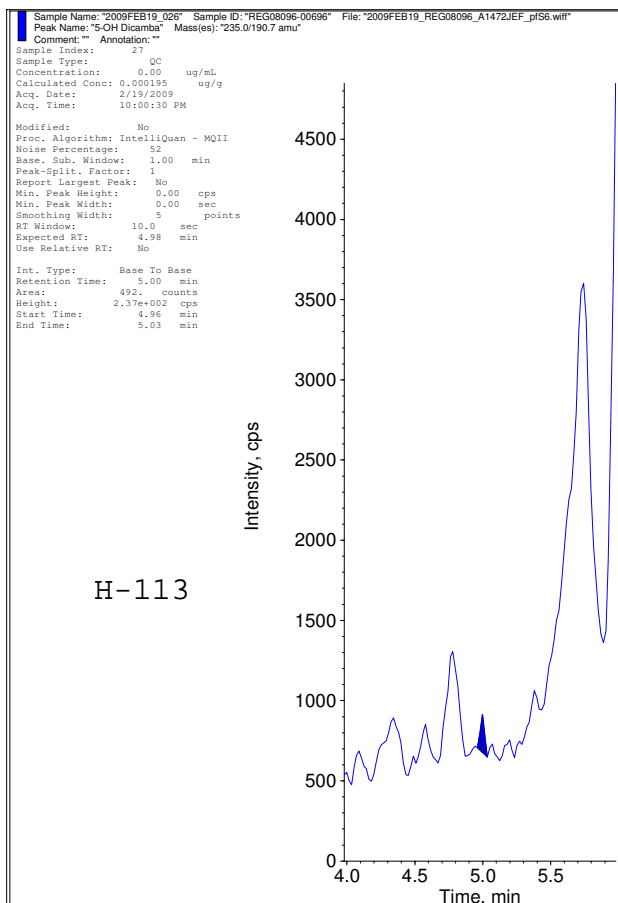


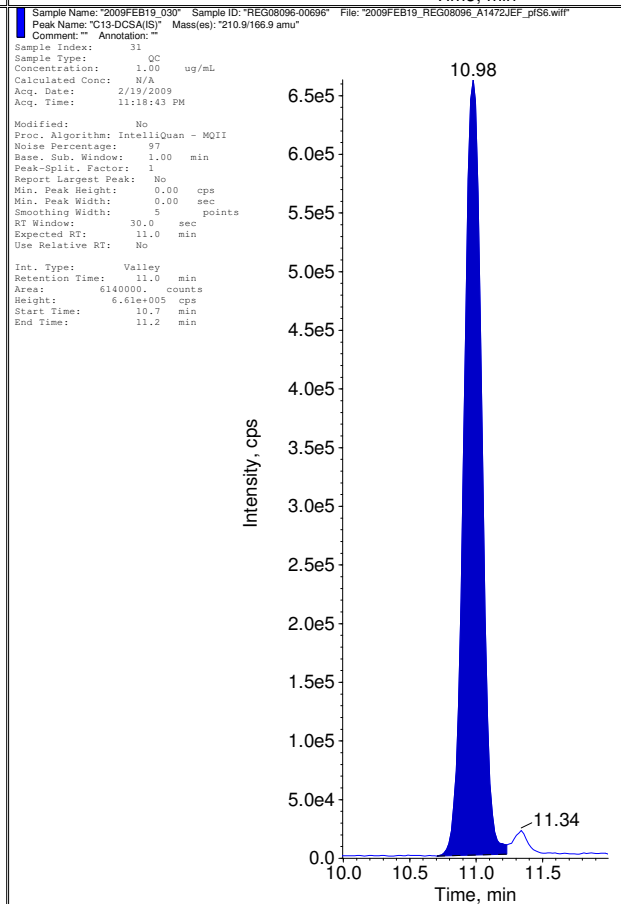
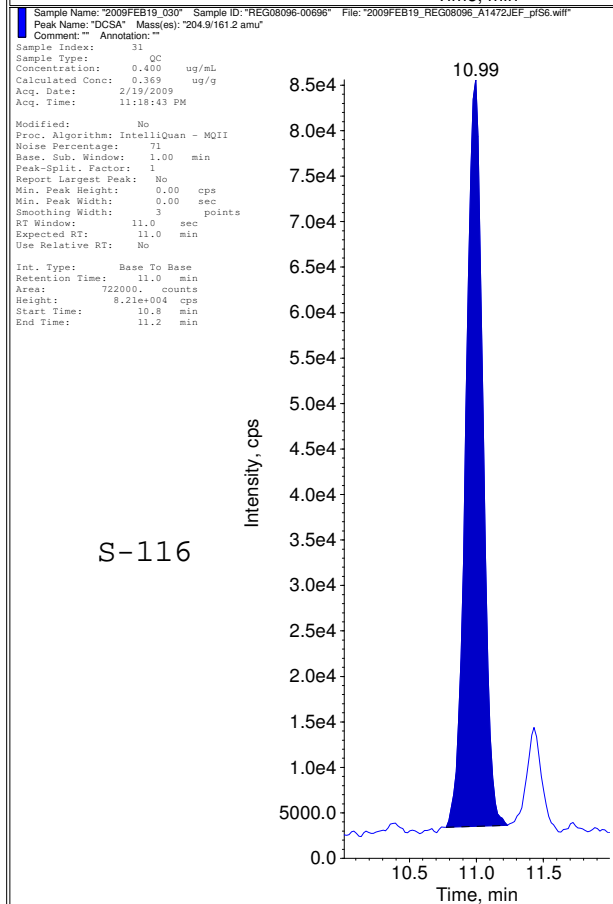
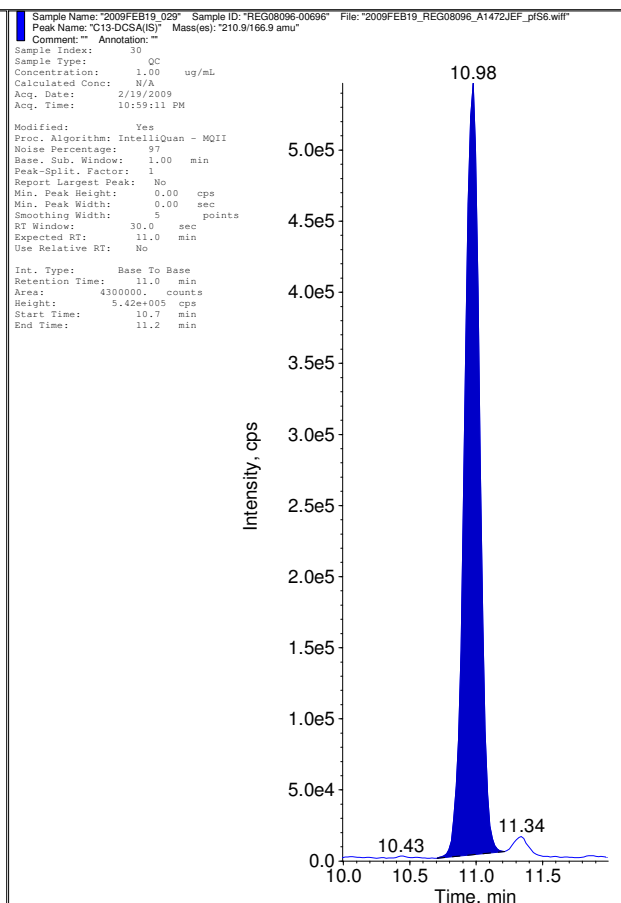
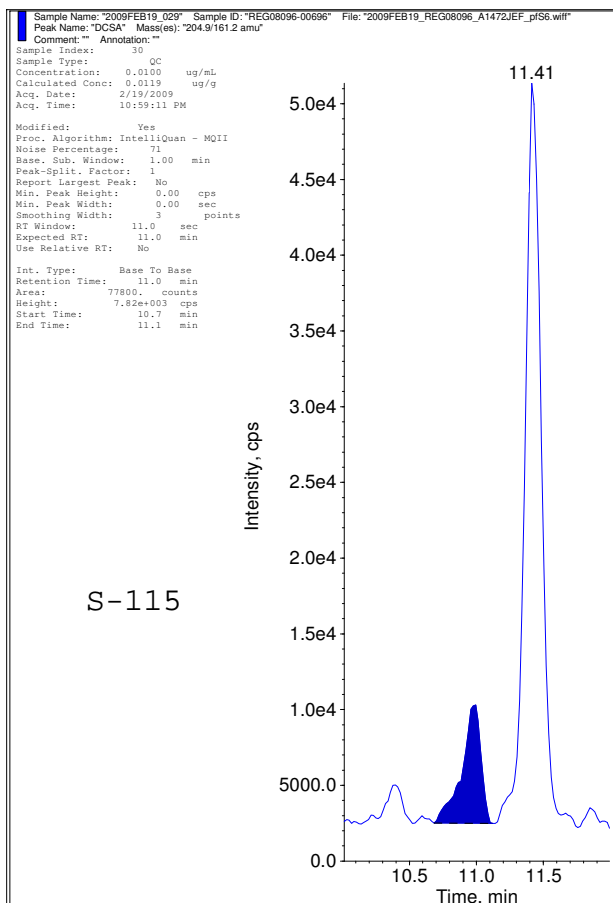


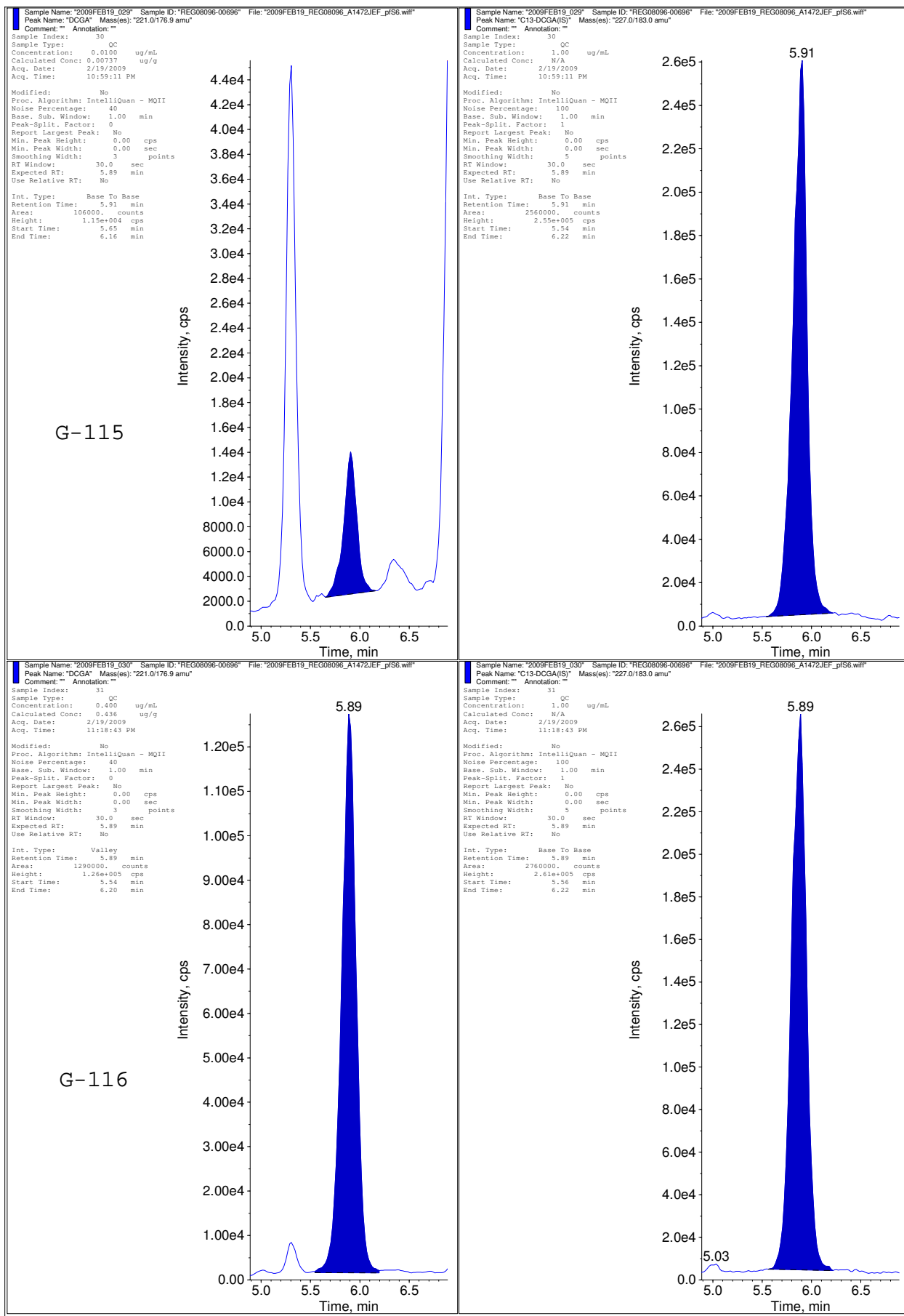


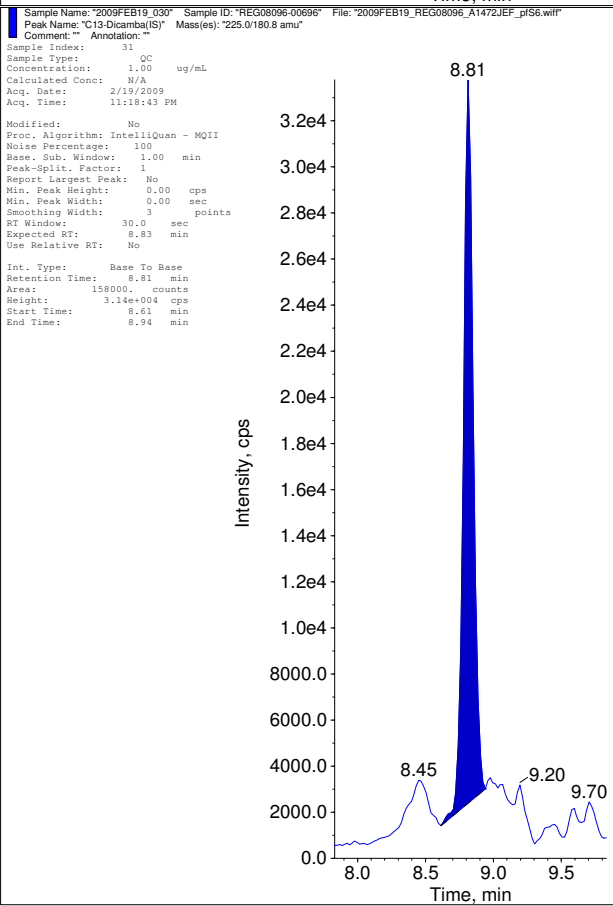
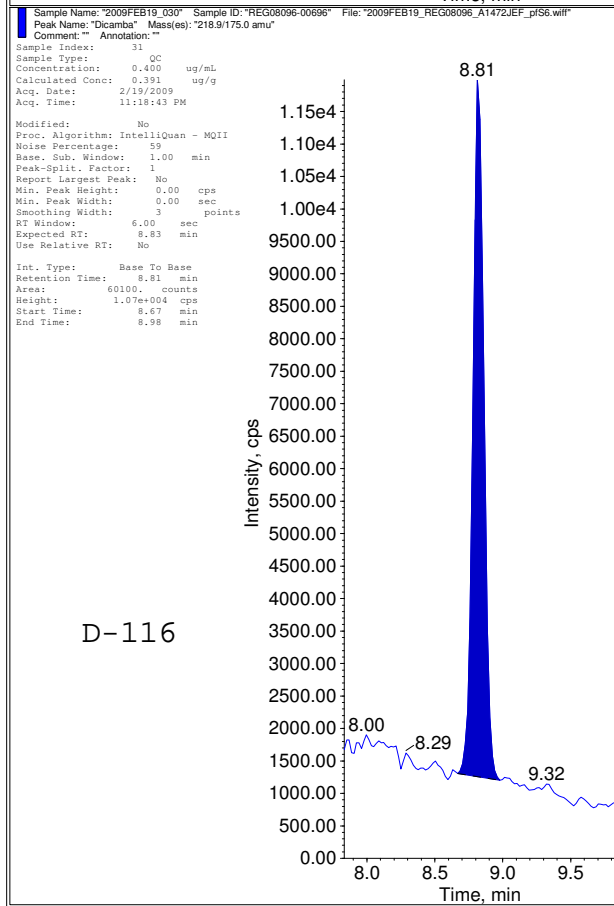
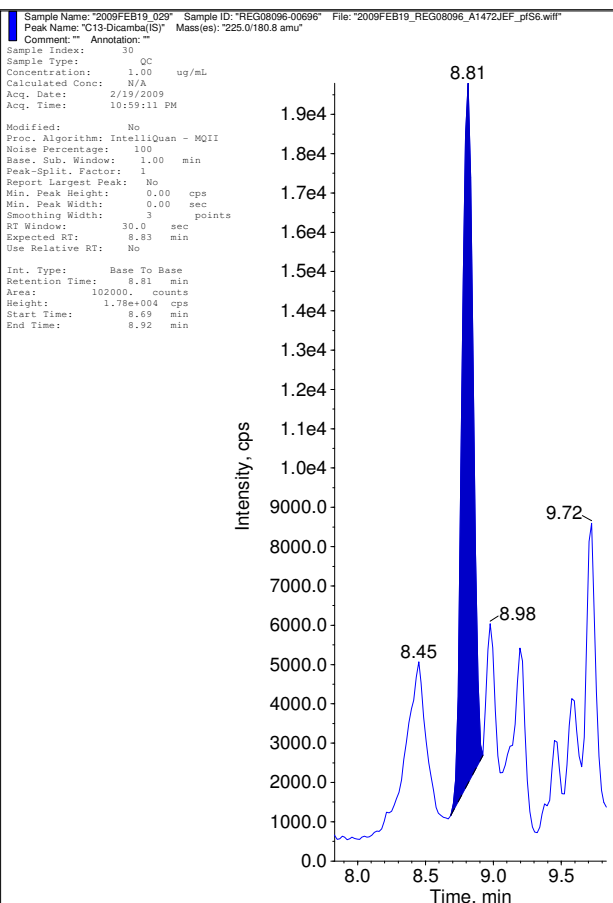
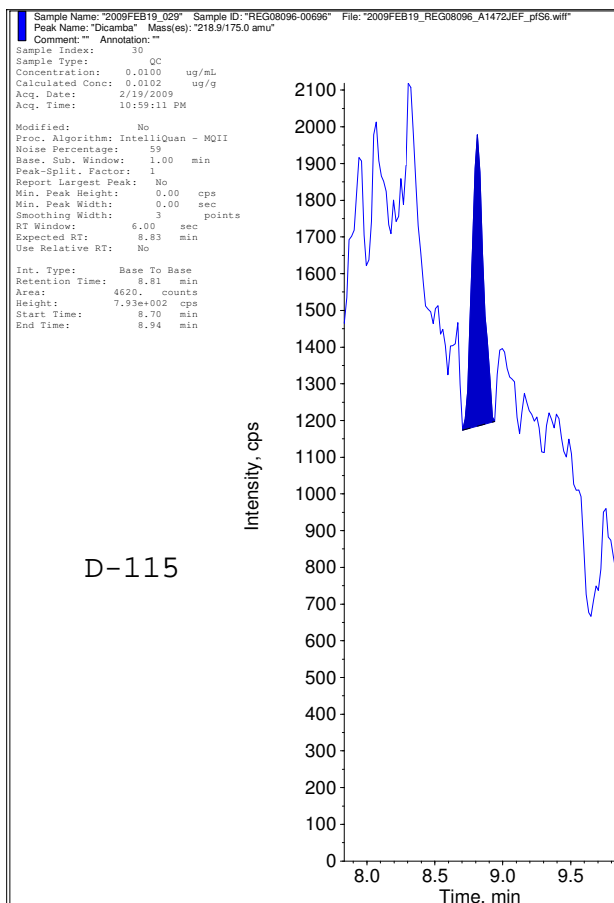


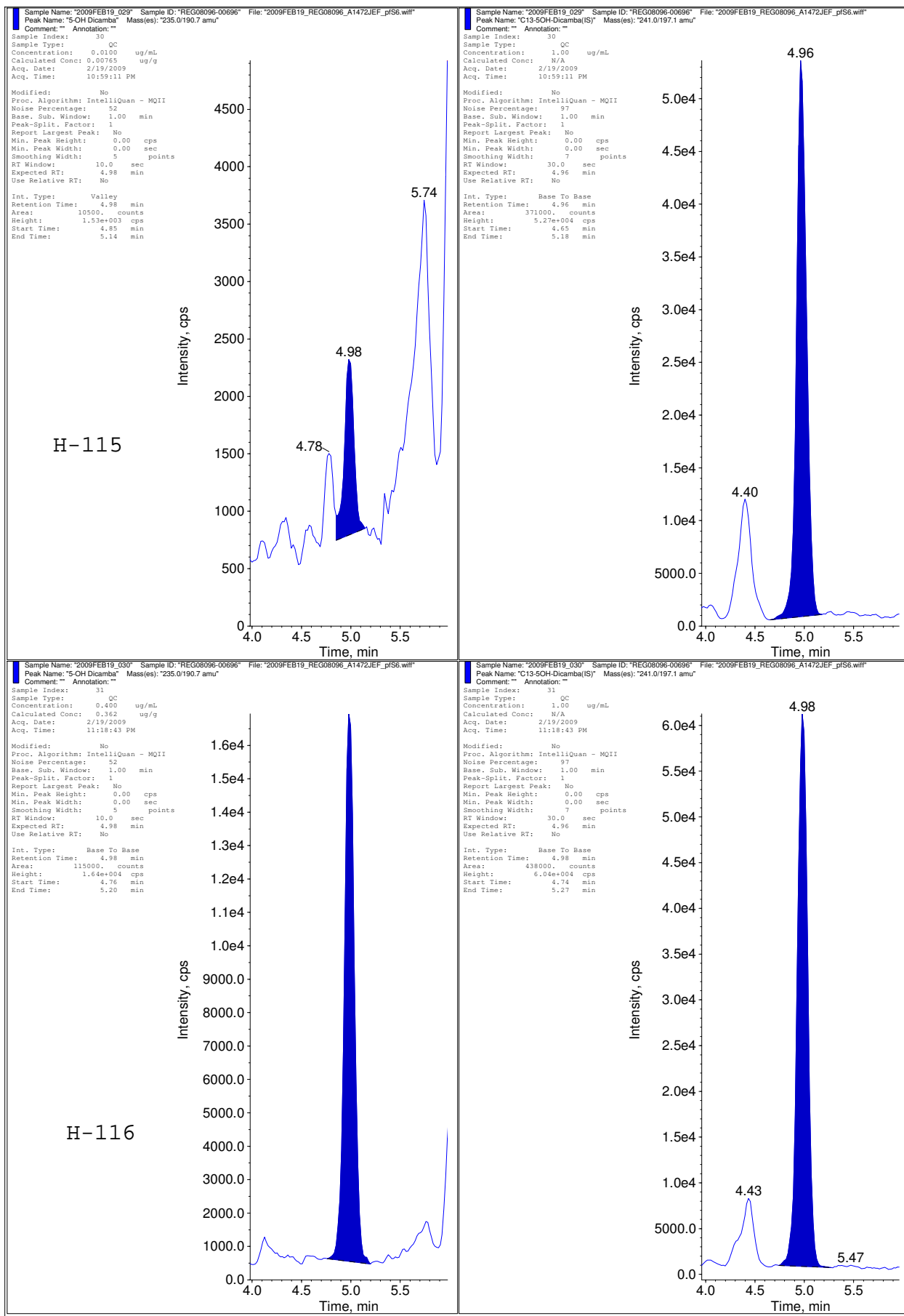


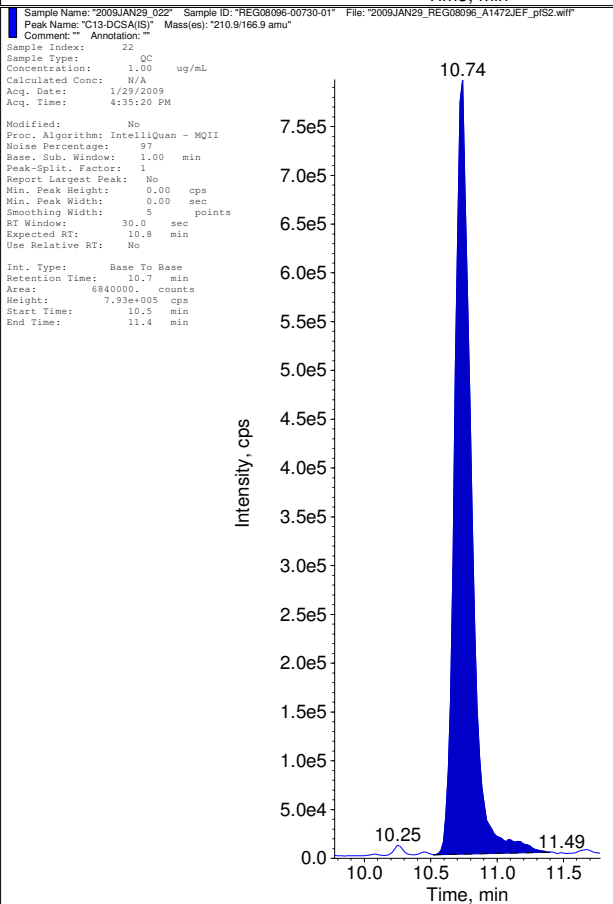
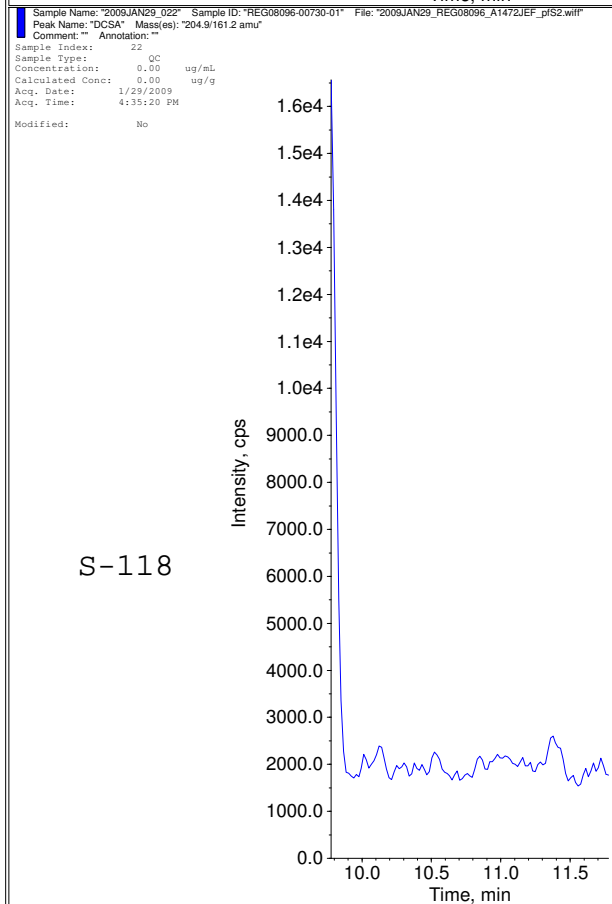
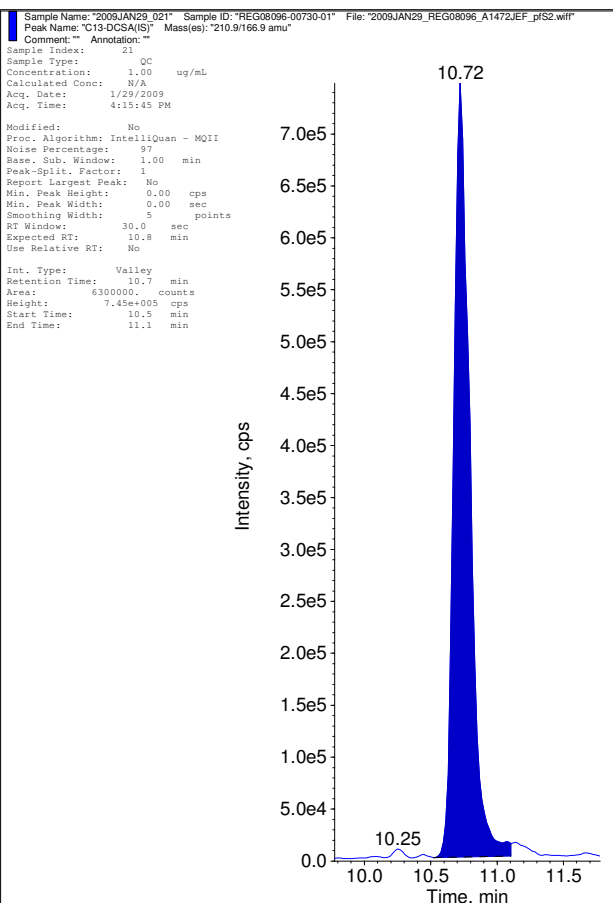
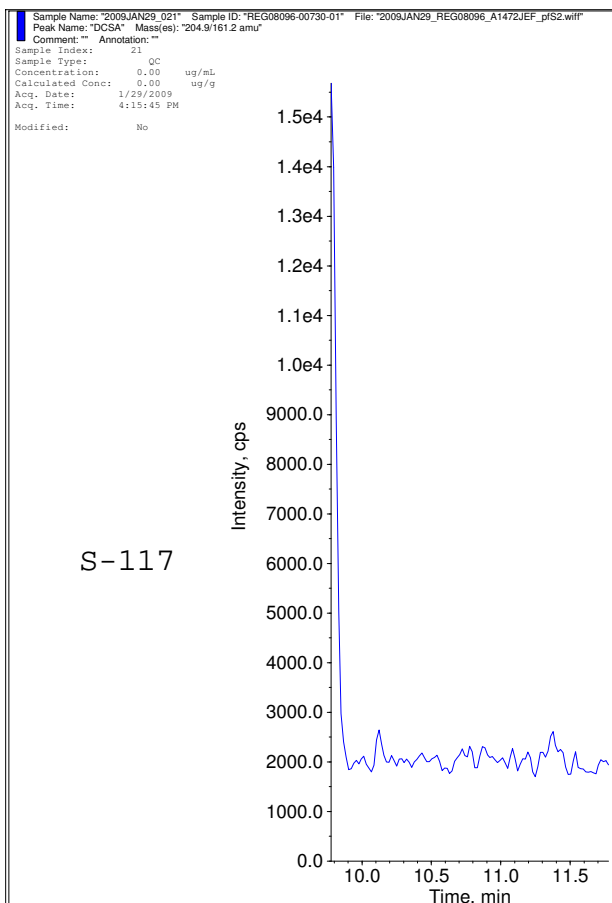


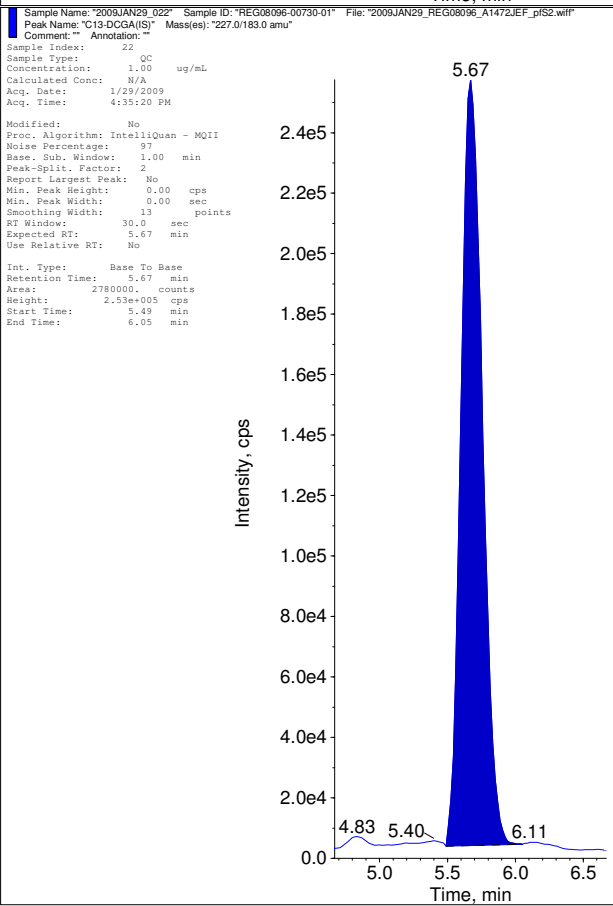
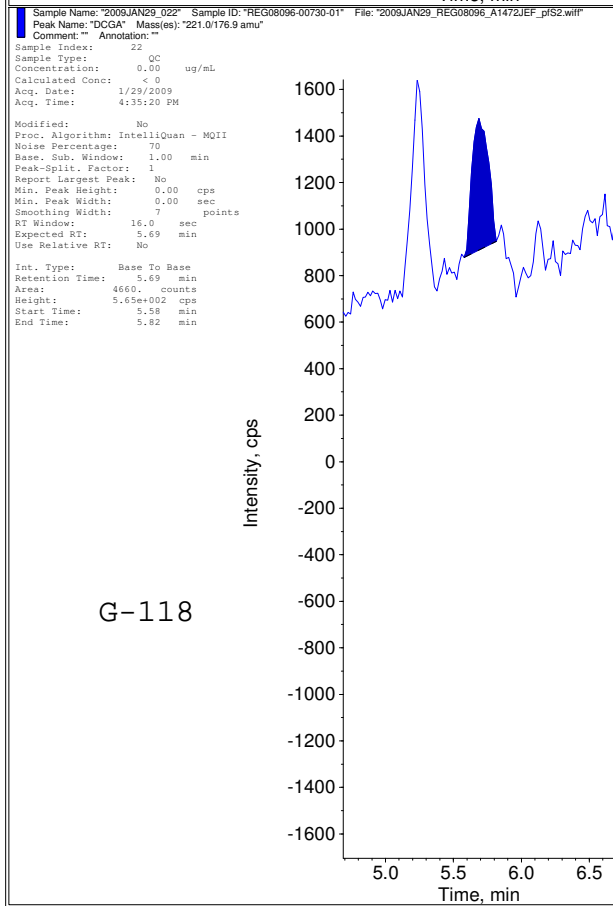
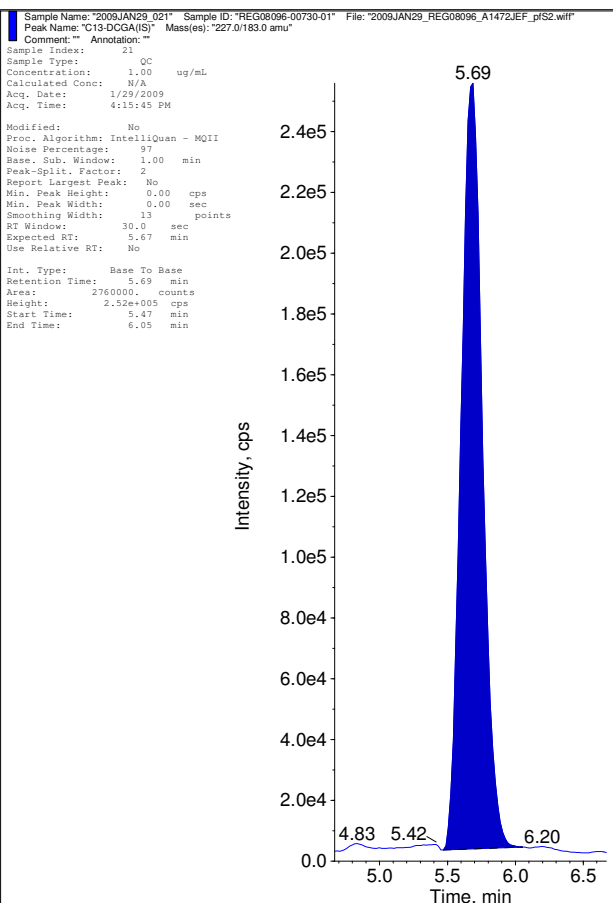
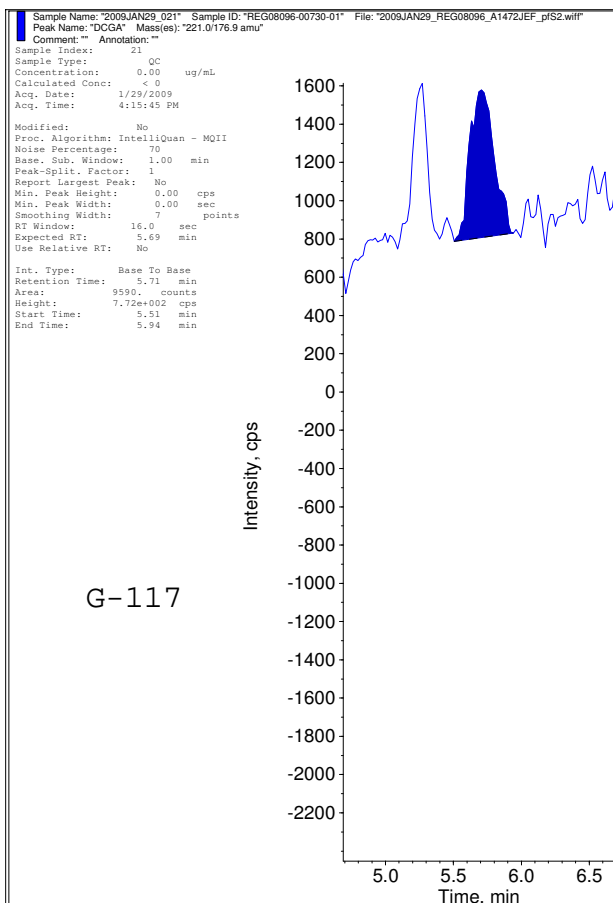


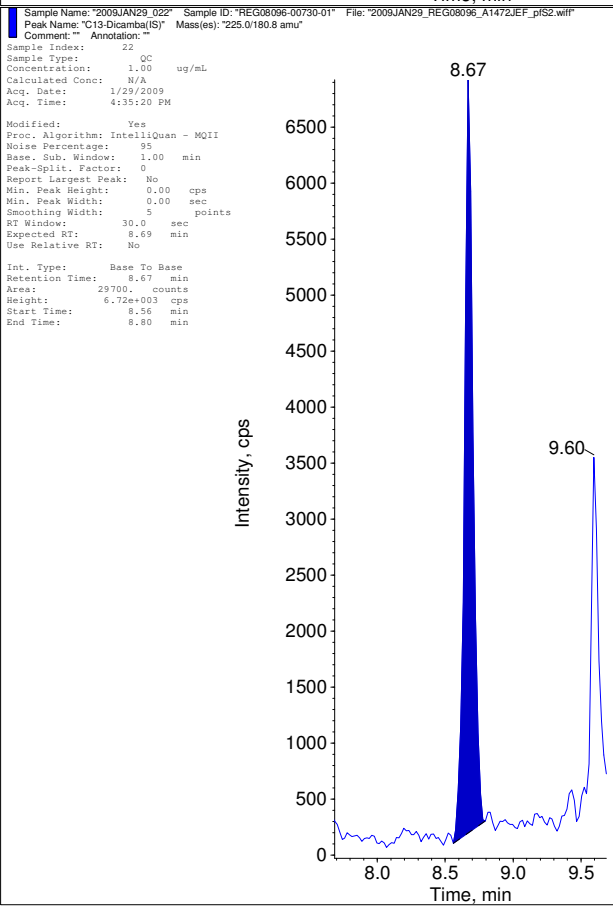
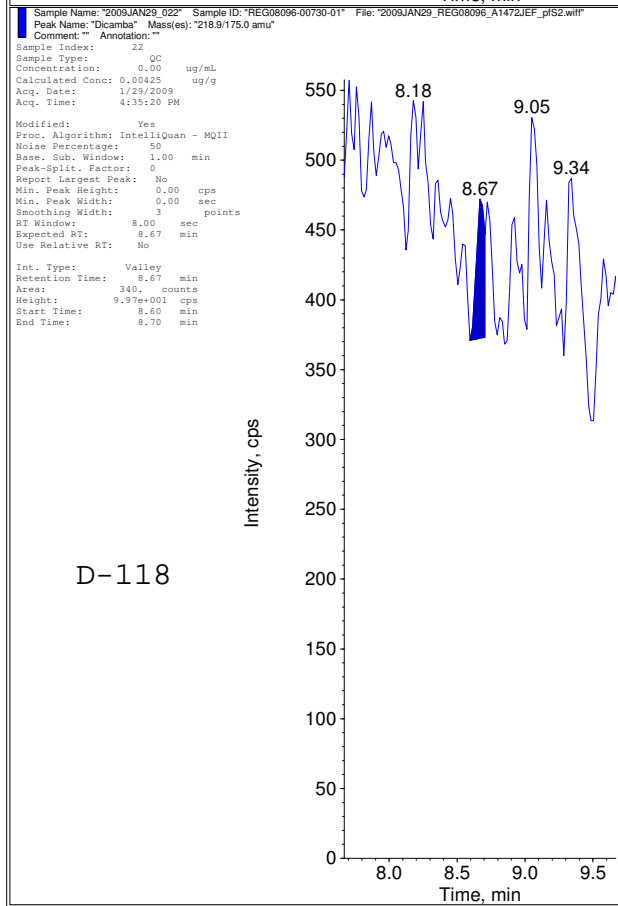
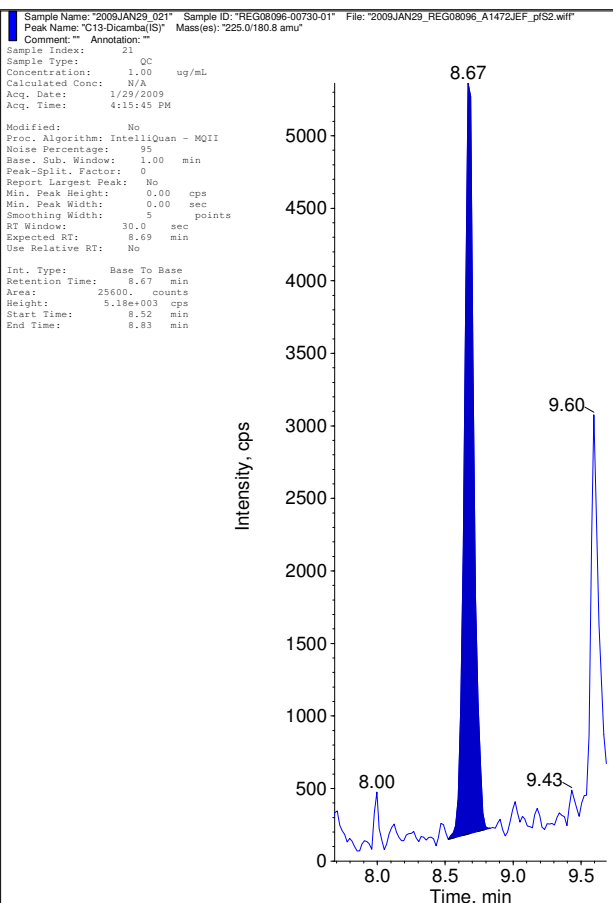
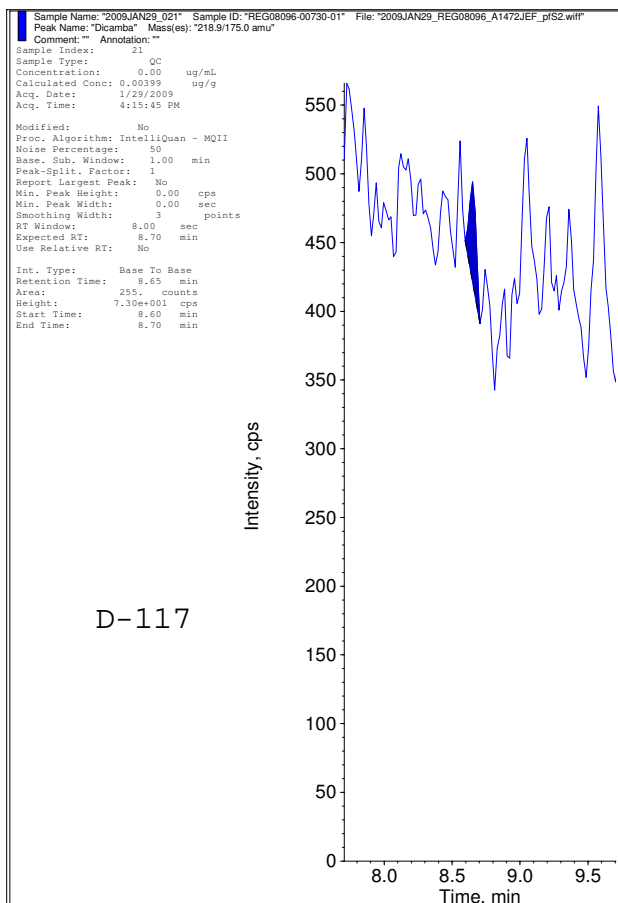


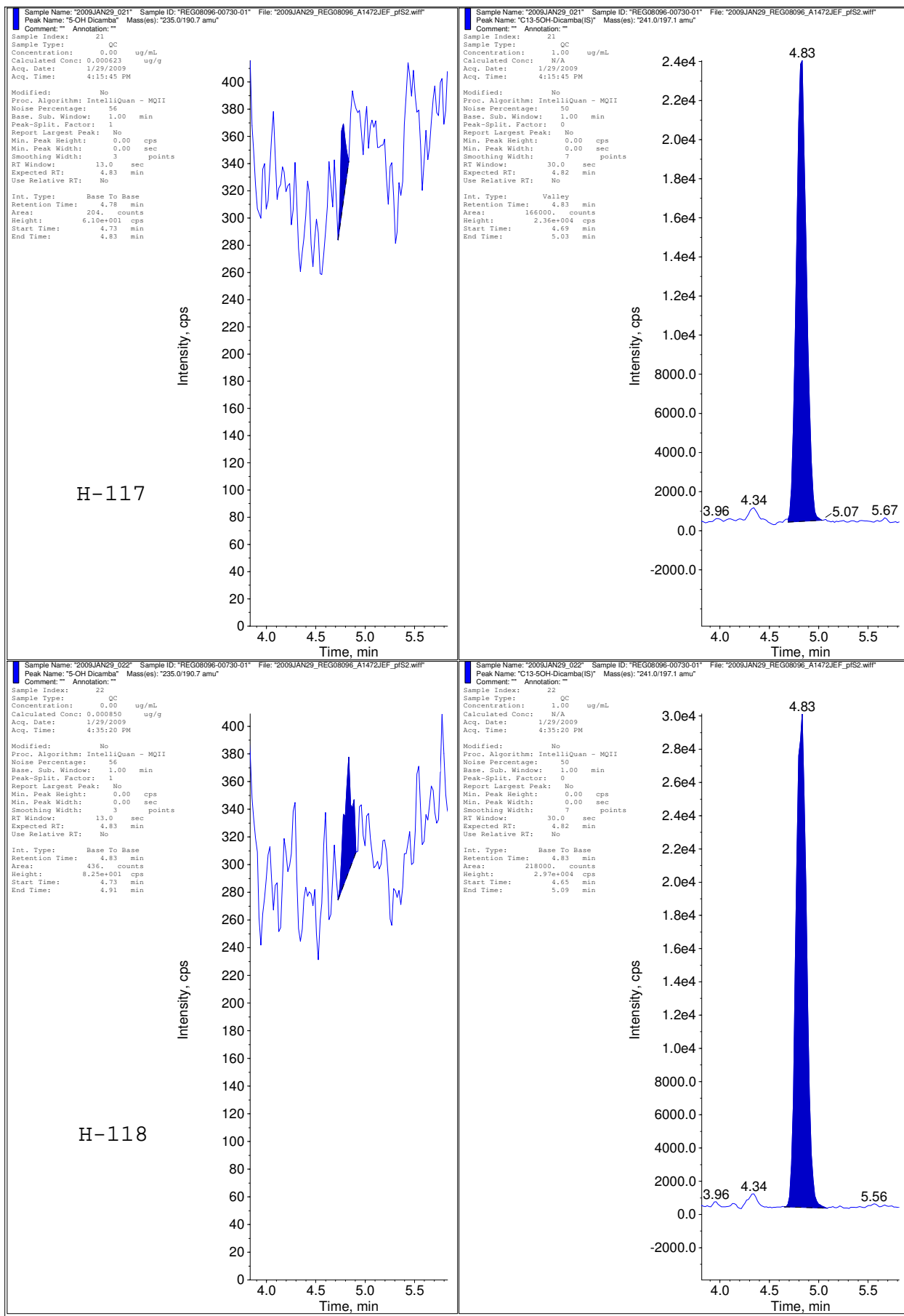


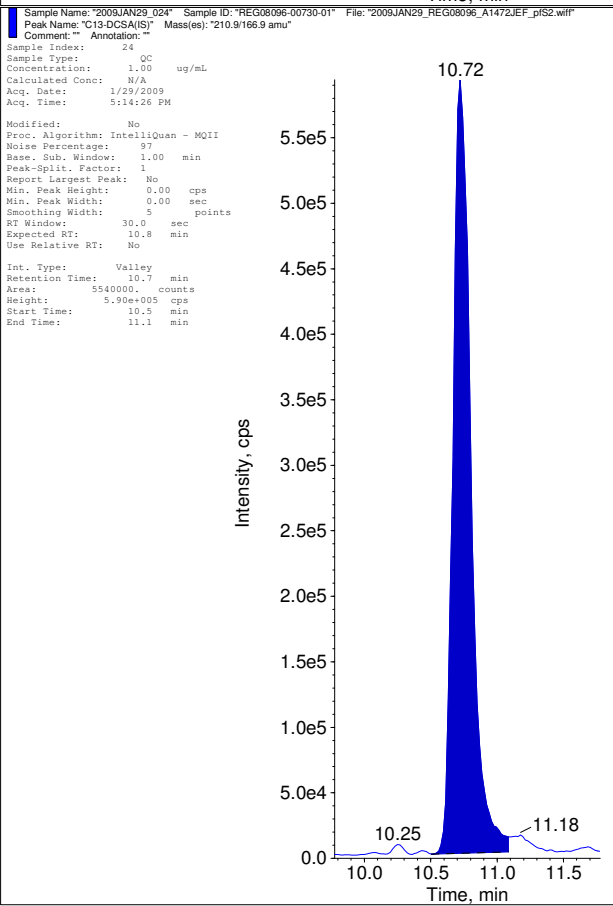
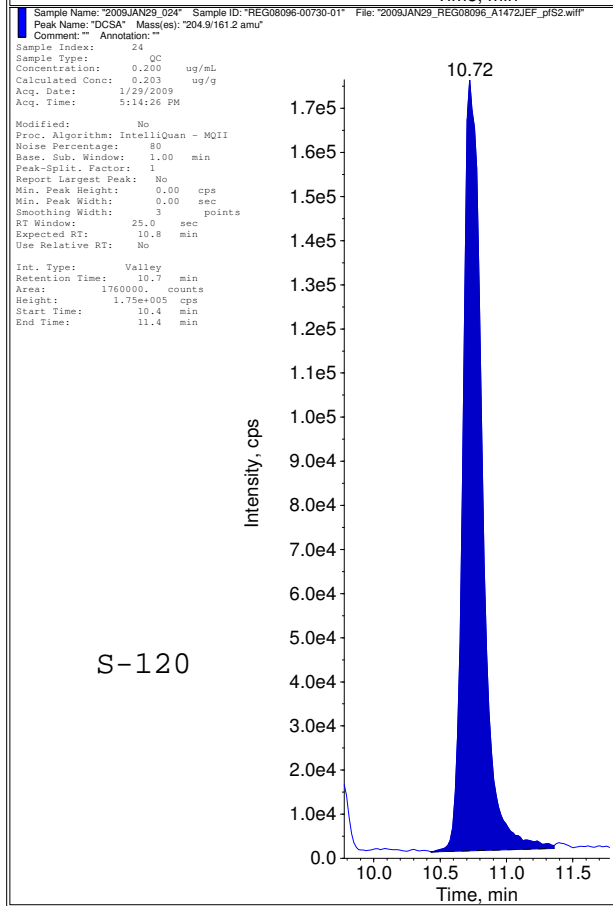
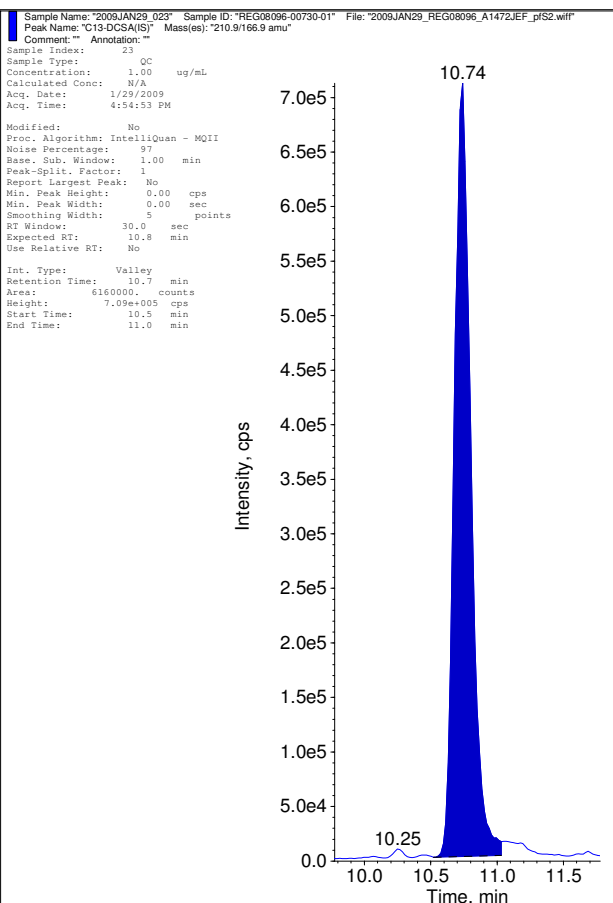
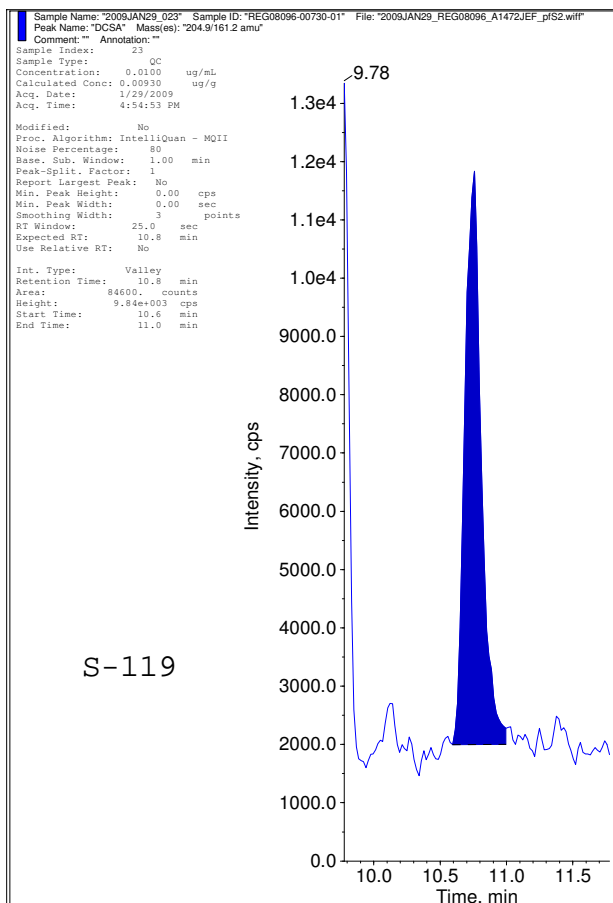


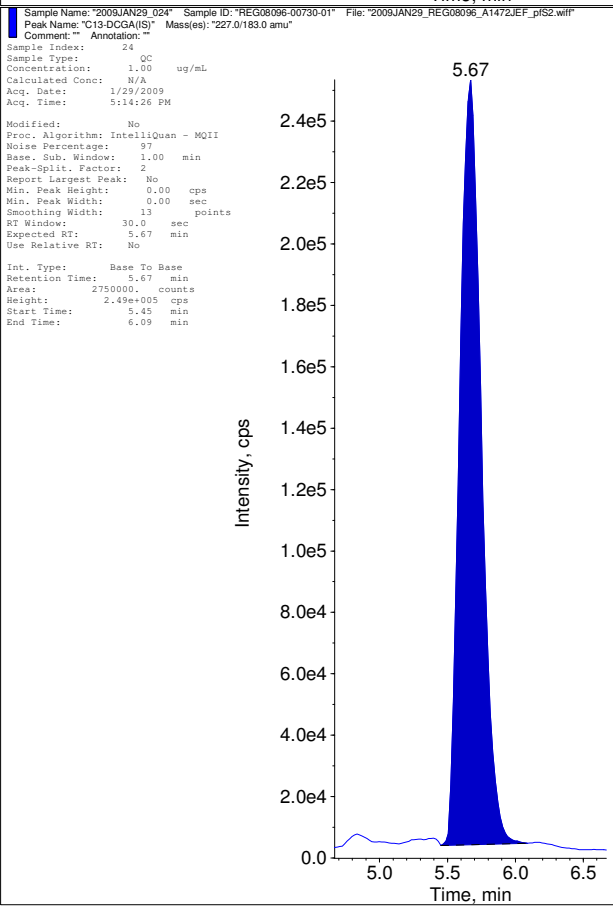
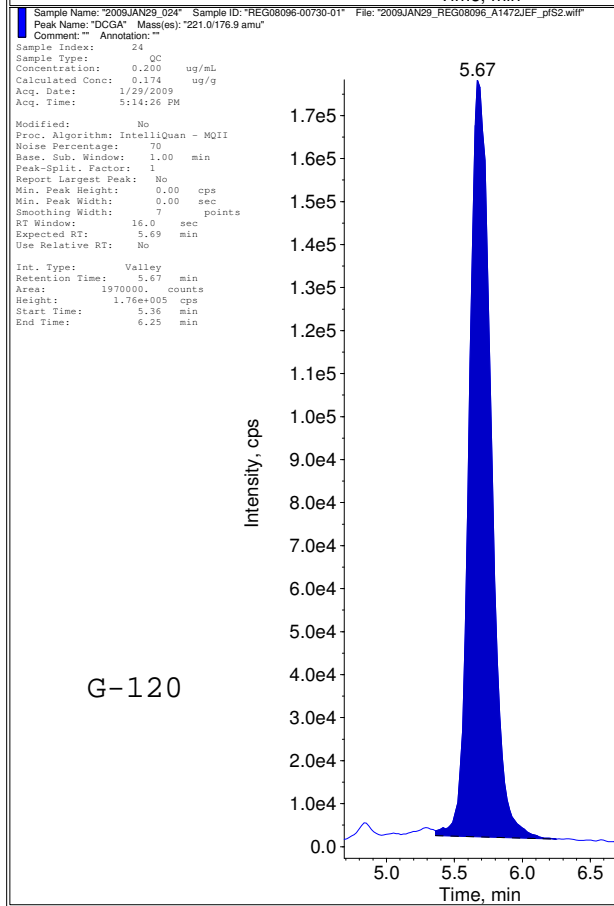
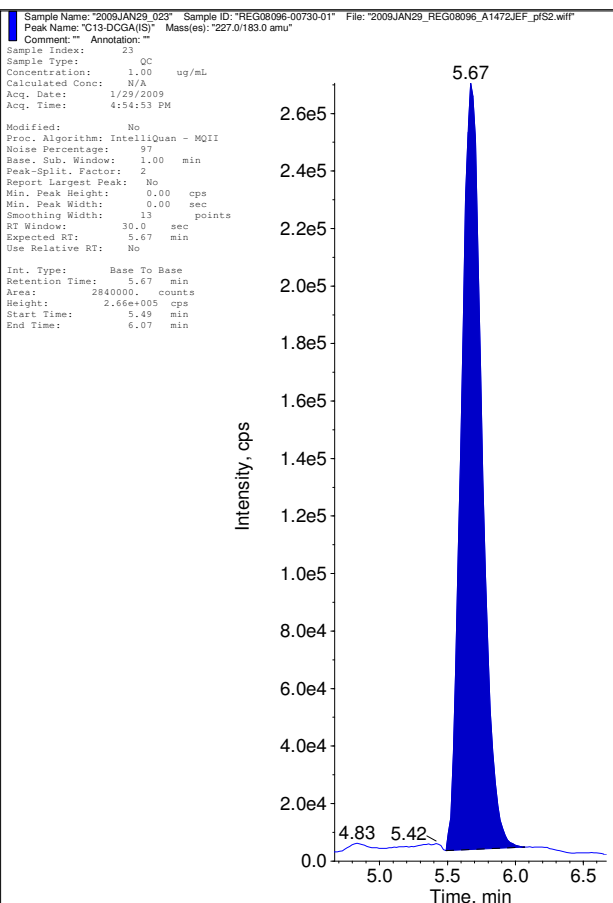
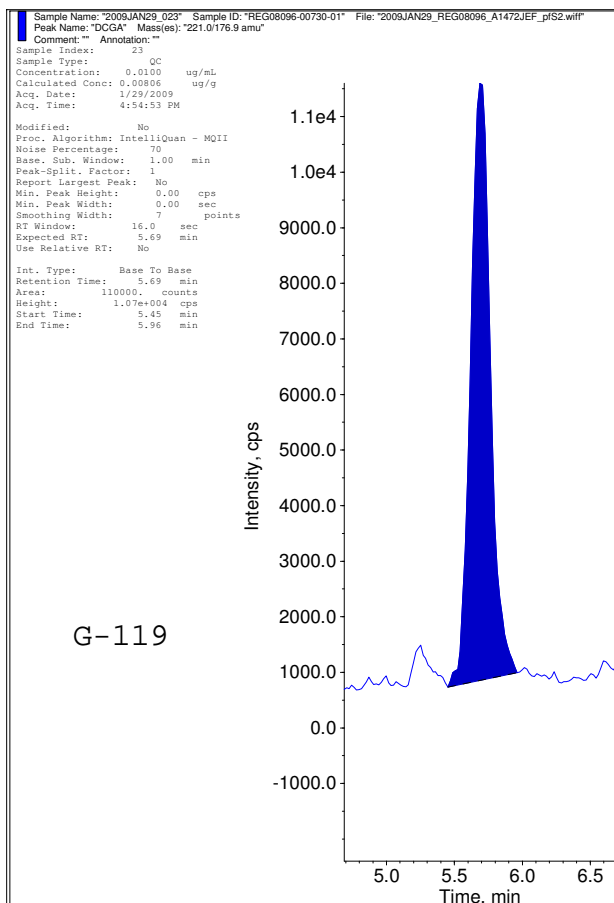


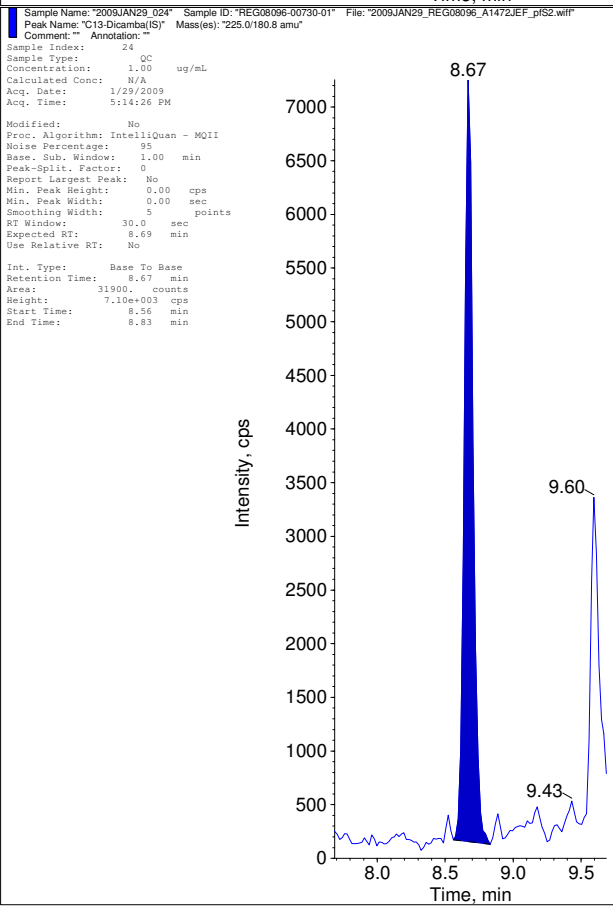
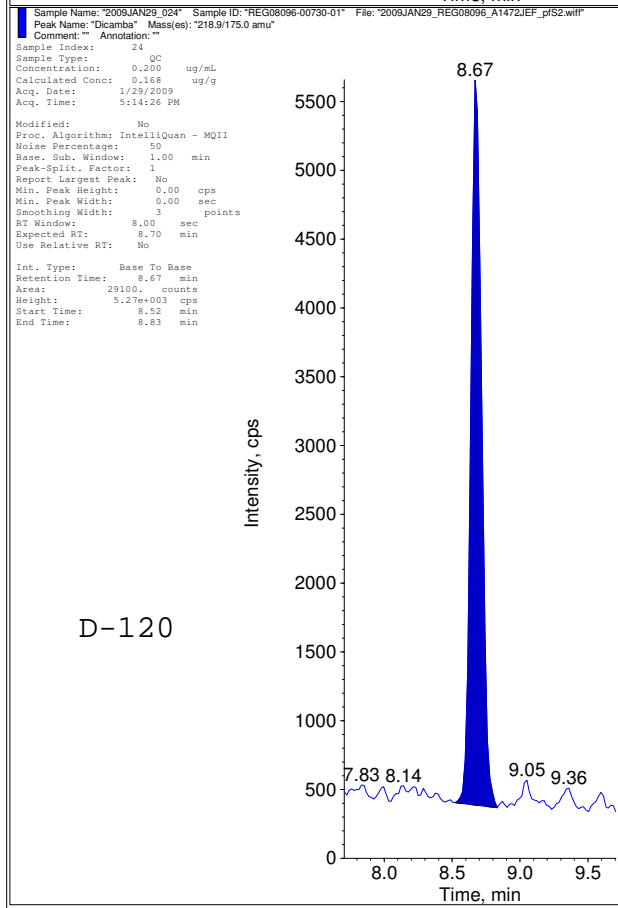
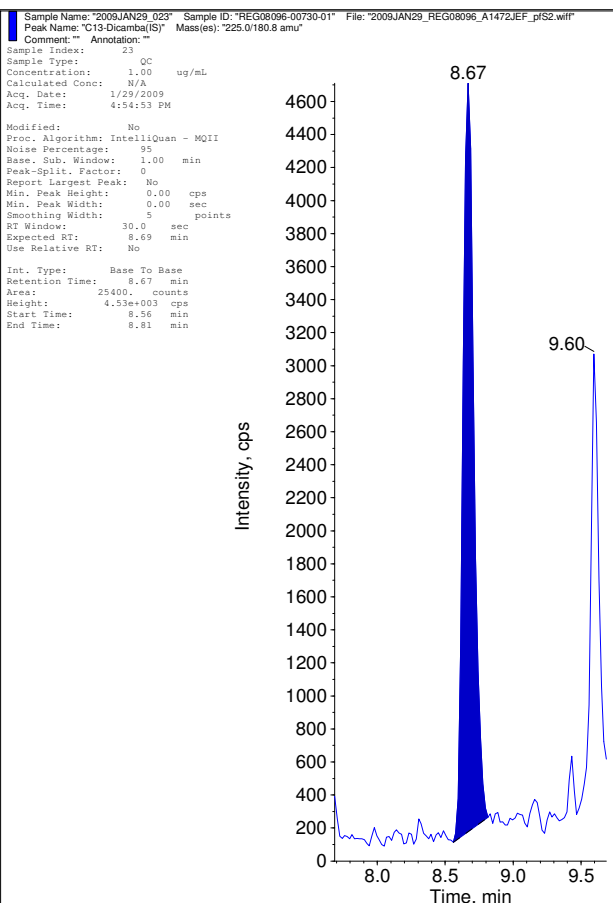
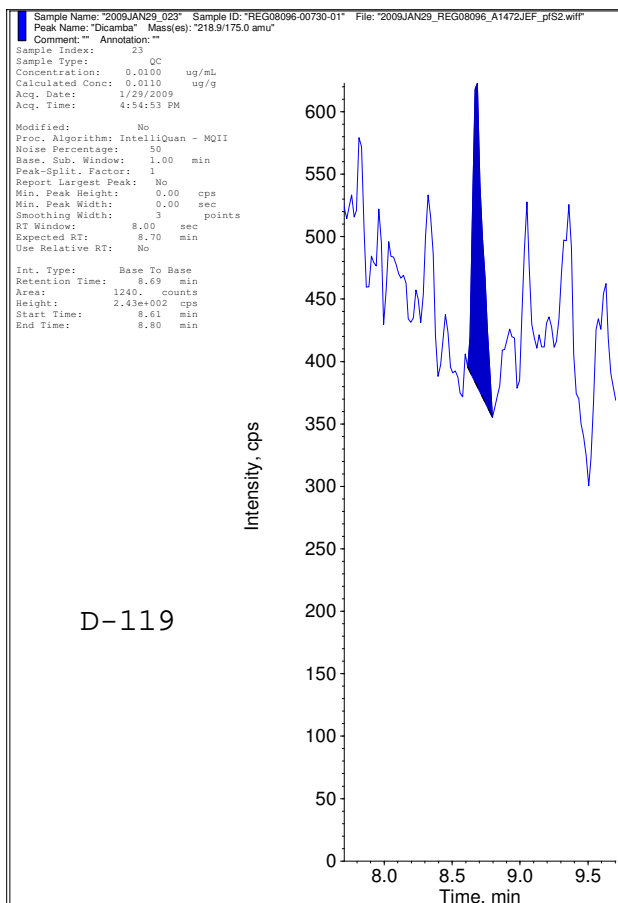


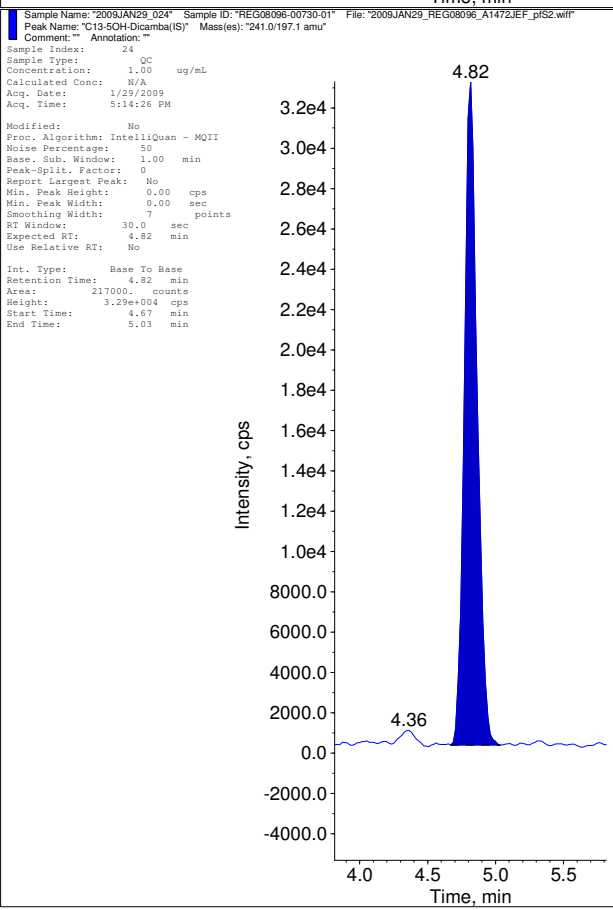
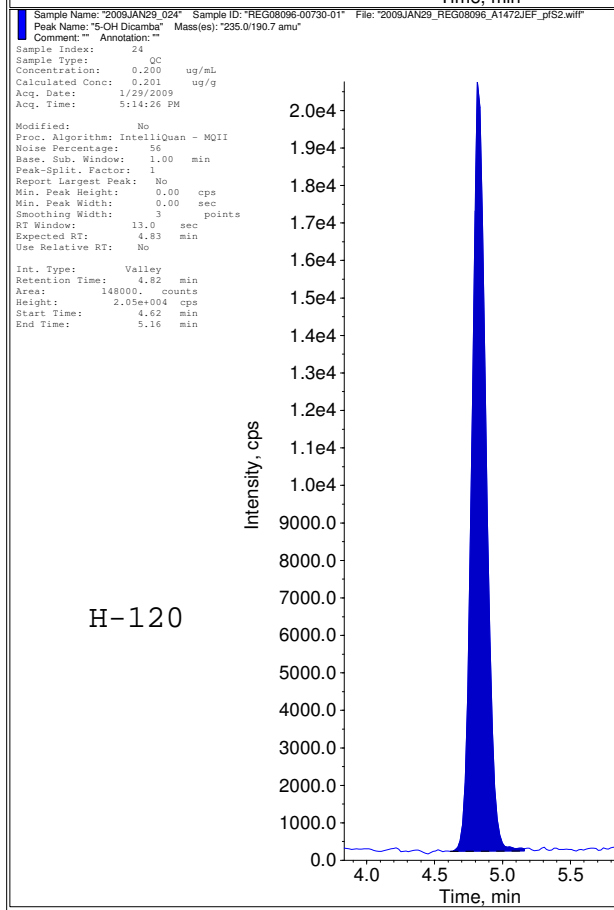
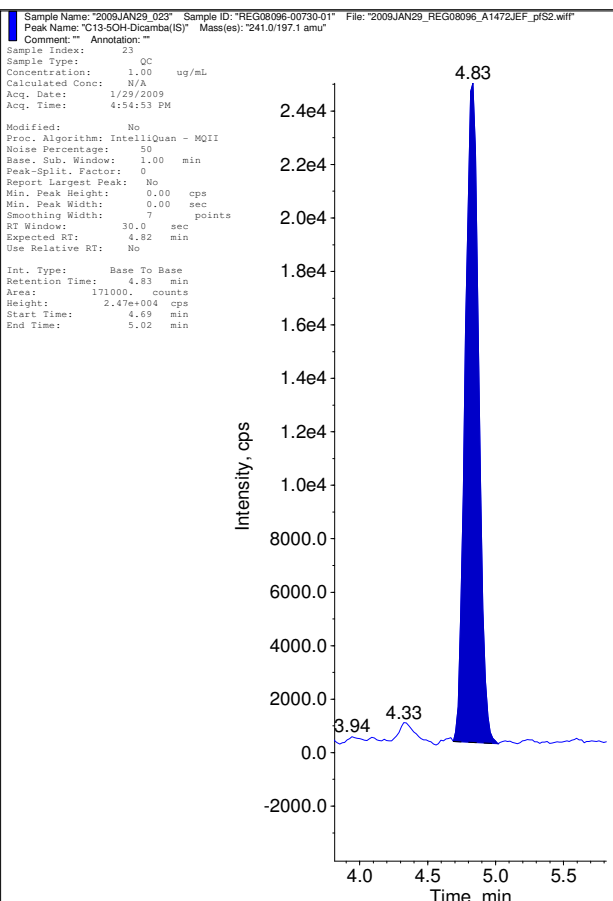
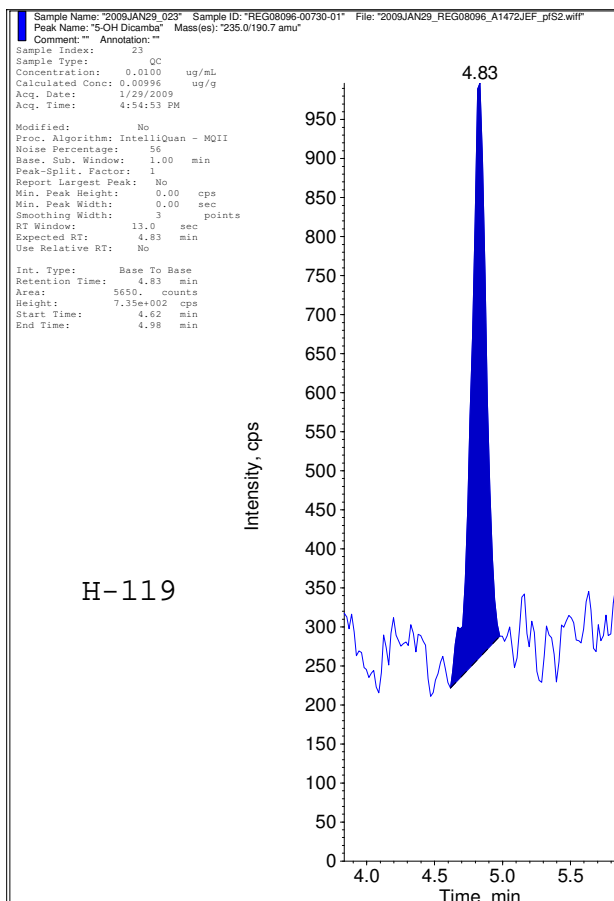


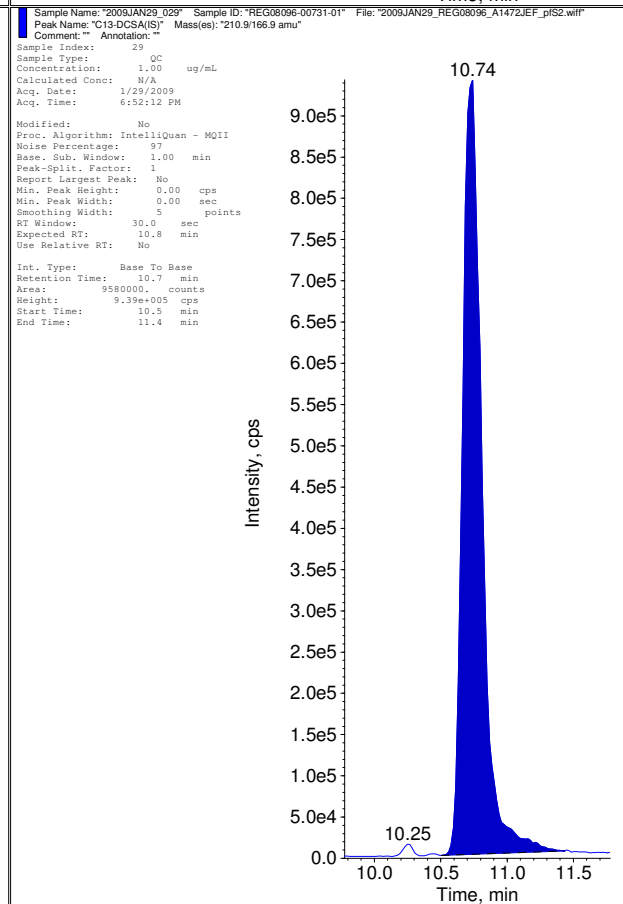
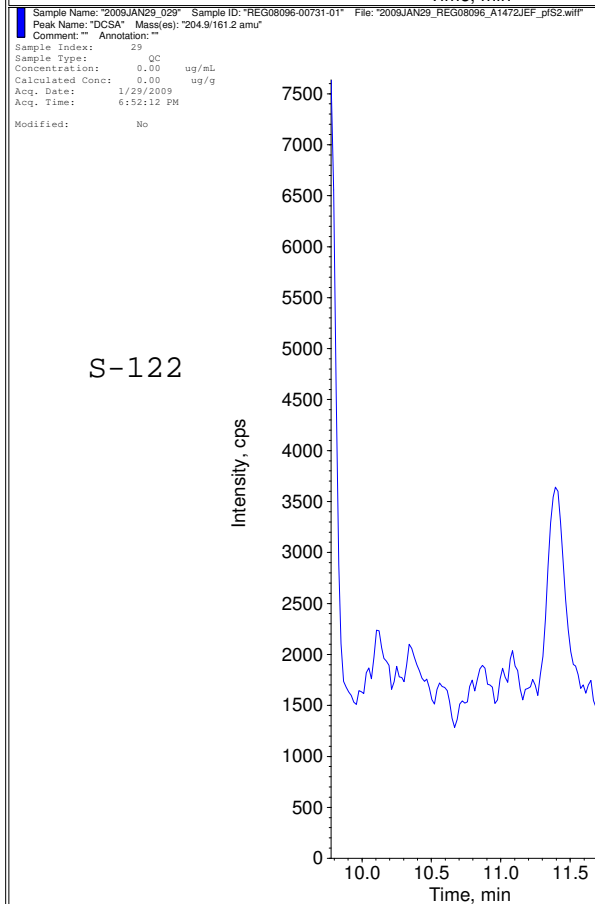
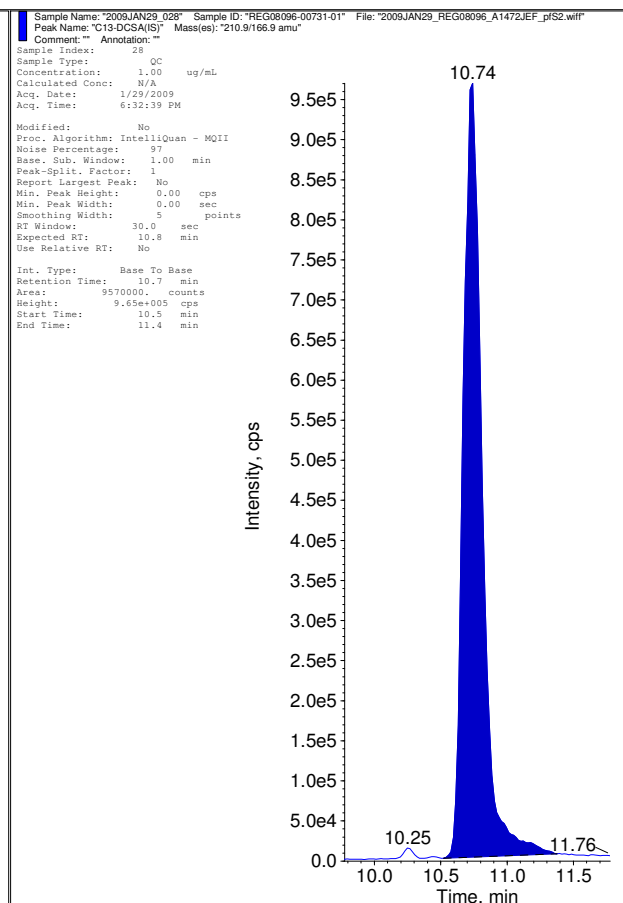
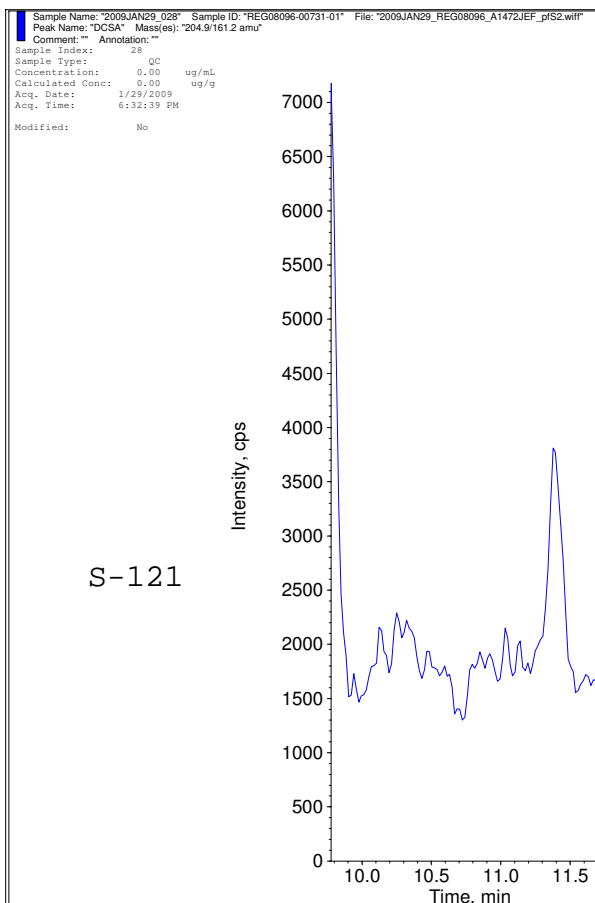


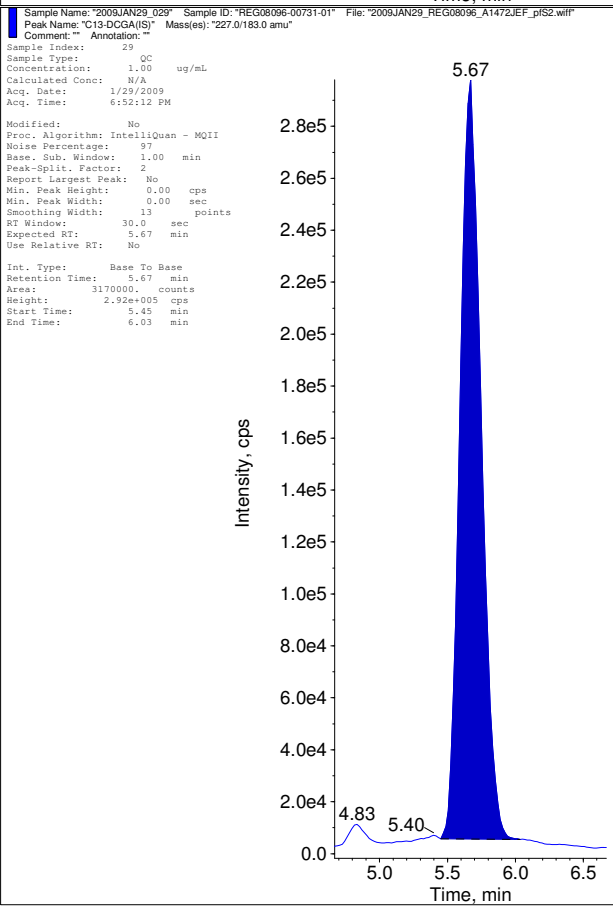
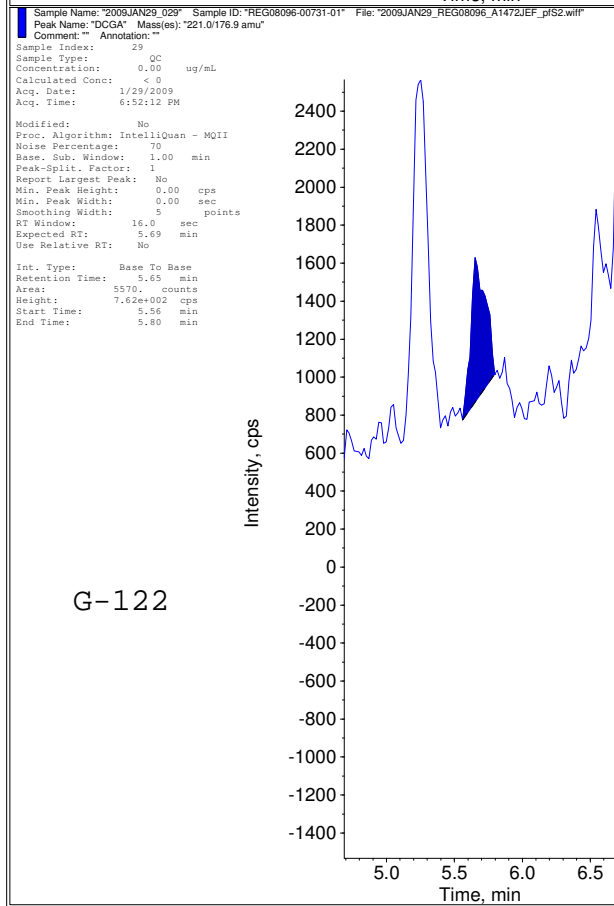
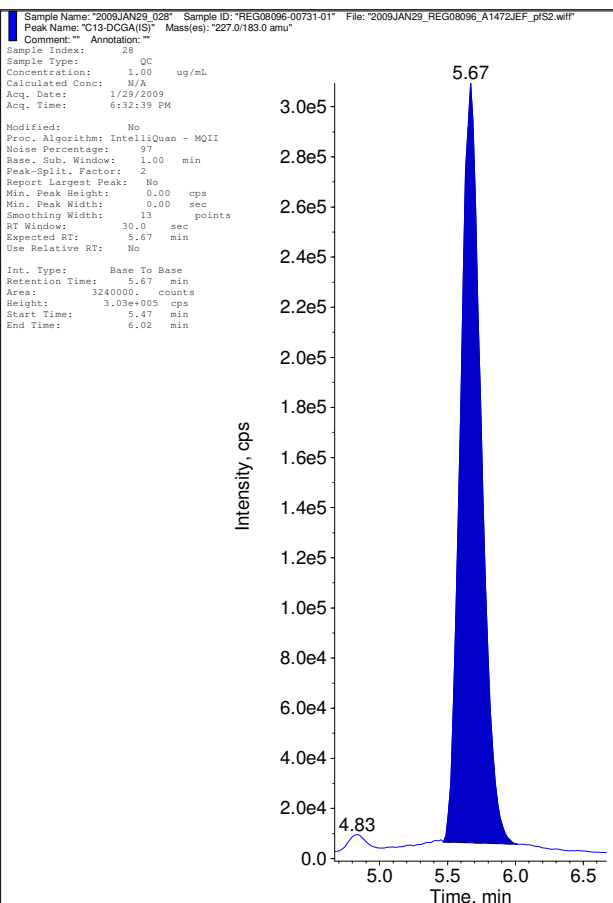
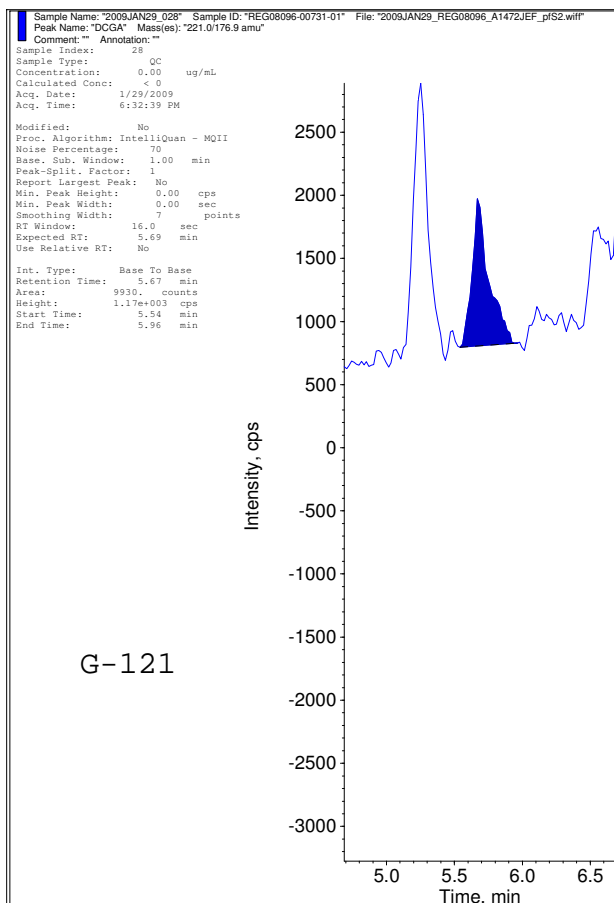


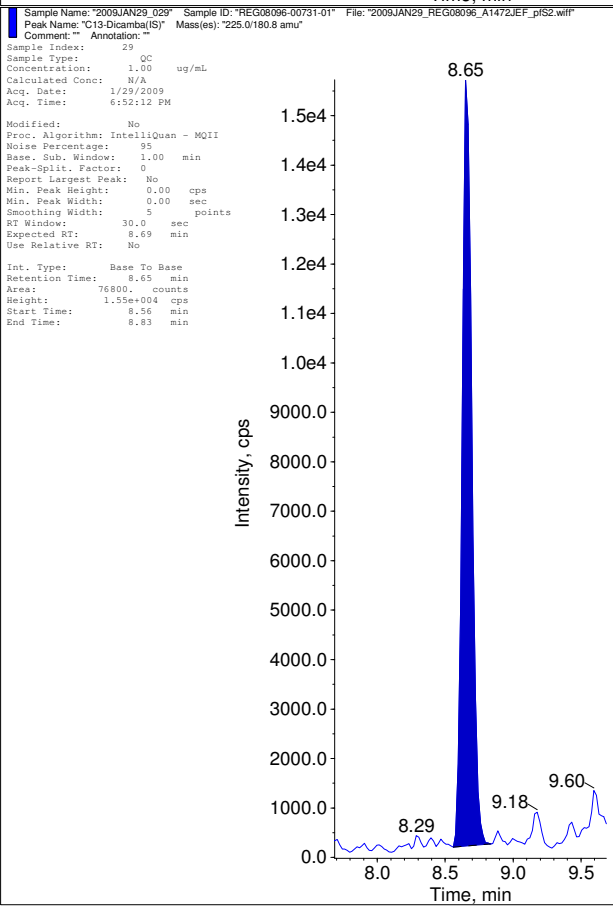
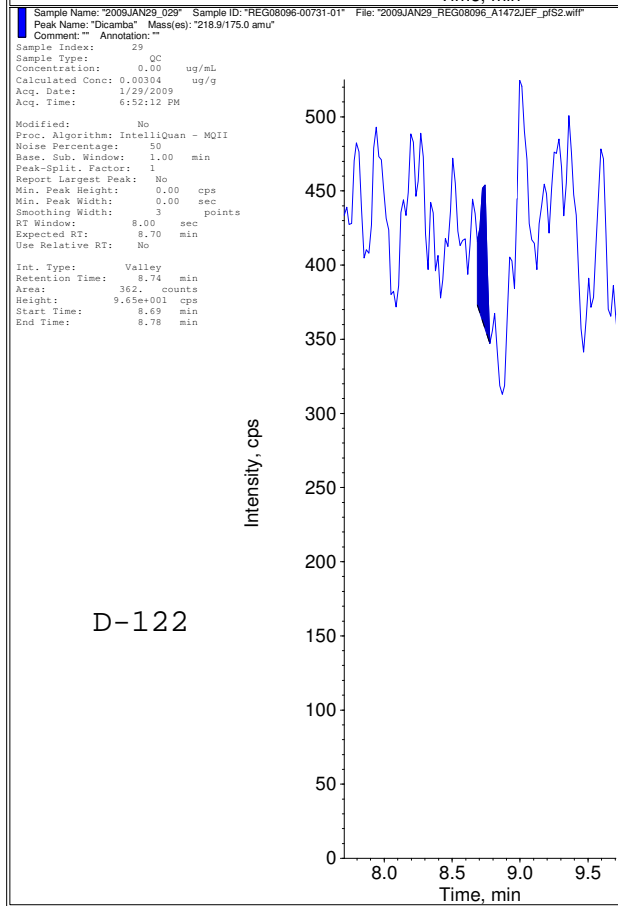
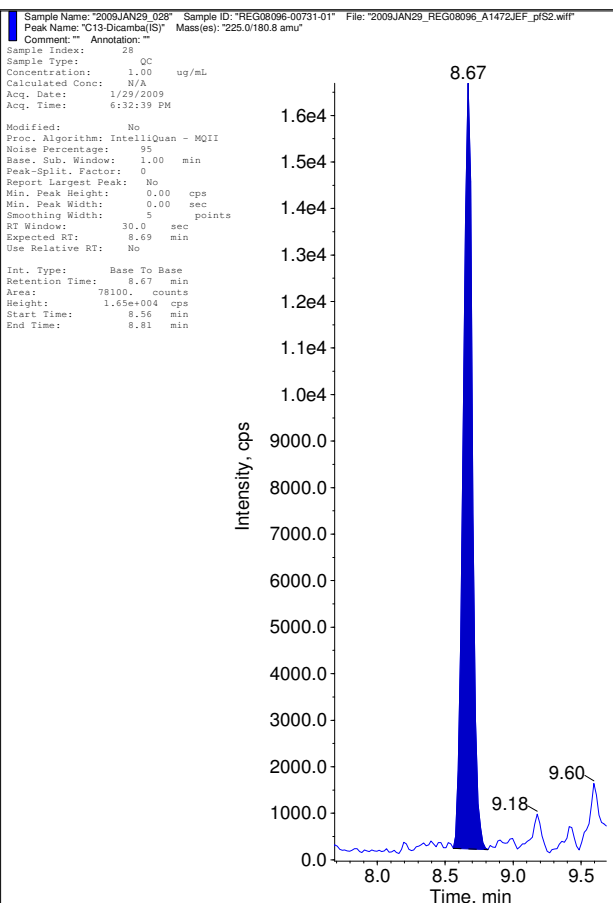
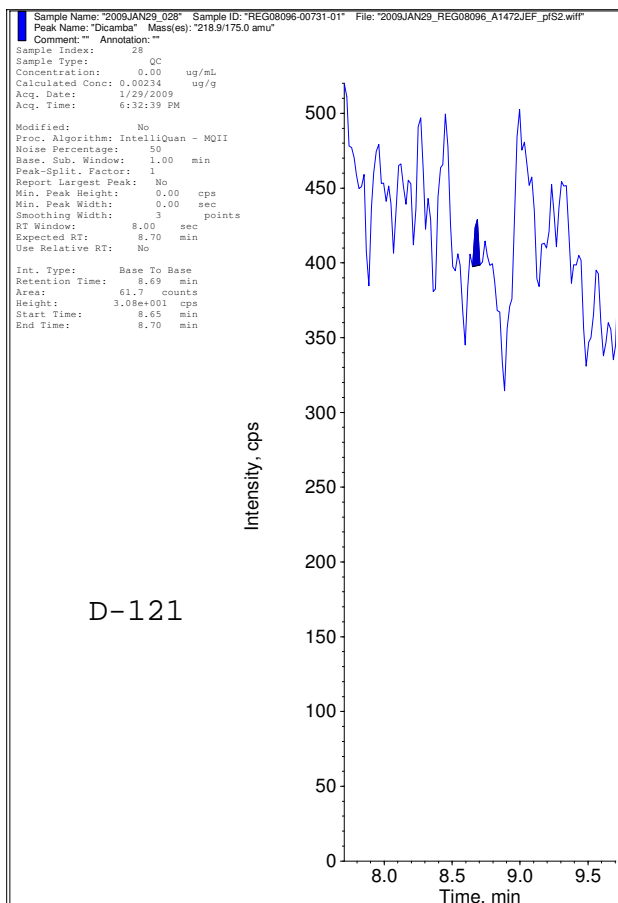


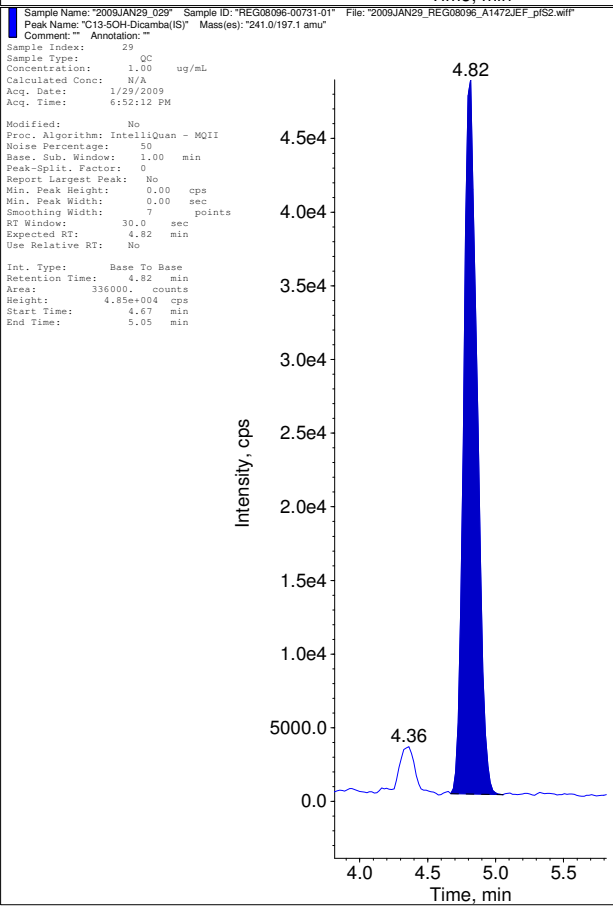
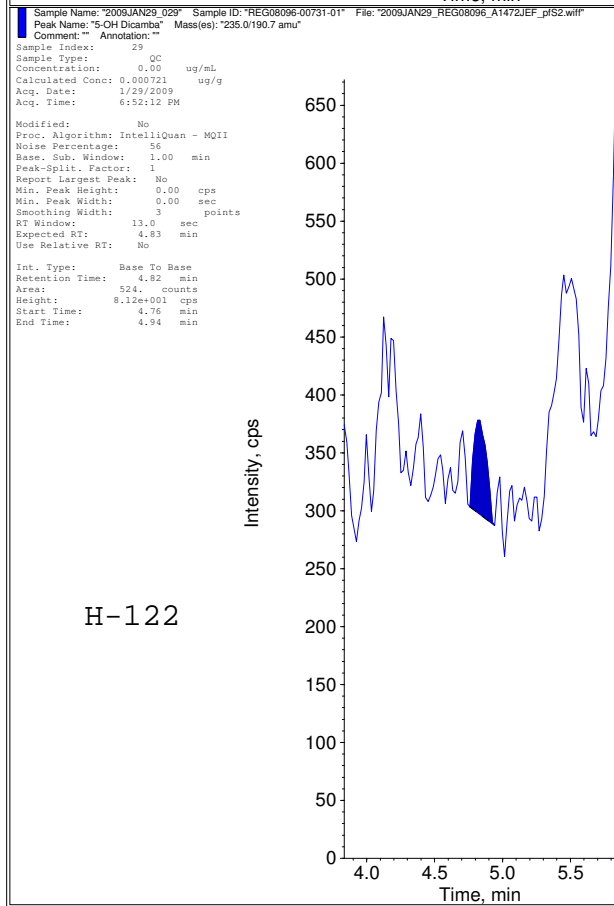
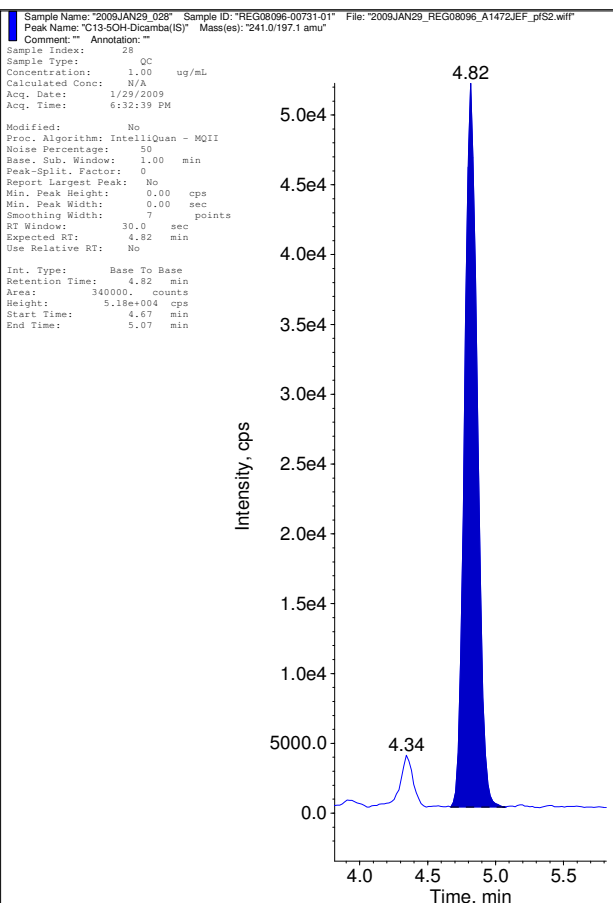
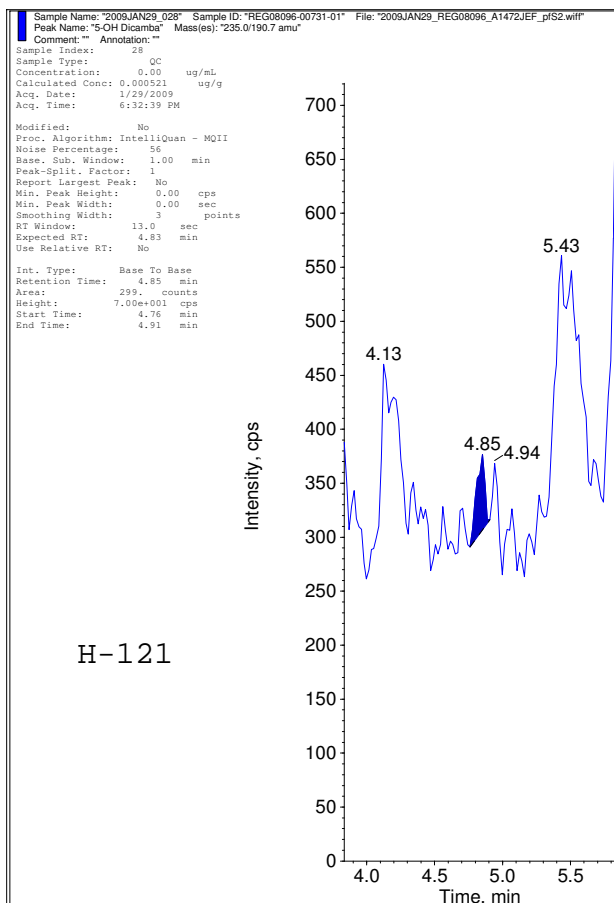


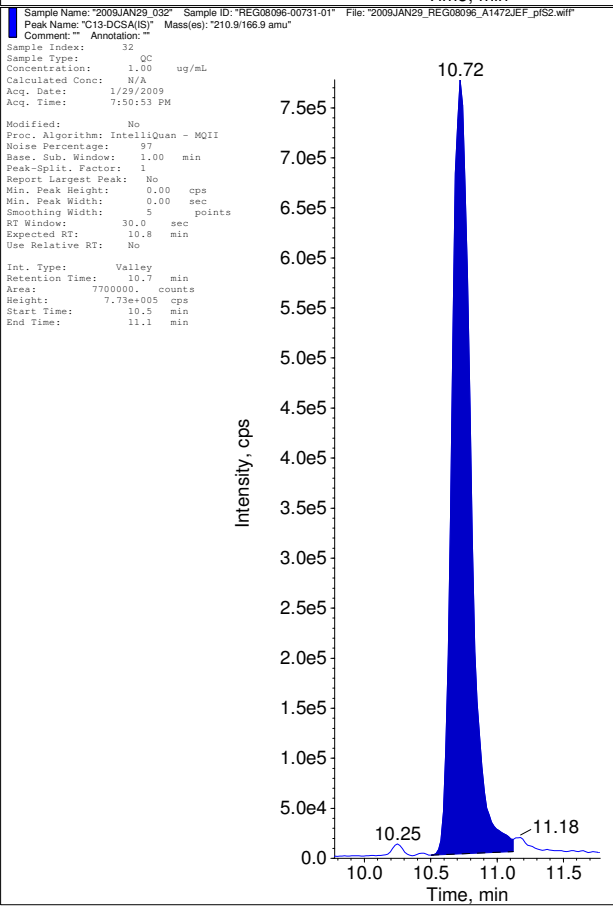
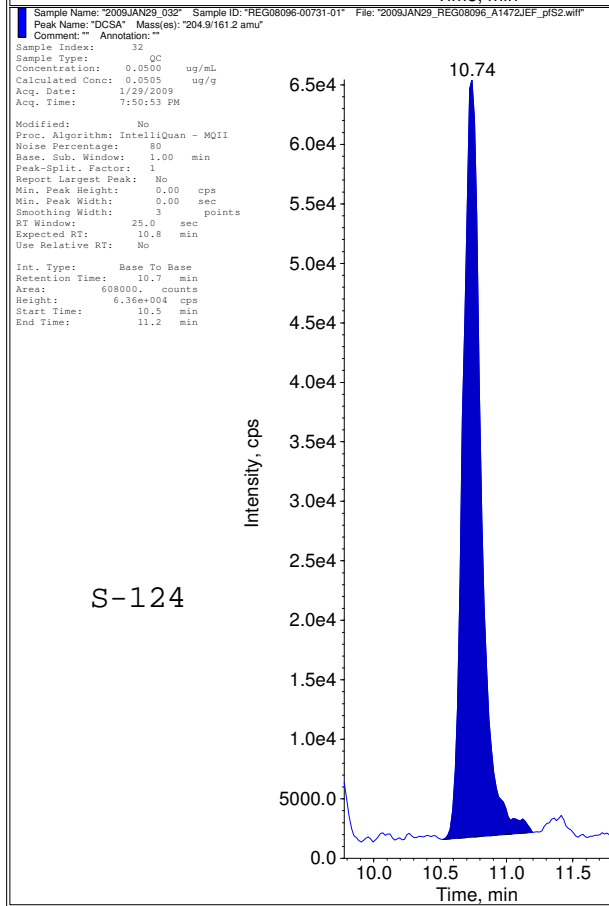
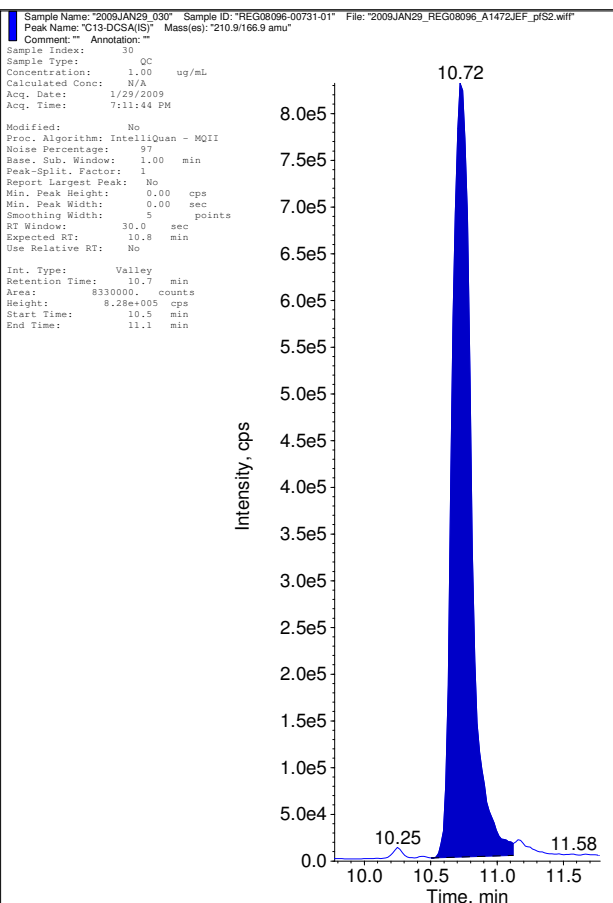
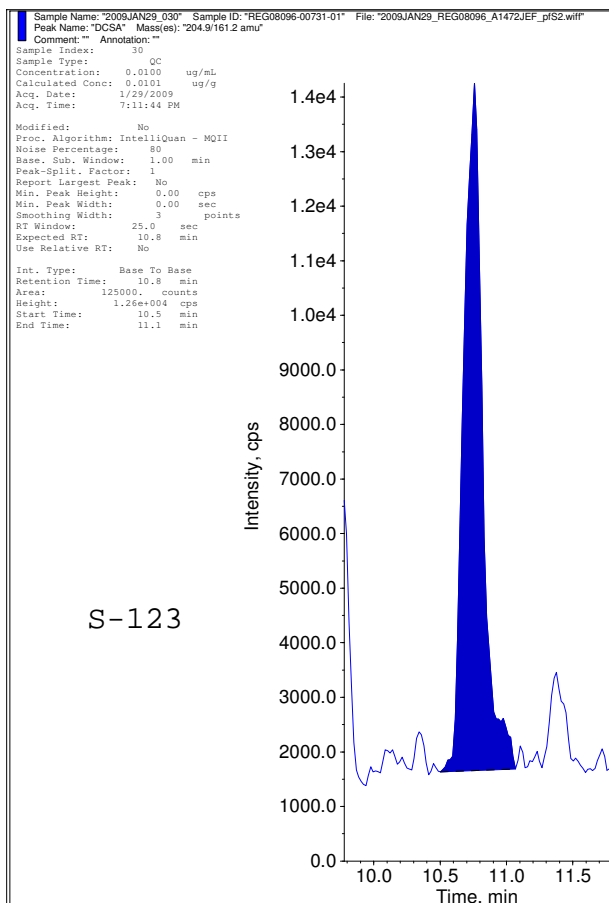


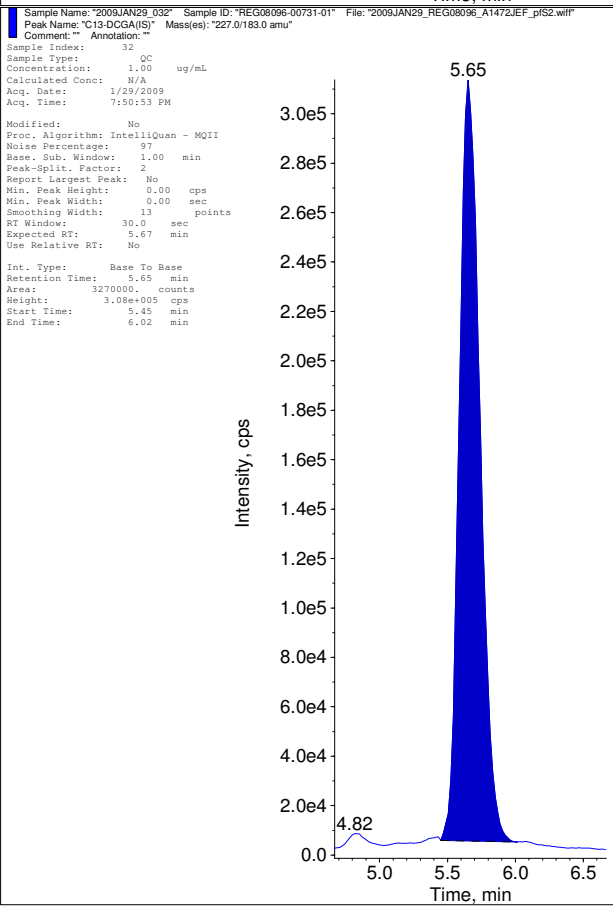
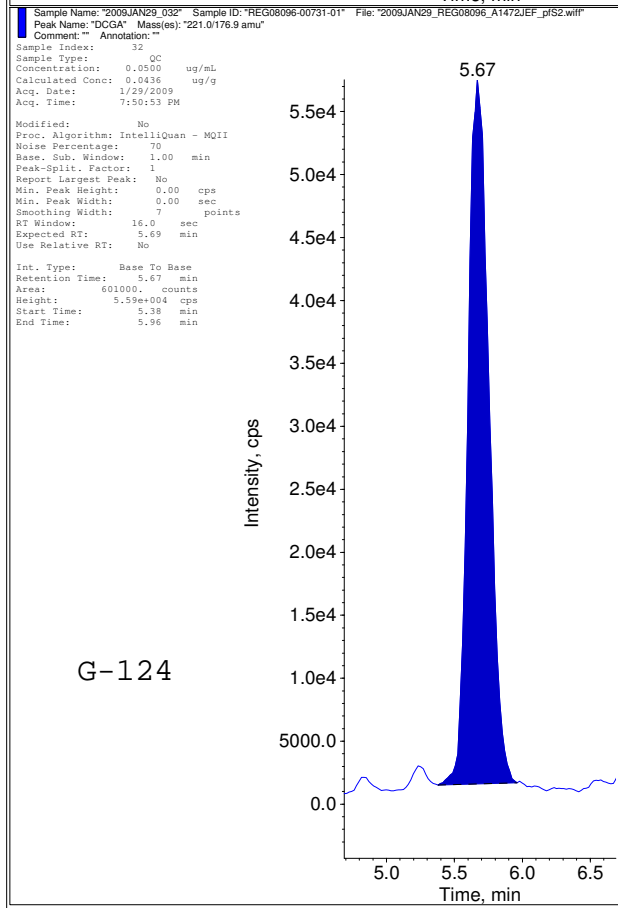
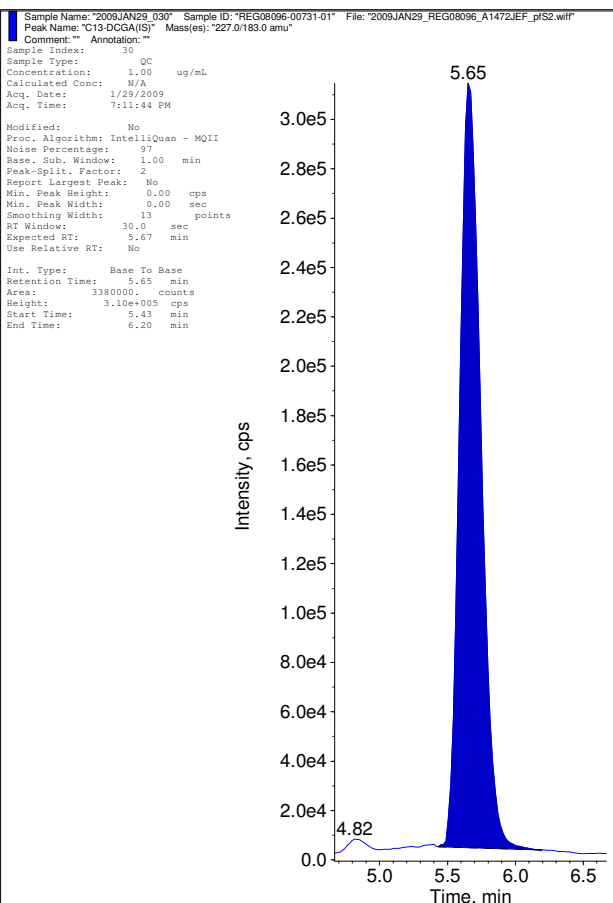
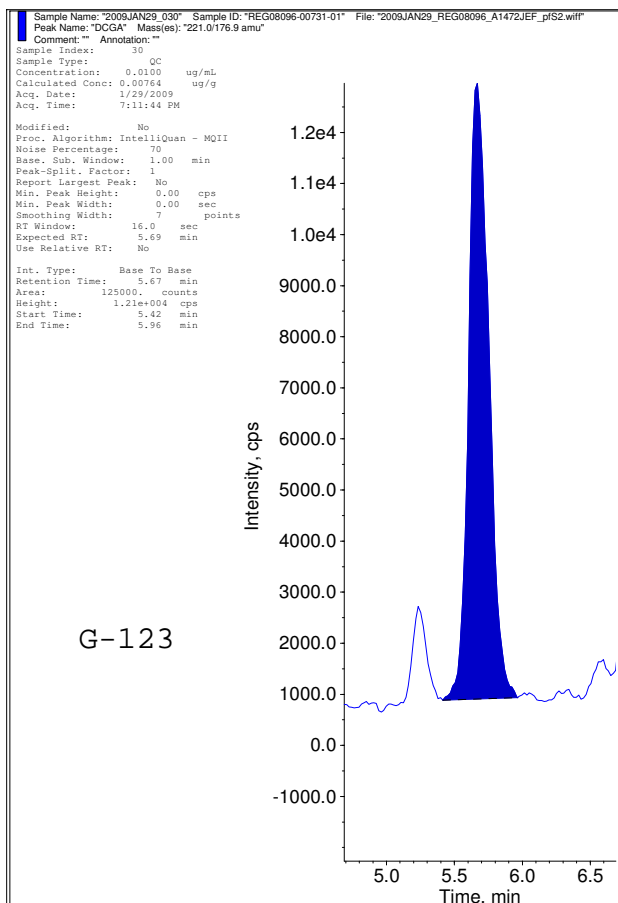


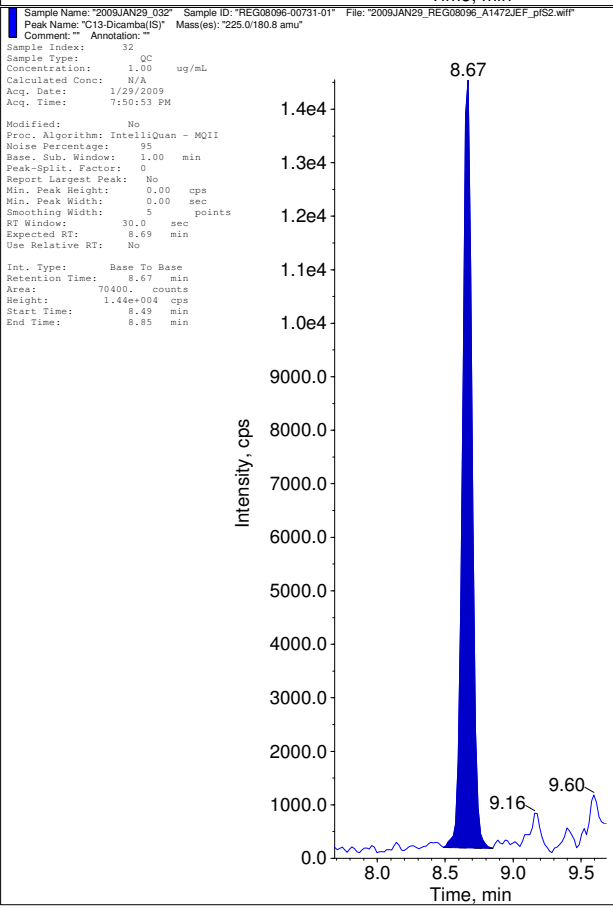
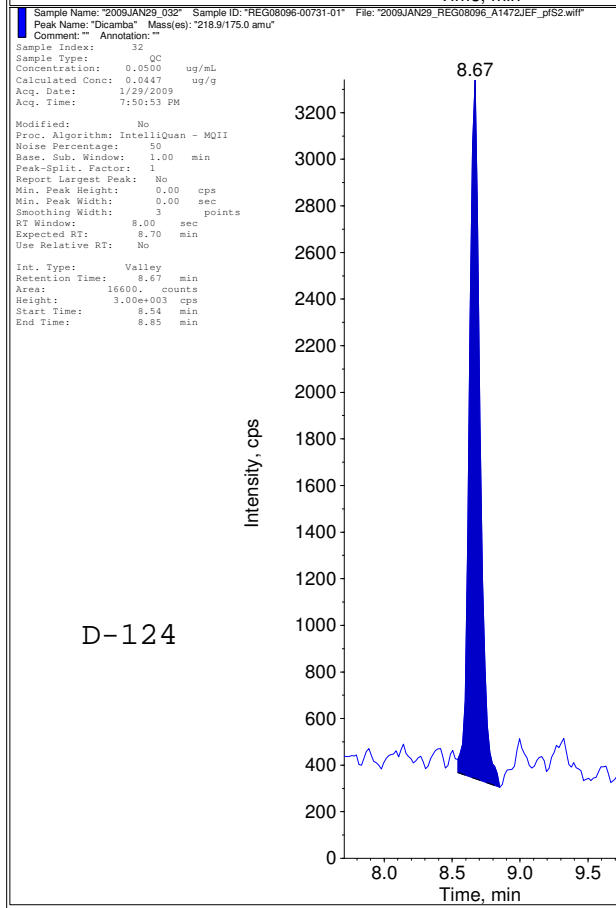
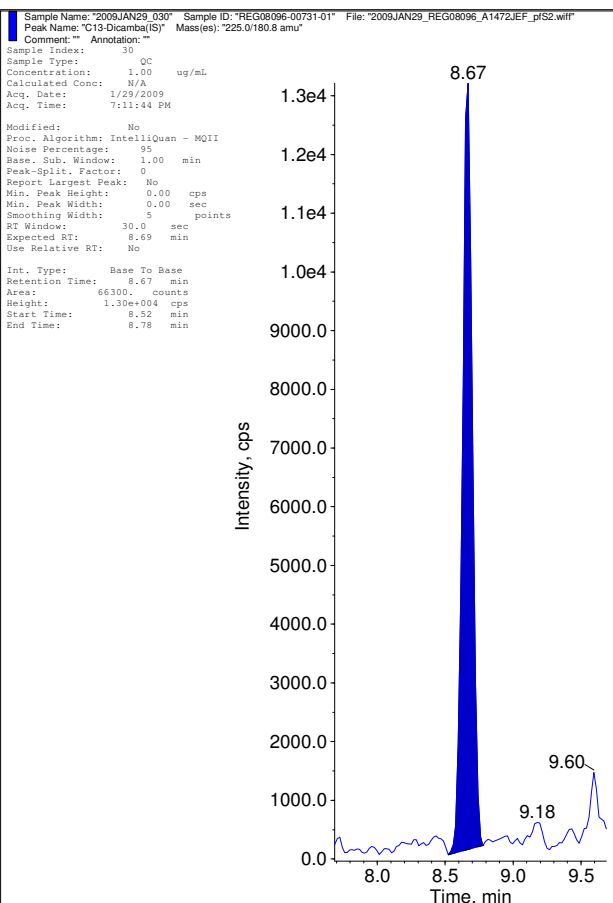
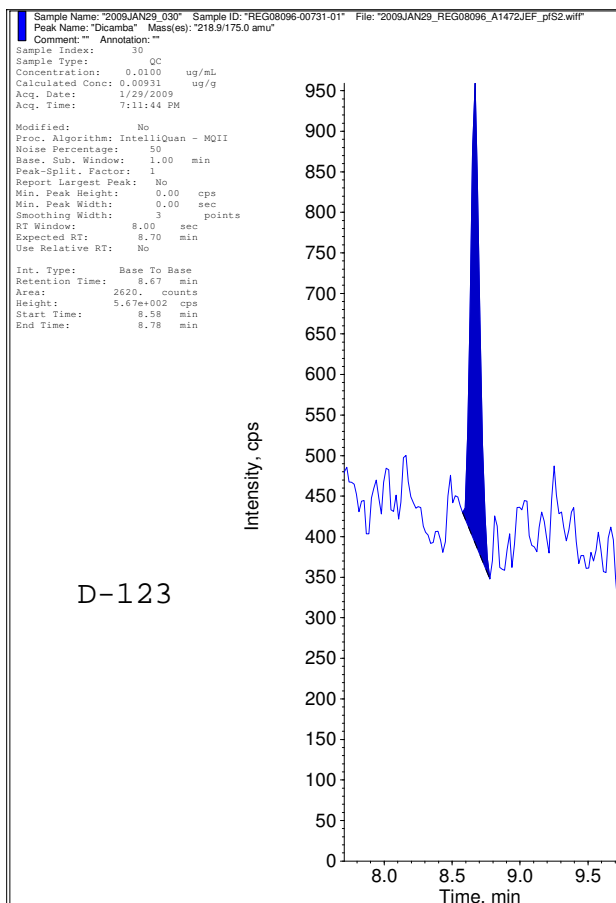


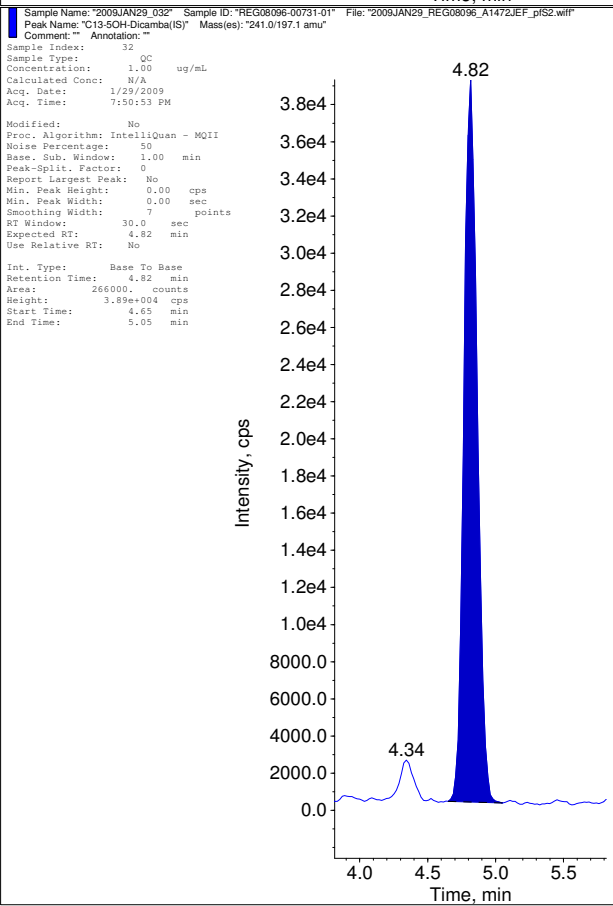
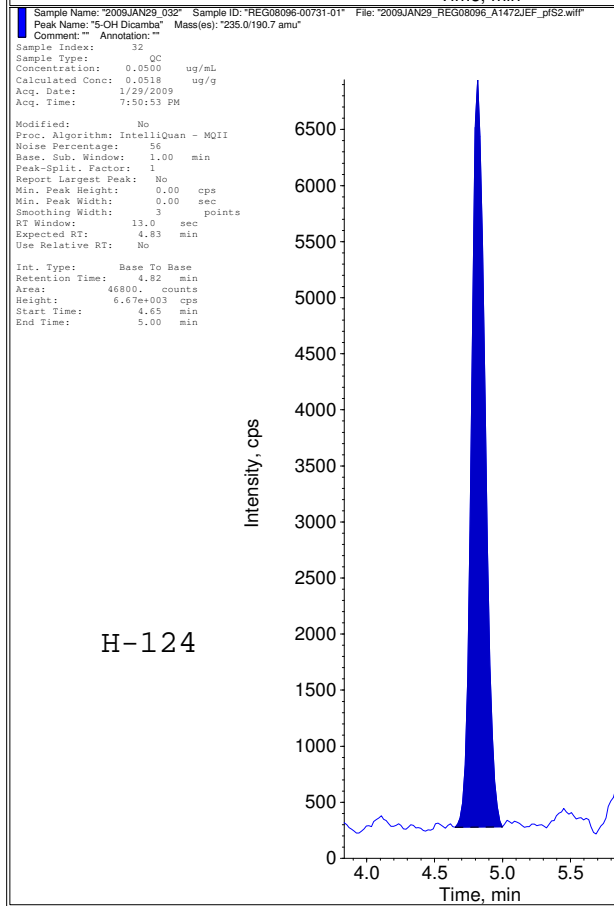
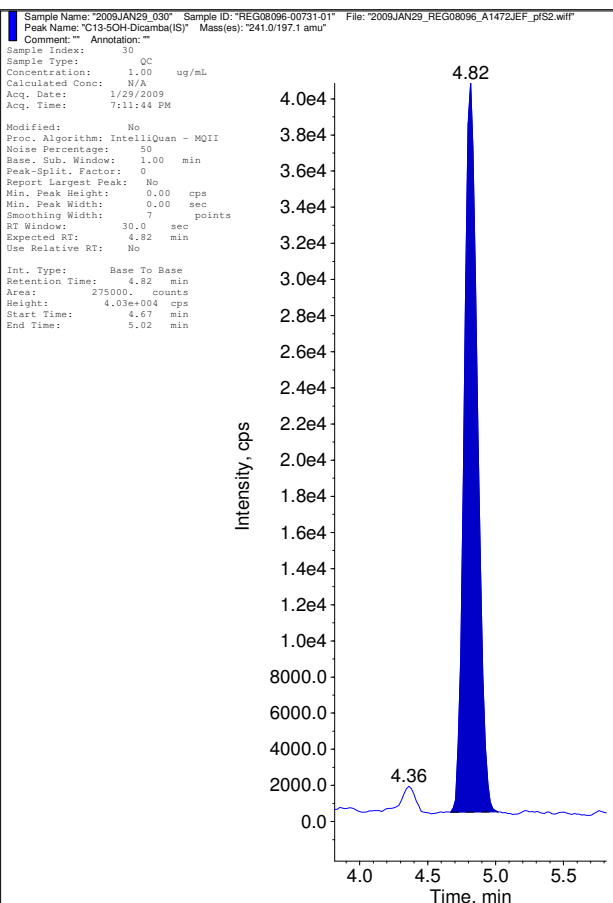
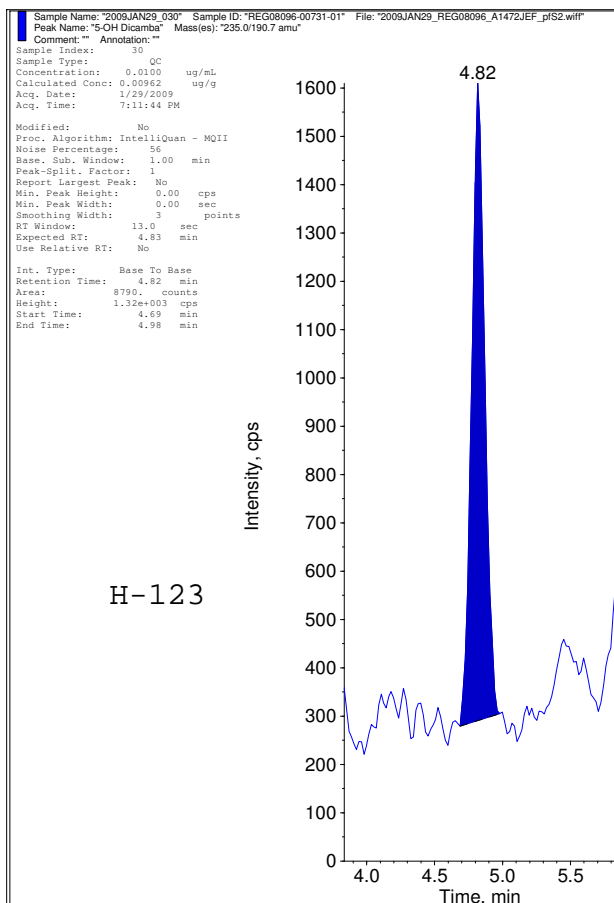


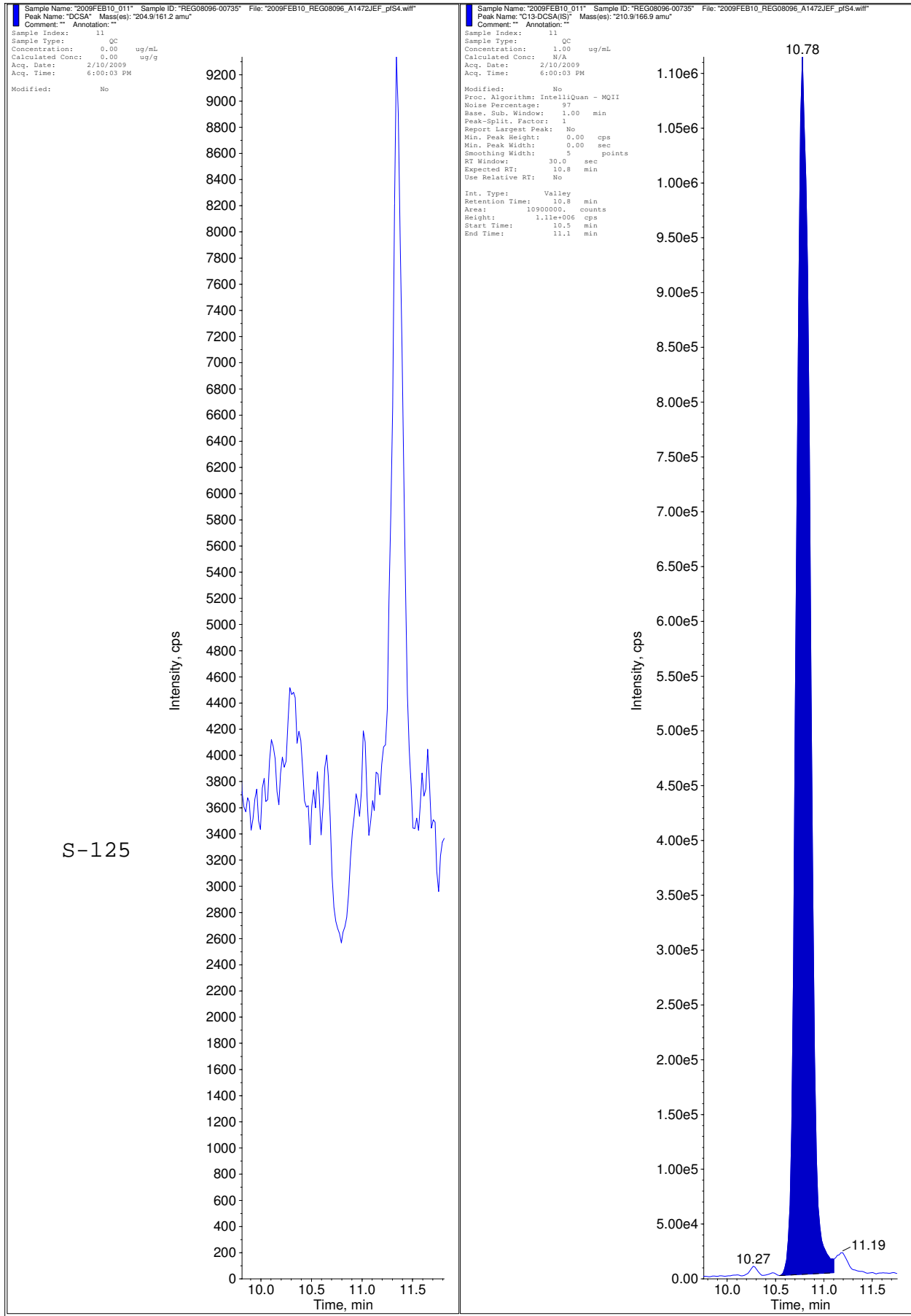


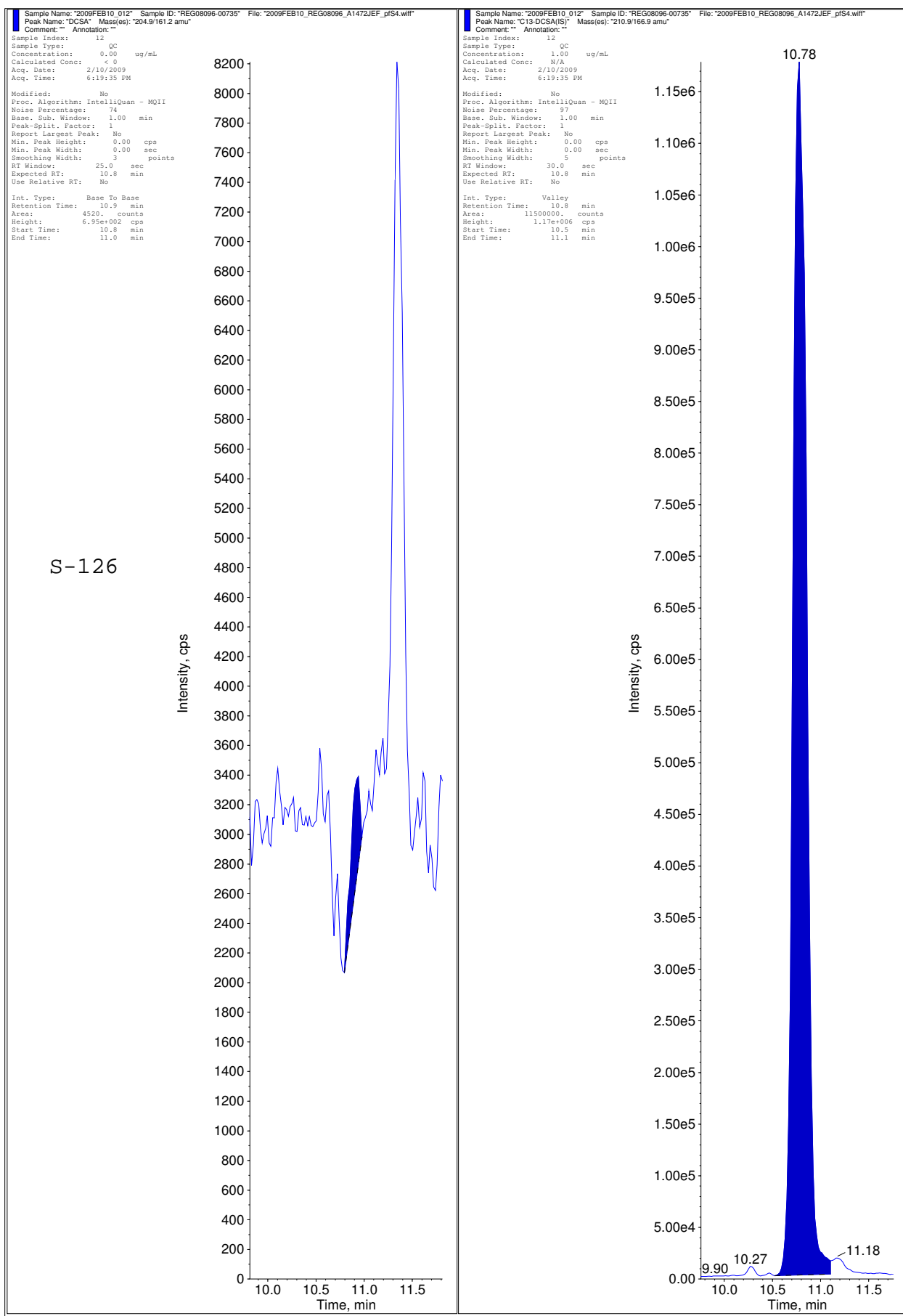


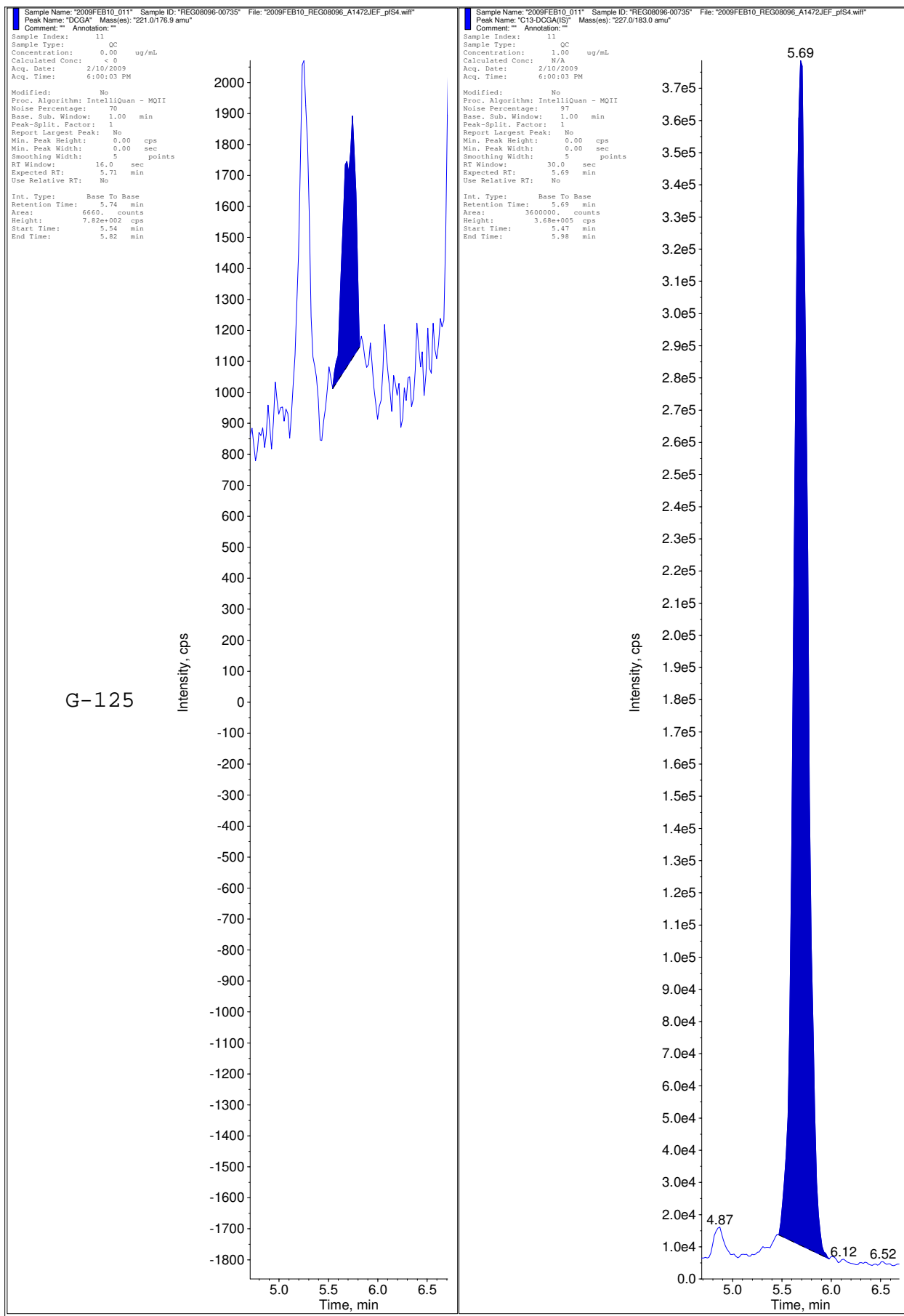


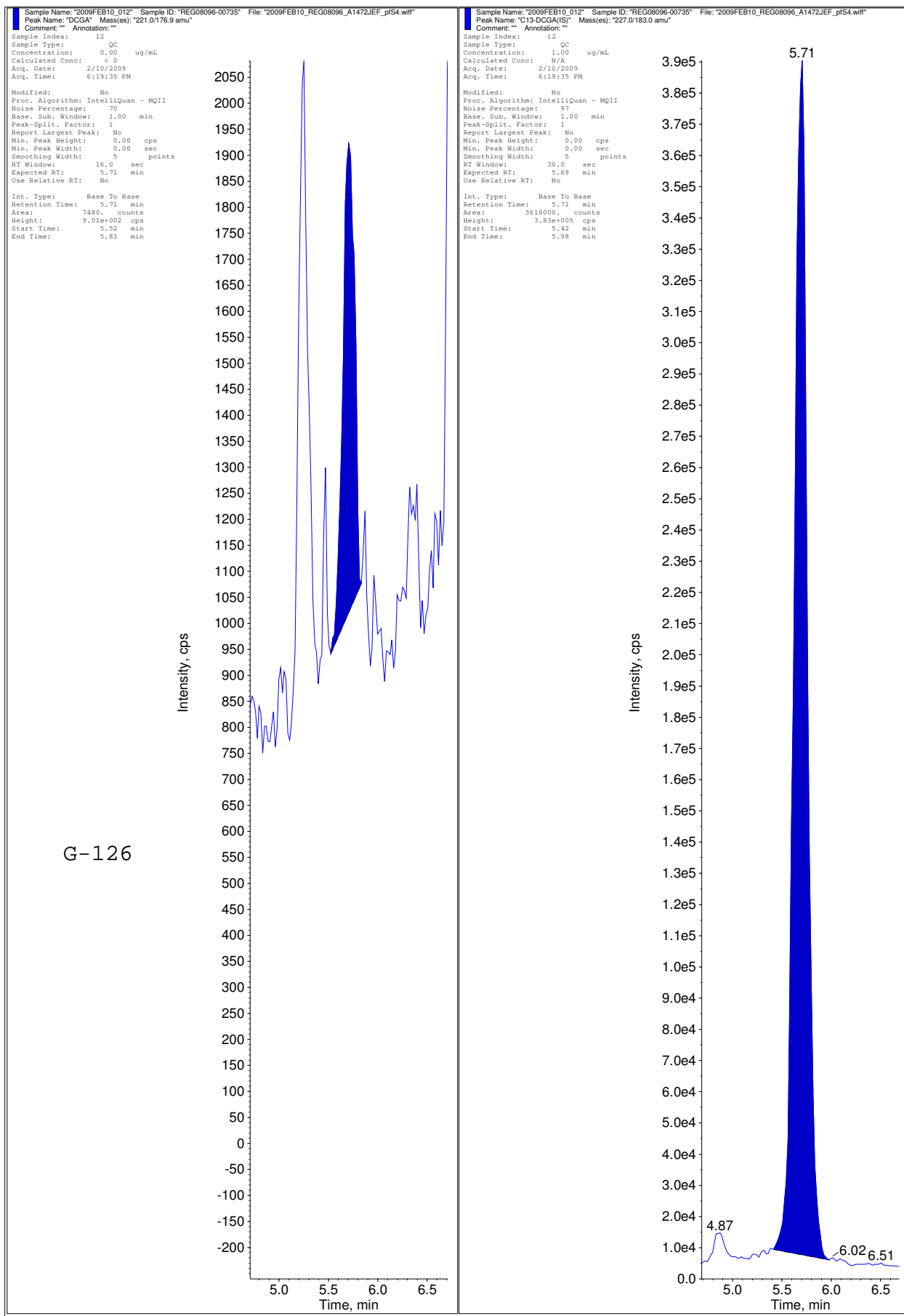


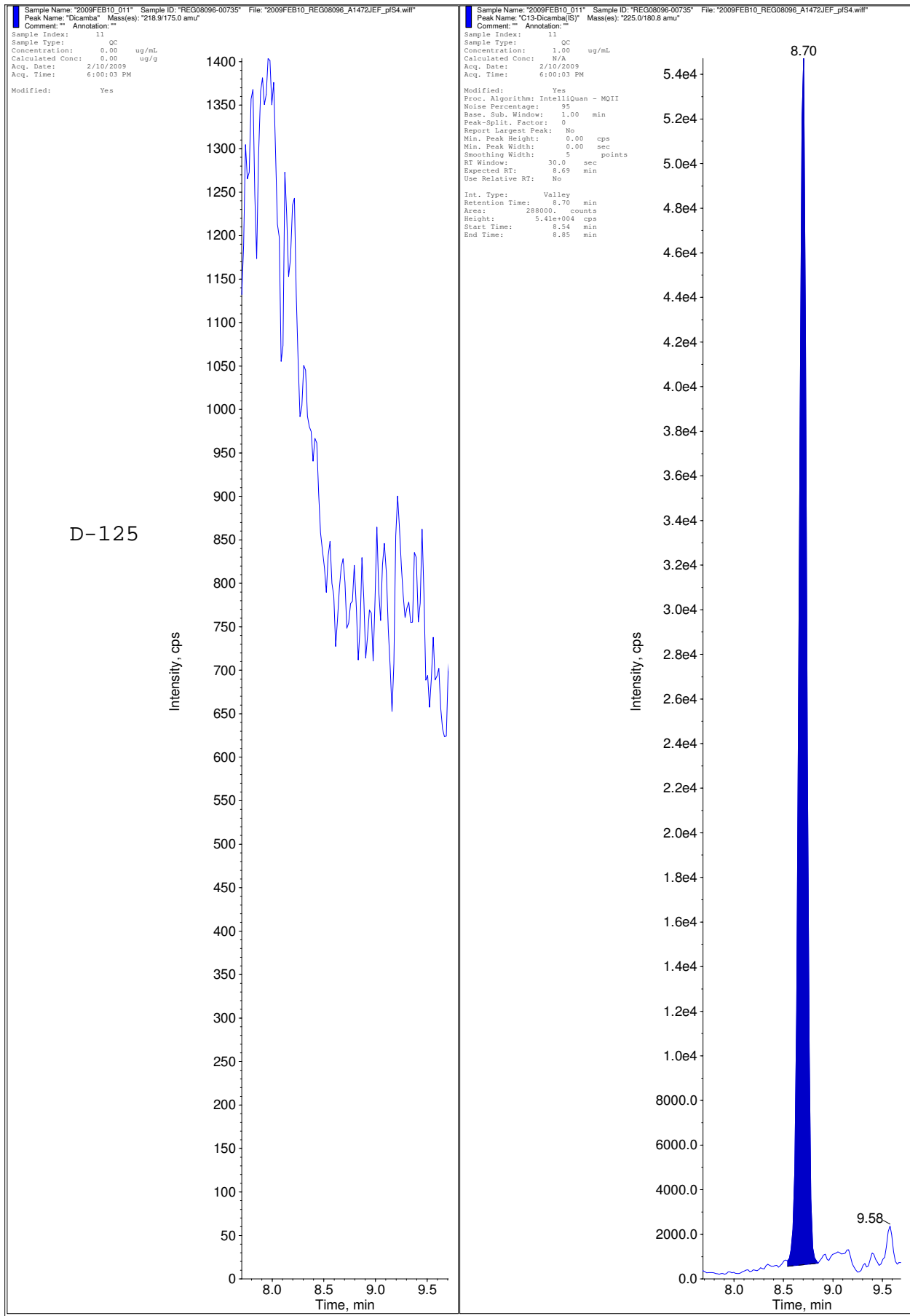


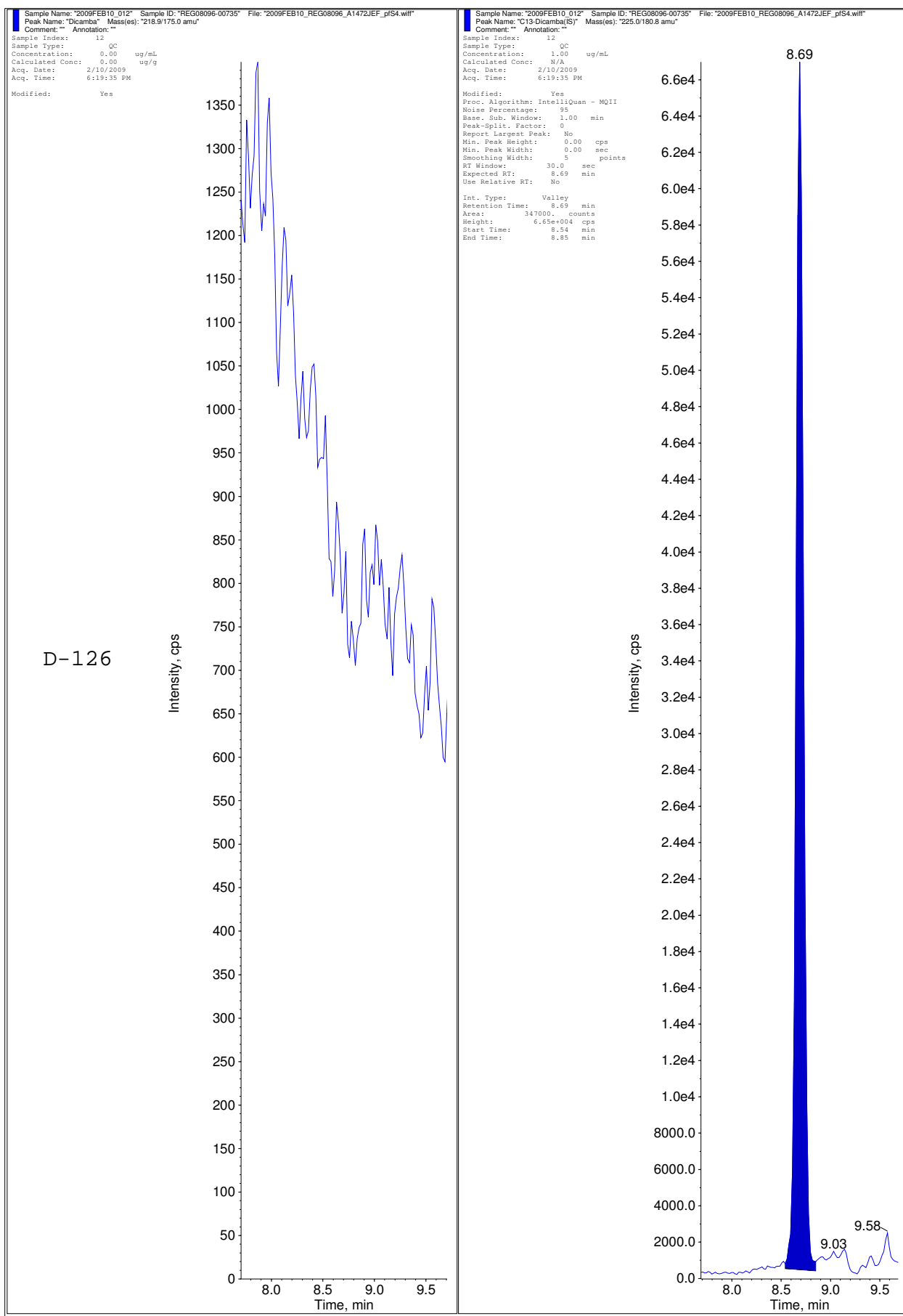


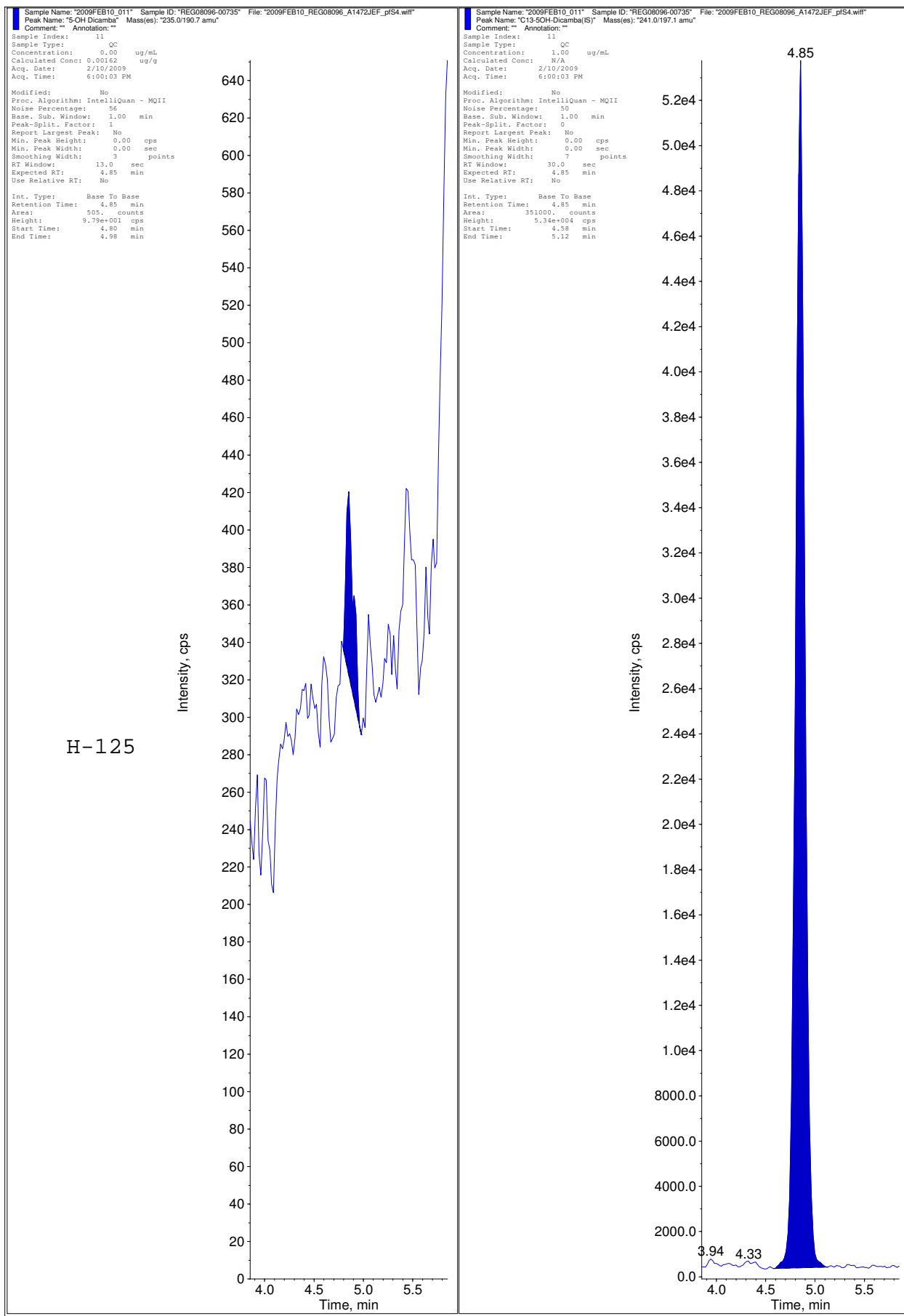


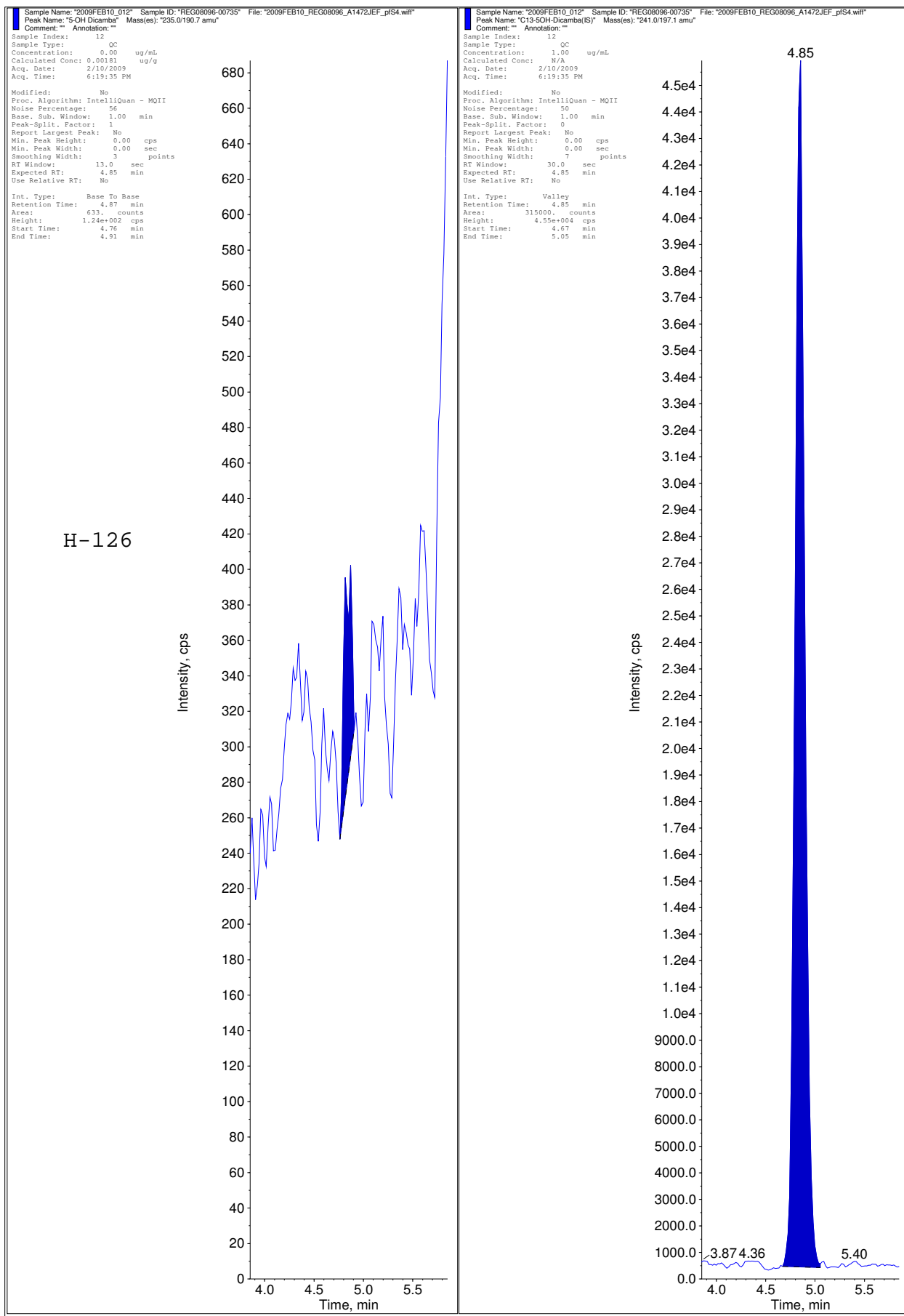


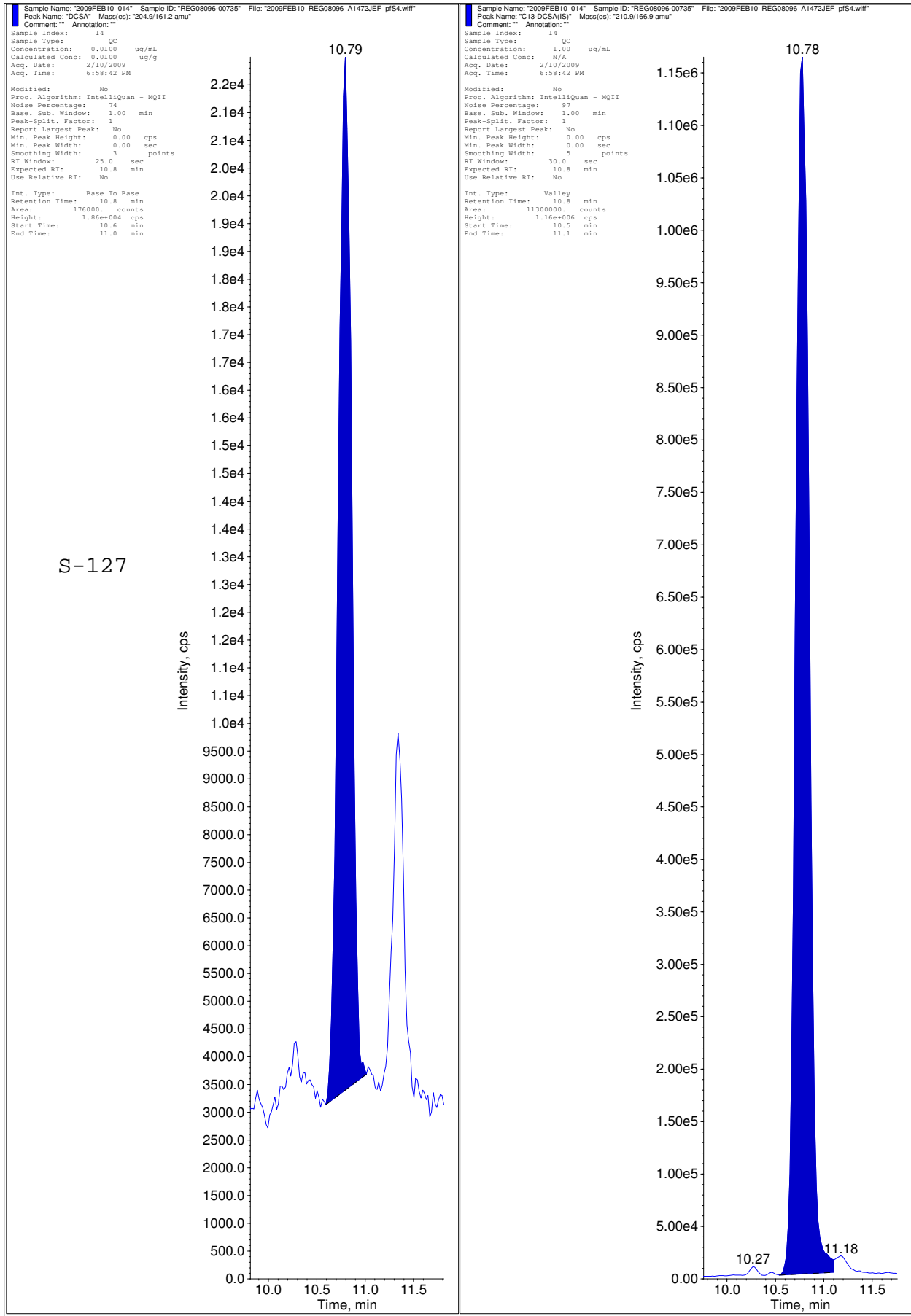


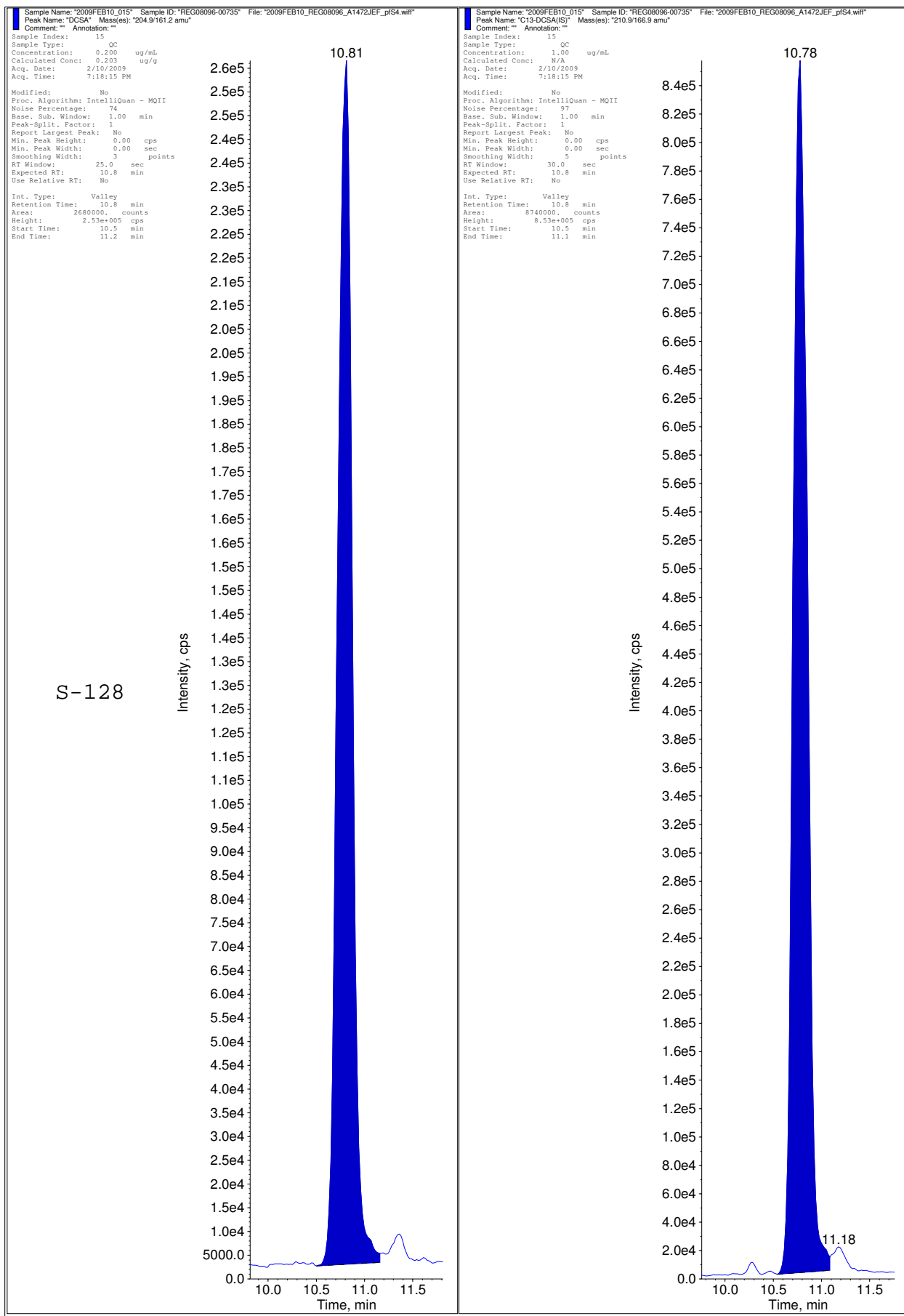


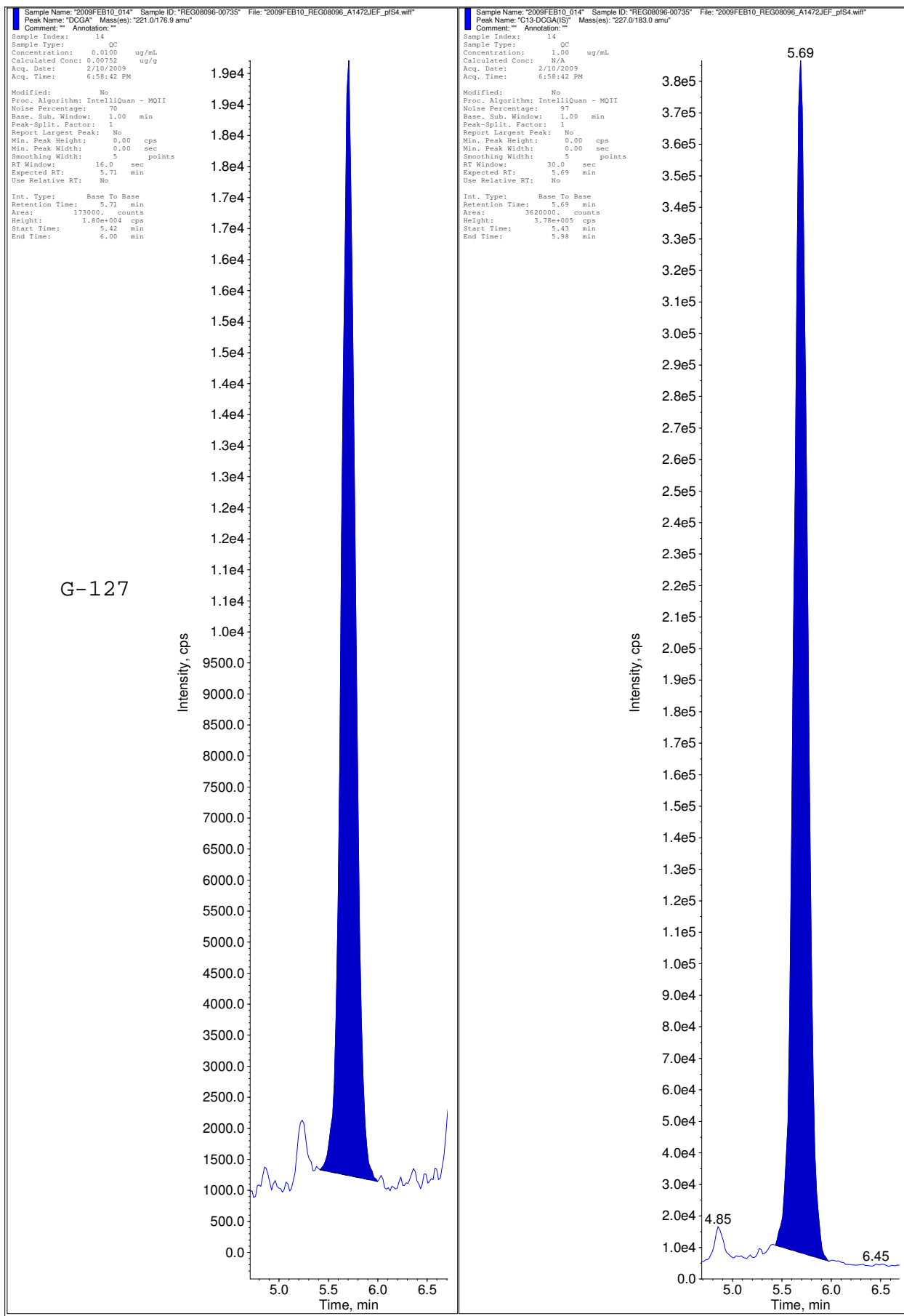


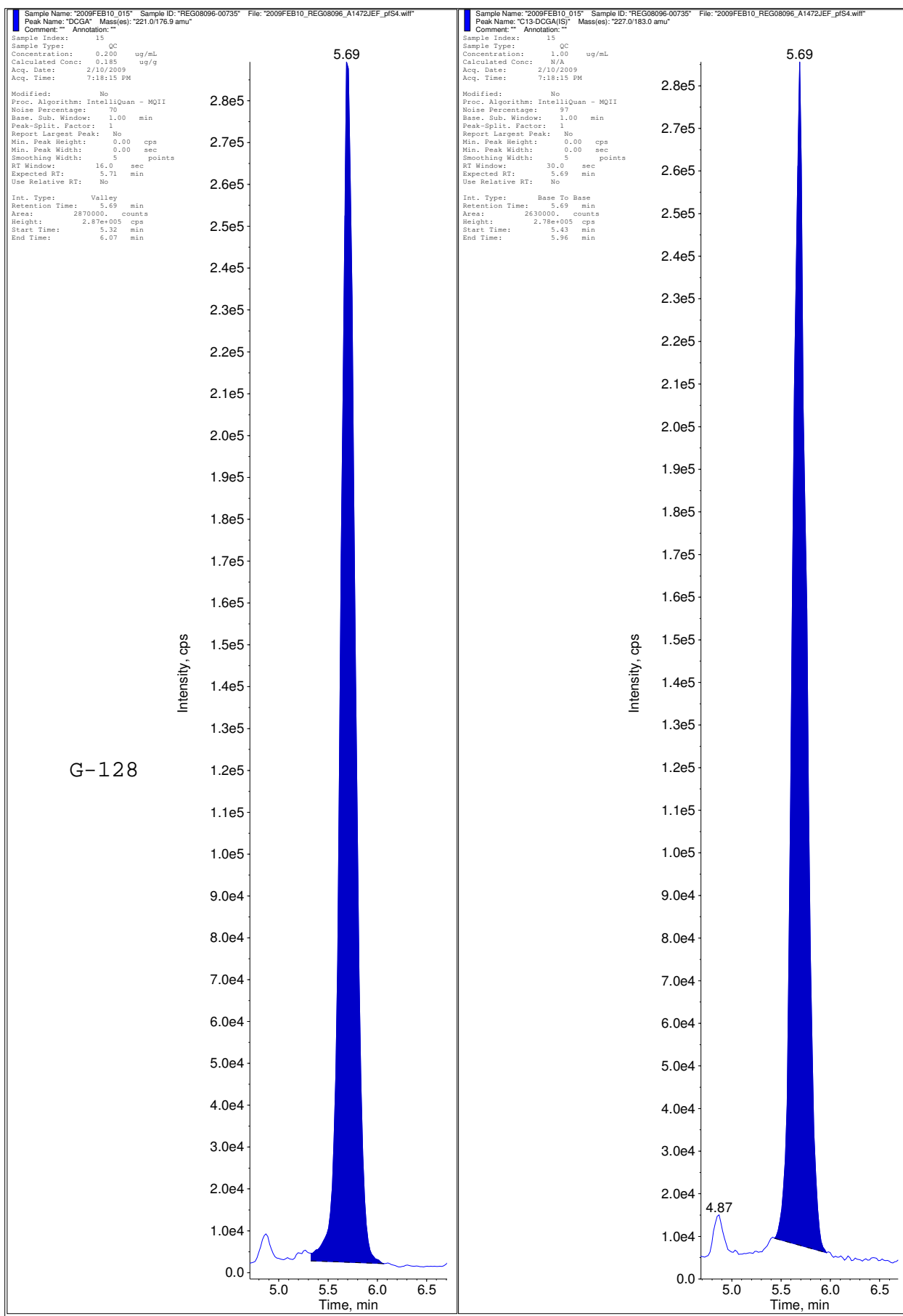


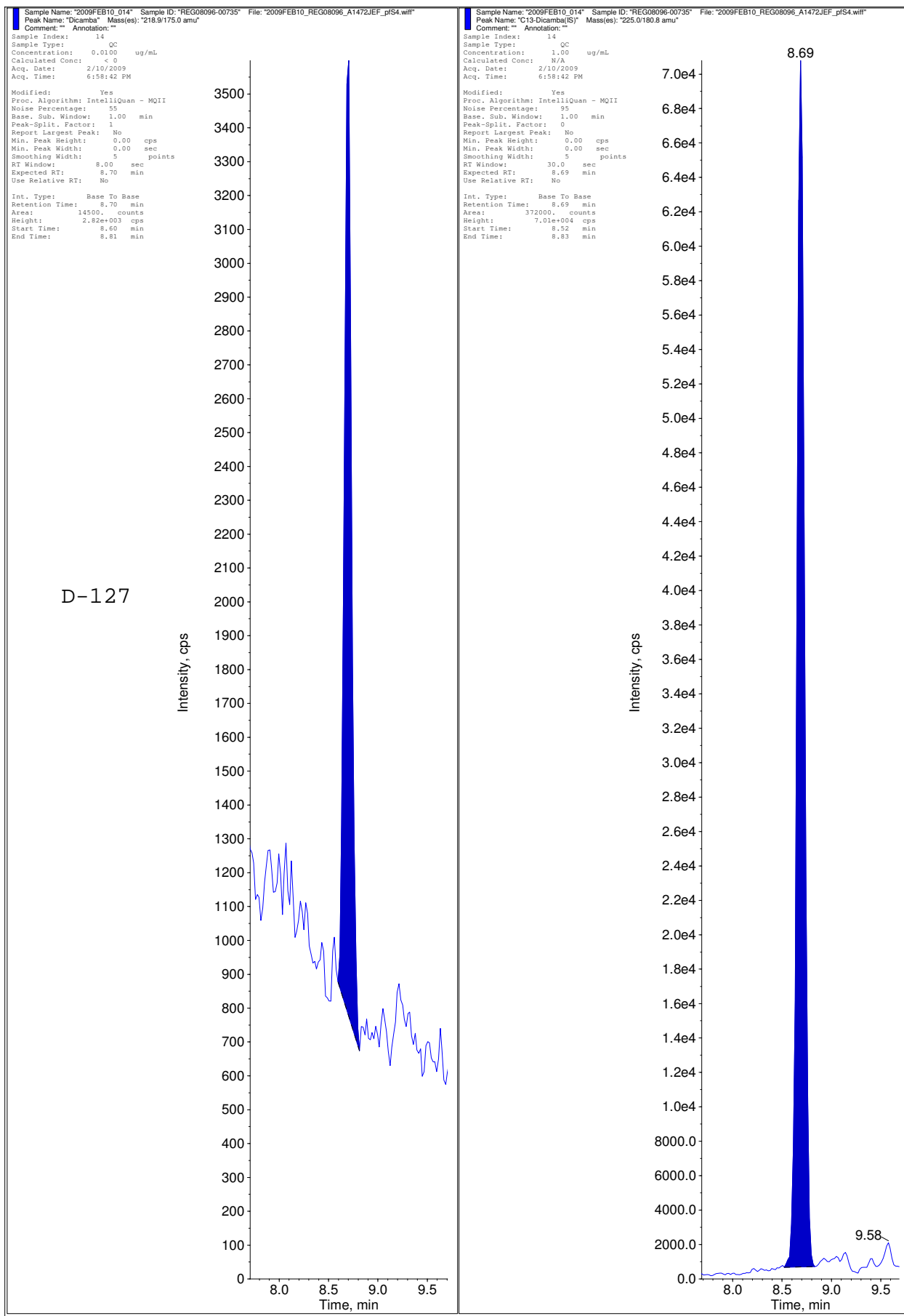


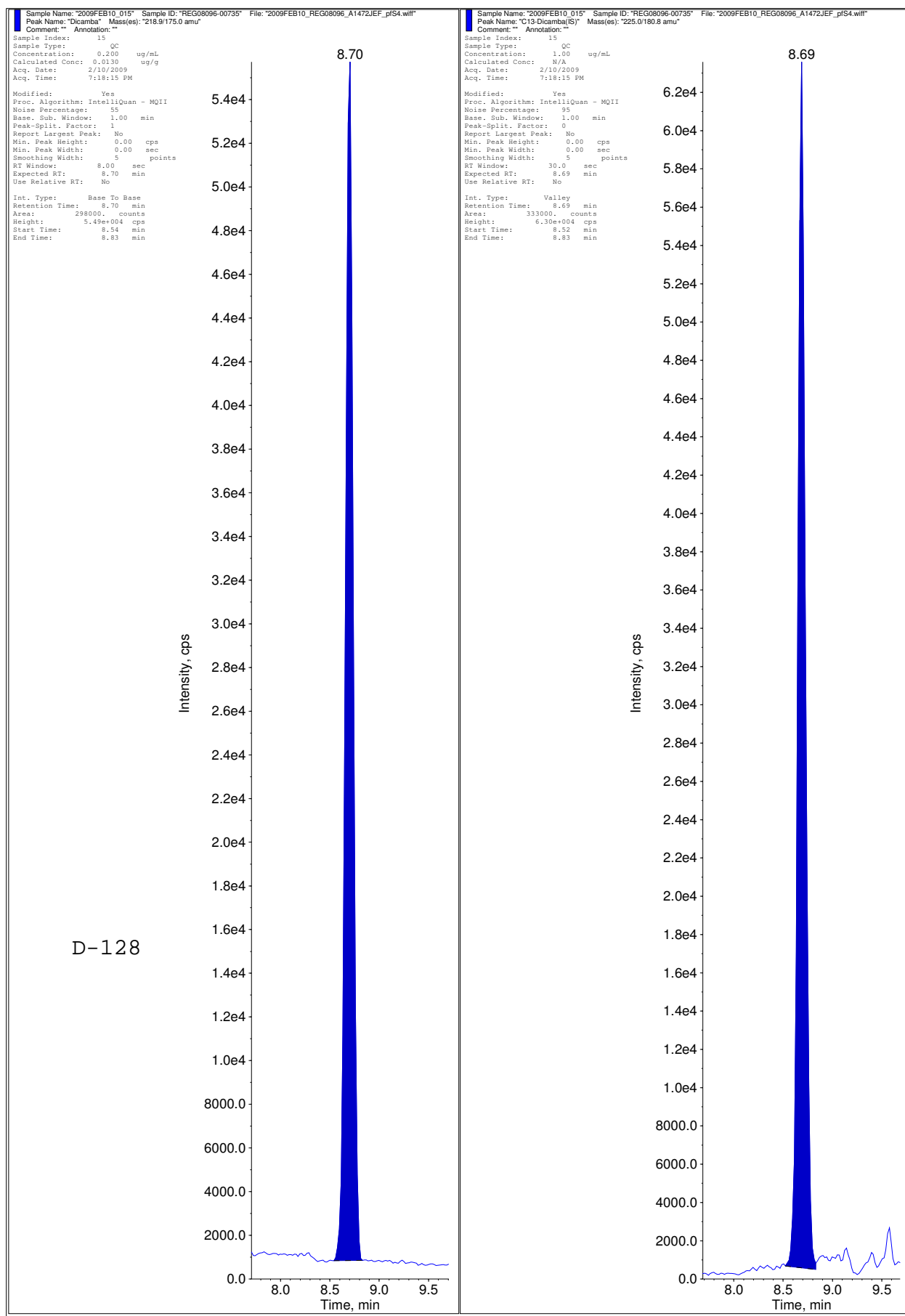


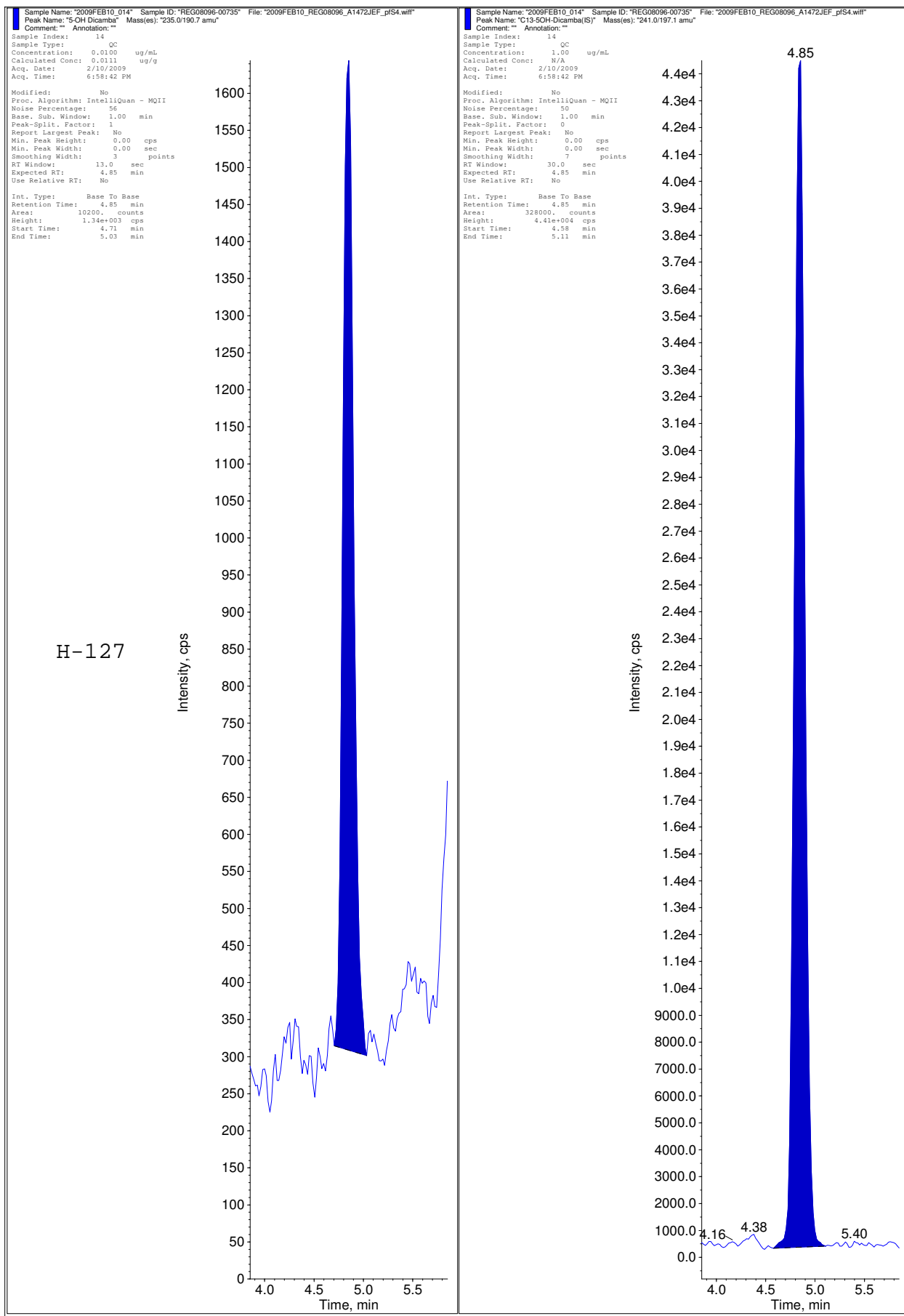


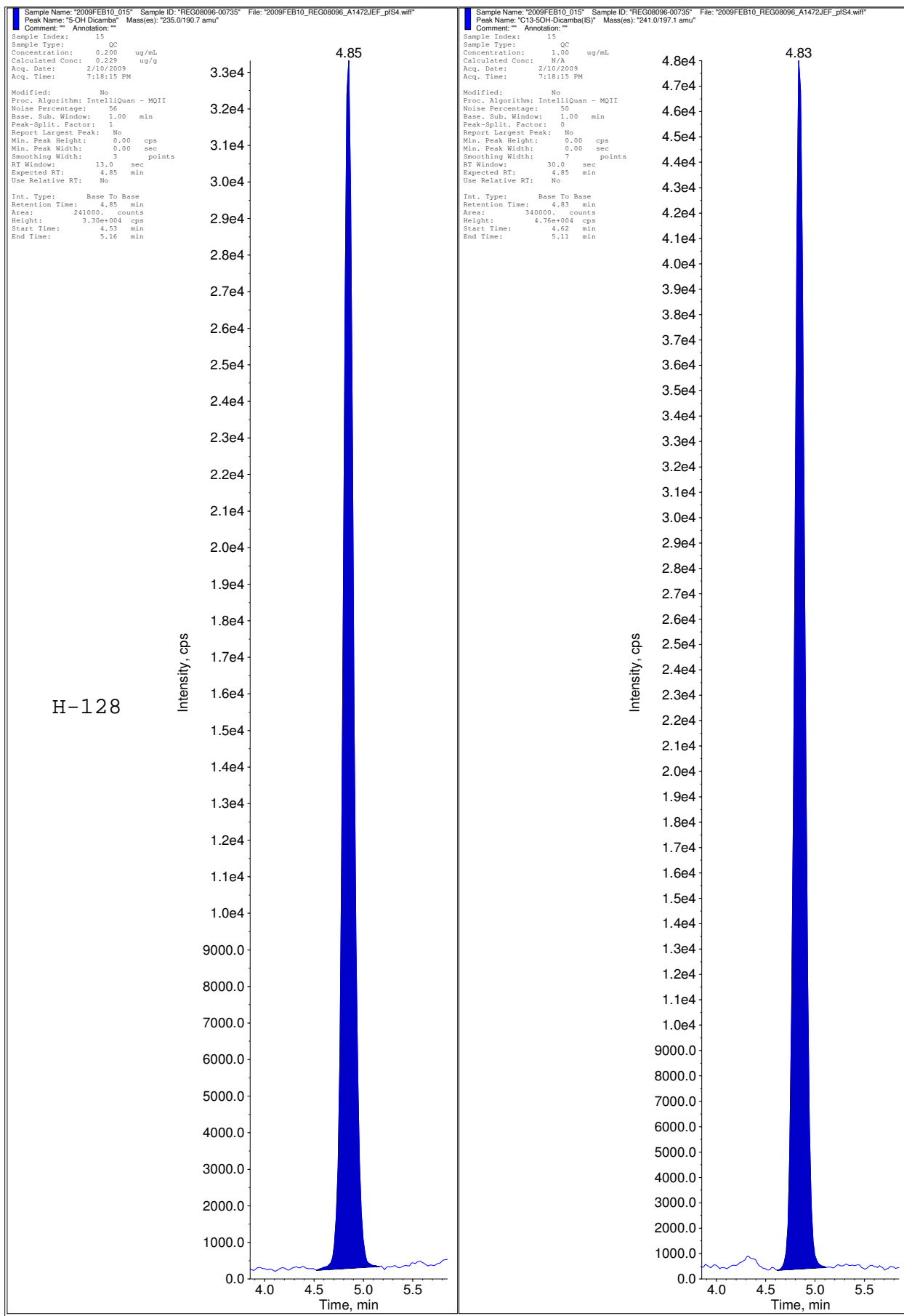


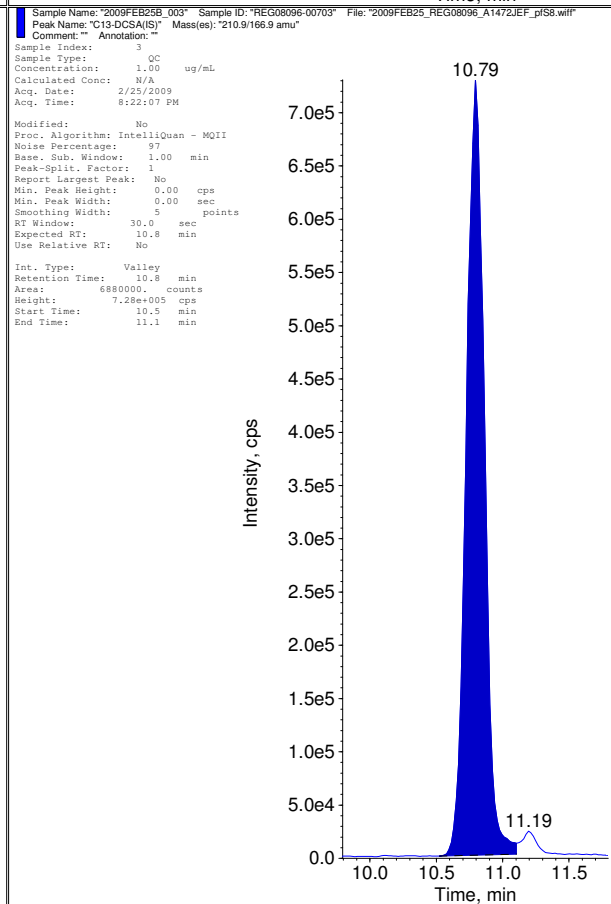
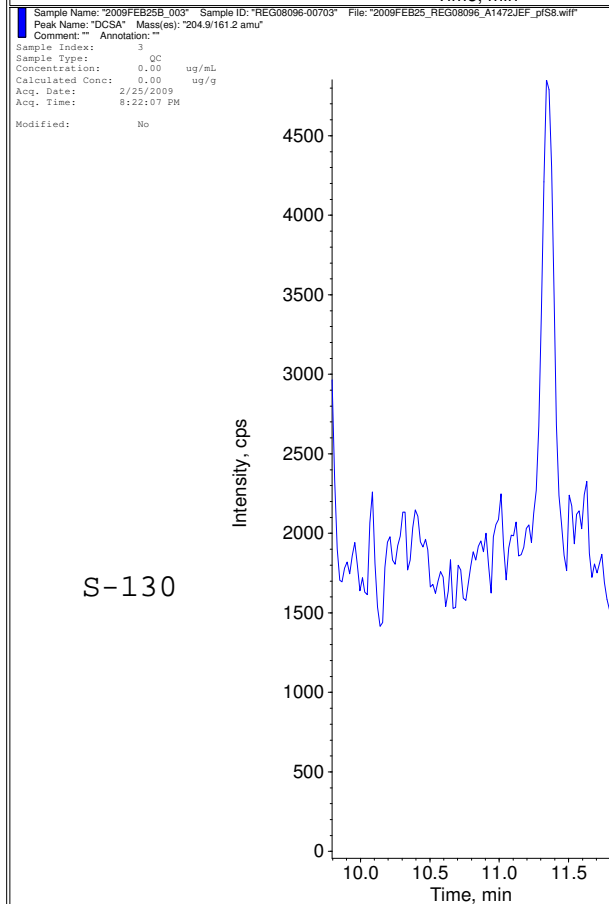
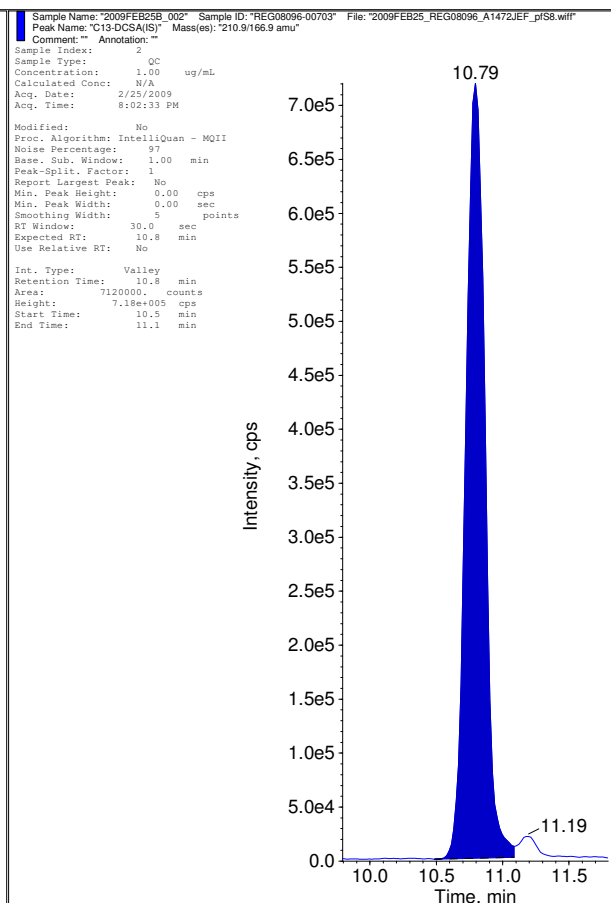
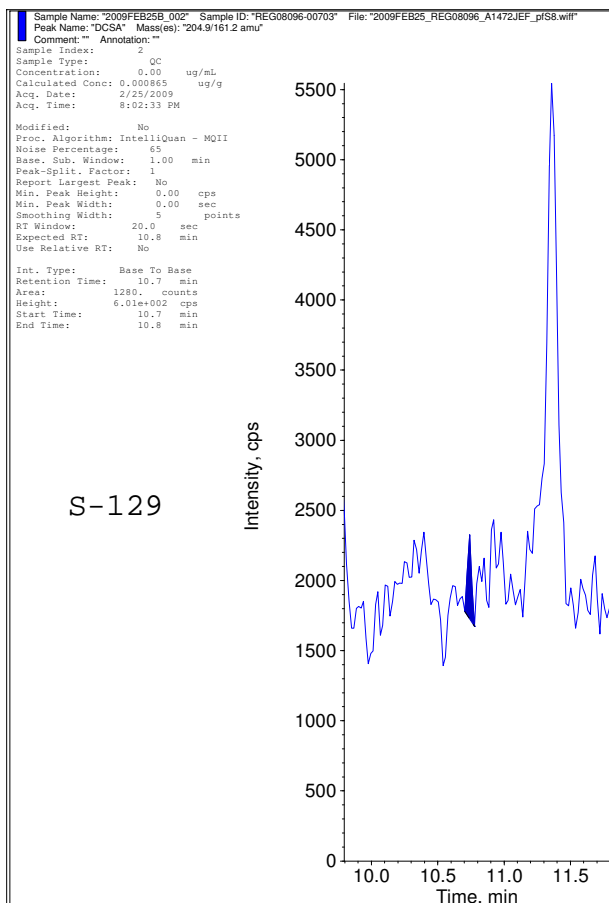


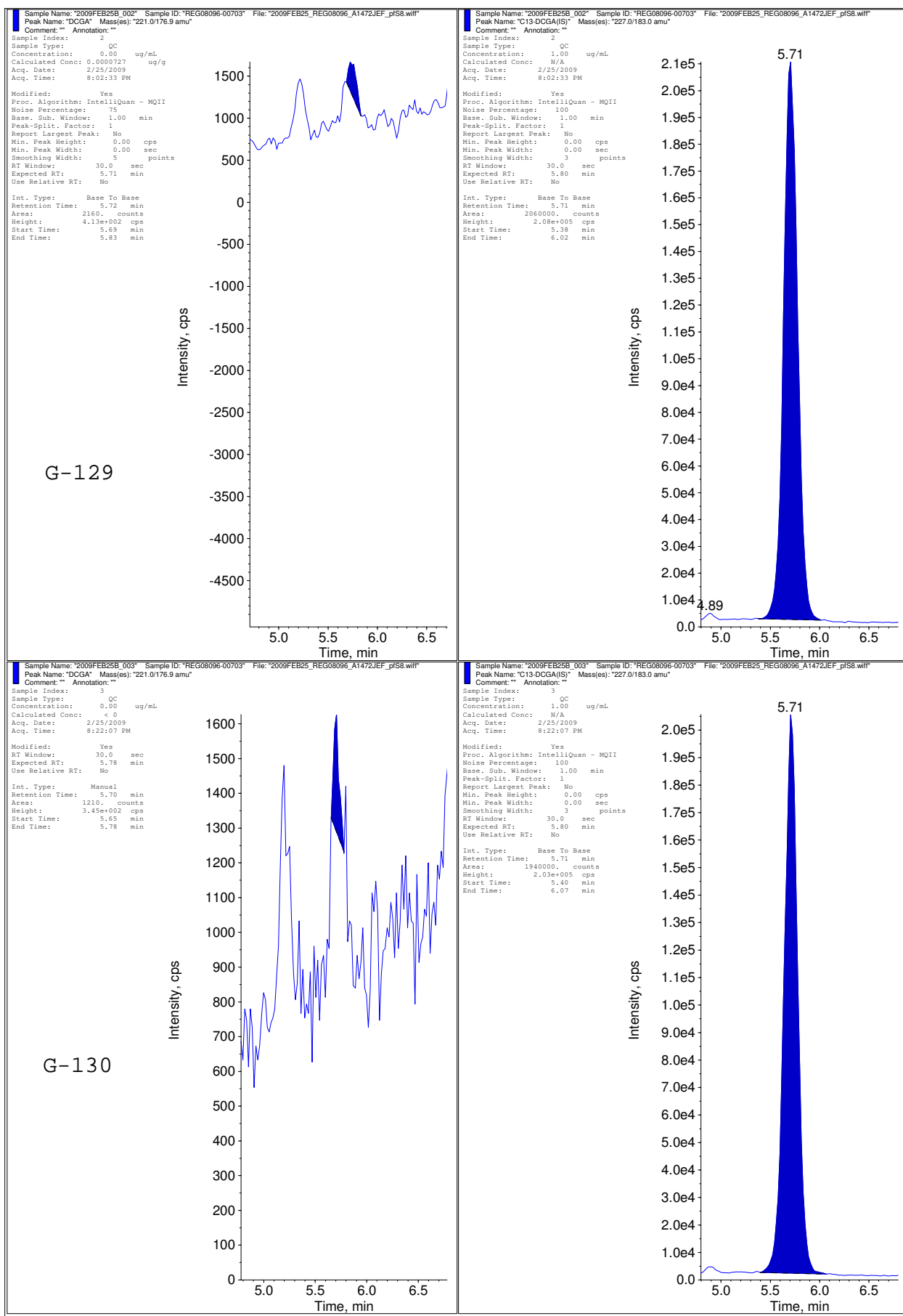


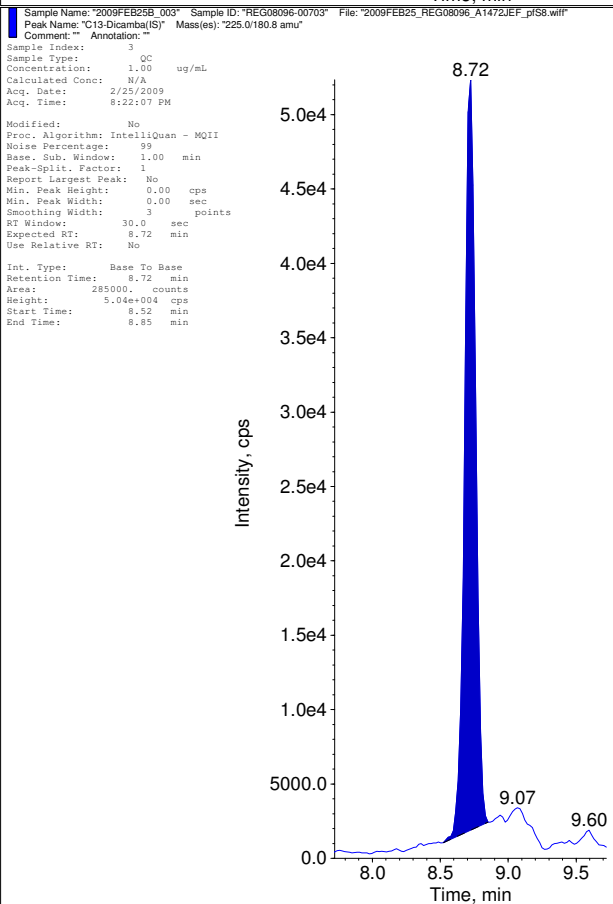
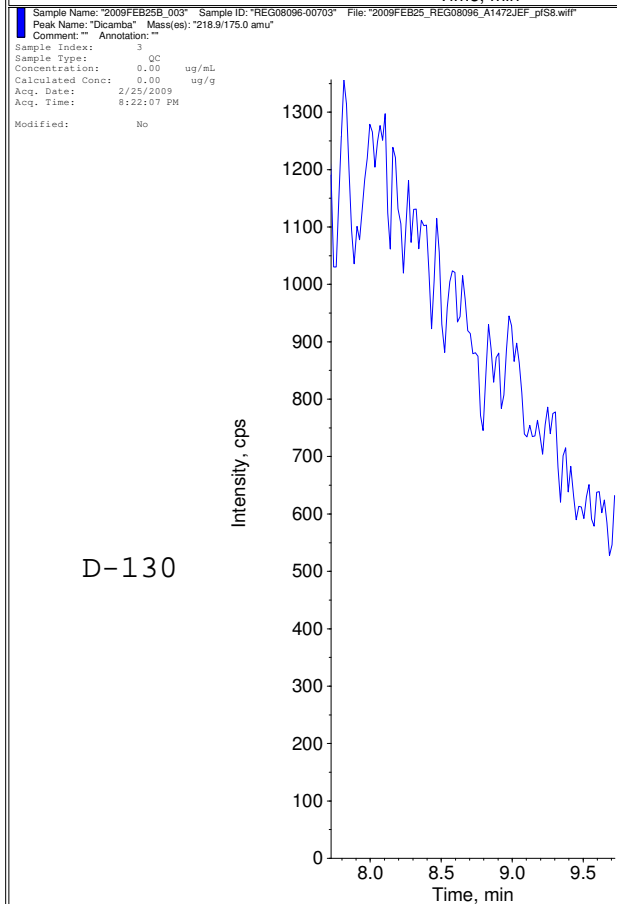
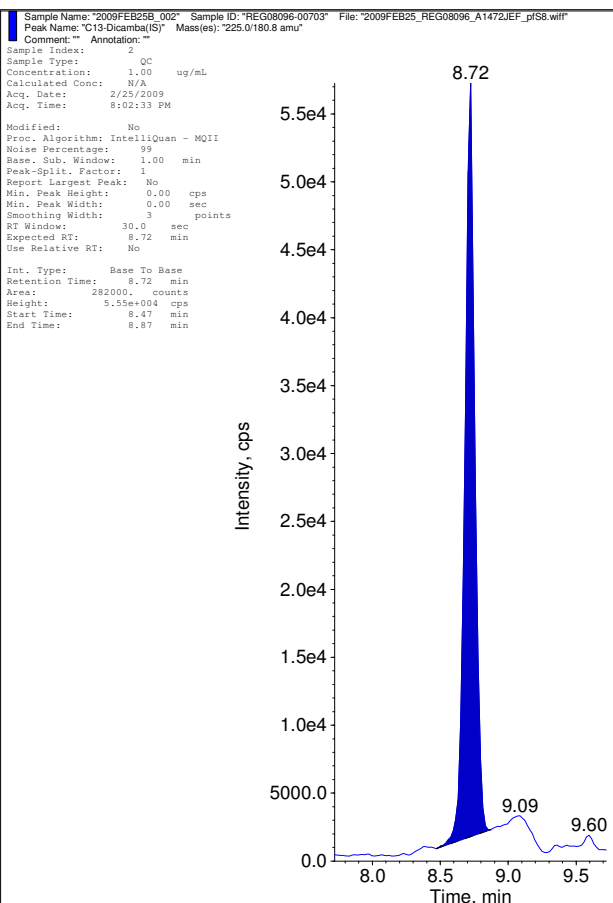
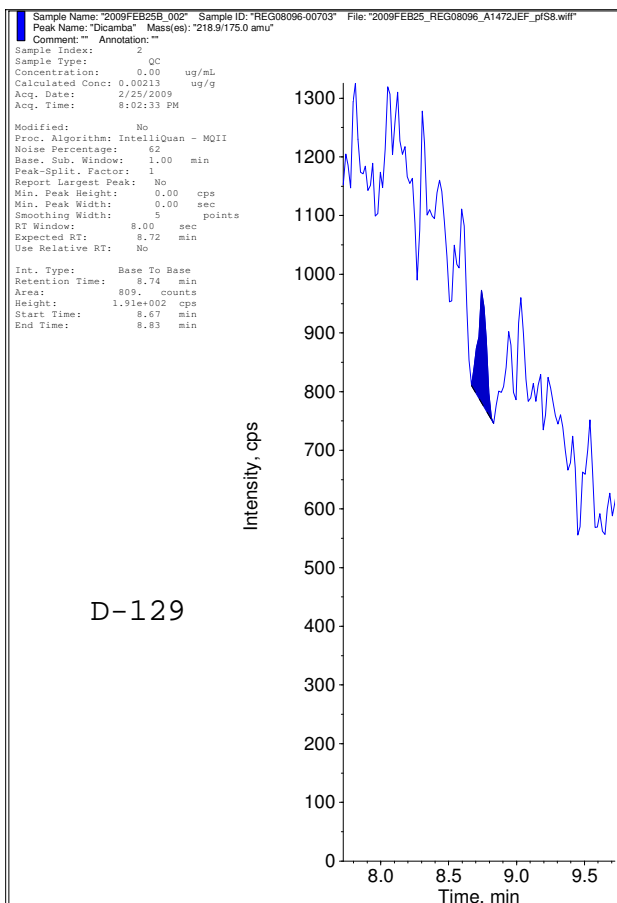


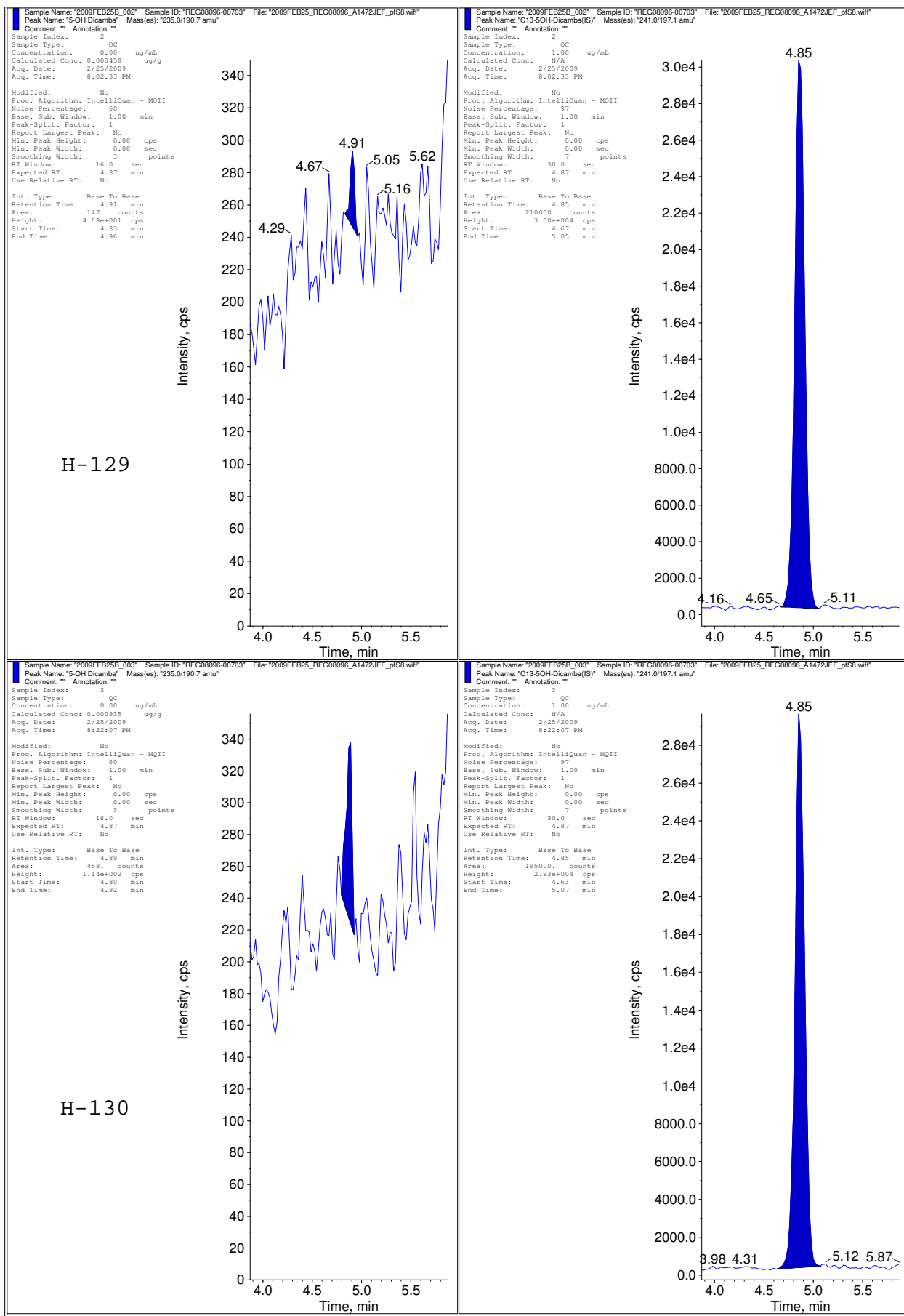


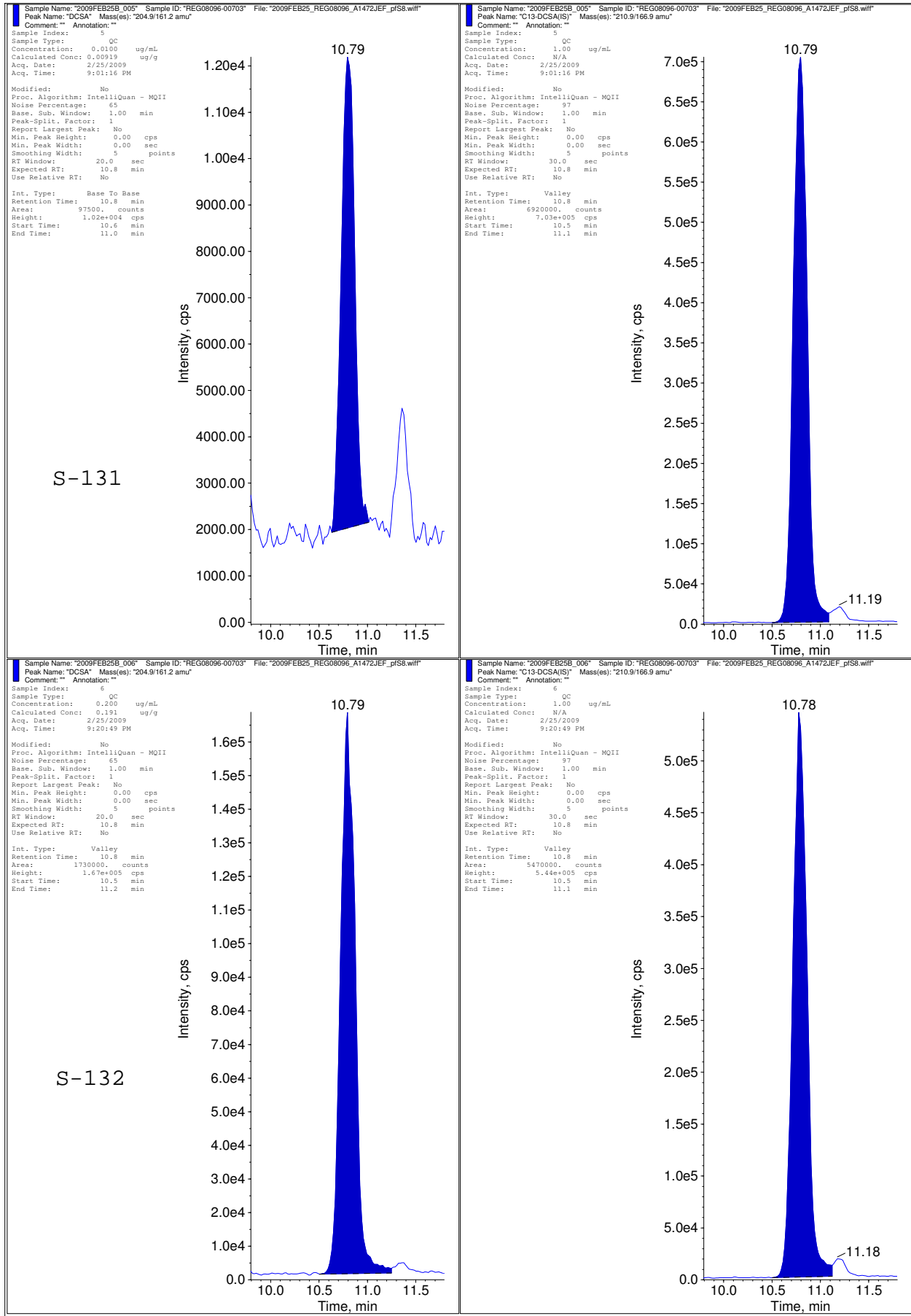


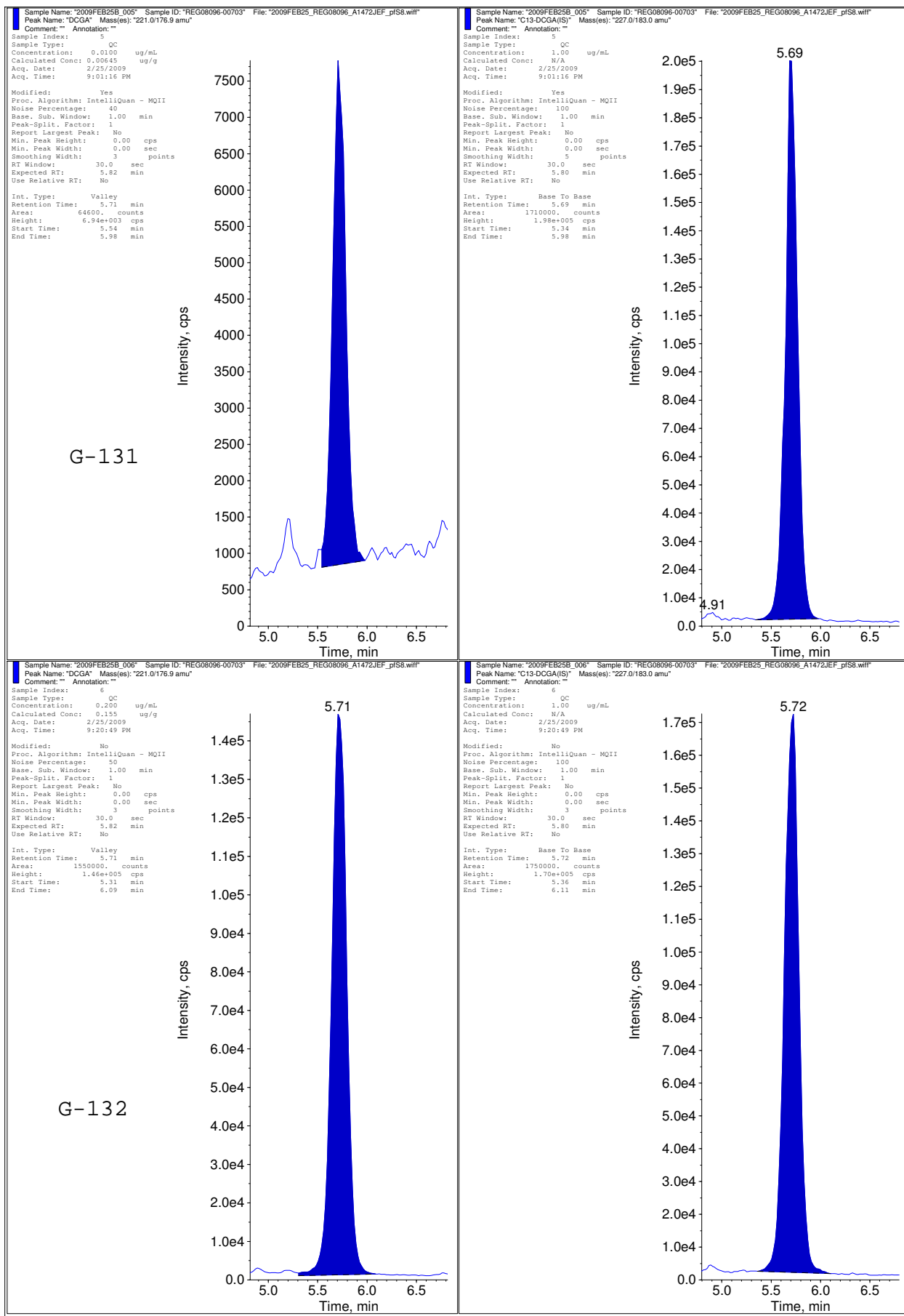


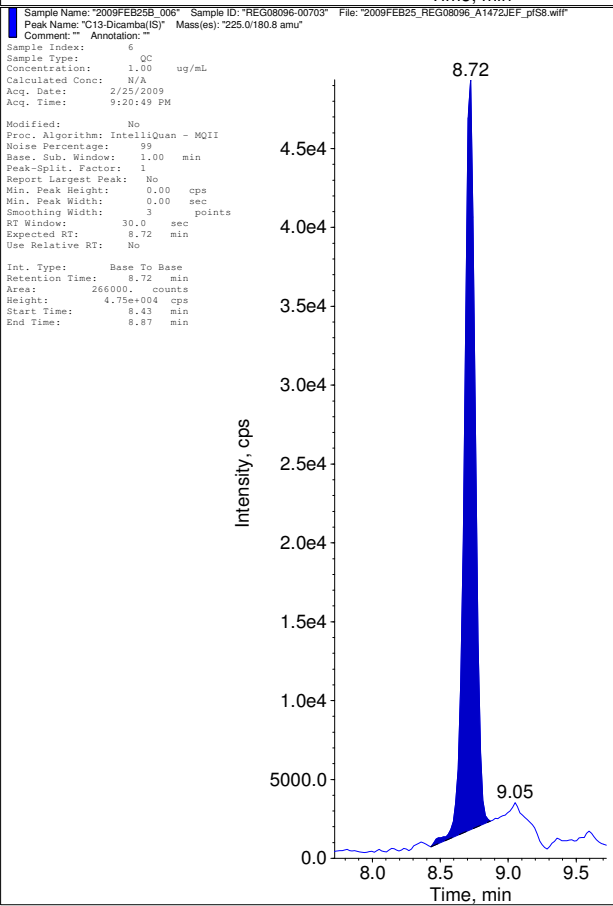
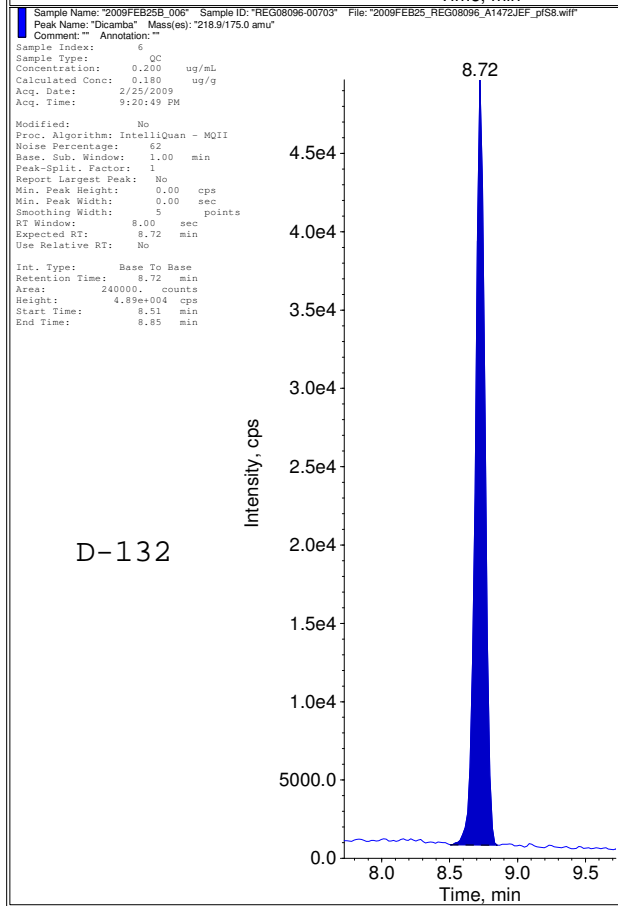
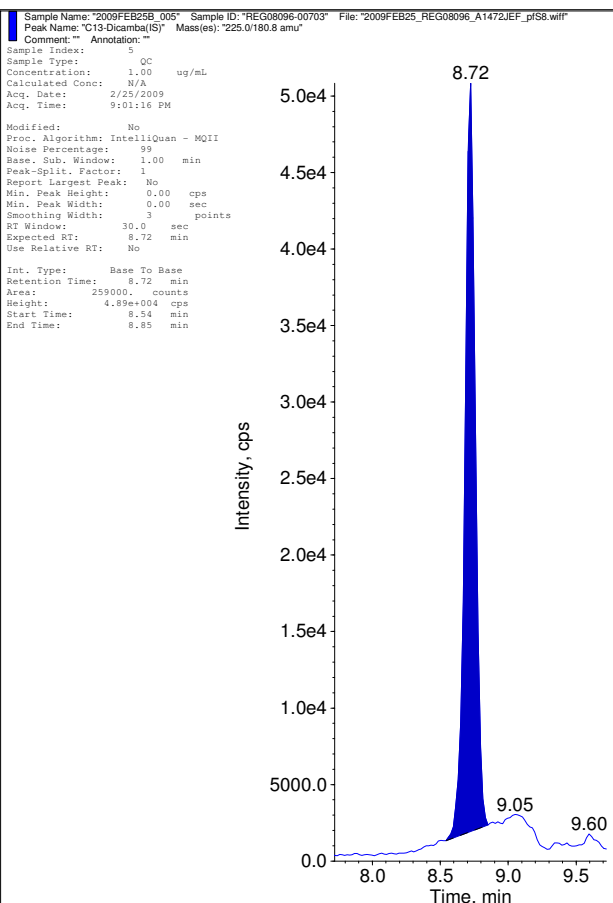
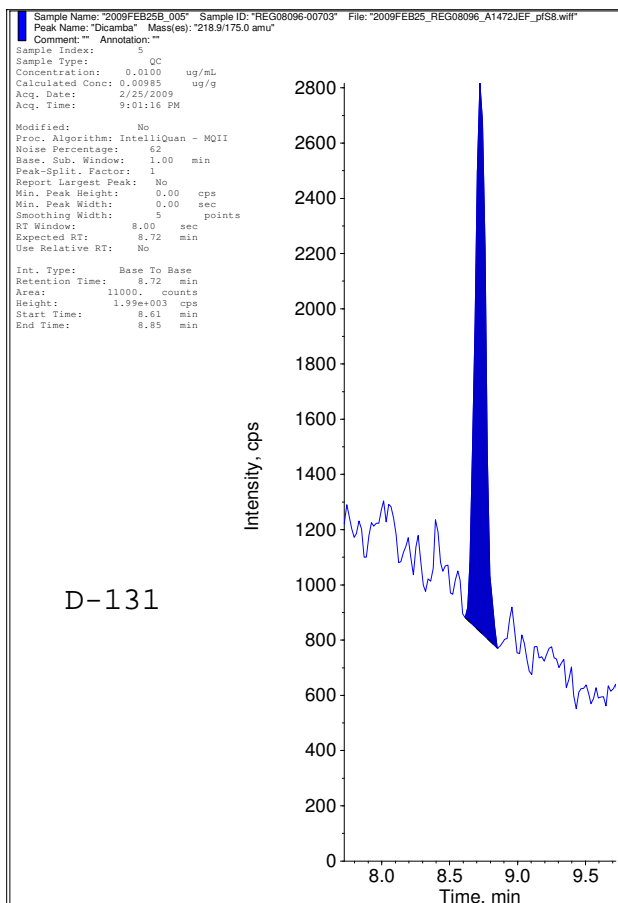


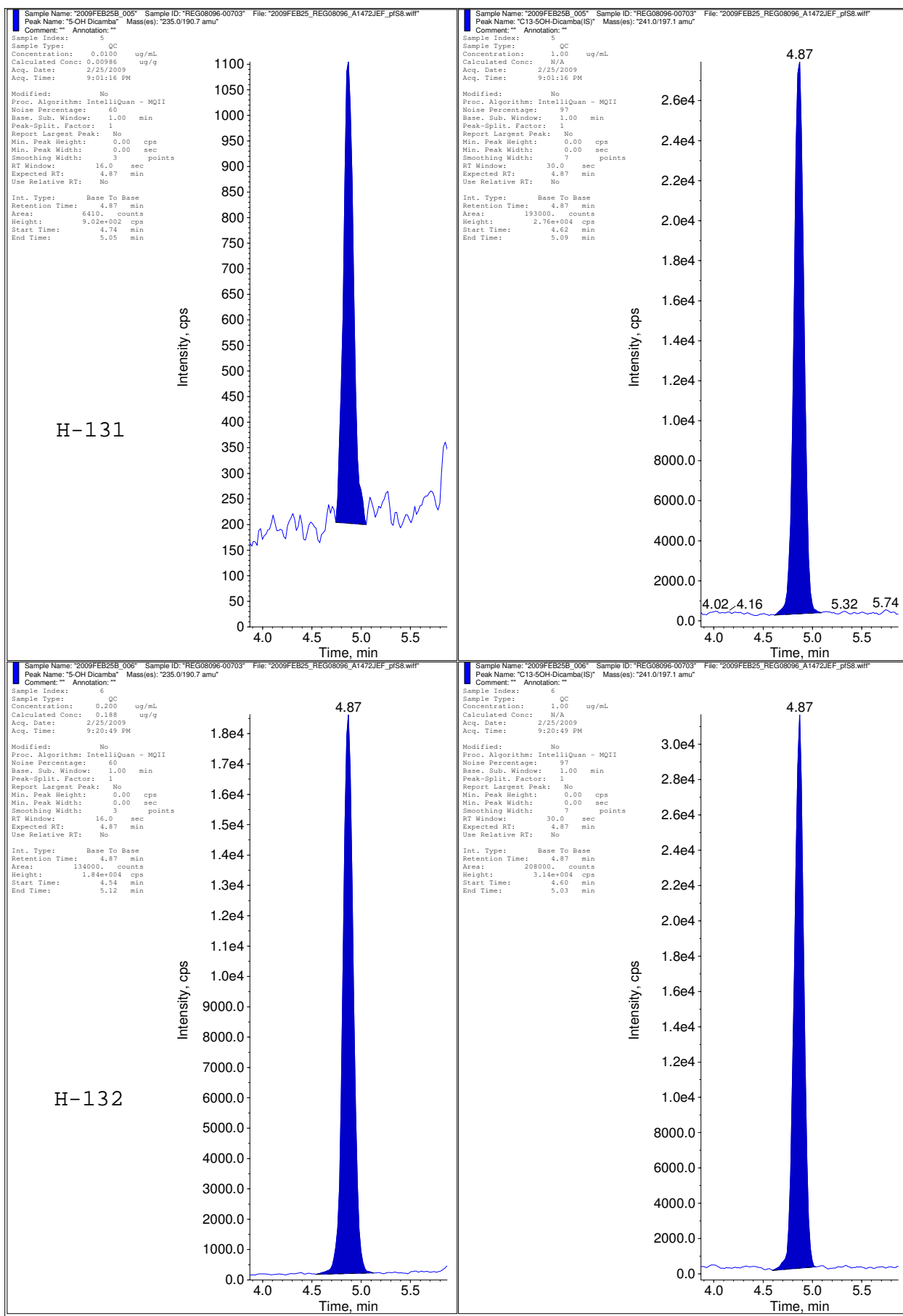












**Appendix 11. Summary of Changes in the Amending of MSL0021313 to Produce
Amended Report MSL0022660**

Changes to REG-08-096 study report

General changes:

- The numbering of the appendices was changed to Arabic numbers rather than letters.
- Results of analyses of samples from Treatments 2, 3 and 7, and the sites from Treatment 5 not part of decline and bridging sampling, were removed from the report by protocol amendment. This included removal of their listing in summary tables, removal of the detailed tables in the report, and removal of sample chromatograms from these treatments.
- As a result of removal of the tables for the non-reported treatments, the table numbering changed.
- It had previously been thought that the residues had been corrected to be expressed as dicamba acid equivalents in the RIMS II data system, but it was discovered that the data system did not apply the correction factor. The annotations in the embedded tables and the numbered report tables were corrected to show that the residues of individual analytes were expressed as each analyte per se. The total residues in tables in the text and in the Tables portion of the report were corrected to be reported as the residues based on the US EPA Definition of the Residue per 40 CFR §180.227, which is the sum of DCSA, dicamba and 5-hydroxydicamba residues reported as dicamba acid equivalents. In order to do this, a conversion factor based on the ratio of the molecular weight (MW) of dicamba to the MW of the appropriate analytes was used, and the sum and conversion were performed using a single equation in Excel 2007.
- Miscellaneous changes in the text, including formatting, grammar, spacing and page numbering were made to accommodate the removal of the tables and discussion of treatments excluded from reporting by this protocol amendment.
- The LOQ and LOD values were reduced to three decimal places in the tables and text. For the determination of the residue values that were below the LOQ, the LOQ was first rounded to three decimals. Then, the Excel spreadsheet of the residues was set up to filter the residues to display the residue less than the LOQ for each analyte in each matrix. Those residues below the LOQ were then adjusted to be displayed and reported as the <LOQ value, as described below in the Tables and Figures Section.

Changes itemized by section:

QA Statement: The QA statement was updated to include review of the amended report.

Abbreviations and Acronyms: Three abbreviations (RSD, SAS, Trt. No.) were added to the Abbreviations and Acronyms list, and “3rd generation” was added to the definition of the abbreviation for RIMS III.

Study Information Page: The report number was changed and the statement concerning the amending of the previous report was added. The day on which the amended report was signed was added. Mitchell L. Kurtzweil was added as providing support in report table preparation.

1. Summary

- Treatments 2, 3 and 7, and those sites at Treatment 5 not used for bridging or decline have been removed from the report by Protocol Amendment 8 because these sites are not consistent with the proposed label rate and timing. As a result, the following items were removed from the summary or changed:
 - Any references to the MON 11958 test substance used in Treatment 3, such as the description in the first paragraph of the summary, have been removed.

- The listings for Treatments 2, 3 and 7 have been removed from the table of the application rates and timing.
- The tables which summarized the seed, forage and hay residues have been modified to include only the residues from Treatments 4 and 6, and those sites from Treatment 5 bridging to Treatment 6. Any references to Treatments 2, 3 and 7 in the text have been removed.
- The table on p. 18 of MSL0021313 summarizing bridging data has been removed because this data is contained in the summary tables for seed, forage and hay.
- A paragraph prior to the summary tables for forage was removed as the discussion about the difference in PHI for forage from Treatments 2 and 3 vs. other treatments is not needed, as these treatments have been removed from the study by protocol amendment.
- Tables 1 to 11 have been corrected to state that the individual analytes are reported as the concentration of each analyte, but the total residues are reported as dicamba acid equivalents. In the tables, and in references to totals in the text, the total residues have been corrected to be expressed as dicamba acid equivalents by adding a correction factor for each analyte (except dicamba) to the summation equation. Residues below the LOQ have been changed to show that they are below the LOQ. See the explanation below under “Tables and Figures”.
- The text and footnotes used to describe MON 54140 have been changed to provide more accurate information.
- The table of processing concentration factors and the associated text was removed and a new table based on concentration of DCSA or DCGA residues only was inserted. The residues of dicamba and 5-hydroxydicamba in processed fractions has been removed from the tables because the residues of these analytes in the seed from Treatment 4, the cleaned seed from Treatment 8 and all the processed fractions were below the lower limit of method validation.

2. Introduction/Background

A sentence mentioning the pre-harvest application (Treatment 7) was removed.

3. Purpose

The first paragraph was modified to eliminate the mention of the discontinued treatments and to modify the statement regarding the bridging sites.

4. Materials

The information relating to Test Substance 3 was eliminated in Sections 4.1.3 and 4.3.

5. Methods

- Section 5.1.1 was modified to eliminate mention of MON 11958 and to remove any references to Treatments 2, 3 and 7.
- The table in Section 5.2.1 was modified to eliminate information on Treatments 2, 3 and 7.
- Minor changes to the text in sections 5.4.2, 5.4.3, 5.4.4 and 5.4.5 were made to improve the clarity and to more precisely express the details associated with these activities. Included in the changes is rounding of the recovery data to three significant figures.
- A brief discussion of the results of the radiovalidation was added to Section 5.4.1 and the reference to this report was added to this section.

6. Calculations

This section was modified to correct errors in the units in the sample equations, to add a discussion of the calculations to express the total residues as dicamba acid equivalents, and to

clarify some portions of the text to improve accuracy and readability. Additionally, the samples used in the example calculations were replaced by samples for which sample chromatograms are provided in Appendix 10. Expanded calculation data were added to be consistent with the revised calculations in Amendment 2 to the analytical method.

7. References

The reference to the method validation report was added, and the reference to the metabolism report was updated to show that the new report number and date resulting from amendment of that report.

Tables and Figures (Table numbers refer to the tables in the amended report MSL0022660)

General Comments: It had previously been thought that the residues had been corrected to be expressed as dicamba acid equivalents in the RIMS II data system, but it was discovered that the data system did not apply the correction factor. The annotations in the embedded tables and the numbered report tables were corrected to show that the residues of individual analytes were expressed as each analyte per se. The total residues in tables in the text and in the Tables portion of the report were corrected to be reported as the residues based on the US EPA Definition of the Residue per 40 CFR §180.227, which is the sum of DCSA, dicamba and 5-hydroxydicamba residues reported as dicamba acid equivalents. In order to do this, a conversion factor based on the ratio of the molecular weight (MW) of dicamba to the MW of the appropriate analytes was used, and the sum and conversion were performed using a single equation in Excel 2007.

Tables 12 to 22: The residue data for the control matrices from the seed and processed fractions and the residue data for dicamba and 5-hydroxydicamba were removed from the report tables to provide better more concise data in the tables. All the residue analyses results from the control processed fractions and for dicamba and 5-hydroxydicamba from cleaned seed and processed fractions were below the LLMV, and there was little value in presenting this information. The data are available in Appendix 9, raw data tables for Treatments 1 and 8 from Processed Fractions.

Table 24: The number of fortified samples for dicamba in seed at 5.0 ppm was corrected from 5 to 2 after checking the raw data. This was a typographical error.

Table 26: The typographical error in the number of fortified samples for 6-hydroxydicamba at 0.4 ppm was corrected to 1.

Tables 24 to 27: The footer was corrected to state that the ppm levels were based on the concentration of the analyte per se.

Figure 1: Figure 1 was replaced because the numbering in the name of DCGA was incorrect. The name was changed from 2,5-gentisic acid (incorrect) to 3,6-gentisic acid. The structure was correct, and the error was a result of misunderstanding the change in the atom numbers if one uses gentisic acid as the basis for the name, as opposed to benzoic acid.

General Changes

- In those instances in which a residue was below the statistically determined LOQ, the LOQ was used rather than the residue reported by the data system. Therefore, in the tables and in any calculations of the total residue, a residue below the LOQ appears as <0.nnn where 0.nnn is the LOQ for that analyte in that matrix. For example, if a residue

of dicamba in forage was originally reported in RIMS III as 0.011, that residue appears in the tables as <0.021 where 0.021 is the LOQ for dicamba in forage. When the residues are summed, the LOQ was used as the residue. An example is given below for the forage residue for IA-1 (Sample REG08096-00278)

Total Residue (dicamba acid equiv.) = 1.068(DCSA ppm) + (dicamba ppm) + 0.933(5 – OH ppm)

Total Residue (dicamba acid equiv.) = 1.068(13.2 ppm) + (< 0.021 ppm) + 0.933(< 0.005 ppm)

14.1 ppm (dicamba acid equiv.) = (14.0976) + (0.021 ppm) + (0.0047 ppm)

- The total residues based on the EPA Definition of the Residues (DoR) were substituted for the total residues in all the tables and in Figures 2 and 3 showing the decline of residues.

Changes to the Appendices

1. Protocol Amendment 8 was added to Appendix 1.
2. Amendments to the method were added to Appendix 4.
3. The raw data appendix, formerly designated as Appendix G, was reorganized into three sections. Raw data from Treatments 1 and 4 are contained in Appendix 7. Raw data from Treatments 1 and 6 and the bridging and decline sites of Treatment 5 were provided in Appendix 8. Raw data from Treatments 1 and 8 for the cleaned seed and processed fractions were provided in Appendix 9. This reorganization was necessary in order to exclude reporting those sites from Treatment 5 not part of the bridging or decline sites that were excluded from the study by Protocol Amendment 8.
4. Appendix 8 Sample Chromatograms is renumbered to Appendix 10. Some of the sample chromatograms have been replaced because the units in the Analyst data were incorrect. Sample chromatograms from excluded treatments have been replaced by sample chromatograms from Treatments reported in this study report. The list providing a key to the chromatograms was updated with the new numbers for the processed fraction sample chromatograms and the numbers for the newly inserted chromatograms.
5. Appendix 11 was added to provide a list of changes to the report.

**Appendix 12. Summary of Changes in the Amending of MSL0022660 to Produce
Amended Report MSL0023061**

Changes to REG-08-096 study report

Title Page: The study completion date, amended report number and total number of pages were modified, and the previous report number was added parenthetically, to reflect the report amendment.

Compliance Statement: A new compliance statement was provided.

Quality Assurance Statement: The quality assurance statement was updated to include review of the amended report.

Certification of Authenticity: A new certification statement was provided.

Table of Contents: Missing entry “Table of Appendices” was added to the Table of Contents.

Table of Appendices: An entry for Appendix 12 was added to the Table of Appendices and page numbers were updated to reflect the additional pages added to Appendices 1 and 7.

Study Information Page: The study information page was modified to reflect the amended report number, change in study director and new study completion date.

Section 5.4.6, 4th paragraph (pg 34): The reason for re-analysis of select forage samples was clarified by changing “verify earlier results” to “resolve discrepancies between field replicates”.

Section 5.5, 4th paragraph (pg 34): Information regarding 3-day storage stability of final sample extracts was corrected by changing “within the study” to “in the method validation (Foster, Mierkowski and Miller, 2010)”.

Section 5.5, 5th paragraph (pg 34): The storage interval for forage samples was corrected from “119 to 287 days” to “119 to 292 days”.

Section 5.5, 5th paragraph (pg 35): The reason for re-analysis of select forage samples was clarified by changing “verify earlier results” to “resolve discrepancies between field replicates”. The storage interval for the re-analyzed samples was clarified by changing “400 days” to “a maximum of 400 days”.

Section 5.5.2, 2nd paragraph (pg 35): The text “(Foster, Mierkowski and Miller, 2010)” was added to supply information regarding the location of stability information for reference standard stock solutions, calibration standard solutions and final sample extracts.

Section 6, 1st paragraph (pg 39): Information describing protocol amendment #9 and a reference to this appendix (Appendix 12) were added.

Appendix 1: Protocol amendment #9, which re-opened the study for this report amendment, was added to Appendix 1.

Appendix 7: Missing raw data tables (22 pages) for the 5-hydroxydicamba analyte in forage (Treatments 1 and 4) were added to Appendix 7.

Appendix 10: A typographical error in the label for chromatogram D-95 (pg 1002) was corrected by changing “9-95” to “D-95”.

Appendix 12: Appendix 12 was added to provide a list of changes in the amended report.

The report number and page numbering in the report page header were modified to reflect the amendment. Pages added or changed in this report amendment (excepting header changes) are identified with “Amendment 2” in the page footer.