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OF PARAMETERS ORDERED BY:
2-16-11

OLIN CORPORATION
WILMINGTON
WIL-4
SC5042, SC5104, SC5141

KATAHDIN ANALYTICAL SERVICES, INC.
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
OLIN CORPORATION
WILMINGTON
WIL-4
SC5042, SC5104, SC5141

Sample Receipt

The following samples were received on August 27, 29 and September 2, 2009 and were logged in under Katahdin Analytical Services work order number SC5042, SC5104, and SC 5141 for a hardcopy due date of September 22, 2009.

KATAHDIN Sample No.	OLIN CORPORATION Sample Identification
SC5042-1	OC-SB-403-0.0/1.0-X
SC5042-2	OC-SB-403-6.0/8.0-X
SC5042-3	OC-SB-404-5.0/7.0-X
SC5042-4	OC-SB-409-0.0/1.0-X
SC5042-5	OC-SB-409-6.0/8.0-X
SC5042-6	OC-SB-411-0.0/1.0-X
SC5042-7	OC-SB-411-4.7/6.7-X
SC5104-1	OC-SB-410-0.0/1.0-X
SC5104-2	OC-SB-410-6.0/8.0-D
SC5104-3	OC-SB-410-6.0/8.0-X
SC5104-4	OC-SB-444-0.0/1.0-X
SC5104-5	OC-SB-444-5.0/7.0-X
SC5104-6	OC-SB-449-0.0/1.0-X
SC5104-7	OC-SB-451-0.0/1.0-X
SC5104-8	OC-SB-451-2.5/4.5-D
SC5104-9	OC-SB-451-2.5/4.5-X
SC5104-10	OC-EBK-005
SC5141-1	OC-SB-442-0.0/1.0-X
SC5141-2	OC-SB-442-8.0/10-DU
SC5141-3	OC-SB-442-8.0/10-XX

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.
Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG WIL-4 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846 , 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis. Samples SC5104-3, SC5104-9 and SC5141-3 were used for the matrix spike (MS) and matrix spike duplicate (MSD), as per client request. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with an "M" (software-generated) on the pertinent quantitation reports.

8033M DMF Analysis

The sample with the client ID OC-SB-410-6.0/8.0-X (laboratory ID SC5104-3) exceeds the 19-character limit of the Katahdin Analytical Services' organics forms processing system when appended with the MSD designation. Therefore, the first three characters ("OC-") in the client ID for this sample were omitted on all forms for the sample, MS, and MSD analyses.

The sample with the client ID OC-SB-451-2.5/4.5-X (laboratory ID SC5104-9) exceeds the 19-character limit of the Katahdin Analytical Services' organics forms processing system when appended with the MSD designation. Therefore, the first three characters ("OC-") in the client ID for this sample were omitted on all forms for the sample, MS, and MSD analyses.

The sample with the client ID OC-SB-442-8.0/10-XX (laboratory ID SC5141-3) exceeds the 19-character limit of the Katahdin Analytical Services' organics forms processing system when appended with the MSD designation. Therefore, the first three characters ("OC-") in the client ID for this sample were omitted on all forms for the sample, MS, and MSD analyses.

Sample SC5104-10 could not be analyzed within hold time due to instrumentation issues. The solenoid valve needed to be replaced. The client was contacted and informed the laboratory to analyze the sample out of hold time and narrate. The sample was analyzed five days out of hold time.

Samples SC5042-1, 2, 3, 4, 7, SC5104-1, 4, 5, 6, 7, 8, 9, 10, and SC4141-2 were manually integrated for the surrogate diethylformamide (DEF). The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

Samples SC5141-2, 3 and the MS/MSD's WG68398-4, 5, 6, 7, 8 and 9 had high recoveries for the surrogate diethylformamide, which were outside of the laboratory established acceptance limits.

The closing calibration verification (CV) (file BCI4178) had high responses for dimethylformamide and the surrogate diethylformamide, which resulted in %D's that were outside of the laboratory acceptance limits of 25%. Since a high response would indicate a high bias and DMF was not detected above the MDL in the method blank and associated three samples, the samples were not reanalyzed. The recoveries of DMF may be biased high in the associated LCS/LCSD and MS/MSD's. The associated samples SC5141-2, 3 and the MS/MSD's WG68398-4, 5, 6, 7, 8 and 9 had high recoveries for the surrogate DEF, which were outside of the laboratory established acceptance limits.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Wet Chemistry Analysis

The samples of SDG WIL-4 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Annual Book of ASTM Standards", Method D2216-98 "Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass".

All analyses were performed within analytical holding times, and all quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
09.29.09

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client: MacTec / Olin	KAS PM: AJC	Sampled By: Client
Project:	KIMS Entry By: DD	Delivered By: KAS
KAS Work Order#: SC5041 / SC5042 / SC5047	KIMS Review By: hc	Received By: DD
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 8/27/09 0935

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 1.9
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

000006

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client: Mactec	KAS PM: AJC	Sampled By: Client
Project:	KIMS Entry By: DD	Delivered By: Client
KAS Work Order#: SC5104/SC5105/SC5106	KIMS Review By: MC	Received By: KM
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 8-29-09 0800

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 19
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol,				✓	
TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client:	Mac Tec / olin	KAS PM:	AJC	Sampled By:	Client
Project:		KIMS Entry By:	DD	Delivered By:	Fed Ex
KAS Work Order#:	SC5141 / SC5142	KIMS Review By:	MC	Received By:	DD
SDG #:	SC5143	Cooler: 1 of 1		Date/Time Rec.:	9-2-09 0955

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 2.3
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Olin Wilmington OU1 Soil Sampling Categories

There will be three categories of samples submitted to the laboratories during the soil sampling program based primarily on the depth of soil locations. These categories will be indentified in notes provided with the chain of custody submitted with samples. The following categories are included:

Category 1

Soil boring samples 0'-1': request that all samples are analyzed and reported in the normal project turnaround time (TAT).

Category 2

Soil boring samples from the 1'-10' interval: All samples are analyzed. Rush TAT is requested on a subset of analyses as indicated below:

VOCs: rush 7-day TAT
SVOCs: NDMA, and phthalic anhydride: normal 30-day TAT
DMF: normal 21-day TAT
Hydrazine: rush 7 day TAT
Metals: normal 30-day TAT (except mercury)
Mercury: 10 day TAT
Hexavalent Chromium: 10 day TAT
Formaldehyde/acetaldehyde: normal TAT
Anions: normal TAT
Ammonia: normal TAT

Category 3

Soil boring samples from >10 ft: Sample are held with analysis pending. For a subset of analyses the samples will be extracted and held by the lab pending instructions from MACTEC-Olin.

VOCs: hold pending results of Category 2
SVOCs: extract and hold pending results of Category 2
NDMA: extract and hold pending results of Category 2
DMF: extract and hold pending results of Category 2
Hydrazine: hold pending results of Category 2
Metals: hold pending results of Category 2
Mercury: hold pending results of Category 2
Hexavalent Chromium: hold pending results of Category 2
Phthalic anhydride: extract and hold pending results of Category 2
Formaldehyde/acetaldehyde: run normal TAT
Anions: run normal TAT
Ammonia: run normal TAT

For rush TAT samples the laboratory will provide preliminary results with a narrative and sample results summary report. The lab will also provide data on a preliminary data EDD. Final result and supporting data packages will be provided in the normal TAT for the project.

SC5041 / SC5042 | SC5047 Katahdin - Soil

Client: Olin Corporation	Client Project #: 6107090016	INVOICE INFO	Shaded Areas for office use only
Address: 3855 North Ocoee St. Suite 200	Work Site ID: Wilmington, MA	Company Name: Olin Corp	
Cleveland, TN 37312	Reports Sent To: Steve Morrow	Company Contact: ERG Accounts Payable	
Phone: 423-336-4511 Fax: 423-336-1466	Email SGMorrow@olin.com Email Rpt:____	Address: Same as Client	
Requested Turnaround Time (SPECIFY)	Regulatory Programs: MADEP MCP____ Superfund _____	Phone:	Email
Standard_____ Rush_____ (Lab Approval Required)	Report Requirements Level IV Package ____ Level II Package _____		
	EDD Requirements: MACTEC EQUIS EZ EDD _____	Job # _____	Quote # _____
		Lab SDG #_____	PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)														Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							- G	- P	- G	- V	- V	- V	-	-	-	-	-	-	-	-	-	-	-	-	-	- AG	Zn AV	-	-	<--Preservative Type (4) <--Bottle Type (5)
OC-SB-402-0.0/1.0-XXX	8/26/2009 11:45:00	T	FS	SO	G	1			X																					Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] *Date:* 8/27/09 *Time:* 0930 *Received:* Amy Adams *Date:* 8/27/09 *Time:* 930

Relinquished: _____ *Date:* ___/___/___ *Time:* _____ *Received:* _____ *Date:* ___/___/___ *Time:* _____

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)														Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V														AG	AV			<--Bottle Type (5)
OC-SB-402-7.5/9.5-XXX	8/26/2009 12:00:00	T	FS	SO	G	1			X																					Category 2
OC-SB-407-0.0/1.0-XXX	8/26/2009 10:10:00	T	FS	SO	G	1			X																					Category 1
OC-SB-407-26/28-XXX	8/26/2009 11:25:00	T	FS	SO	G	1			X																					Category 3
OC-SB-407-8.0/10-XXX	8/26/2009 10:20:00	T	FS	SO	G	1			X																					Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] *Date:* 8/27/09 *Time:* 0930 *Received:* amyldamo *Date:* 8/27/09 *Time:* 930

Relinquished: _____ *Date:* ___/___/___ *Time:* _____ *Received:* _____ *Date:* ___/___/___ *Time:* _____

Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	____

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

INVOICE INFO	Shaded Areas for office use only
Company Name: Olin Corp	
Company Contact: ERG Accounts Payable	
Address: Same as Client	
Phone: Email	
Job # _____	Quote # _____
Lab SDG #_____	PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	AV	<--Preservative Type (4) <--Bottle Type (5)
OC-SB-403-0.0/1.0-XXX	8/26/2009 1:25:00 PM	T	FS	SO	G	1			X						Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Relinquished: [signature] Date: 8/27/09 Time: 0930 Received: [signature] Date: 8/27/09 Time: 930

Relinquished: _____ Date: ___/___/___ Time: _____ Received: _____ Date: ___/___/___ Time: _____

00001

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-403-13/15-XXX	8/26/2009 1:40:00 PM	T	FS	SO	G	1			X																				Category 3
OC-SB-403-6.0/8.0-XXX	8/26/2009 1:30:00 PM	T	FS	SO	G	1			X																				Category 2
OC-SB-404-13/15-XXX	8/26/2009 3:40:00 PM	T	FS	SO	G	1			X																				Category 3
OC-SB-404-5.0/7.0-XXX	8/26/2009 3:20:00 PM	T	FS	SO	G	1			X																				Category 2
OC-SB-409-0.0/1.0-XXX	8/26/2009 4:50:00 PM	T	FS	SO	G	1			X																				Category 1
OC-SB-409-15/17-XXX	8/26/2009 5:15:00 PM	T	FS	SO	G	1			X																				Category 3
OC-SB-409-6.0/8.0-XXX	8/26/2009 5:05:00 PM	T	FS	SO	G	1			X																				Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Relinquished: [signature] **Date:** 8/27/09 **Time:** 0930 **Received:** Amy Adam **Date:** 8/27/09 **Time:** 930

Relinquished: _____ **Date:** ___/___/___ **Time:** _____ **Received:** _____ **Date:** ___/___/___ **Time:** _____

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-411-0.0/1.0-XXX	8/26/2009 10:20:00	T	FS	SO	G	1			X																				Category 1
OC-SB-411-4.7/6.7-XXX	8/26/2009 10:35:00	T	FS	SO	G	1			X																				Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Relinquished: [signature] **Date:** 8/27/09 **Time:** 0930 **Received:** Amy Adams **Date:** 8/27/09 **Time:** 930

Relinquished: _____ **Date:** __/__/__ **Time:** _____ **Received:** _____ **Date:** __/__/__ **Time:** _____

Samples dropped off to Lab on

SC5104
SC5105
SC5106

Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email
Job #	Quote #
Lab SDG #	PO #

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	AV	<--Preservative Type (4) <--Bottle Type (5)
OC-SB-410-0.0/1.0-XXX	8/27/2009 10:10:00	T	FS	SO	G	1			X						Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Relinquished: [signature] Date: 8/29/09 Time: 0800 Received: [signature] Date: 8/29/09 Time:_

Relinquished:_____ Date: ___/___/___ Time:_____ Received:_____ Date: ___/___/___ Time:_

000015

Katahdin-Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-410-17/19-XXX	8/27/2009 11:15:00	T	FS	SO	G	1			X																				Category 3
OC-SB-410-6.0/8.0-DUP	8/27/2009 10:15:00	T	FD	SO	G	1			X																				Category 2 Field Dup
OC-SB-410-6.0/8.0-MSD	8/27/2009 10:15:00	T	MSD	SO	G	1			X																				Category 2 Same Jar as MS
OC-SB-410-6.0/8.0-XMS	8/27/2009 10:15:00	T	MS	SO	G	1			X																				Category 2 Matrix Spike
OC-SB-410-6.0/8.0-XXX	8/27/2009 10:15:00	T	FS	SO	G	1			X																				Category 2
OC-SB-444-0.0/1.0-XXX	8/27/2009 1:20:00 PM	T	FS	SO	G	1			X																				Category 1
OC-SB-444-12/14-XXX	8/27/2009 2:00:00 PM	T	FS	SO	G	1			X																				Category 3

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
	Temp @ receipt: _____ Deg C
	Preservation / pH checked? Y / N
	By: _____ Date: _____

Relinquished: [signature] **Date:** 8/29/09 **Time:** 0800 **Received:** [signature] **Date:** 8/29/09 **Time:** _

Relinquished: _____ **Date:** ___/___/___ **Time:** _____ **Received:** _____ **Date:** ___/___/___ **Time:** _

000016

Katahdin-Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-444-5.0/7.0-XXX	8/27/2009 1:30:00 PM	T	FS	SO	G	1			X																				Category 2
OC-SB-449-0.0/1.0-XXX	8/27/2009 3:15:00 PM	T	FS	SO	G	1			X																				Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Relinquished: [signature] **Date:** 8/27/09 **Time:** 0800 **Received:** [signature] **Date:** 8/28/09 **Time:** _

Relinquished: _____ **Date:** ___/___/___ **Time:** _____ **Received:** _____ **Date:** ___/___/___ **Time:** _

000017

Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email
Job # _____	Quote # _____
Lab SDG #_____	PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	Zn AV	<--Preservative Type (4) <--Bottle Type (5)
OC-SB-451-0.0/1.0-XXX	8/28/2009 11:20:00	T	FS	SO	G	1			X						Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] Date: 8/29/09 Time: 0800 Received: [signature] Date: 8/29/09 Time: _

Relinquished: _____ Date: ___/___/___ Time: _____ Received: _____ Date: ___/___/___ Time: _

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-451-18/20-XXX	8/28/2009 12:50:00	T	FS	SO	G	1			X																				Category 3
OC-SB-451-2.5/4.5-DUP	8/28/2009 11:40:00	T	FD	SO	G	1			X																				Category 2
OC-SB-451-2.5/4.5-MSD	8/28/2009 11:40:00	T	MS	SO	G	1			X																				Category 2 Same Container as MS
OC-SB-451-2.5/4.5-XMS	8/28/2009 11:40:00	T	MS	SO	G	1			X																				Category 2
OC-SB-451-2.5/4.5-XXX	8/28/2009 11:40:00	T	FS	SO	G	1			X																				Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
	Temp @ receipt: _____ Deg C Preservation / pH checked? Y / N By: _____ Date: _____

Relinquished: [signature] **Date:** 8/29/09 **Time:** 0800 **Received:** [signature] **Date:** 8/29/09 **Time:** _

Relinquished: _____ **Date:** ___/___/___ **Time:** _____ **Received:** _____ **Date:** ___/___/___ **Time:** _

Katahdin - Water

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax: 423-336-1466	Email SGMorrow@olin.com Email Rpt:____

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

INVOICE INFO	Shaded Areas for office use only
Company Name: Olin Corp	
Company Contact: ERG Accounts Payable	
Address: Same as Client	
Phone: Email	
Job # _____	Quote # _____
Lab SDG #_____	PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	Zn AV	<--Preservative Type (4) <--Bottle Type (5)
OC-EBK-005	8/27/2009 8:00:00 AM	T	EB	BW	G	2				X					Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Relinquished: [signature] **Date:** 8 / 29 / 09 **Time:** 0800 **Received:** [signature] **Date:** 8 / 29 / 09 **Time:**_

Relinquished:_____ **Date:** ___/___/____ **Time:**_____ **Received:**_____ **Date:** ___/___/____ **Time:**_

Shipped on 9/1/09 Tuesday

SC5141
SC5142
SC5143

Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

Job # _____ Quote # _____

Lab SDG #_____ PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	AV	<--Preservative Type (4) / <--Bottle Type (5)
OC-SB-442-0.0/1.0-XXX	8/31/2009 12:00:00	T	FS	SO	G	1			X						Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N | MADEP Requirement Samples Iced? Y / N

Relinquished: [signature] Date: 09 / 01 / 09 Time: 1800 Received: [signature] Date: 9 / 2 / 09 Time: 0955

Relinquished: _____ Date: ___/___/___ Time: _____ Received: _____ Date: ___/___/___ Time: _____

Temp @ receipt: _____ Deg C

Preservation / pH checked? Y / N

By: _____ Date: _____

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)														Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V														AG	AV			<--Bottle Type (5)
OC-SB-442-20/22-XXX	8/31/2009 1:20:00 PM	T	FS	SO	G	1			X																					Category 3
OC-SB-442-8.0/10-DUP	8/31/2009 12:10:00	T	FD	SO	G	1			X																					Category 2
OC-SB-442-8.0/10-MSD	8/31/2009 12:10:00	T	MS	SO	G	1			X																					Category 2
OC-SB-442-8.0/10-XMS	8/31/2009 12:10:00	T	MS	SO	G	1			X																					Category 2
OC-SB-442-8.0/10-XXX	8/31/2009 12:10:00	T	FS	SO	G	1			X																					Category 2
OC-SB-452-0.0/1.0-XXX	8/31/2009 10:30:00	T	FS	SO	G	1			X																					Category 1
OC-SB-452-13/15-XXX	8/31/2009 11:00:00	T	FS	SO	G	1			X																					Category 3

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Relinquished: [signature] Date: 09/01/09 Time: 1800 Received: [signature] Date: 9/2/09 Time: 0955

Relinquished: _____ Date: __/__/__ Time: ____ Received: _____ Date: __/__/__ Time: ____

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

000002

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-452-5.0/7.0-XXX	8/31/2009 10:45:00	T	FS	SO	G	1			X																				Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
	Temp @ receipt: _____ Deg C
	Preservation / pH checked? Y / N
	By: _____ Date: _____

Relinquished: [signature] *Date:* 09/01/09 *Time:* 1800 *Received:* [signature] *Date:* 9/2/09 *Time:* 0955

Relinquished: _____ *Date:* ___/___/___ *Time:* _____ *Received:* _____ *Date:* ___/___/___ *Time:* _____

Katahdin - Soil

Client: Olin Corporation
Address: 3855 North Ocoee St. Suite 200
Cleveland, TN 37312
Phone: 423-336-4511 Fax: 423-336-1466 Email SGMorrow@olin.com Email Rpt:____

Client Project #: 6107090016
Work Site ID: Wilmington, MA
Reports Sent To: Steve Morrow

INVOICE INFO | Shaded Areas for office use only
Company Name: Olin Corp
Company Contact: ERG Accounts Payable
Address: Same as Client
Phone: Email

Requested Turnaround Time (SPECIFY)
Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____
Report Requirements Level IV Package ____ Level II Package _____
EDD Requirements: MACTEC EQUIS EZ EDD _____

Job # _____ Quote # _____
Lab SDG #_____ PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-458-0.0/1.0-XXX	8/31/2009 3:30:00 PM	T	FS	SO	G	1			X																				Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N | MADEP Requirement Samples Iced? Y / N

Relinquished: [signature] Date: 09/01/09 Time: 1800 Received: [signature] Date: 9/2/09 Time: 0955

Relinquished: _____ Date: __/__/__ Time: _____ Received: _____ Date: __/__/__ Time: _____

Temp @ receipt: _____ Deg C
Preservation / pH checked? Y / N
By: _____ Date: _____

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-460-0.0/1.0-XXX	9/1/2009 8:40:00 AM	T	FS	SO	G	1			X																				Category 1
OC-SB-460-30/32-XXX	9/1/2009 10:40:00	T	FS	SO	G	1			X																				Category 3
OC-SB-460-5.5/7.5-XXX	9/1/2009 8:50:00 AM	T	FS	SO	G	1			X																				Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] **Date:** 09/01/09 **Time:** 1800 **Received:** [signature] **Date:** 9/2/09 **Time:** 0955

Relinquished: _____ **Date:** __/__/__ **Time:** _____ **Received:** _____ **Date:** __/__/__ **Time:** _____

0000025

Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email

Requested Turnaround Time (SPECIFY)		Regulatory Programs: MADEP MCP____ Superfund _____	
Standard_____	Rush_____ (Lab Approval Required)	Report Requirements Level IV Package ____ Level II Package _____	
		EDD Requirements: MACTEC EQUIS EZ EDD _____	Job # _____ Quote # _____
			Lab SDG #_____ PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							-	-	-	-	-	-	-	Zn	<--Preservative Type (4)
							G	P	G	V	V	V	AG	AV	<--Bottle Type (5)
OC-SB-464-0.0/1.0-XXX	9/1/2009 3:50:00 PM	T	FS	SO	G	1			X						Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] *Date:* 9 / 1 / 09 *Time:* 1800 *Received:* [signature] *Date:* 9 / 2 / 09 *Time:* 0955

Relinquished: _____ *Date:* ___/___/___ *Time:* _____ *Received:* _____ *Date:* ___/___/___ *Time:* _____

0000026

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							G	P	G	V	V	V	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
																									AG	AV			<--Bottle Type (5)
OC-SB-464-26/28-XXX	9/1/2009 4:50:00 PM	T	FS	SO	G	1			X																				Category 2
OC-SB-464-5.0/7.0-XXX	9/1/2009 4:50:00 PM	T	FS	SO	G	1			X																				Category 3

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Relinquished: [signature] Date: 09/01/09 Time: 1800 Received: [signature] Date: 9/2/09 Time: 0955

Relinquished: _____ Date: __/__/__ Time: ____ Received: _____ Date: __/__/__ Time: ____

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

000027

Katahdin - Water

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax: 423-336-1466	Email SGMorrow@olin.com Email Rpt:____

INVOICE INFO	Shaded Areas for office use only
Company Name: Olin Corp	
Company Contact: ERG Accounts Payable	
Address: Same as Client	
Phone:	Email

Requested Turnaround Time (SPECIFY)		Regulatory Programs: MADEP MCP____ Superfund _____		
Standard_____	Rush_____ (Lab Approval Required)	Report Requirements Level IV Package ____ Level II Package _____		
		EDD Requirements: MACTEC EQUIS EZ EDD _____	Job # _____	Quote # _____
			Lab SDG #_____	PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							-	-	-	-	-	-	-	Zn	<--Preservative Type (4)
							G	P	G	V	V	V	AG	AV	<--Bottle Type (5)
OC-EBK-006	8/31/2009 2:15:00 PM	T	EB	BW	G	2				X					Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
	Temp @ receipt: _____Deg C
	Preservation / pH checked? Y / N
	By: _____ Date: _____

Relinquished: [signature] **Date:** 09/01/09 **Time:** 1800 **Received:** [signature] **Date:** 9/2/09 **Time:** 0955

Relinquished:_____ **Date:** ___/___/___ **Time:**_____ **Received:**_____ **Date:** ___/___/___ **Time:**_____

00028

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 27, 2009
10:35 AM

Login Number: SC5042

Account: OLINCO001 NoWeb
Olin Corporation

Project:

Primary Report Address:
Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS

Portland,ME 04112-7050
csricardi@mactec.com

Primary Invoice Address:
ERG
Olin Corporation
3855 North Ocoee St
Suite 200
Cleveland,TN 37312

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	
CHECK NO.	:	
CLIENT PO#	:	ERRE9844
COOLER TEMPERATURE	:	
DELIVERY SERVICES	:	Client
EDD FORMAT	:	KAS075-CSV
PM	:	AJC
PROJECT NAME	:	Wilmington
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send rpt & EDD on CD, no hc. Email SDS to csricardi@mactec.com. Email EDD to kjchatterton@mactec.com. Data summary needs all forms.
SDG ID	:	WIL-4
SDG STATUS	:	Begin

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5042-1	OC-SB-403-0.0/1.0-X	26-AUG-09 13:25	27-AUG-09			16-SEP-09	
SC5042-2	OC-SB-403-6.0/8.0-X	26-AUG-09 13:30	27-AUG-09			16-SEP-09	
SC5042-3	OC-SB-404-5.0/7.0-X	26-AUG-09 15:20	27-AUG-09			16-SEP-09	
SC5042-4	OC-SB-409-0.0/1.0-X	26-AUG-09 16:50	27-AUG-09			16-SEP-09	
SC5042-5	OC-SB-409-6.0/8.0-X	26-AUG-09 17:05	27-AUG-09			16-SEP-09	
SC5042-6	OC-SB-411-0.0/1.0-X	26-AUG-09 10:20	27-AUG-09			16-SEP-09	
SC5042-7	OC-SB-411-4.7/6.7-X	26-AUG-09 10:35	27-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	09-SEP-09	100g Glass	1	
Solid	S	TS	25-SEP-09			

0000029

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Aug. 27, 2009
10:35 AM

Login Number: SC5042

Account: OLINCO001 NoWeb
Olin Corporation

Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed

Total Samples: *7* ***Total Analyses:*** *14*

0000030

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 31, 2009
01:07 PM

Login Number: SC5104

Account: OLINCO001 NoWeb
Olin Corporation

Project:

Primary Report Address:
Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS

Portland,ME 04112-7050
csricardi@mactec.com

Primary Invoice Address:
ERG
Olin Corporation
3855 North Ocoee St
Suite 200
Cleveland,TN 37312

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	
CHECK NO.	:	
CLIENT PO#	:	ERRE9844
COOLER TEMPERATURE	:	1.9
DELIVERY SERVICES	:	Client
EDD FORMAT	:	KAS075-CSV
PM	:	AJC
PROJECT NAME	:	Wilmington
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send rpt & EDD on CD, no hc. Email SDS to csricardi@mactec.com. Email EDD to kjchatterton@mactec.com. Data summary needs all forms.
SDG ID	:	WIL-4
SDG STATUS	:	Cont.

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5104-1	OC-SB-410-0.0/1.0-X	27-AUG-09 10:10	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	10-SEP-09	100g Glass	1	
Solid	S	TS	26-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5104-2	OC-SB-410-6.0/8.0-D	27-AUG-09 10:15	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	10-SEP-09	100g Glass	1	
Solid	S	TS	26-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5104-3	OC-SB-410-6.0/8.0-X	27-AUG-09 10:15	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	10-SEP-09	100g Glass	3	**MS/MSD**
Solid	S	TS	26-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5104-4	OC-SB-444-0.0/1.0-X	27-AUG-09 13:20	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	10-SEP-09	100g Glass	1	
Solid	S	TS	26-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5104-5	OC-SB-444-5.0/7.0-X	27-AUG-09 13:30	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	10-SEP-09	100g Glass	1	
Solid	S	TS	26-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5104-6	OC-SB-449-0.0/1.0-X	27-AUG-09 15:15	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	10-SEP-09	100g Glass	1	
Solid	S	TS	26-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5104-7	OC-SB-451-0.0/1.0-X	28-AUG-09 11:20	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	11-SEP-09	100g Glass	1	
Solid	S	TS	27-SEP-09			

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 31, 2009
01:07 PM

Login Number: SC5104

Account: OLINCO001 NoWeb
Olin Corporation

Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5104-8	OC-SB-451-2.5/4.5-D	28-AUG-09 11:40	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	11-SEP-09	100g Glass	1	
Solid	S	TS	27-SEP-09			

SC5104-9	OC-SB-451-2.5/4.5-X	28-AUG-09 11:40	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	11-SEP-09	100g Glass	3	**MS/MSD**
Solid	S	TS	27-SEP-09			

SC5104-10	OC-EBK-005	27-AUG-09 08:00	29-AUG-09			17-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8033M	10-SEP-09	40mL Vial+HCl	2	

***Total Samples:* 10** ***Total Analyses:* 19**

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Sep. 02, 2009
01:16 PM

Login Number: SC5141

Account: OLINCO001 NoWeb
Olin Corporation

Project:

Primary Report Address:
Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS

Portland,ME 04112-7050
csricardi@mactec.com

Primary Invoice Address:
ERG
Olin Corporation
3855 North Ocoee St
Suite 200
Cleveland,TN 37312

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	
CHECK NO.	:	
CLIENT PO#	:	ERRE9844
COOLER TEMPERATURE	:	2.3
DELIVERY SERVICES	:	Fed Ex
EDD FORMAT	:	KAS075-CSV
PM	:	AJC
PROJECT NAME	:	Wilmington
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send rpt & EDD on CD, no hc. Email SDS to csricardi@mactec.com. Email EDD to kjchatterton@mactec.com. Data summary needs all forms. EDD sample ID needs to match the ID on the COC.
SDG ID	:	WIL-4
SDG STATUS	:	End

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5141-1	OC-SB-442-0.0/1.0-X	31-AUG-09 12:00	02-SEP-09			22-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	14-SEP-09	100g Glass	1	
Solid	S	TS	30-SEP-09			

SC5141-2	OC-SB-442-8.0/10-DU	31-AUG-09 12:10	02-SEP-09			22-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	14-SEP-09	100g Glass	1	
Solid	S	TS	30-SEP-09			

SC5141-3	OC-SB-442-8.0/10-XX	31-AUG-09 12:10	02-SEP-09			22-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	14-SEP-09	100g Glass	3	**MS/MSD**
Solid	S	TS	30-SEP-09			

Total Samples: *3* ***Total Analyses:*** *6*

0000033

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

MCL Maximum Contaminant Level

NL No limit

NFL No Free Liquid Present

FLP Free Liquid Present

NOD No Odor Detected

TON Threshold Odor Number

H1 Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H2 Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H3 Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H4 Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 15-SEP-2009 23:24
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 93.4

Lab ID: SC5042-1
Client ID: OC-SB-403-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.48	1.0	0.80	0.48	0.48
	diethylformamide		119%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 15-SEP-2009 23:39
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 46.6

Lab ID: SC5042-2
Client ID: OC-SB-403-6.0/8.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	1.4	1.0	0.80	1.4	1.4
	diethylformamide		114%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 15-SEP-2009 23:53
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 85.0

Lab ID: SC5042-3
Client ID: OC-SB-404-5.0/7.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.62	1.0	0.80	0.62	0.62
	diethylformamide		113%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 00:07
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 94.6

Lab ID: SC5042-4
Client ID: OC-SB-409-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.70	1.0	0.80	0.70	0.70
	diethylformamide		117%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 00:21
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 81.2

Lab ID: SC5042-5
Client ID: OC-SB-409-6.0/8.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.48	1.0	0.80	0.48	0.48
	diethylformamide		106%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 00:35
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 93.7

Lab ID: SC5042-6
Client ID: OC-SB-411-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.62	1.0	0.80	0.62	0.62
	diethylformamide		110%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 01:18
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 94.9

Lab ID: SC5042-7
Client ID: OC-SB-411-4.7/6.7-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.59	1.0	0.80	0.59	0.59
	diethylformamide		118%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 01:32
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 89.8

Lab ID: SC5104-1
Client ID: OC-SB-410-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.60	1.0	0.80	0.60	0.60
	diethylformamide		116%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 01:46
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 81.9

Lab ID: SC5104-2
Client ID: OC-SB-410-6.0/8.0-D
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.74	1.0	0.80	0.74	0.74
	diethylformamide		110%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:01
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 83.3

Lab ID: SC5104-3
Client ID: SB-410-6.0/8.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.57	1.0	0.80	0.57	0.57
	diethylformamide		113%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:15
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 95.4

Lab ID: SC5104-4
Client ID: OC-SB-444-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.66	1.0	0.80	0.66	0.66
	diethylformamide		122%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:29
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 87.6

Lab ID: SC5104-5
Client ID: OC-SB-444-5.0/7.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.65	1.0	0.80	0.65	0.65
	diethylformamide		120%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:43
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 92.4

Lab ID: SC5104-6
Client ID: OC-SB-449-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.68	1.0	0.80	0.68	0.68
	diethylformamide		119%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/28/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:58
Report Date: 09/23/2009
Matrix: SOIL
% Solids: 96.4

Lab ID: SC5104-7
Client ID: OC-SB-451-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.70	1.0	0.80	0.70	0.70
	diethylformamide		121%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/28/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 03:12
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 94.4

Lab ID: SC5104-8
Client ID: OC-SB-451-2.5/4.5-D
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.64	1.0	0.80	0.64	0.64
	diethylformamide		122%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/28/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 03:26
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 95.7

Lab ID: SC5104-9
Client ID: SB-451-2.5/4.5-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.45	1.0	0.80	0.45	0.45
	diethylformamide		123%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date:
Analysis Date: 15-SEP-2009 13:52
Report Date: 09/21/2009
Matrix: WATER
% Solids: NA

Lab ID: SC5104-10RA
Client ID: OC-EBK-005
SDG: WIL-4
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68660
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/31/09
Received Date: 09/02/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 11:37
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 87.3

Lab ID: SC5141-1
Client ID: OC-SB-442-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.50	1.0	0.80	0.50	0.50
	diethylformamide		136%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/31/09
Received Date: 09/02/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 11:51
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 93.6

Lab ID: SC5141-2
Client ID: OC-SB-442-8.0/10-DU
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.47	1.0	0.80	0.47	0.47
	diethylformamide		*139%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/31/09
Received Date: 09/02/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 12:05
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 87.8

Lab ID: SC5141-3
Client ID: SB-442-8.0/10-XX
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.58	1.0	0.80	0.58	0.58
	diethylformamide		*141%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 09/08/09
Analysis Date: 15-SEP-2009 22:13
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 100

Lab ID: WG68398-1
Client ID: WG68398-Blank
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.80	1.0	0.80	0.80	0.80
	diethylformamide		109%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 15-SEP-2009 12:42
Report Date: 09/21/2009
Matrix: WATER
% Solids: NA

Lab ID: WG68660-1
Client ID: WG68660-Blank
SDG: WIL-4
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68660
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		90%				

FORM 2
SOIL DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG68398-BLANK	WG68398-1	109				0
02	WG68398-LCS	WG68398-2	132				0
03	WG68398-LCSD	WG68398-3	129				0
04	OC-SB-403-0.0/1.0-X	SC5042-1	119				0
05	OC-SB-403-6.0/8.0-X	SC5042-2	114				0
06	OC-SB-404-5.0/7.0-X	SC5042-3	113				0
07	OC-SB-409-0.0/1.0-X	SC5042-4	117				0
08	OC-SB-409-6.0/8.0-X	SC5042-5	106				0
09	OC-SB-411-0.0/1.0-X	SC5042-6	110				0
10	OC-SB-411-4.7/6.7-X	SC5042-7	118				0
11	OC-SB-410-0.0/1.0-X	SC5104-1	116				0
12	OC-SB-410-6.0/8.0-D	SC5104-2	110				0
13	SB-410-6.0/8.0-X	SC5104-3	113				0
14	OC-SB-444-0.0/1.0-X	SC5104-4	122				0
15	OC-SB-444-5.0/7.0-X	SC5104-5	120				0
16	OC-SB-449-0.0/1.0-X	SC5104-6	119				0
17	OC-SB-451-0.0/1.0-X	SC5104-7	121				0
18	OC-SB-451-2.5/4.5-D	SC5104-8	122				0
19	SB-451-2.5/4.5-X	SC5104-9	123				0
20	OC-SB-442-0.0/1.0-X	SC5141-1	136				0
21	OC-SB-442-8.0/10-DU	SC5141-2	139*				1
22	SB-442-8.0/10-XX	SC5141-3	141*				1
23	SB-410-6.0/8.0-XMS	WG68398-4	152*				1
24	SB-410-6.0/8.0-XMSD	WG68398-5	153*				1
25	SB-451-2.5/4.5-XMS	WG68398-6	174*				1
26	SB-451-2.5/4.5-XMSD	WG68398-7	172*				1
27	SB-442-8.0/10-XXMS	WG68398-8	167*				1
28	SB-442-8.0/10-XXMSD	WG68398-9	169*				1

QC LIMITS
(61-137)

SMC1 = diethylformamide

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG68660-BLANK	WG68660-1	90				0
02	WG68660-LCS	WG68660-2	114				0
03	WG68660-LCSD	WG68660-3	116				0
04	OC-EBK-005	SC5104-10RA	100				0
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

QC LIMITS

SMC1 = diethylformamide (56-154)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Katahdin Analytical Services A0000027

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 09/08/09
Analysis Date: 09/15/09
Report Date: 09/21/2009
Matrix: SOIL

Lab ID: WG68398-2 & WG68398-3
Client ID: WG68398-LCS & WG68398-LCSD
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	10	10	NA	9.4	8.6	94	86	9	50	70-130

FORM III DMF-2

BCI4127.d & BCI4129.d

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/15/09
Report Date: 09/21/2009
Matrix: WATER

Lab ID: WG68660-2 & WG68660-3
Client ID: WG68660-LCS & WG68660-LCSD
SDG: WIL-4
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68660
Units: mg/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	0.10	0.10	NA	0.08	0.08	78	85	9	30	70-130

FORM III DMF-1

BCI4087.d & BCI4089.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 09/16/09
Report Date: 09/21/2009
Matrix: SOIL

Lab ID: WG68398-4 & WG68398-5
Client ID: SB-410-6.0/8.0-XMS & SB-410-6.0/8.0-XMSD
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	8.7	10	0.00	9.2	11	106	110	17	50	70-130

FORM III DMF-2

BCI4166.d & BCI4168.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/28/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 09/16/09
Report Date: 09/21/2009
Matrix: SOIL

Lab ID: WG68398-6 & WG68398-7
Client ID: SB-451-2.5/4.5-XMS & SB-451-2.5/4.5-XMSD
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	8.0	8.6	0.00	10	10	126	119	1.0	50	70-130

FORM III DMF-2

BCI4170.d & BCI4172.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/31/09
Received Date: 09/02/09
Extraction Date: 09/08/09
Analysis Date: 09/16/09
Report Date: 09/21/2009
Matrix: SOIL

Lab ID: WG68398-8 & WG68398-9
Client ID: SB-442-8.0/10-XXMS & SB-442-8.0/10-XXMSD
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	6.0	6.5	0.00	7.6	8.0	127	122	5	50	70-130

FORM III DMF-2

BCI4174.d & BCI4176.d

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG68398-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Lab File ID: BCI4126 Lab Sample ID: WG68398-1

Date Analyzed: 09/15/09 Time Analyzed: 2213

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG68398-LCS	WG68398-2	BCI4127	09/15/09	2227
02	WG68398-LCSD	WG68398-3	BCI4129	09/15/09	2256
03	OC-SB-403-0.0/1.0-X	SC5042-1	BCI4131	09/15/09	2324
04	OC-SB-403-6.0/8.0-X	SC5042-2	BCI4132	09/15/09	2339
05	OC-SB-404-5.0/7.0-X	SC5042-3	BCI4133	09/15/09	2353
06	OC-SB-409-0.0/1.0-X	SC5042-4	BCI4134	09/16/09	0007
07	OC-SB-409-6.0/8.0-X	SC5042-5	BCI4135	09/16/09	0021
08	OC-SB-411-0.0/1.0-X	SC5042-6	BCI4136	09/16/09	0035
09	OC-SB-411-4.7/6.7-X	SC5042-7	BCI4139	09/16/09	0118
10	OC-SB-410-0.0/1.0-X	SC5104-1	BCI4140	09/16/09	0132
11	OC-SB-410-6.0/8.0-D	SC5104-2	BCI4141	09/16/09	0146
12	SB-410-6.0/8.0-X	SC5104-3	BCI4142	09/16/09	0201
13	OC-SB-444-0.0/1.0-X	SC5104-4	BCI4143	09/16/09	0215
14	OC-SB-444-5.0/7.0-X	SC5104-5	BCI4144	09/16/09	0229
15	OC-SB-449-0.0/1.0-X	SC5104-6	BCI4145	09/16/09	0243
16	OC-SB-451-0.0/1.0-X	SC5104-7	BCI4146	09/16/09	0258
17	OC-SB-451-2.5/4.5-D	SC5104-8	BCI4147	09/16/09	0312
18	SB-451-2.5/4.5-X	SC5104-9	BCI4148	09/16/09	0326
19	OC-SB-442-0.0/1.0-X	SC5141-1	BCI4163	09/16/09	1137
20	OC-SB-442-8.0/10-DU	SC5141-2	BCI4164	09/16/09	1151
21	SB-442-8.0/10-XX	SC5141-3	BCI4165	09/16/09	1205
22	SB-410-6.0/8.0-XMS	WG68398-4	BCI4166	09/16/09	1219
23	SB-410-6.0/8.0-XMSD	WG68398-5	BCI4168	09/16/09	1248
24	SB-451-2.5/4.5-XMS	WG68398-6	BCI4170	09/16/09	1316
25	SB-451-2.5/4.5-XMSD	WG68398-7	BCI4172	09/16/09	1344
26	SB-442-8.0/10-XXMS	WG68398-8	BCI4174	09/16/09	1412
27	SB-442-8.0/10-XXMSD	WG68398-9	BCI4176	09/16/09	1440
28					
29					
30					

COMMENTS:

FORM IVDMF

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG68660-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Lab File ID: BCI4086 Lab Sample ID: WG68660-1

Date Analyzed: 09/15/09 Time Analyzed: 1242

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG68660-LCS	WG68660-2	BCI4087	09/15/09	1256
02	WG68660-LCSD	WG68660-3	BCI4089	09/15/09	1324
03	OC-EBK-005	SC5104-10RA	BCI4091	09/15/09	1352
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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30					

COMMENTS:

FORM IVDMF

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date(s): 09/15/09 09/15/09

Column: ZB-WAX ID: 0.53 (mm) Calibration Time(s): 0936 1143

LAB FILE ID: RF0.02: BCI4073 RF0.05: BCI4074 RF0.1: BCI4075
RF0.25: BCI4077 RF0.5: BCI4079 RF1: BCI4082

COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
dimethylformamide	921	1500	3764	12201	24415	55088	LINR	2.106e-002	1.811e-005	0.99669	0.99000
diethylformamide	13241	25644	58420	154630	276360		LINR	9.989e-002	1.448e-005	0.99576	0.99000

FORM VI DMF

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 1435

Lab File ID: BCI4094 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2084400	0.2500000	41392.000	0.01	-16.62	25.00	LINR
diethylformamide	2.4826000	2.5000000	65813.000	0.01	-0.70	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 2131

Lab File ID: BCI4123 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2403800	0.2500000	48448.000	0.01	-3.85	25.00	LINR
diethylformamide	2.4312000	2.5000000	64393.000	0.01	-2.75	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 0049

Lab File ID: BCI4137 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2405300	0.2500000	48480.000	0.01	-3.79	25.00	LINR
diethylformamide	2.5117000	2.5000000	66617.000	0.01	0.47	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 0340

Lab File ID: BCI4149 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2407500	0.2500000	48528.000	0.01	-3.70	25.00	LINR
diethylformamide	2.6390000	2.5000000	70133.000	0.01	5.56	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 1109

Lab File ID: BCI4161 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.3005000	0.2500000	61728.000	0.01	20.20	25.00	LINR
diethylformamide	3.0672000	2.5000000	81960.000	0.01	22.69	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 1508

Lab File ID: BCI4178 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
dimethylformamide	0.3251100	0.2500000	67164.000	0.01	30.04	25.00	LINR	<-
diethylformamide	3.6491000	2.5000000	98032.000	0.01	45.96	25.00	LINR	<-

FORM VII PEST

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		ICAL 0.02	09/15/09	0936	2.69	
02		ICAL 0.05	09/15/09	0950	2.69	
03		ICAL 0.1	09/15/09	1004	2.69	
04		ICAL 0.25	09/15/09	1032	2.68	
05		ICAL 0.5	09/15/09	1101	2.69	
06		ICAL 1.0	09/15/09	1143		
07	WG68660-BLAN	WG68660-1	09/15/09	1242	2.69	
08	WG68660-LCS	WG68660-2	09/15/09	1256	2.68	
09	WG68660-LCSD	WG68660-3	09/15/09	1324	2.68	
10	OC-EBK-005	SC5104-10RA	09/15/09	1352	2.68	
11		CV 0.25	09/15/09	1435	2.68	
12		CV 0.25	09/15/09	2131	2.68	
13	WG68398-BLAN	WG68398-1	09/15/09	2213	2.68	
14	WG68398-LCS	WG68398-2	09/15/09	2227	2.68	
15	WG68398-LCSD	WG68398-3	09/15/09	2256	2.68	
16	OC-SB-403-0.	SC5042-1	09/15/09	2324	2.68	
17	OC-SB-403-6.	SC5042-2	09/15/09	2339	2.68	
18	OC-SB-404-5.	SC5042-3	09/15/09	2353	2.68	
19	OC-SB-409-0.	SC5042-4	09/16/09	0007	2.68	
20	OC-SB-409-6.	SC5042-5	09/16/09	0021	2.68	

QC LIMITS
(+/- 0.20 MINUTES)

S1 = diethylformamide

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	OC-SB-411-0.	SC5042-6	09/16/09	0035	2.68	
02		CV 0.25	09/16/09	0049	2.68	
03	OC-SB-411-4.	SC5042-7	09/16/09	0118	2.68	
04	OC-SB-410-0.	SC5104-1	09/16/09	0132	2.68	
05	OC-SB-410-6.	SC5104-2	09/16/09	0146	2.68	
06	SB-410-6.0/8	SC5104-3	09/16/09	0201	2.68	
07	OC-SB-444-0.	SC5104-4	09/16/09	0215	2.68	
08	OC-SB-444-5.	SC5104-5	09/16/09	0229	2.68	
09	OC-SB-449-0.	SC5104-6	09/16/09	0243	2.68	
10	OC-SB-451-0.	SC5104-7	09/16/09	0258	2.68	
11	OC-SB-451-2.	SC5104-8	09/16/09	0312	2.68	
12	SB-451-2.5/4	SC5104-9	09/16/09	0326	2.68	
13		CV 0.25	09/16/09	0340	2.68	
14		CV 0.25	09/16/09	1109	2.68	
15	OC-SB-442-0.	SC5141-1	09/16/09	1137	2.68	
16	OC-SB-442-8.	SC5141-2	09/16/09	1151	2.68	
17	SB-442-8.0/1	SC5141-3	09/16/09	1205	2.68	
18	SB-410-6.0/8	WG68398-4	09/16/09	1219	2.68	
19	SB-410-6.0/8	WG68398-5	09/16/09	1248	2.68	
20	SB-451-2.5/4	WG68398-6	09/16/09	1316	2.68	

QC LIMITS
(+/- 0.20 MINUTES)

S1 = diethylformamide

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	SB-451-2.5/4	WG68398-7	09/16/09	1344	2.68	
02	SB-442-8.0/1	WG68398-8	09/16/09	1412	2.68	
03	SB-442-8.0/1	WG68398-9	09/16/09	1440	2.68	
04		CV 0.25	09/16/09	1508	2.68	
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin
ANALYTICAL SERVICES

nelac
Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-1
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-403-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	93. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-2
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-403-6.0/8.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	47. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-3
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-404-5.0/7.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	85. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-4
Report Date: 25-SEP-09
Client PO: ERRE9844 REW100 14
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-409-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-5
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-409-6.0/8.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	81. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-6
Report Date: 25-SEP-09
Client PO: ERRE9844 REW10014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-411-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-7
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI001 4
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-411-4.7/6.7-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5104-1
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI001 4
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-410-0.0/1.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
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Portland,ME 04112-7050

Lab Sample ID: SC5104-2
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-410-6.0/8.0-D	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5104-3
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-410-6.0/8.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	83. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5104-4
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-444-0.0/1.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5104-5
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-444-5.0/7.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5104-6
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-449-0.0/1.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Client: Chris Ricardi
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Lab Sample ID: SC5104-7
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-451-0.0/1.0-X	SL	28-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	96. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5104-8
Report Date: 25-SEP-09
Client PO: ERRE9844 REW100 14
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-451-2.5'4.5-D	SL	28-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94 %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Client: Chris Ricardi
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Portland,ME 04112-7050

Lab Sample ID: SC5104-9
Report Date: 25-SEP-09
Client PO: ERRE9844 REW10014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-451-2.5/4.5-X	SL	28-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	96 %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Client: Chris Ricardi
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P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5141-1
Report Date: 25-SEP-09
Client PO: ERRE9844 REW10014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-442-0.0/1.0-X	SL	31-AUG-09	02-SEP-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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Lab Sample ID: SC5141-2
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-442-8.0/10-DU	SL	31-AUG-09	02-SEP-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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Lab Sample ID: SC5141-3
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-442-8.0 10-XX	SL	31-AUG-09	02-SEP-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	87. %	1	SM2540G	WG68699	16-SEP-09 08:30:00	ASTM D2216	15-SEP-09	JF	

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Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG68624	ASTM D2216	14-SEP-09	11-SEP-09	U 1 %	1 %
MBLANK	WG68699	ASTM D2216	16-SEP-09	15-SEP-09	U 1 %	1 %

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Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG68624-2	LCS	WG68624	14-SEP-09	11-SEP-09	%	90	91.	101	80-120	
WG68699-2	LCS	WG68699	16-SEP-09	15-SEP-09	%	90	90.	100	80-120	

Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG68624-4	SC5104-3	WG68624	14-SEP-09	%	83.	83.	0	20

DMF DATA

QC Summary Section

FORM 2
SOIL DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG68398-BLANK	WG68398-1	109				0
02	WG68398-LCS	WG68398-2	132				0
03	WG68398-LCSD	WG68398-3	129				0
04	OC-SB-403-0.0/1.0-X	SC5042-1	119				0
05	OC-SB-403-6.0/8.0-X	SC5042-2	114				0
06	OC-SB-404-5.0/7.0-X	SC5042-3	113				0
07	OC-SB-409-0.0/1.0-X	SC5042-4	117				0
08	OC-SB-409-6.0/8.0-X	SC5042-5	106				0
09	OC-SB-411-0.0/1.0-X	SC5042-6	110				0
10	OC-SB-411-4.7/6.7-X	SC5042-7	118				0
11	OC-SB-410-0.0/1.0-X	SC5104-1	116				0
12	OC-SB-410-6.0/8.0-D	SC5104-2	110				0
13	SB-410-6.0/8.0-X	SC5104-3	113				0
14	OC-SB-444-0.0/1.0-X	SC5104-4	122				0
15	OC-SB-444-5.0/7.0-X	SC5104-5	120				0
16	OC-SB-449-0.0/1.0-X	SC5104-6	119				0
17	OC-SB-451-0.0/1.0-X	SC5104-7	121				0
18	OC-SB-451-2.5/4.5-D	SC5104-8	122				0
19	SB-451-2.5/4.5-X	SC5104-9	123				0
20	OC-SB-442-0.0/1.0-X	SC5141-1	136				0
21	OC-SB-442-8.0/10-DU	SC5141-2	139*				1
22	SB-442-8.0/10-XX	SC5141-3	141*				1
23	SB-410-6.0/8.0-XMS	WG68398-4	152*				1
24	SB-410-6.0/8.0-XMSD	WG68398-5	153*				1
25	SB-451-2.5/4.5-XMS	WG68398-6	174*				1
26	SB-451-2.5/4.5-XMSD	WG68398-7	172*				1
27	SB-442-8.0/10-XXMS	WG68398-8	167*				1
28	SB-442-8.0/10-XXMSD	WG68398-9	169*				1

		QC LIMITS
SMC1	= diethylformamide	(61-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Katahdin Analytical Services 1000003

FORM 2
WATER DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG68660-BLANK	WG68660-1	90				0
02	WG68660-LCS	WG68660-2	114				0
03	WG68660-LCSD	WG68660-3	116				0
04	OC-EBK-005	SC5104-10RA	100				0
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
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24							
25							
26							
27							
28							

		QC LIMITS
SMC1	= diethylformamide	(56-154)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG68398-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Lab File ID: BCI4126 Lab Sample ID: WG68398-1

Date Analyzed: 09/15/09 Time Analyzed: 2213

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG68398-LCS	WG68398-2	BCI4127	09/15/09	2227
02	WG68398-LCSD	WG68398-3	BCI4129	09/15/09	2256
03	OC-SB-403-0.0/1.0-X	SC5042-1	BCI4131	09/15/09	2324
04	OC-SB-403-6.0/8.0-X	SC5042-2	BCI4132	09/15/09	2339
05	OC-SB-404-5.0/7.0-X	SC5042-3	BCI4133	09/15/09	2353
06	OC-SB-409-0.0/1.0-X	SC5042-4	BCI4134	09/16/09	0007
07	OC-SB-409-6.0/8.0-X	SC5042-5	BCI4135	09/16/09	0021
08	OC-SB-411-0.0/1.0-X	SC5042-6	BCI4136	09/16/09	0035
09	OC-SB-411-4.7/6.7-X	SC5042-7	BCI4139	09/16/09	0118
10	OC-SB-410-0.0/1.0-X	SC5104-1	BCI4140	09/16/09	0132
11	OC-SB-410-6.0/8.0-D	SC5104-2	BCI4141	09/16/09	0146
12	SB-410-6.0/8.0-X	SC5104-3	BCI4142	09/16/09	0201
13	OC-SB-444-0.0/1.0-X	SC5104-4	BCI4143	09/16/09	0215
14	OC-SB-444-5.0/7.0-X	SC5104-5	BCI4144	09/16/09	0229
15	OC-SB-449-0.0/1.0-X	SC5104-6	BCI4145	09/16/09	0243
16	OC-SB-451-0.0/1.0-X	SC5104-7	BCI4146	09/16/09	0258
17	OC-SB-451-2.5/4.5-D	SC5104-8	BCI4147	09/16/09	0312
18	SB-451-2.5/4.5-X	SC5104-9	BCI4148	09/16/09	0326
19	OC-SB-442-0.0/1.0-X	SC5141-1	BCI4163	09/16/09	1137
20	OC-SB-442-8.0/10-DU	SC5141-2	BCI4164	09/16/09	1151
21	SB-442-8.0/10-XX	SC5141-3	BCI4165	09/16/09	1205
22	SB-410-6.0/8.0-XMS	WG68398-4	BCI4166	09/16/09	1219
23	SB-410-6.0/8.0-XMSD	WG68398-5	BCI4168	09/16/09	1248
24	SB-451-2.5/4.5-XMS	WG68398-6	BCI4170	09/16/09	1316
25	SB-451-2.5/4.5-XMSD	WG68398-7	BCI4172	09/16/09	1344
26	SB-442-8.0/10-XXMS	WG68398-8	BCI4174	09/16/09	1412
27	SB-442-8.0/10-XXMSD	WG68398-9	BCI4176	09/16/09	1440
28					
29					
30					

COMMENTS:

FORM IVDMF

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG68660-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Lab File ID: BCI4086 Lab Sample ID: WG68660-1

Date Analyzed: 09/15/09 Time Analyzed: 1242

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG68660-LCS	WG68660-2	BCI4087	09/15/09	1256
02	WG68660-LCSD	WG68660-3	BCI4089	09/15/09	1324
03	OC-EBK-005	SC5104-10RA	BCI4091	09/15/09	1352
04					
05					
06					
07					
08					
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13					
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30					

COMMENTS:

FORM IVDMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		ICAL 0.02	09/15/09	0936	2.69	
02		ICAL 0.05	09/15/09	0950	2.69	
03		ICAL 0.1	09/15/09	1004	2.69	
04		ICAL 0.25	09/15/09	1032	2.68	
05		ICAL 0.5	09/15/09	1101	2.69	
06		ICAL 1.0	09/15/09	1143		
07	WG68660-BLAN	WG68660-1	09/15/09	1242	2.69	
08	WG68660-LCS	WG68660-2	09/15/09	1256	2.68	
09	WG68660-LCSD	WG68660-3	09/15/09	1324	2.68	
10	OC-EBK-005	SC5104-10RA	09/15/09	1352	2.68	
11		CV 0.25	09/15/09	1435	2.68	
12		CV 0.25	09/15/09	2131	2.68	
13	WG68398-BLAN	WG68398-1	09/15/09	2213	2.68	
14	WG68398-LCS	WG68398-2	09/15/09	2227	2.68	
15	WG68398-LCSD	WG68398-3	09/15/09	2256	2.68	
16	OC-SB-403-0.	SC5042-1	09/15/09	2324	2.68	
17	OC-SB-403-6.	SC5042-2	09/15/09	2339	2.68	
18	OC-SB-404-5.	SC5042-3	09/15/09	2353	2.68	
19	OC-SB-409-0.	SC5042-4	09/16/09	0007	2.68	
20	OC-SB-409-6.	SC5042-5	09/16/09	0021	2.68	

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 1000007

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	OC-SB-411-0.	SC5042-6	09/16/09	0035	2.68	
02		CV 0.25	09/16/09	0049	2.68	
03	OC-SB-411-4.	SC5042-7	09/16/09	0118	2.68	
04	OC-SB-410-0.	SC5104-1	09/16/09	0132	2.68	
05	OC-SB-410-6.	SC5104-2	09/16/09	0146	2.68	
06	SB-410-6.0/8	SC5104-3	09/16/09	0201	2.68	
07	OC-SB-444-0.	SC5104-4	09/16/09	0215	2.68	
08	OC-SB-444-5.	SC5104-5	09/16/09	0229	2.68	
09	OC-SB-449-0.	SC5104-6	09/16/09	0243	2.68	
10	OC-SB-451-0.	SC5104-7	09/16/09	0258	2.68	
11	OC-SB-451-2.	SC5104-8	09/16/09	0312	2.68	
12	SB-451-2.5/4	SC5104-9	09/16/09	0326	2.68	
13		CV 0.25	09/16/09	0340	2.68	
14		CV 0.25	09/16/09	1109	2.68	
15	OC-SB-442-0.	SC5141-1	09/16/09	1137	2.68	
16	OC-SB-442-8.	SC5141-2	09/16/09	1151	2.68	
17	SB-442-8.0/1	SC5141-3	09/16/09	1205	2.68	
18	SB-410-6.0/8	WG68398-4	09/16/09	1219	2.68	
19	SB-410-6.0/8	WG68398-5	09/16/09	1248	2.68	
20	SB-451-2.5/4	WG68398-6	09/16/09	1316	2.68	

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	SB-451-2.5/4	WG68398-7	09/16/09	1344	2.68	
02	SB-442-8.0/1	WG68398-8	09/16/09	1412	2.68	
03	SB-442-8.0/1	WG68398-9	09/16/09	1440	2.68	
04		CV 0.25	09/16/09	1508	2.68	
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 15-SEP-2009 23:24
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 93.4

Lab ID: SC5042-1
Client ID: OC-SB-403-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.48	1.0	0.80	0.48	0.48
	diethylformamide		119%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4131.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4131.d
Lab Smp Id: SC5042-1 Client Smp ID: OC-SB-403-0.0/1.0-X
Inj Date : 15-SEP-2009 23:24
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5042-1
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00180	Sample Weight
M	6.622	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	34067	0.59324	14.1(M)	M5

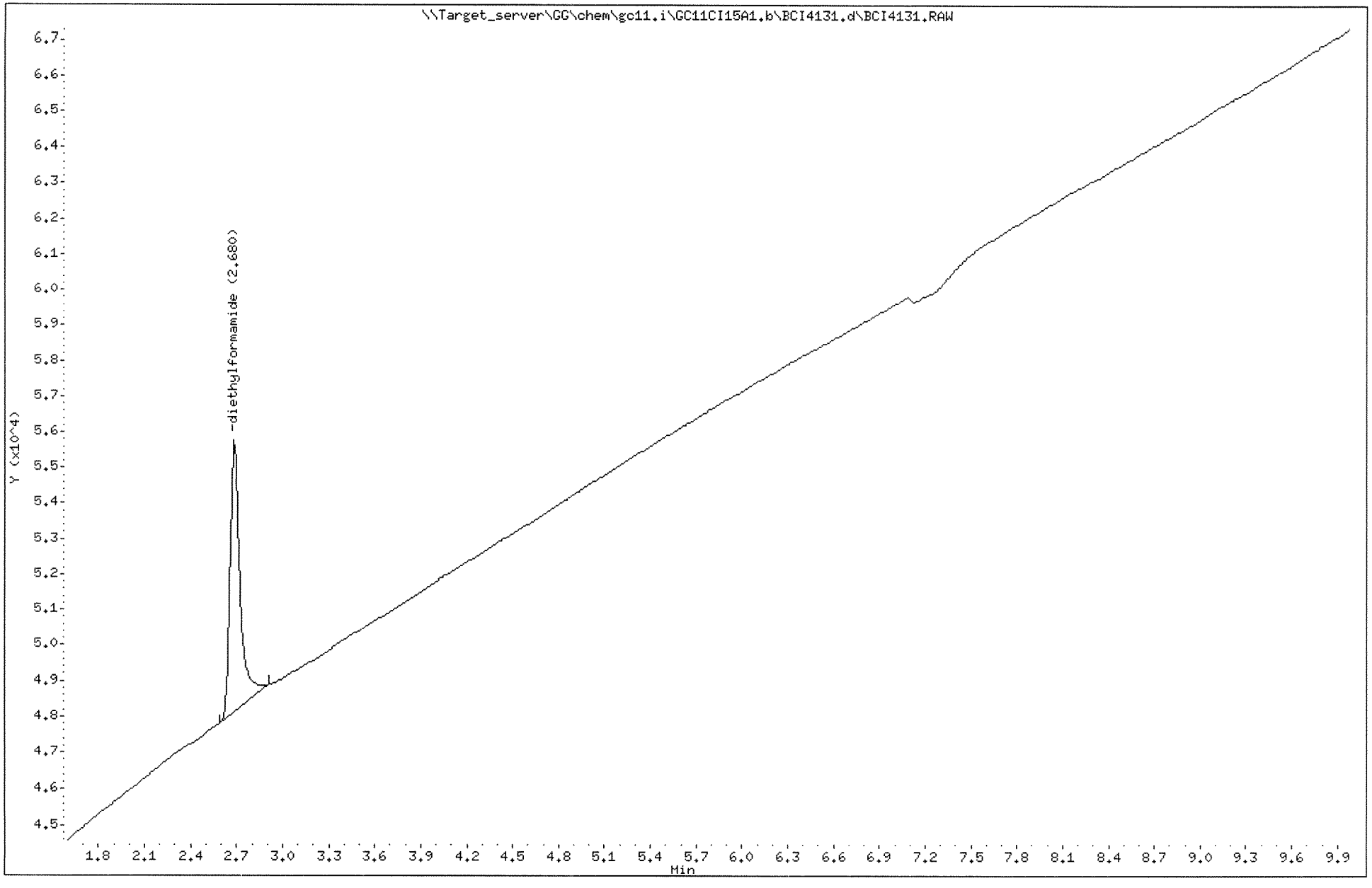
JLP 09/21/09

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4131.d
Date : 15-SEP-2009 23:24
Client ID: OC-SB-403-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5042-1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000015

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 15-SEP-2009 23:39
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 46.6

Lab ID: SC5042-2
Client ID: OC-SB-403-6.0/8.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	1.4	1.0	0.80	1.4	1.4
	diethylformamide		114%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4132.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4132.d
Lab Smp Id: SC5042-2 Client Smp ID: OC-SB-403-6.0/8.0-X
Inj Date : 15-SEP-2009 23:39
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5042-2
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00123	Sample Weight
M	53.341	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	32527	0.57094	39.8(M)	M5

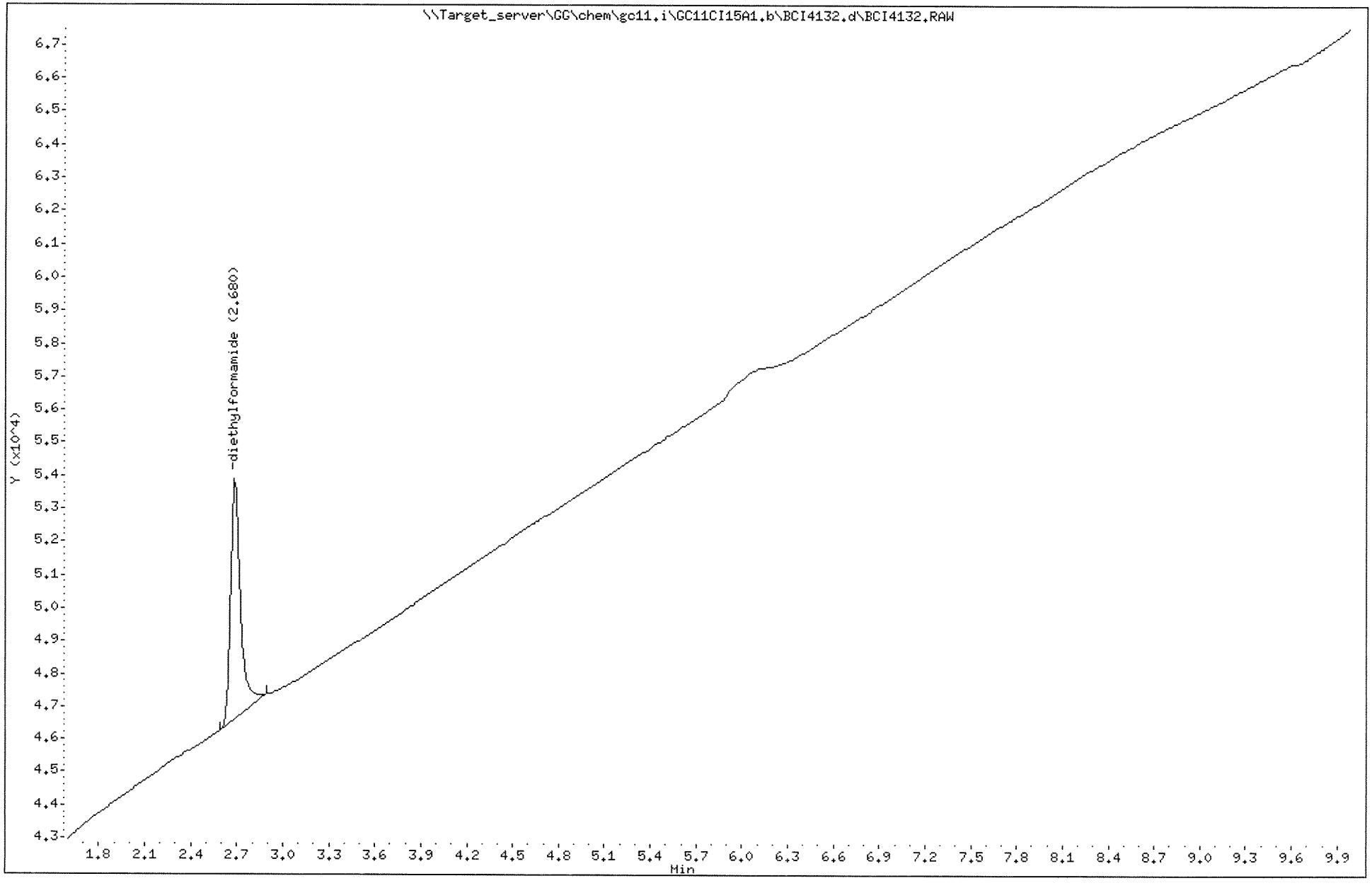
JLP 09/21/09

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4132.d
Date : 15-SEP-2009 23:39
Client ID: OC-SB-403-6.0/8.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5042-2
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000018

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 15-SEP-2009 23:53
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 85.0

Lab ID: SC5042-3
Client ID: OC-SB-404-5.0/7.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.62	1.0	0.80	0.62	0.62
	diethylformamide		113%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4133.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4133.d
Lab Smp Id: SC5042-3 Client Smp ID: OC-SB-404-5.0/7.0-X
Inj Date : 15-SEP-2009 23:53
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5042-3
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00151	Sample Weight
M	14.988	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	32200	0.56620	17.6(M)	M5

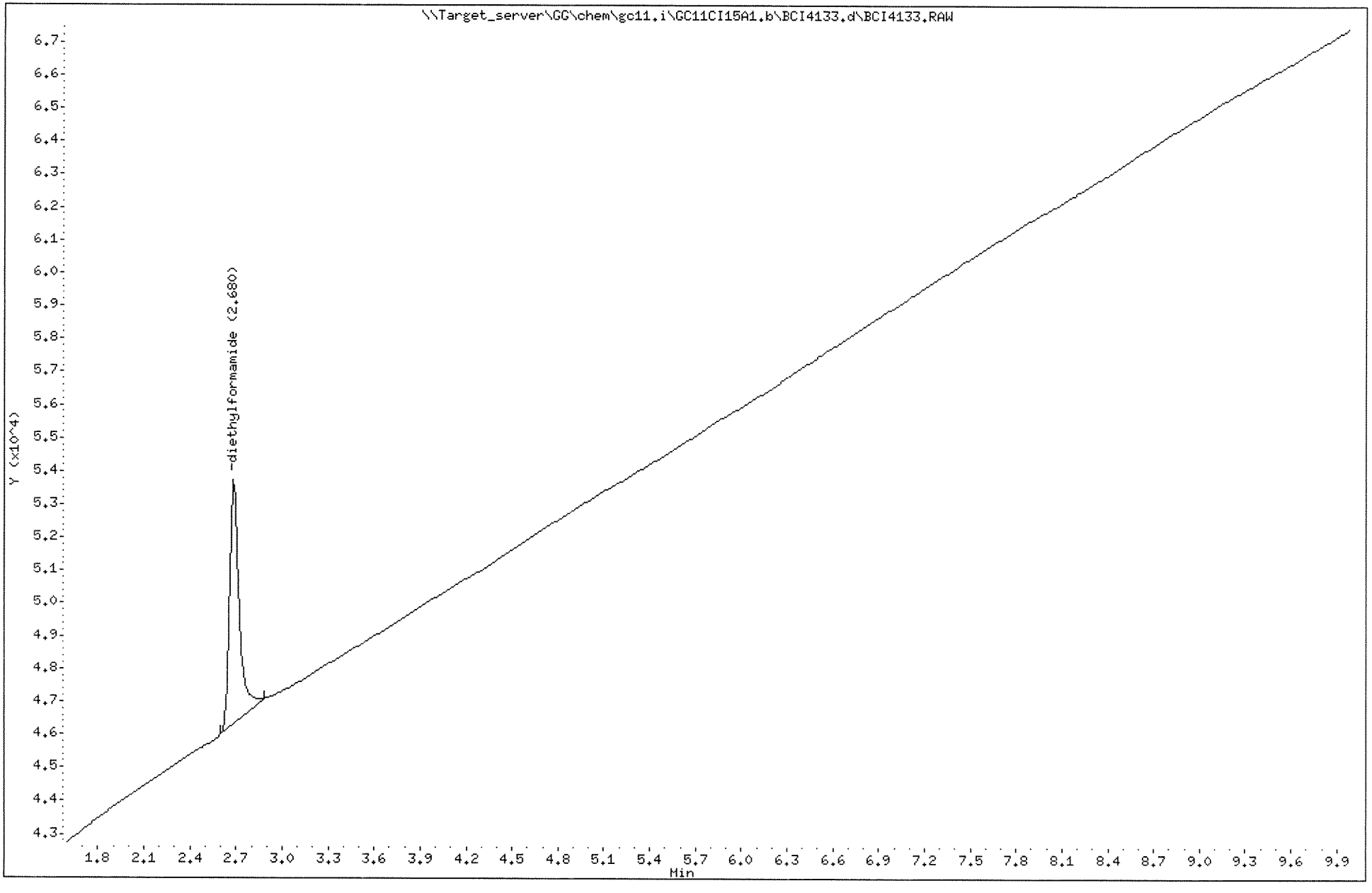
JP 09/21/09

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4133.d
Date : 15-SEP-2009 23:53
Client ID: OC-SB-404-5.0/7.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5042-3
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000021

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 00:07
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 94.6

Lab ID: SC5042-4
Client ID: OC-SB-409-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.70	1.0	0.80	0.70	0.70
	diethylformamide		117%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4134.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4134.d
Lab Smp Id: SC5042-4 Client Smp ID: OC-SB-409-0.0/1.0-X
Inj Date : 16-SEP-2009 00:07
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5042-4
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00120	Sample Weight
M	5.424	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	33382	0.58332	20.6(M)	M5

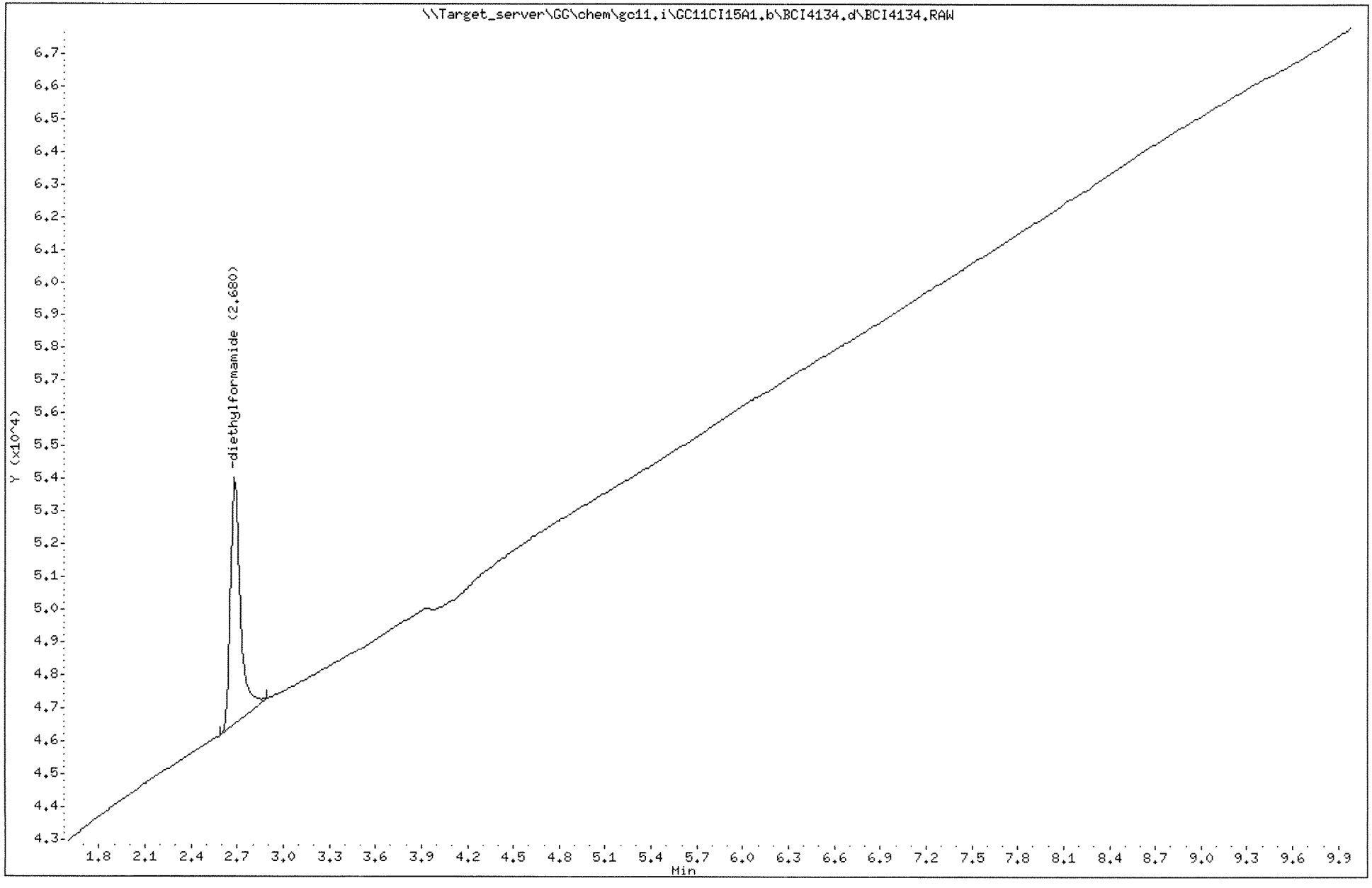
JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4134.d
Date : 16-SEP-2009 00:07
Client ID: OC-SB-409-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5042-4
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000024

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 00:21
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 81.2

Lab ID: SC5042-5
Client ID: OC-SB-409-6.0/8.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.48	1.0	0.80	0.48	0.48
	diethylformamide		106%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4135.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

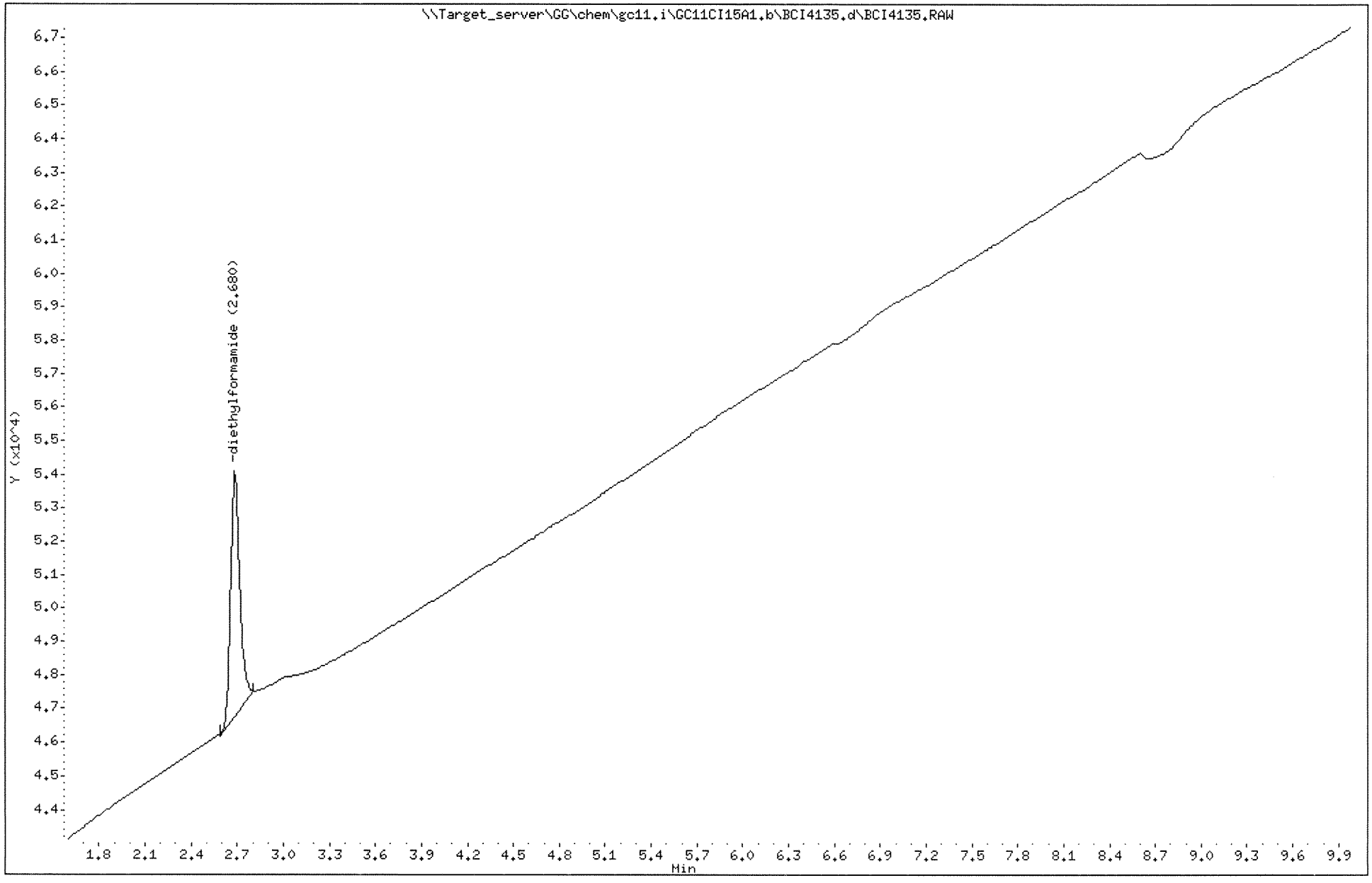
Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4135.d
Lab Smp Id: SC5042-5 Client Smp ID: OC-SB-409-6.0/8.0-X
Inj Date : 16-SEP-2009 00:21
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5042-5
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00203	Sample Weight
M	18.760	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	29883	0.53265	12.9	

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4135.d
Date : 16-SEP-2009 00:21
Client ID: OC-SB-409-6.0/8.0-X
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5042-5
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000027

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 00:35
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 93.7

Lab ID: SC5042-6
Client ID: OC-SB-411-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.62	1.0	0.80	0.62	0.62
	diethylformamide		110%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4136.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4136.d
Lab Smp Id: SC5042-6 Client Smp ID: OC-SB-411-0.0/1.0-X
Inj Date : 16-SEP-2009 00:35
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5042-6
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

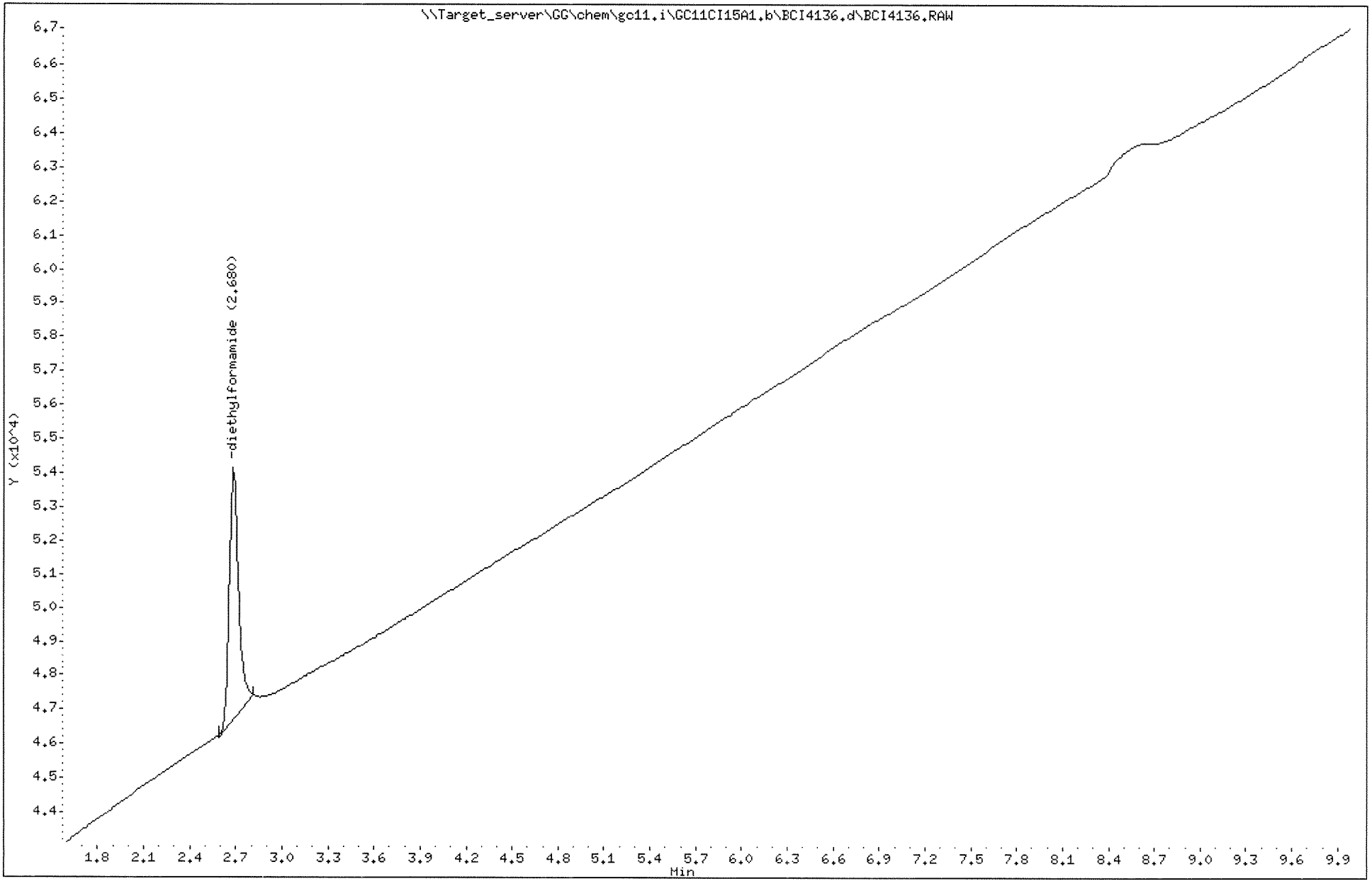
Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00138	Sample Weight
M	6.299	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	31213	0.55191	17.1	

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4136.d
Date : 16-SEP-2009 00:35
Client ID: OC-SB-411-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5042-6
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000030

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 01:18
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 94.9

Lab ID: SC5042-7
Client ID: OC-SB-411-4.7/6.7-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.59	1.0	0.80	0.59	0.59
	diethylformamide		118%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4139.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4139.d
Lab Smp Id: SC5042-7 Client Smp ID: OC-SB-411-4.7/6.7-X
Inj Date : 16-SEP-2009 01:18
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5042-7
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00143	Sample Weight
M	5.097	% Moisture
Cpnd Variable		Local Compound Variable

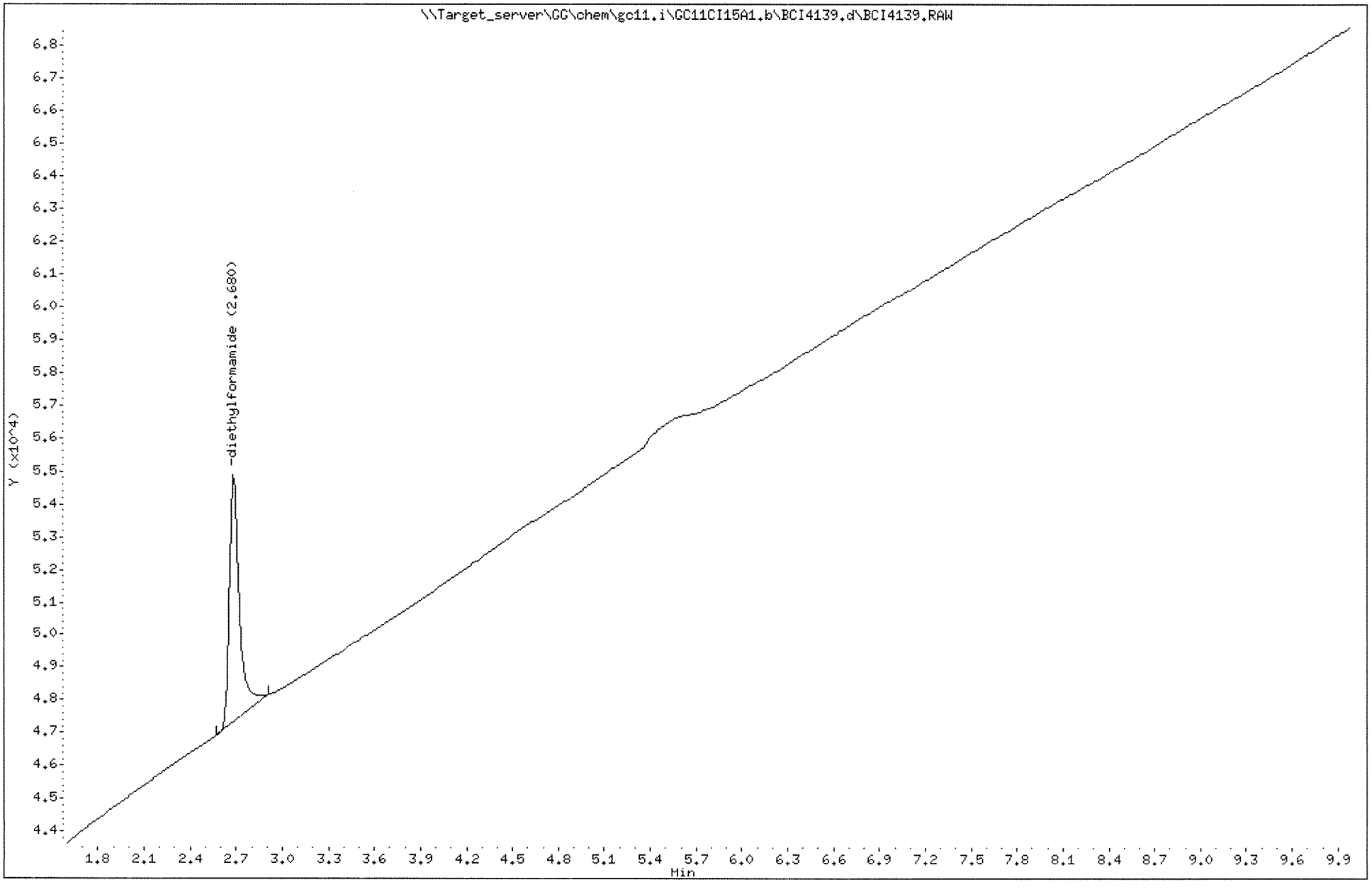
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	33981	0.59200	17.4(M)	M5

JP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4139.d
Date : 16-SEP-2009 01:18
Client ID: OC-SB-411-4.7/6.7-X
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5042-7
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000033

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 01:32
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 89.8

Lab ID: SC5104-1
Client ID: OC-SB-410-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.60	1.0	0.80	0.60	0.60
	diethylformamide		116%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4140.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4140.d
Lab Smp Id: SC5104-1 Client Smp ID: OC-SB-410-0.0/1.0-X
Inj Date : 16-SEP-2009 01:32
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-1
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00149	Sample Weight
M	10.170	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	33246	0.58135	17.4(M)	M5

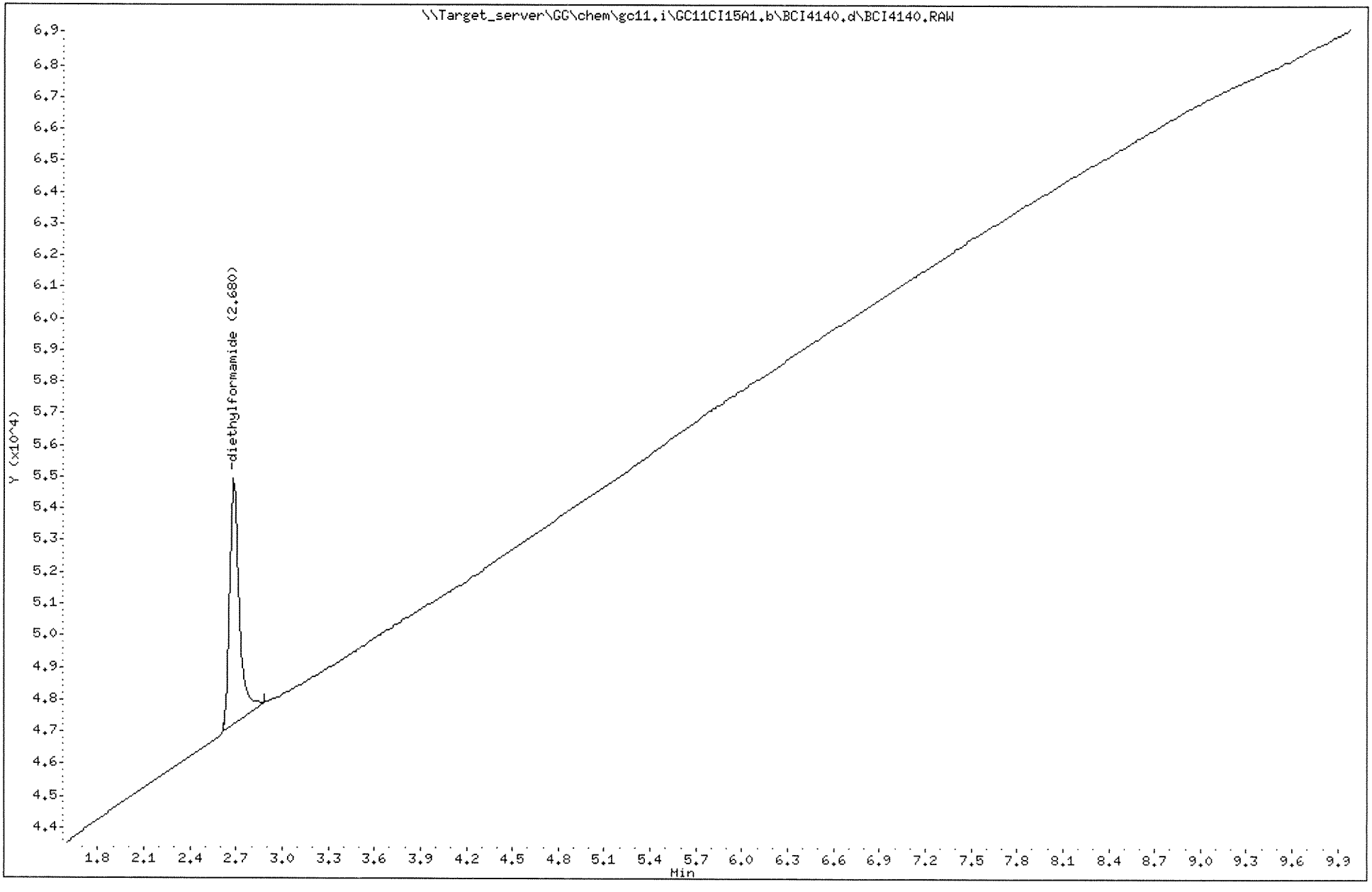
JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4140.d
Date : 16-SEP-2009 01:32
Client ID: OC-SB-410-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000036

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 01:46
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 81.9

Lab ID: SC5104-2
Client ID: OC-SB-410-6.0/8.0-D
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.74	1.0	0.80	0.74	0.74
	diethylformamide		110%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4141.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

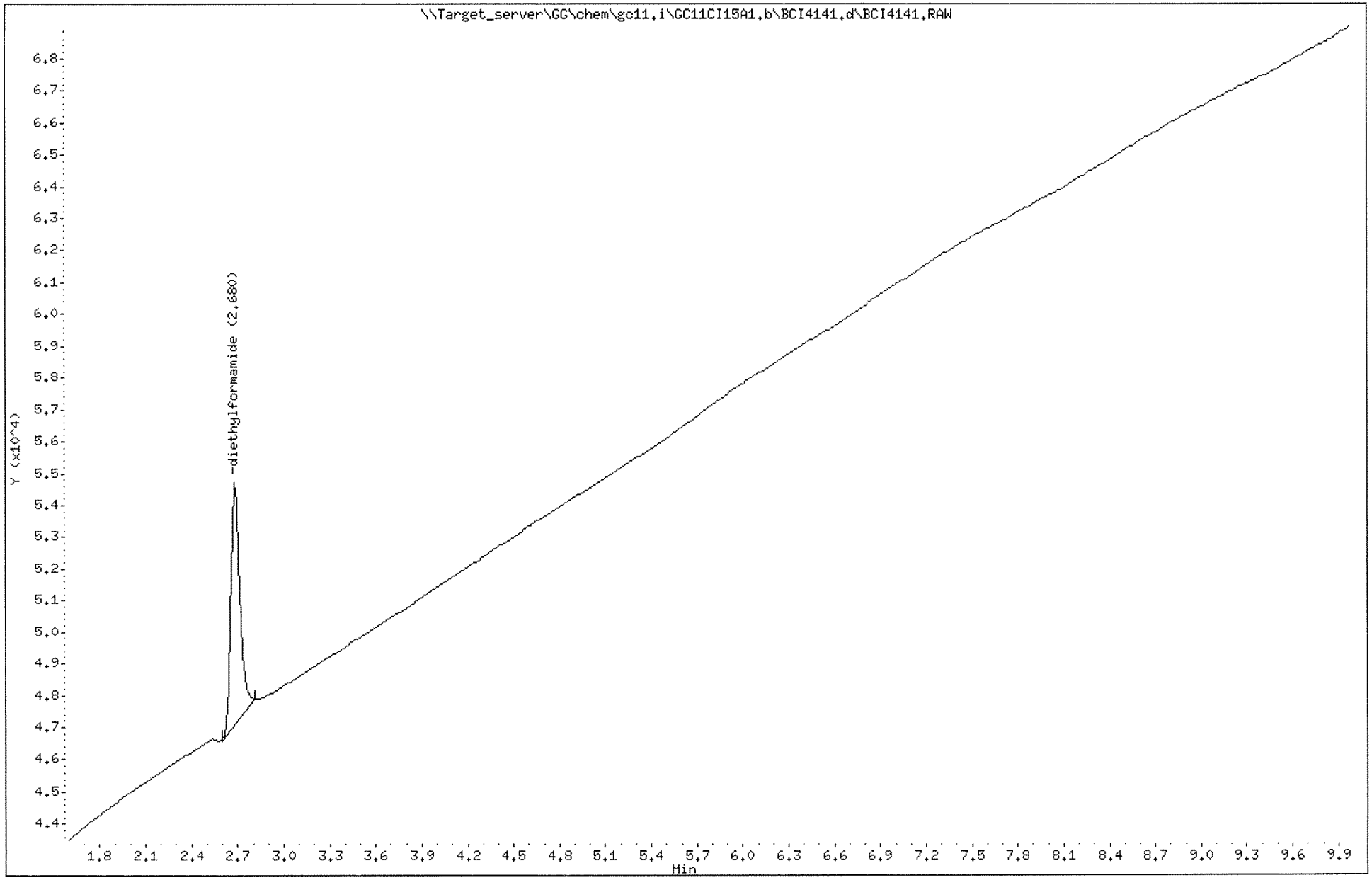
Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4141.d
Lab Smp Id: SC5104-2 Client Smp ID: OC-SB-410-6.0/8.0-D
Inj Date : 16-SEP-2009 01:46
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-2
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00132	Sample Weight
M	18.077	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	30962	0.54828	20.3	

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4141.d
Date : 16-SEP-2009 01:46
Client ID: OC-SB-410-6.0/8.0-D
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-2
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000039

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:01
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 83.3

Lab ID: SC5104-3
Client ID: SB-410-6.0/8.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.57	1.0	0.80	0.57	0.57
	diethylformamide		113%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4142.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

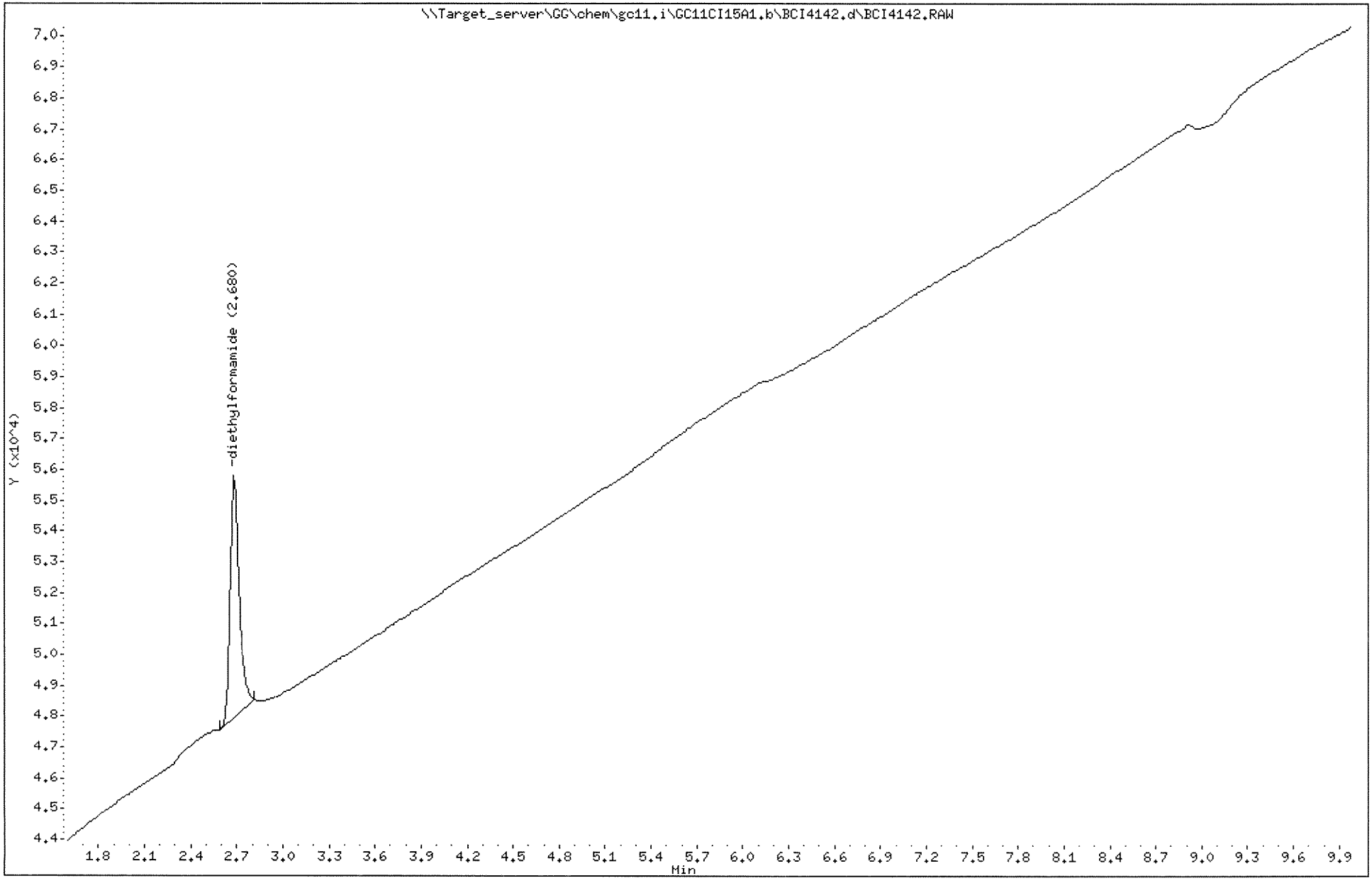
Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4142.d
Lab Smp Id: SC5104-3 Client Smp ID: SB-410-6.0/8.0-X
Inj Date : 16-SEP-2009 02:01
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-3
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00168	Sample Weight
M	16.678	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	32146	0.56542	16.2	

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4142.d
Date : 16-SEP-2009 02:01
Client ID: SB-410-6.0/8.0-X
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-3
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000042

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:15
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 95.4

Lab ID: SC5104-4
Client ID: OC-SB-444-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.66	1.0	0.80	0.66	0.66
	diethylformamide		122%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4143.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4143.d
Lab Smp Id: SC5104-4 Client Smp ID: OC-SB-444-0.0/1.0-X
Inj Date : 16-SEP-2009 02:15
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-4
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00128	Sample Weight
M	4.593	% Moisture
Cpnd Variable		Local Compound Variable

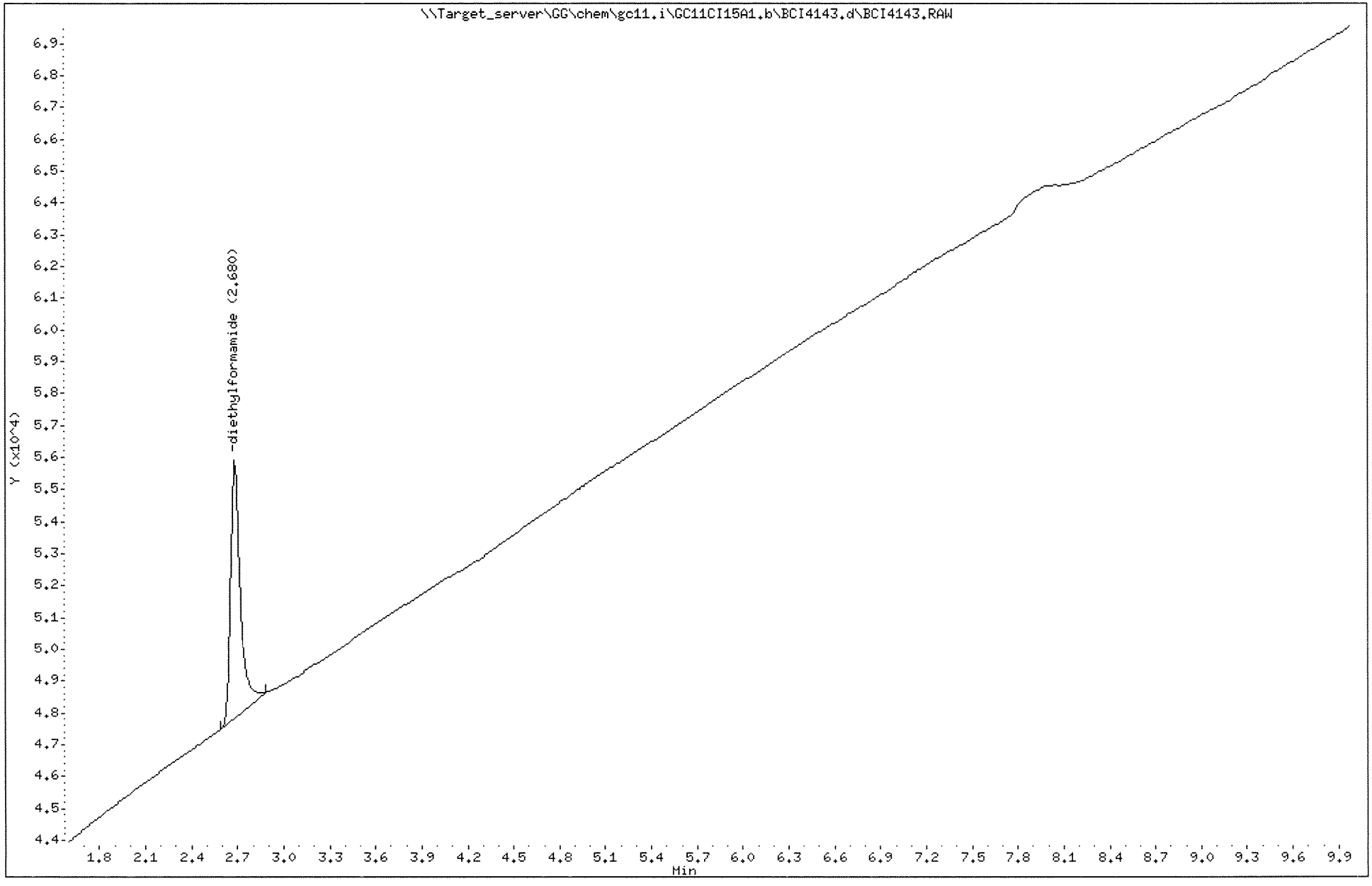
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	35148	0.60890	19.9(M)	M5

JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4143.d
Date : 16-SEP-2009 02:15
Client ID: OC-SB-444-0.0/1.0-X
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-4
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000045

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:29
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 87.6

Lab ID: SC5104-5
Client ID: OC-SB-444-5.0/7.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.65	1.0	0.80	0.65	0.65
	diethylformamide		120%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4144.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4144.d
Lab Smp Id: SC5104-5 Client Smp ID: OC-SB-444-5.0/7.0-X
Inj Date : 16-SEP-2009 02:29
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-5
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00141	Sample Weight
M	12.437	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	34735	0.60292	19.5(M)	M5

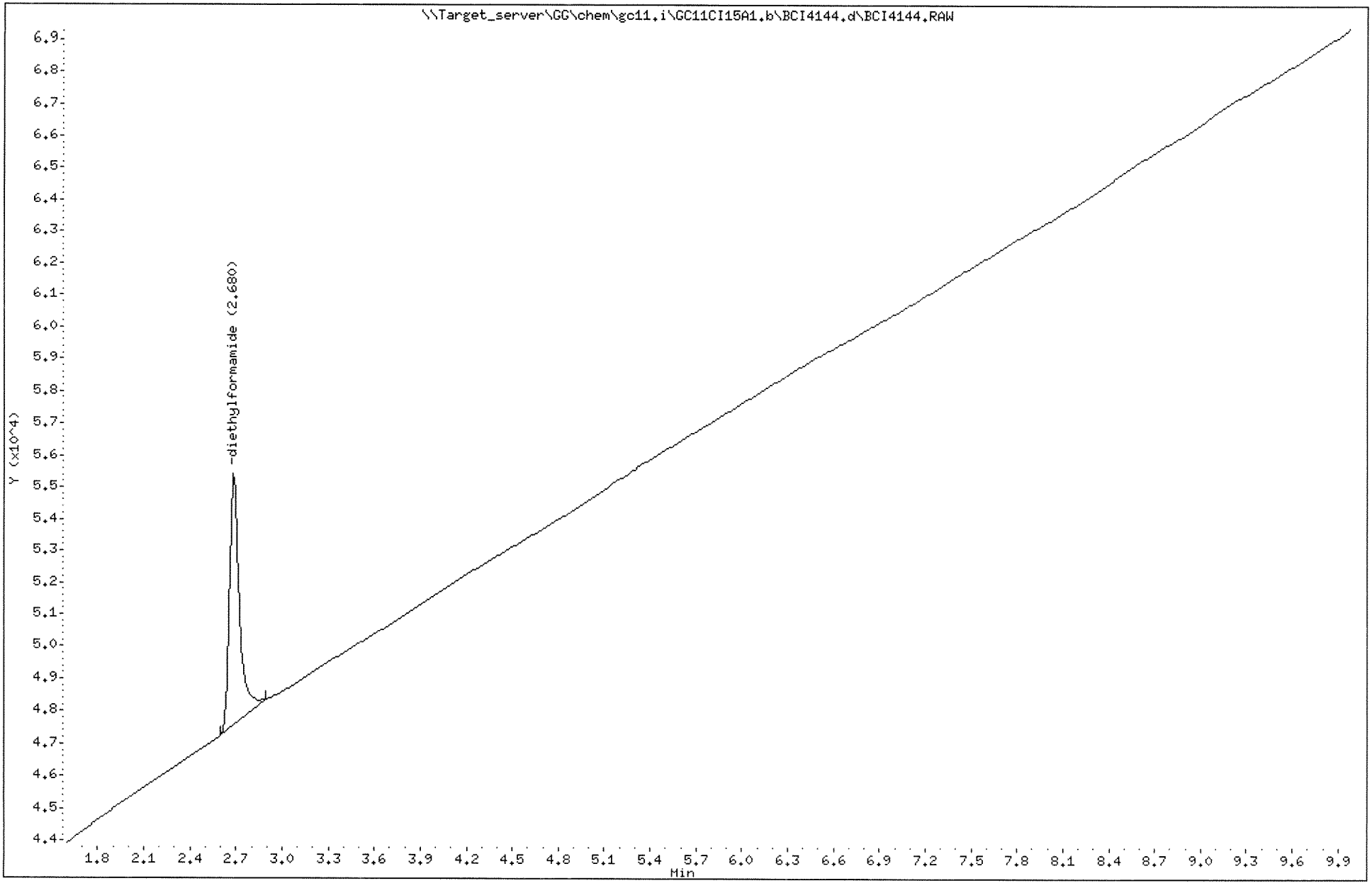
JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4144.d
Date : 16-SEP-2009 02:29
Client ID: OC-SB-444-5.0/7.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-5
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000048

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:43
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 92.4

Lab ID: SC5104-6
Client ID: OC-SB-449-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.68	1.0	0.80	0.68	0.68
	diethylformamide		119%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4145.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4145.d
Lab Smp Id: SC5104-6 Client Smp ID: OC-SB-449-0.0/1.0-X
Inj Date : 16-SEP-2009 02:43
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-6
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00127	Sample Weight
M	7.628	% Moisture
Cpnd Variable		Local Compound Variable

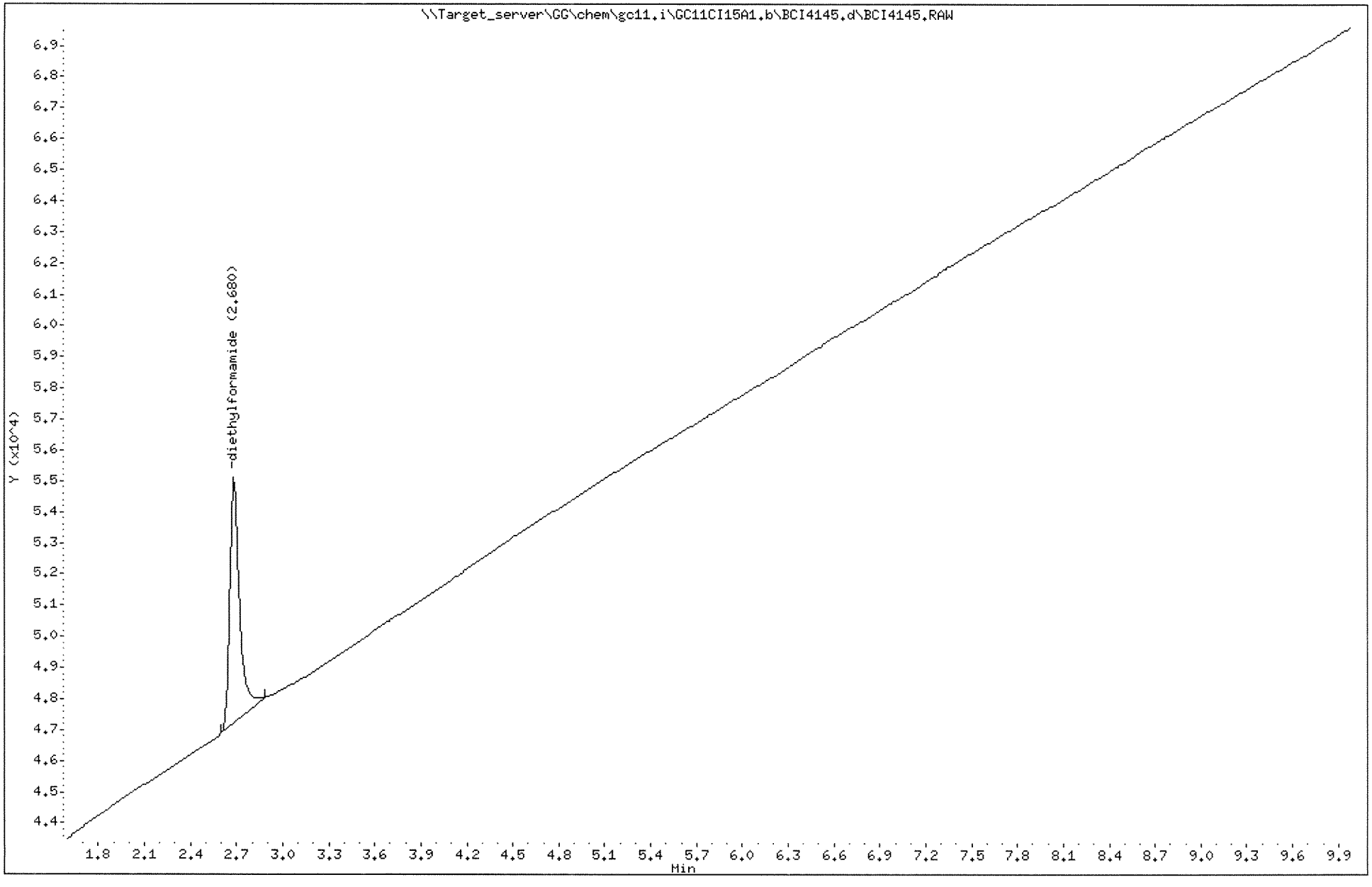
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	34196	0.59511	20.3(M)	M5

JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4145.d
Date : 16-SEP-2009 02:43
Client ID: OC-SB-449-0.0/1.0-X
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-6
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000051

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/28/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 02:58
Report Date: 09/23/2009
Matrix: SOIL
% Solids: 96.4

Lab ID: SC5104-7
Client ID: OC-SB-451-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.70	1.0	0.80	0.70	0.70
	diethylformamide		121%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4146.d
Report Date: 23-Sep-2009 14:32

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4146.d
Lab Smp Id: SC5104-7 Client Smp ID: OC-SB-451-0.0/1.0-X
Inj Date : 16-SEP-2009 02:58
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-7
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00119	Sample Weight
M	3.600	% Moisture
Cpnd Variable		Local Compound Variable

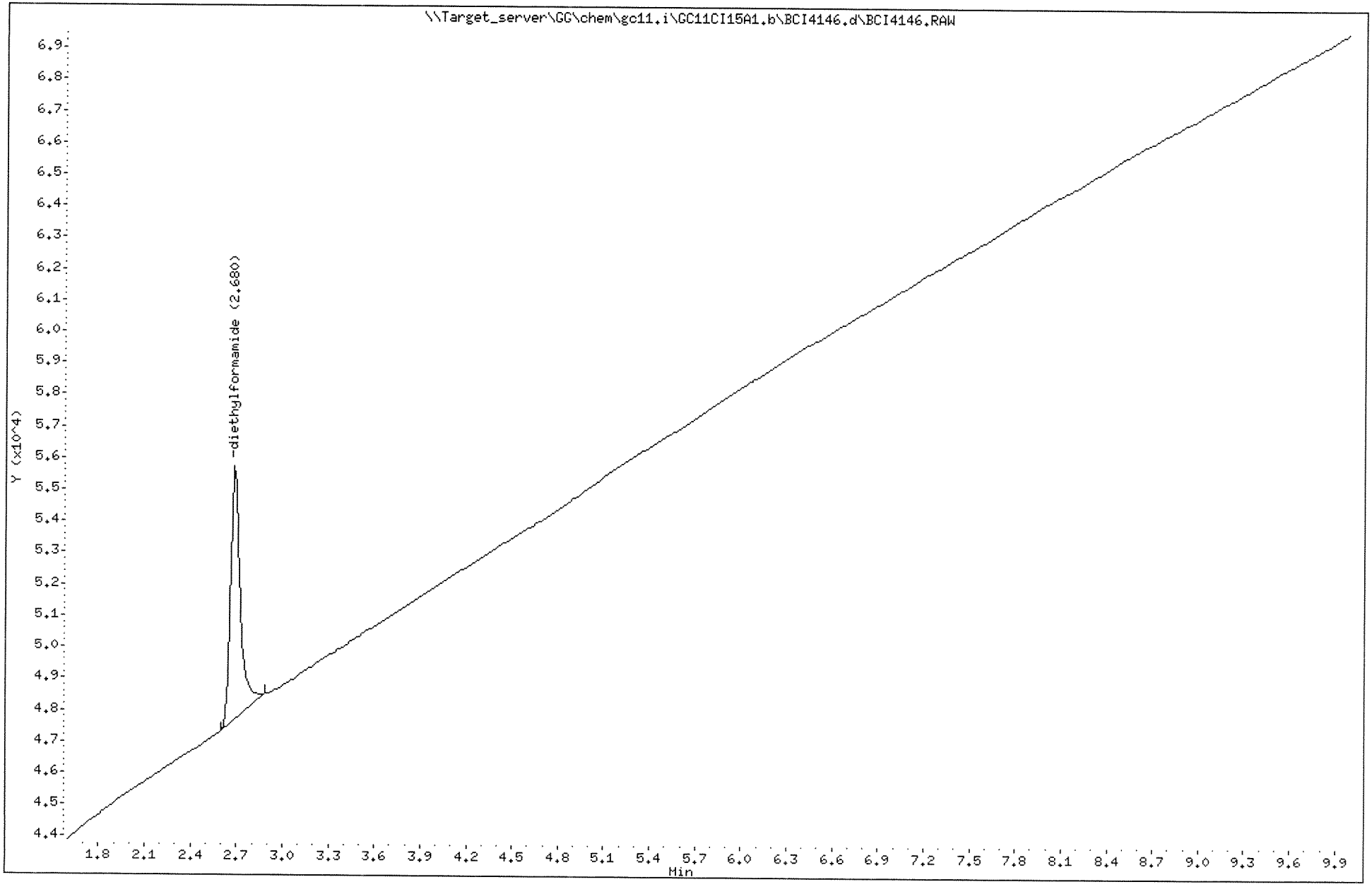
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	35018	0.60701	21.2(M)	M5

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4146.d
Date : 16-SEP-2009 02:58
Client ID: OC-SB-451-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-7
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000054

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/28/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 03:12
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 94.4

Lab ID: SC5104-8
Client ID: OC-SB-451-2.5/4.5-D
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.64	1.0	0.80	0.64	0.64
	diethylformamide		122%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4147.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4147.d
Lab Smp Id: SC5104-8 Client Smp ID: OC-SB-451-2.5/4.5-D
Inj Date : 16-SEP-2009 03:12
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-8
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00133	Sample Weight
M	5.583	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	35204	0.60971	19.4(M)	M5

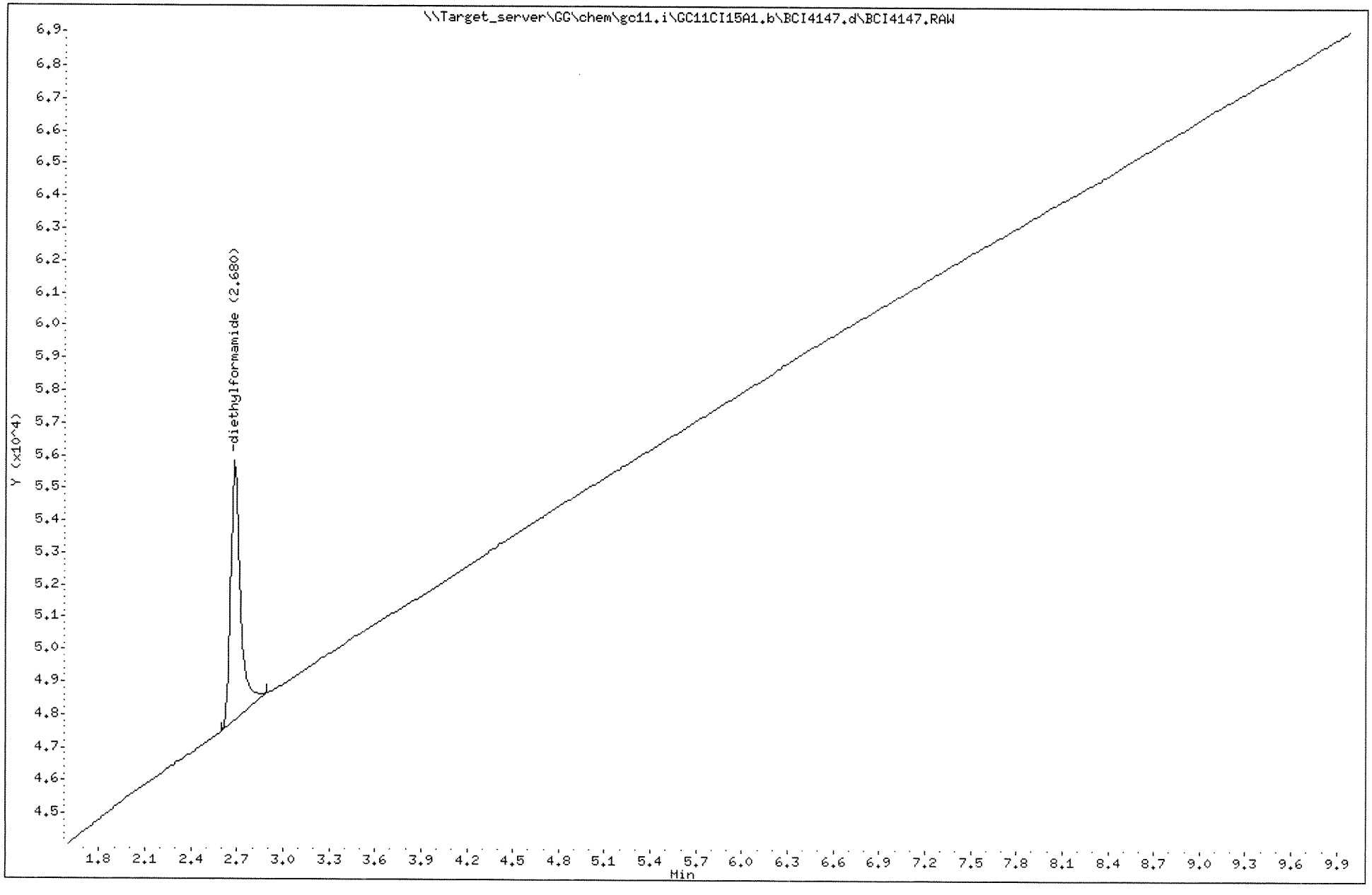
JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4147.d
Date : 16-SEP-2009 03:12
Client ID: OC-SB-451-2.5/4.5-D
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-8
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000057

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/28/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 03:26
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 95.7

Lab ID: SC5104-9
Client ID: SB-451-2.5/4.5-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.45	1.0	0.80	0.45	0.45
	diethylformamide		123%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4148.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4148.d
Lab Smp Id: SC5104-9 Client Smp ID: SB-451-2.5/4.5-X
Inj Date : 16-SEP-2009 03:26
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-9
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00187	Sample Weight
M	4.330	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	35498	0.61397	13.7(M)	M5

JLP 092109

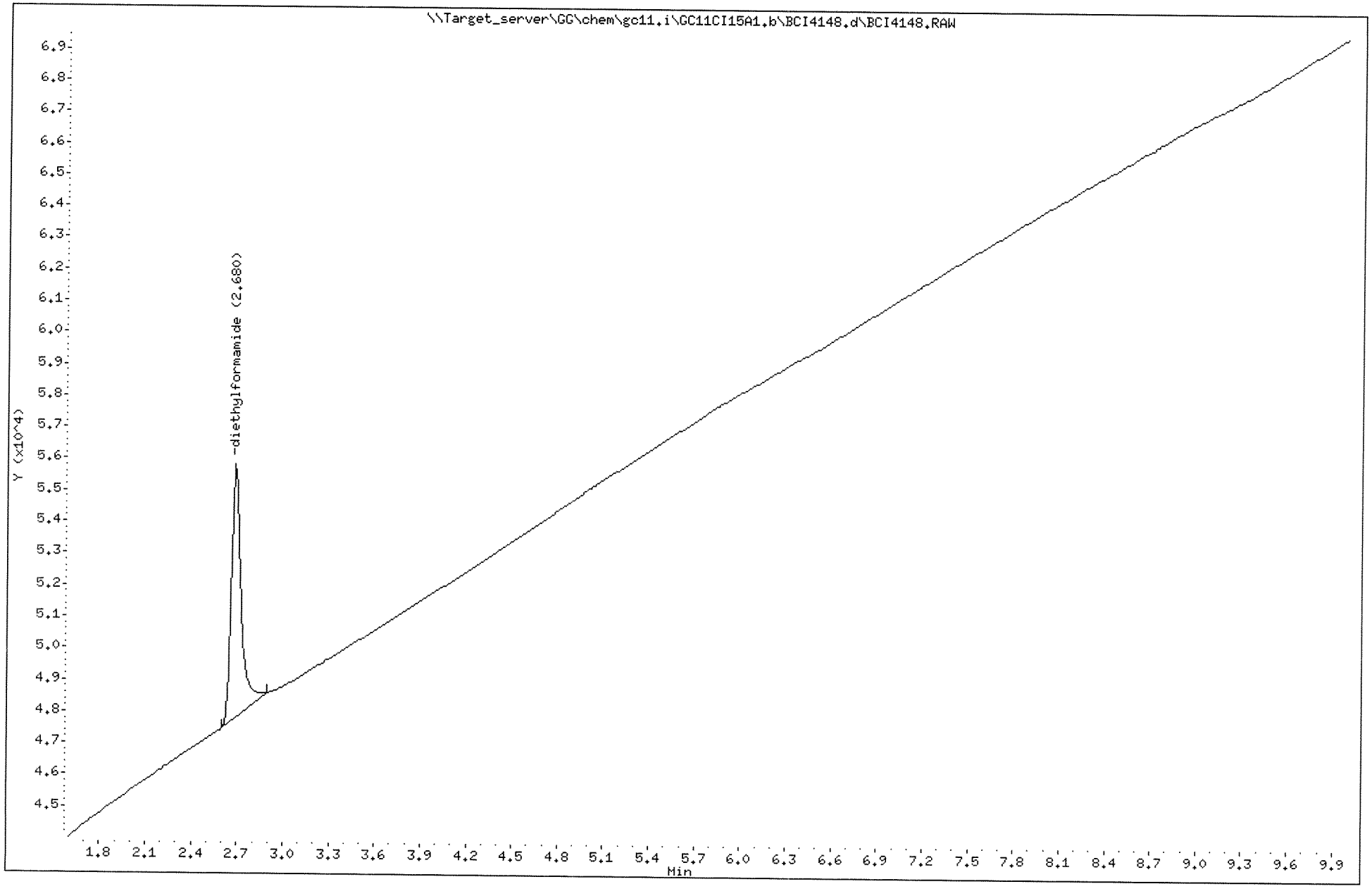
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4148.d
Date : 16-SEP-2009 03:26
Client ID: SB-451-2.5/4.5-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-9
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000060

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date:
Analysis Date: 15-SEP-2009 13:52
Report Date: 09/21/2009
Matrix: WATER
% Solids: NA

Lab ID: SC5104-10RA
Client ID: OC-EBK-005
SDG: WIL-4
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68660
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		100%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4091.d
Report Date: 21-Sep-2009 11:04

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4091.d
Lab Smp Id: SC5104-10RA Client Smp ID: OC-EBK-005
Inj Date : 15-SEP-2009 13:52
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5104-10RA
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	27614	0.49979	0.500(M)	M5

JLP 092109

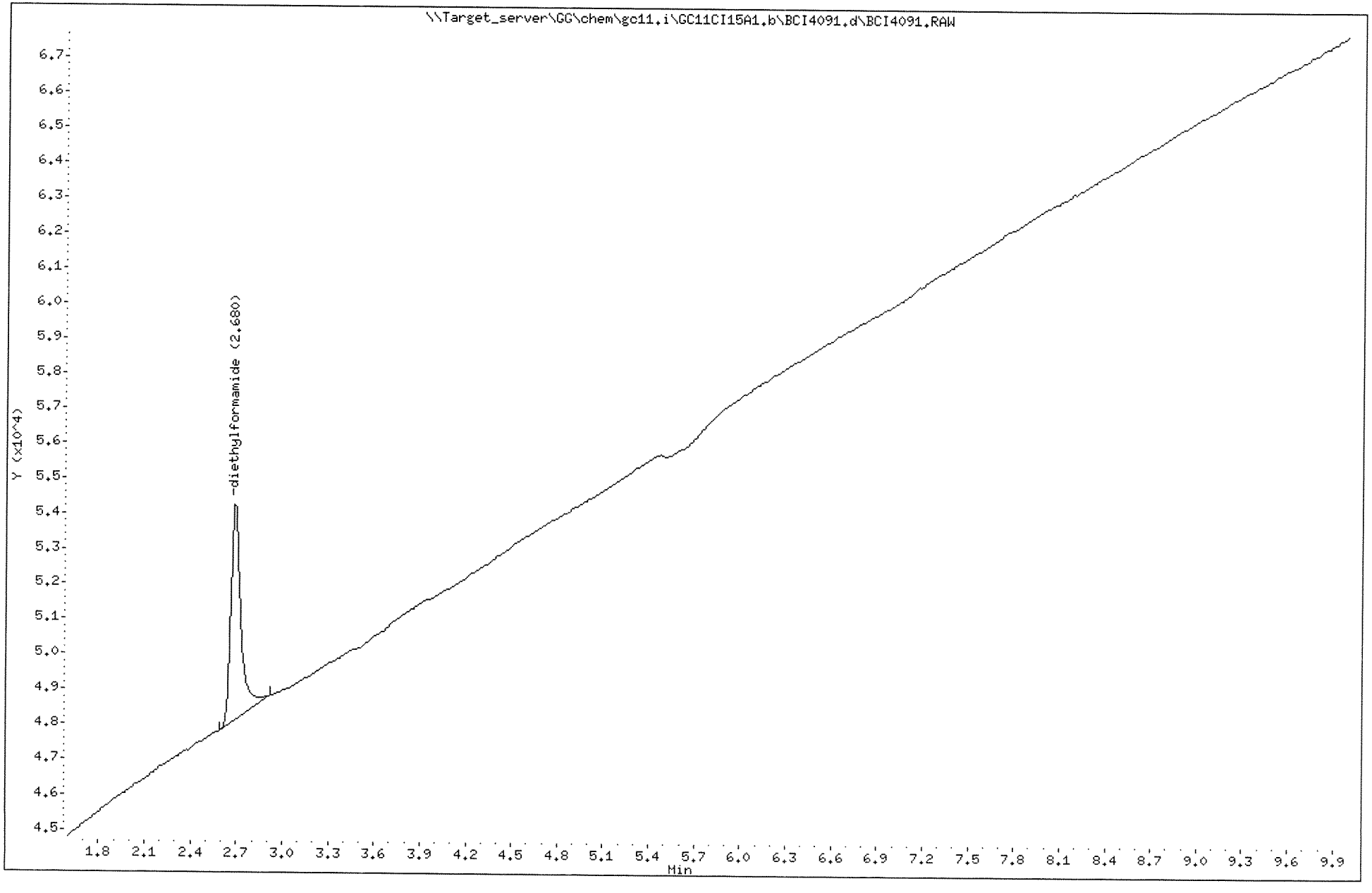
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4091.d
Date : 15-SEP-2009 13:52
Client ID: OC-EBK-005
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5104-10RA
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000063

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/31/09
Received Date: 09/02/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 11:37
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 87.3

Lab ID: SC5141-1
Client ID: OC-SB-442-0.0/1.0-X
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.50	1.0	0.80	0.50	0.50
	diethylformamide		136%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4163.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4163.d
Lab Smp Id: SC5141-1 Client Smp ID: OC-SB-442-0.0/1.0-X
Inj Date : 16-SEP-2009 11:37
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,SC5141-1
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

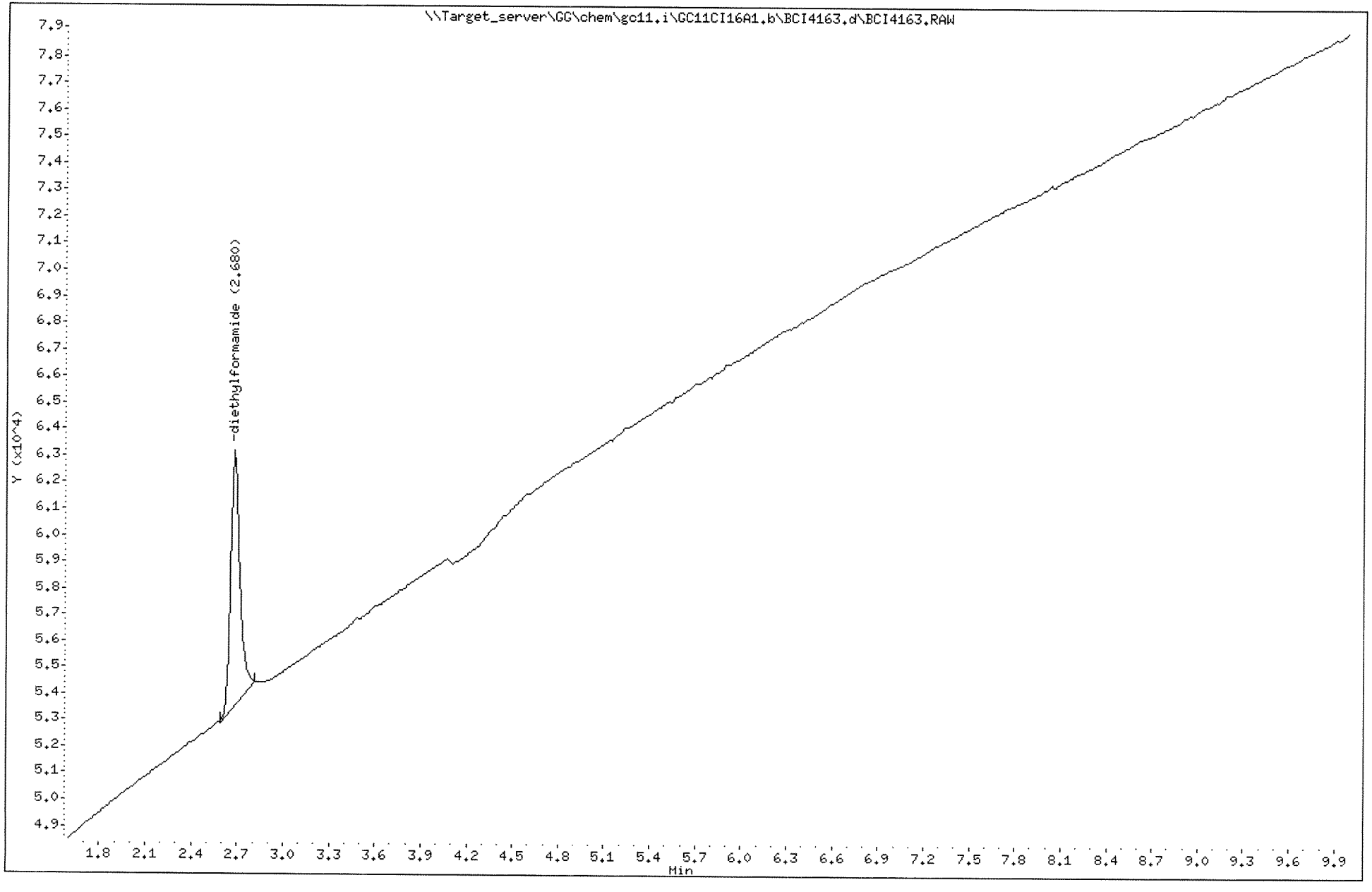
Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00182	Sample Weight
M	12.700	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	39892	0.67760	17.0	

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4163.d
Date : 16-SEP-2009 11:37
Client ID: OC-SB-442-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI16A1.B,1,SC5141-1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000066

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/31/09
Received Date: 09/02/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 11:51
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 93.6

Lab ID: SC5141-2
Client ID: OC-SB-442-8.0/10-DU
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.47	1.0	0.80	0.47	0.47
	diethylformamide		*139%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4164.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4164.d
Lab Smp Id: SC5141-2 Client Smp ID: OC-SB-442-8.0/10-DU
Inj Date : 16-SEP-2009 11:51
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,SC5141-2
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00182	Sample Weight
M	6.341	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	41107	0.69519	16.3(RM)	M5

JLP 092109

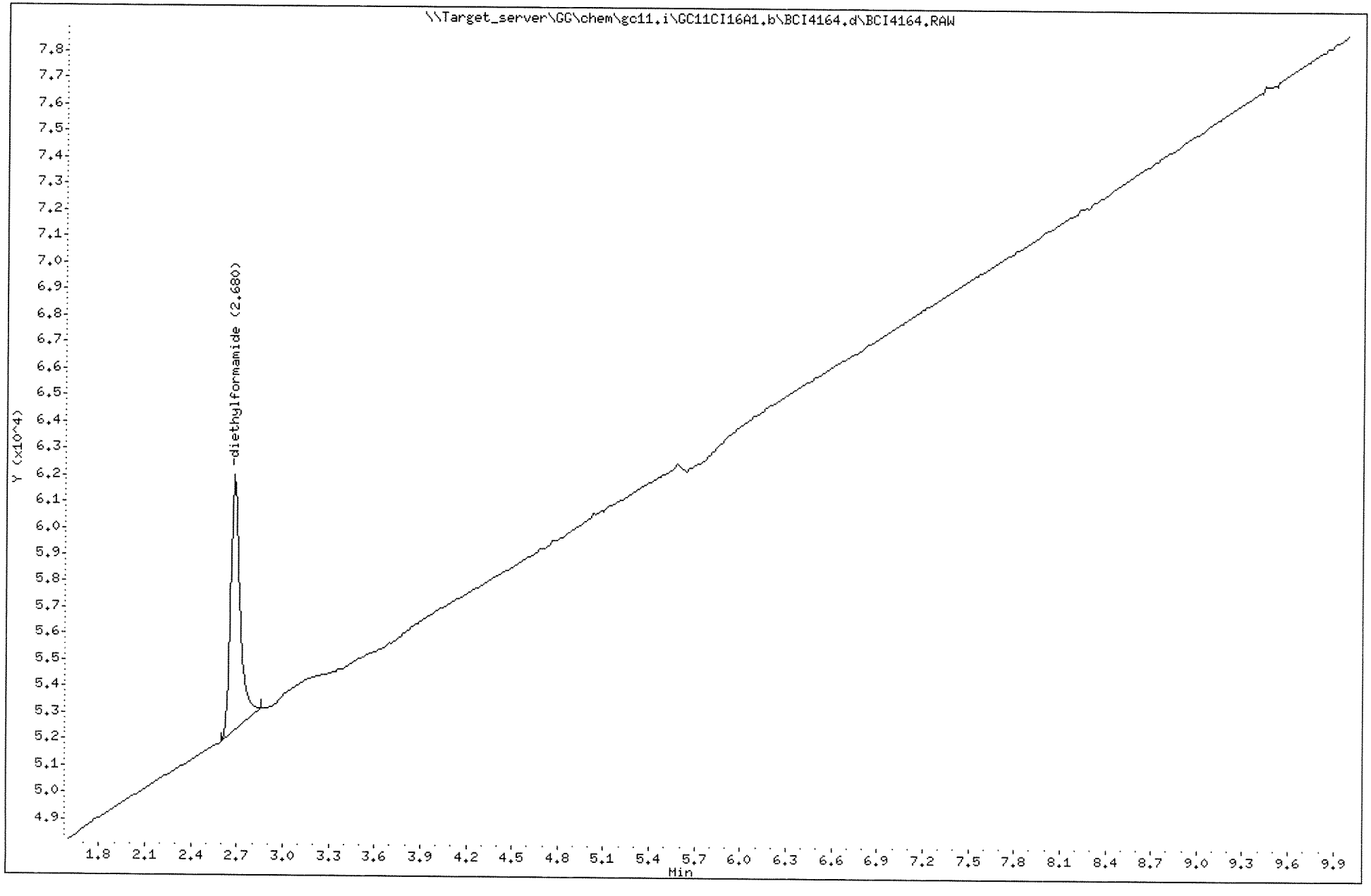
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI16A1.b\BCI4164.d
Date : 16-SEP-2009 11:51
Client ID: OC-SB-442-8.0/10-DU
Sample Info: DMFB038A.M,GC11CI16A1.B,1,SC5141-2
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000069

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/31/09
Received Date: 09/02/09
Extraction Date: 09/08/09
Analysis Date: 16-SEP-2009 12:05
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 87.8

Lab ID: SC5141-3
Client ID: SB-442-8.0/10-XX
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.58	1.0	0.80	0.58	0.58
	diethylformamide		*141%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4165.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4165.d
Lab Smp Id: SC5141-3 Client Smp ID: SB-442-8.0/10-XX
Inj Date : 16-SEP-2009 12:05
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,SC5141-3
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00158	Sample Weight
M	12.242	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	41682	0.70352	20.3(R)	

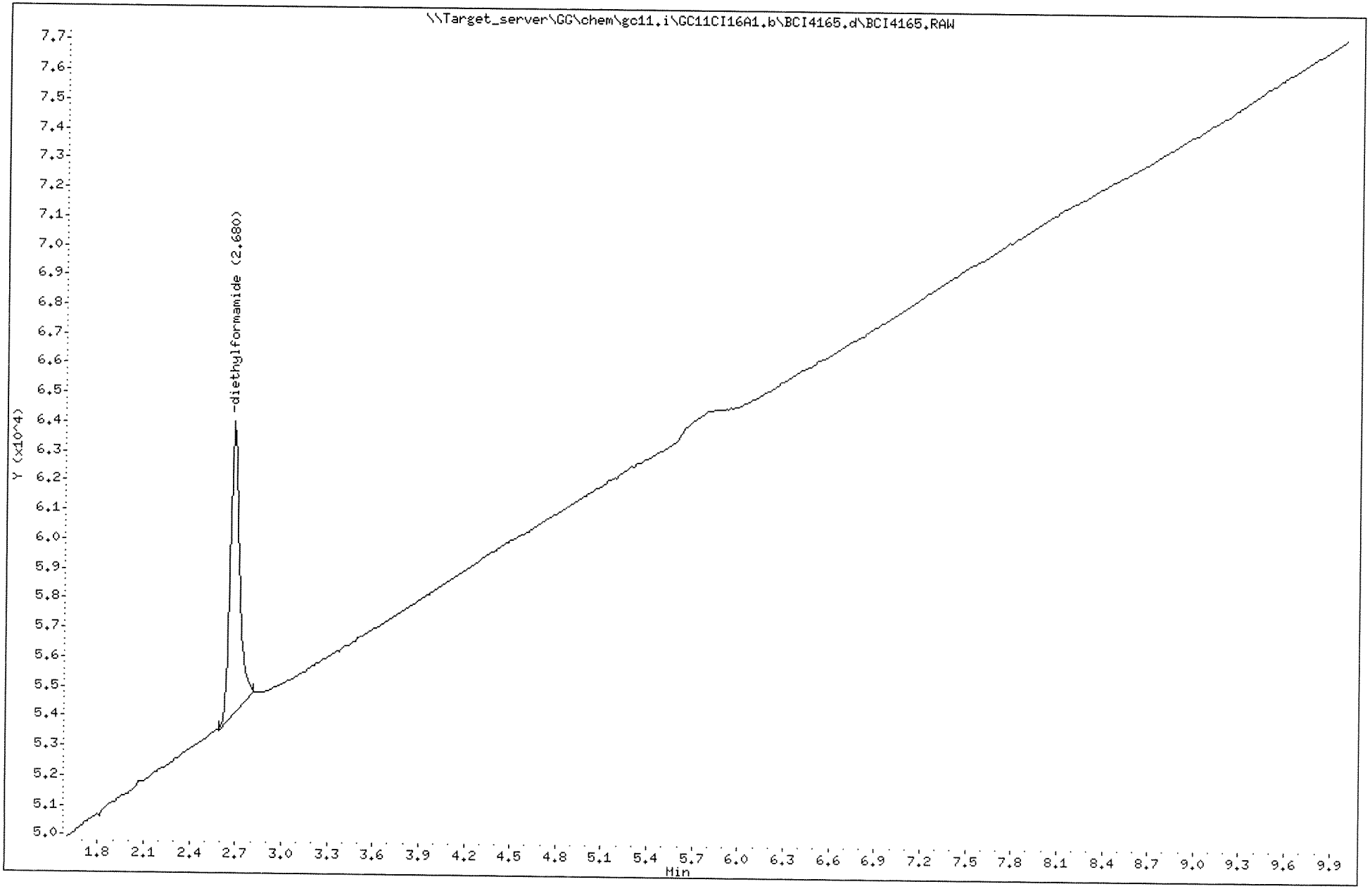
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI16A1.b\BCI4165.d
Date : 16-SEP-2009 12:05
Client ID: SB-442-8.0/10-XX
Sample Info: DMFB038A.M,GC11CI16A1.B,1,SC5141-3
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000072

Standards Data Section

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date(s): 09/15/09 09/15/09

Column: ZB-WAX ID: 0.53 (mm) Calibration Time(s): 0936 1143

LAB FILE ID: RF0.02: BCI4073 RF0.05: BCI4074 RF0.1: BCI4075
RF0.25: BCI4077 RF0.5: BCI4079 RF1: BCI4082

COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
dimethylformamide	921	1500	3764	12201	24415	55088	LINR	2.106e-002	1.811e-005	0.99669	0.99000
diethylformamide	13241	25644	58420	154630	276360		LINR	9.989e-002	1.448e-005	0.99576	0.99000

FORM VI DMF

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4073.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4073.d
Lab Smp Id: ICAL 0.02
Inj Date : 15-SEP-2009 09:36
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.02
Misc Info :
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:36 Cal File: BCI4073.RAW
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.973	1.960	0.013	921	0.02000	0.0377(M)	M5
$ 2 diethylformamide	2.693	2.680	0.013	13241	0.25000	0.292(M)	

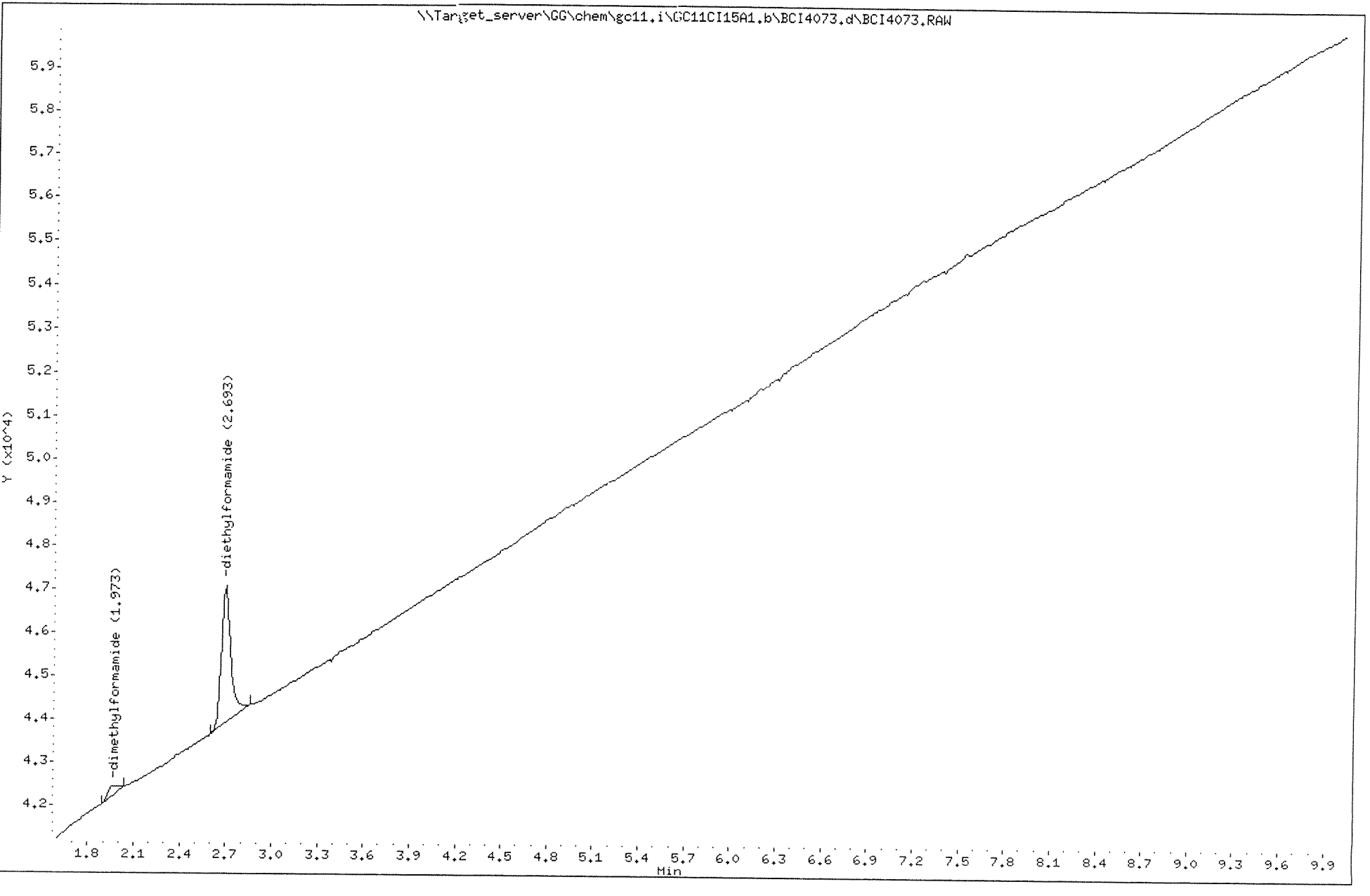
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4073.d
Date : 15-SEP-2009 09:36
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 0.02
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000076

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4074.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4074.d
Lab Smp Id: ICAL 0.05
Inj Date : 15-SEP-2009 09:50
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.05
Misc Info :
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.973	1.960	0.013	1500	0.05000	0.0482(M)	M5
$ 2 diethylformamide	2.693	2.680	0.013	25644	0.50000	0.471(M)	

JLP 09/16/09

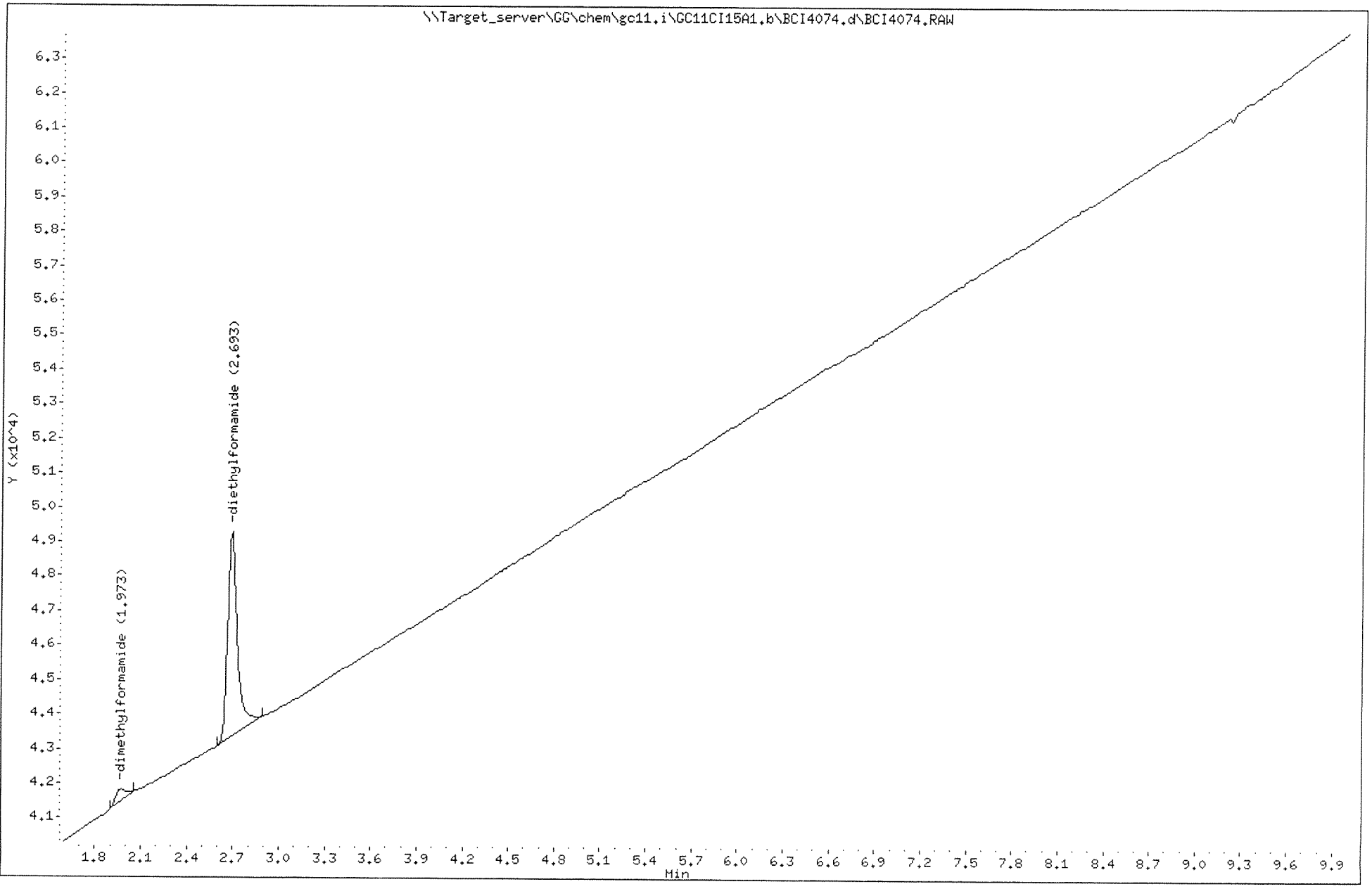
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4074.d
Date : 15-SEP-2009 09:50
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 0.05
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000078

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4075.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4075.d
Lab Smp Id: ICAL 0.1
Inj Date : 15-SEP-2009 10:04
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.1
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 10:04 Cal File: BCI4075.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.973	1.960	0.013	3764	0.10000	0.102(M)	M5
$ 2 diethylformamide	2.693	2.680	0.013	58420	1.00000	1.02(M)	

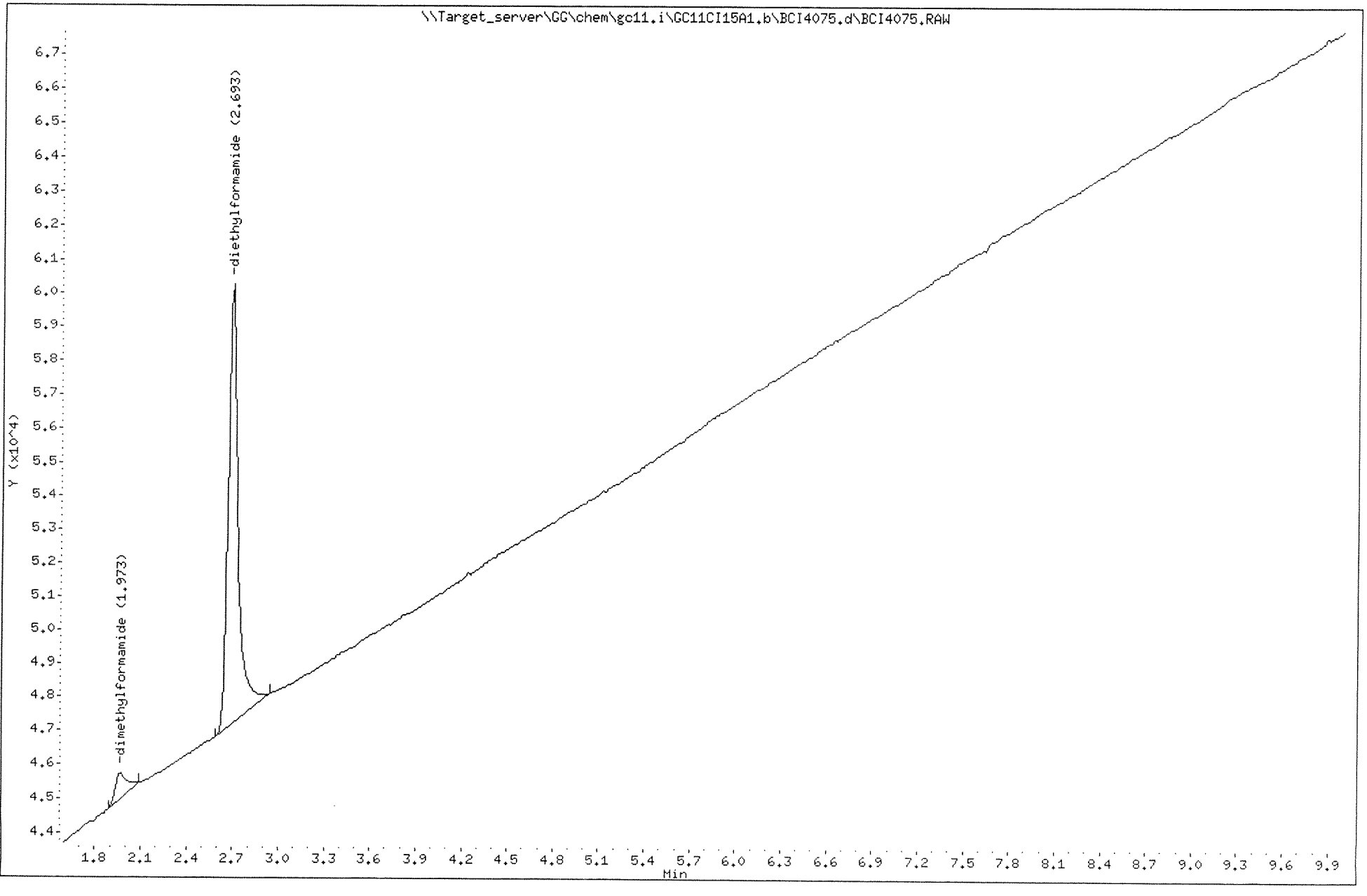
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4075.d
Date : 15-SEP-2009 10:04
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 0.1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000080

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4077.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4077.d
Lab Smp Id: ICAL 0.25
Inj Date : 15-SEP-2009 10:32
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.25
Misc Info :
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 10:32 Cal File: BCI4077.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

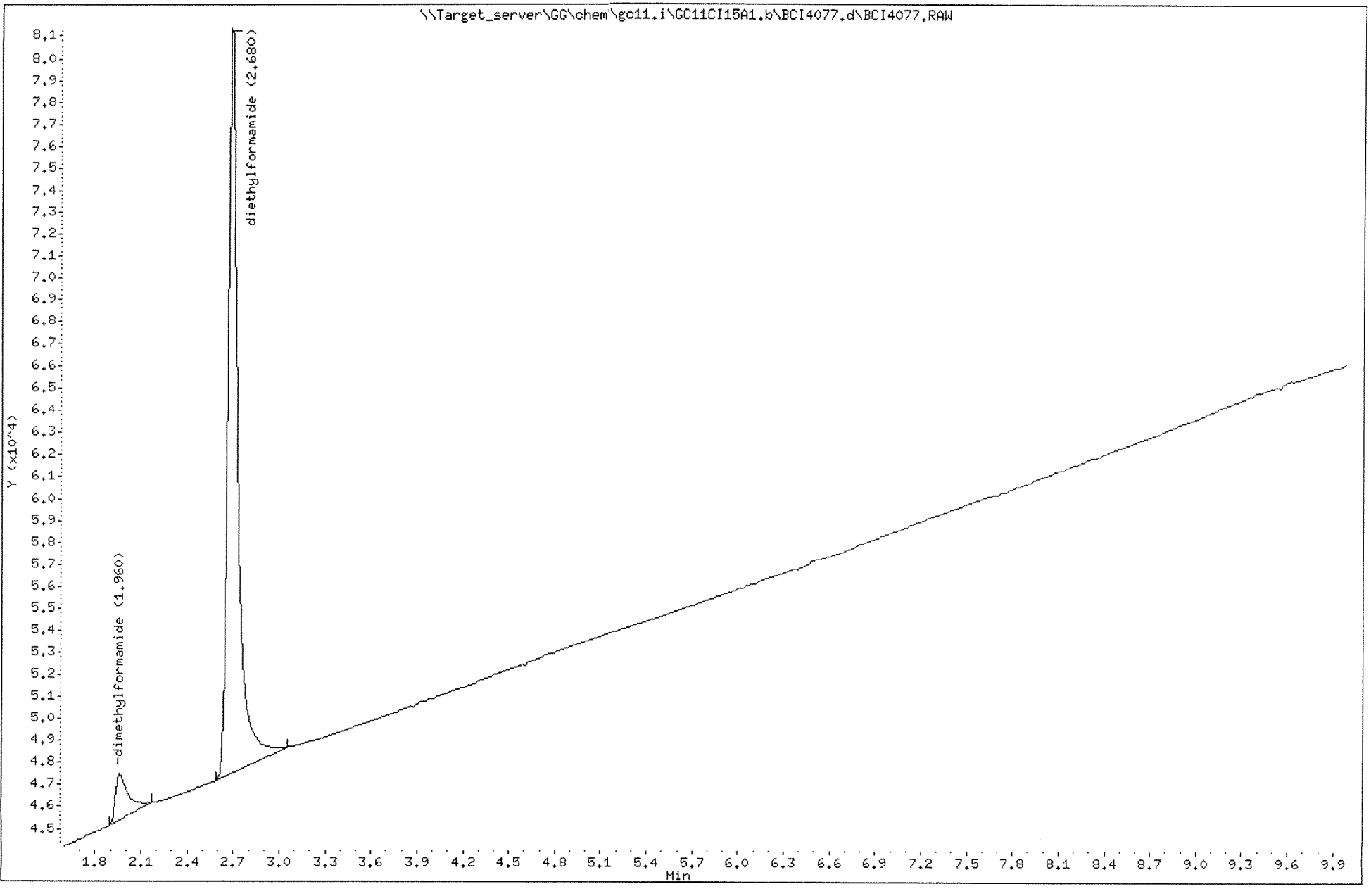
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	12201	0.25000	0.255(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	154631	2.50000	2.34(M)	

JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4077.d
Date : 15-SEP-2009 10:32
Client ID:
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1,B,1,ICAL 0.25
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000082

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4079.d
Lab Smp Id: ICAL 0.5
Inj Date : 15-SEP-2009 11:01
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.5
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:01 Cal File: BCI4079.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

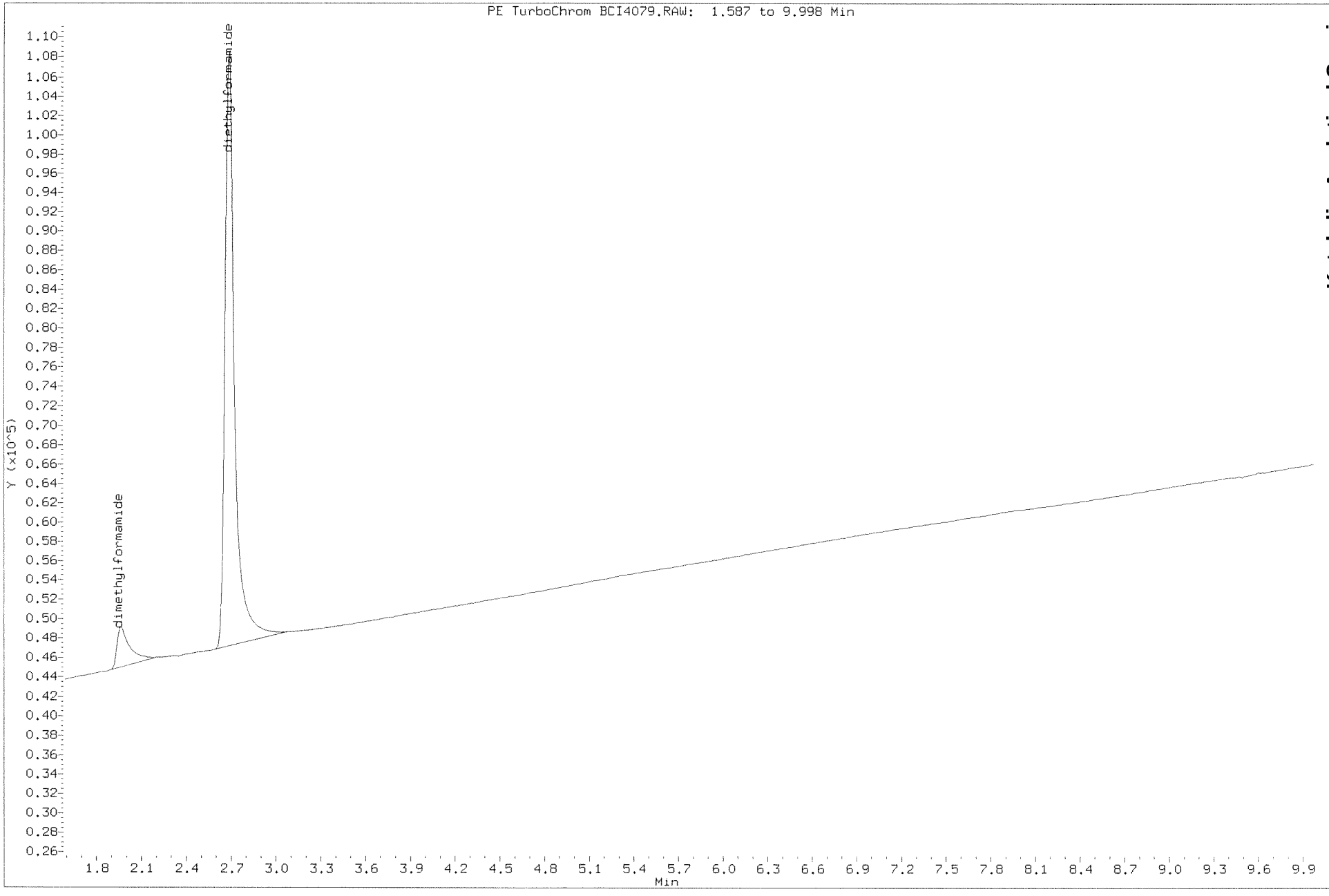
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	24415	0.50000	0.500(M)	M5
$ 2 diethylformamide	2.693	2.680	0.013	276361	4.00000	4.10(AM)	

JLP 091609

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4079.d/BCI4079.RAW
Injection Date: 15-SEP-2009 11:01
Instrument: gc11.i
Client Sample ID:



Katahdin Analytical Services 1000084

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4082.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4082.d
Lab Smp Id: ICAL 1.0
Inj Date : 15-SEP-2009 11:43
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 1.0
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

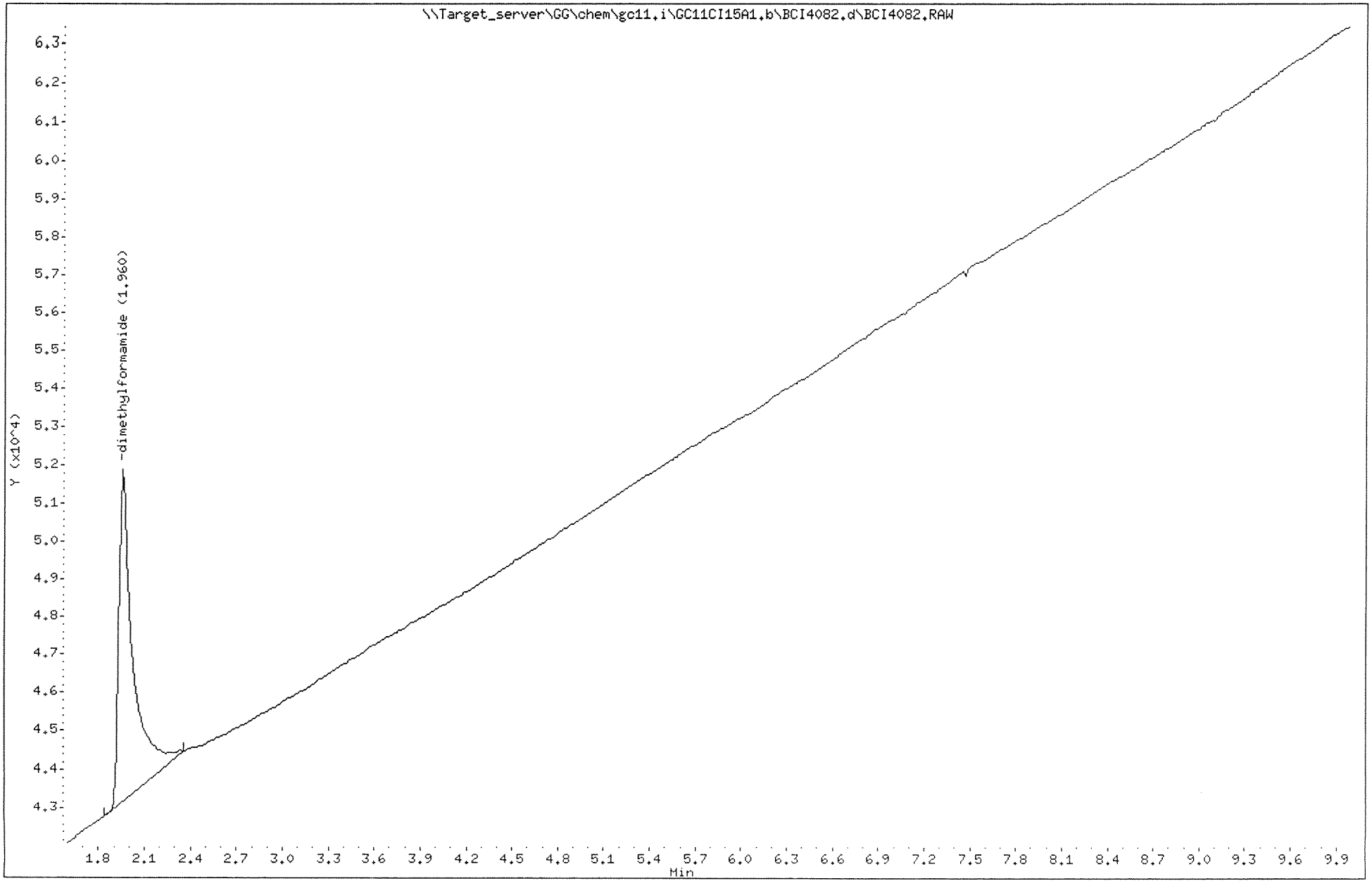
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	55088	1.00000	1.02(AM)	M5

JLP 09/16/09

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4082.d
Date : 15-SEP-2009 11:43
Client ID:
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 1.0
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000086

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 1435

Lab File ID: BCI4094 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2084400	0.2500000	41392.000	0.01	-16.62	25.00	LINR
diethylformamide	2.4826000	2.5000000	65813.000	0.01	-0.70	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4094.d
Report Date: 21-Sep-2009 11:04

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4094.d
Lab Smp Id: CV 0.25
Inj Date : 15-SEP-2009 14:35
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	10348	0.25000	0.208(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	164533	2.50000	2.48(M)	

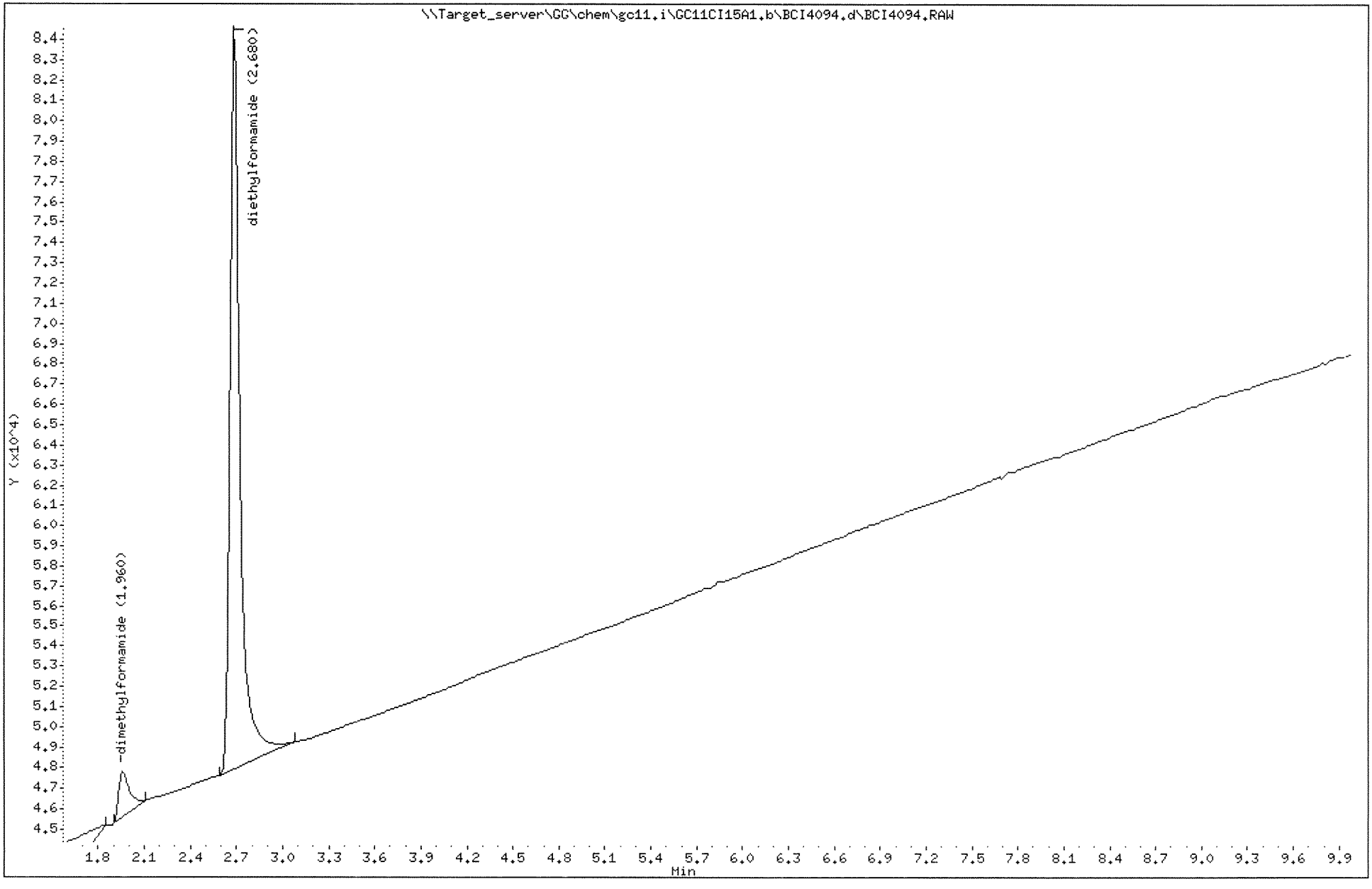
JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4094.d
Date : 15-SEP-2009 14:35
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000089

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 2131

Lab File ID: BCI4123 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2403800	0.2500000	48448.000	0.01	-3.85	25.00	LINR
diethylformamide	2.4312000	2.5000000	64393.000	0.01	-2.75	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4123.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4123.d
Lab Smp Id: CV 0.25
Inj Date : 15-SEP-2009 21:31
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

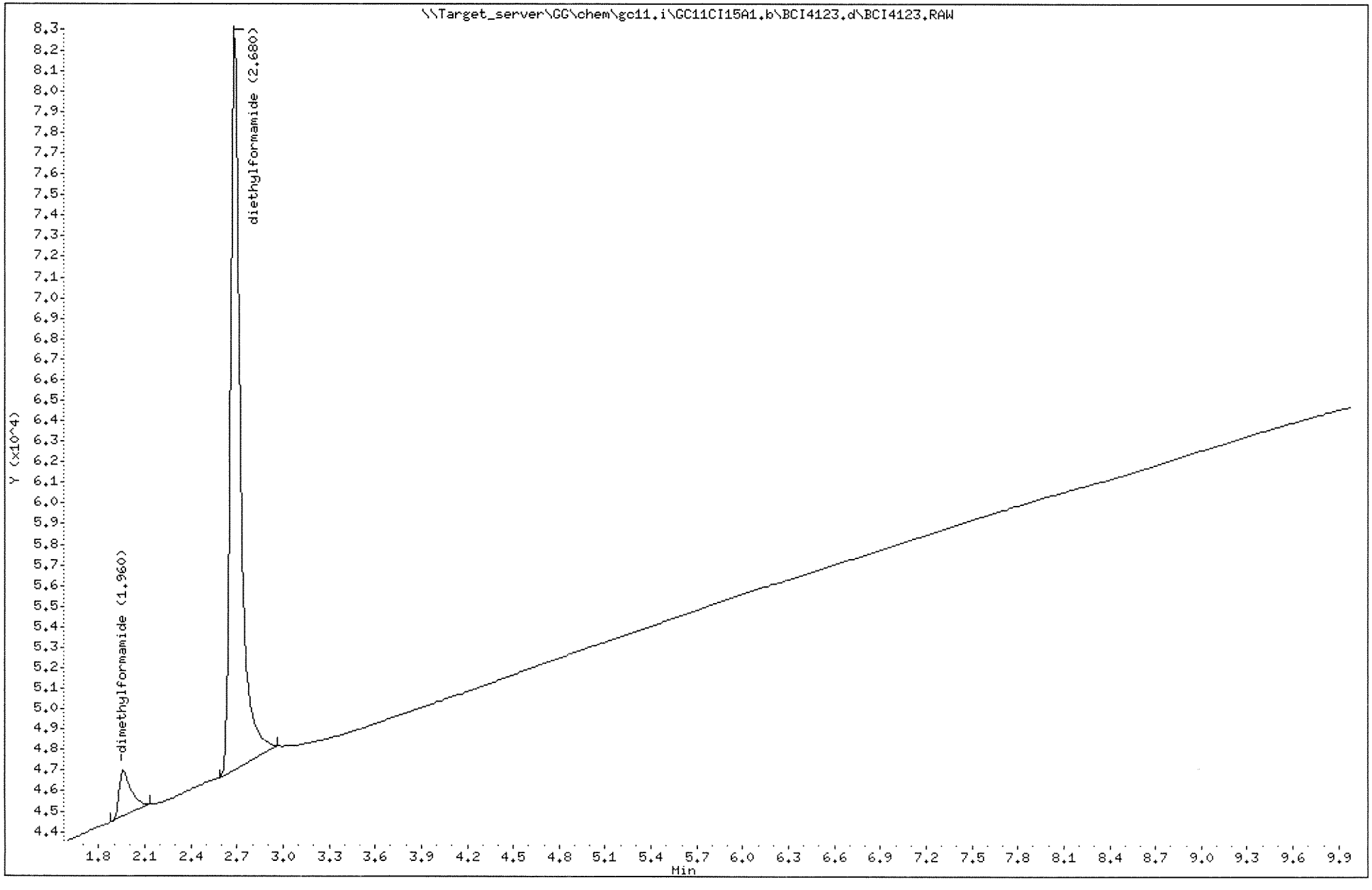
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	12112	0.25000	0.240(M)	
$ 2 diethylformamide	2.680	2.680	0.000	160983	2.50000	2.43(M)	M5

JP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4123.d
Date : 15-SEP-2009 21:31
Client ID:
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000092

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 0049

Lab File ID: BCI4137 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2405300	0.2500000	48480.000	0.01	-3.79	25.00	LINR
diethylformamide	2.5117000	2.5000000	66617.000	0.01	0.47	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4137.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4137.d
Lab Smp Id: CV 0.25
Inj Date : 16-SEP-2009 00:49
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

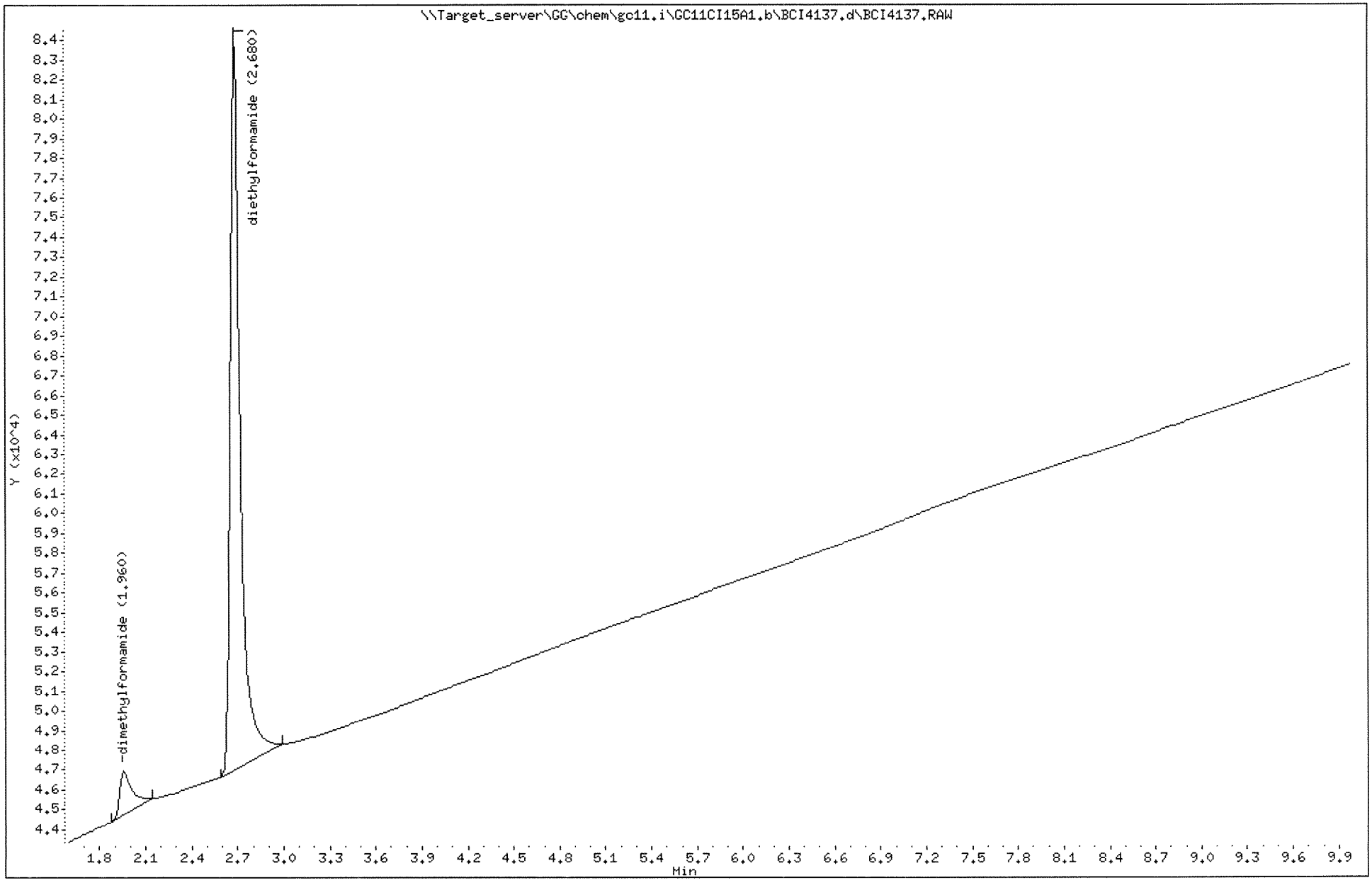
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	12120	0.25000	0.240(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	166542	2.50000	2.51(M)	

JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4137.d
Date : 16-SEP-2009 00:49
Client ID:
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000095

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 0340

Lab File ID: BCI4149 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2407500	0.2500000	48528.000	0.01	-3.70	25.00	LINR
diethylformamide	2.6390000	2.5000000	70133.000	0.01	5.56	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4149.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4149.d
Lab Smp Id: CV 0.25
Inj Date : 16-SEP-2009 03:40
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	12132	0.25000	0.241(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	175333	2.50000	2.64(M)	

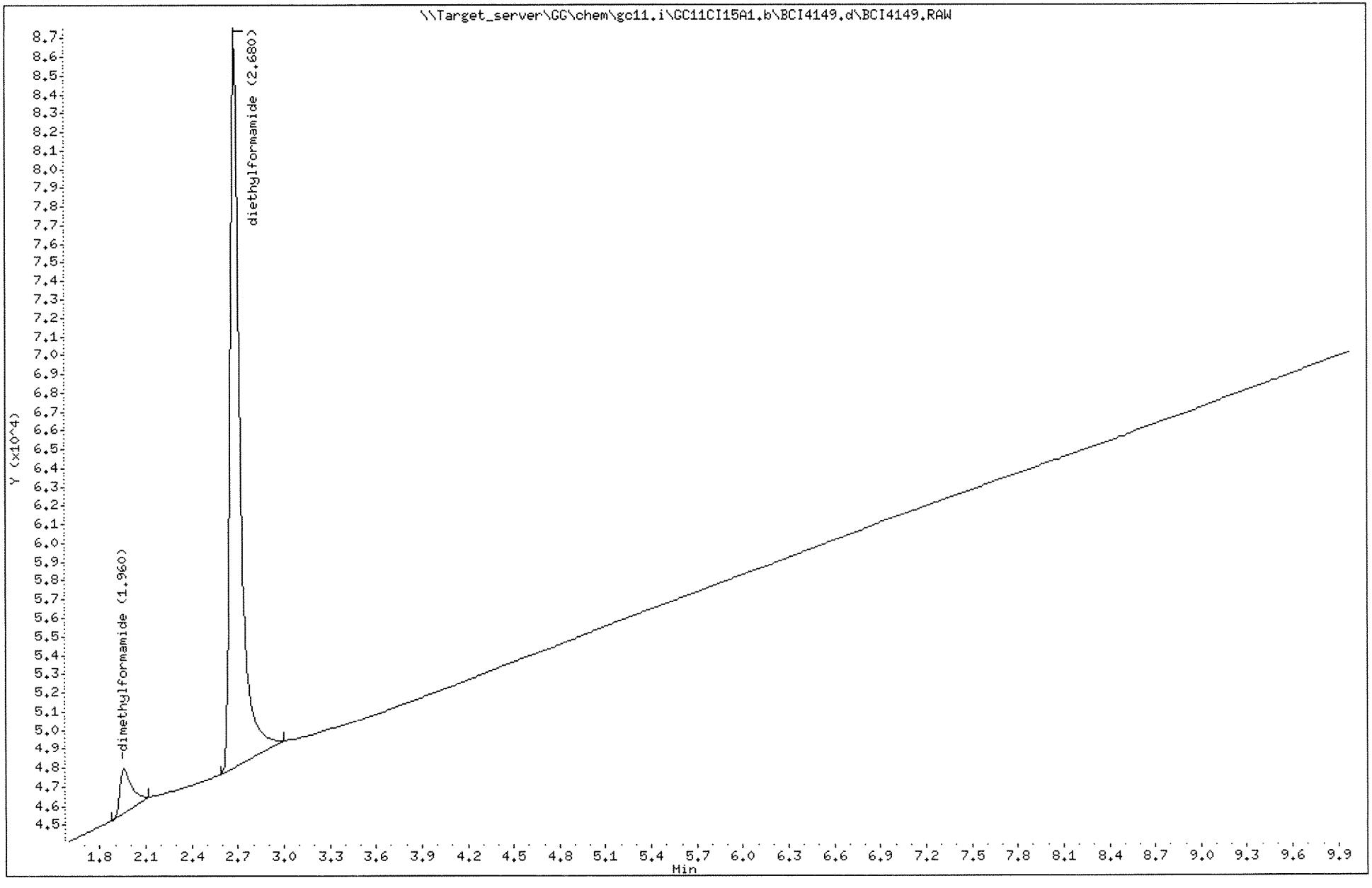
JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4149.d
Date : 16-SEP-2009 03:40
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000098

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 1109

Lab File ID: BCI4161 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.3005000	0.2500000	61728.000	0.01	20.20	25.00	LINR
diethylformamide	3.0672000	2.5000000	81960.000	0.01	22.69	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4161.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4161.d
Lab Smp Id: CV 0.25
Inj Date : 16-SEP-2009 11:09
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI16A1.B\DMFB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	15432	0.25000	0.300(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	204900	2.50000	3.07(M)	

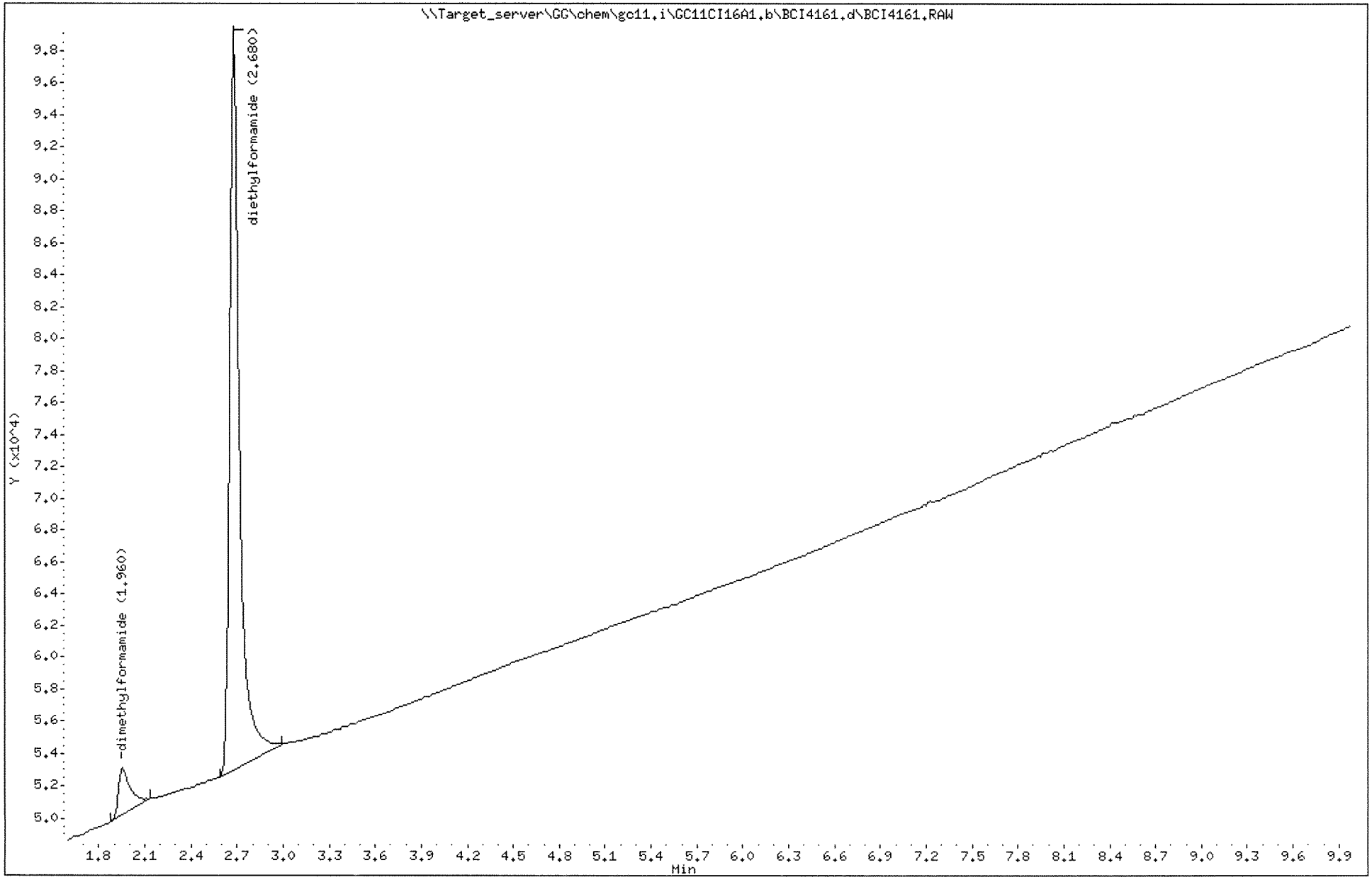
JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4161.d
Date : 16-SEP-2009 11:09
Client ID:
Sample Info: DMFB038A.M,GC11CI16A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000101

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-4

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 1508

Lab File ID: BCI4178 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
dimethylformamide	0.3251100	0.2500000	67164.000	0.01	30.04	25.00	LINR	<-
diethylformamide	3.6491000	2.5000000	98032.000	0.01	45.96	25.00	LINR	<-

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4178.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4178.d
Lab Smp Id: CV 0.25
Inj Date : 16-SEP-2009 15:08
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI16A1.B\DMFB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	16791	0.25000	0.325(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	245080	2.50000	3.65(M)	

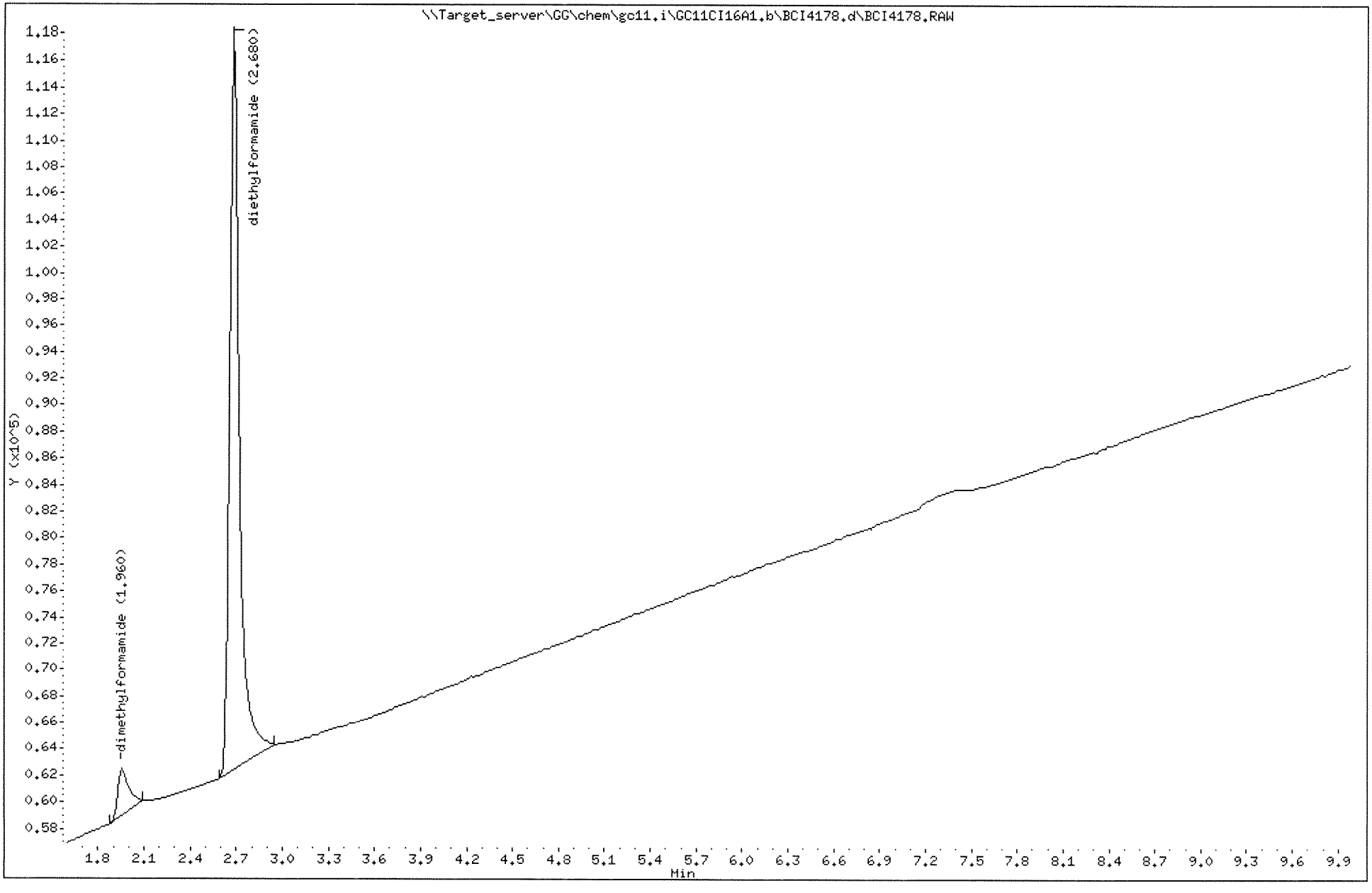
JB 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI16A1.b\BCI4178.d
Date : 16-SEP-2009 15:08
Client ID:
Sample Info: DMFB038A.M,GC11CI16A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000104

Raw QC Data Section

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 15-SEP-2009 12:42
Report Date: 09/21/2009
Matrix: WATER
% Solids: NA

Lab ID: WG68660-1
Client ID: WG68660-Blank
SDG: WIL-4
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68660
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		90%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4086.d
Report Date: 21-Sep-2009 11:04

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4086.d
Lab Smp Id: WG68660-1 Client Smp ID: WG68660-Blank
Inj Date : 15-SEP-2009 12:42
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68660-1
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
$ 2 diethylformamide	2.693	2.680	0.013	24048	0.44815	0.448(M)	M5

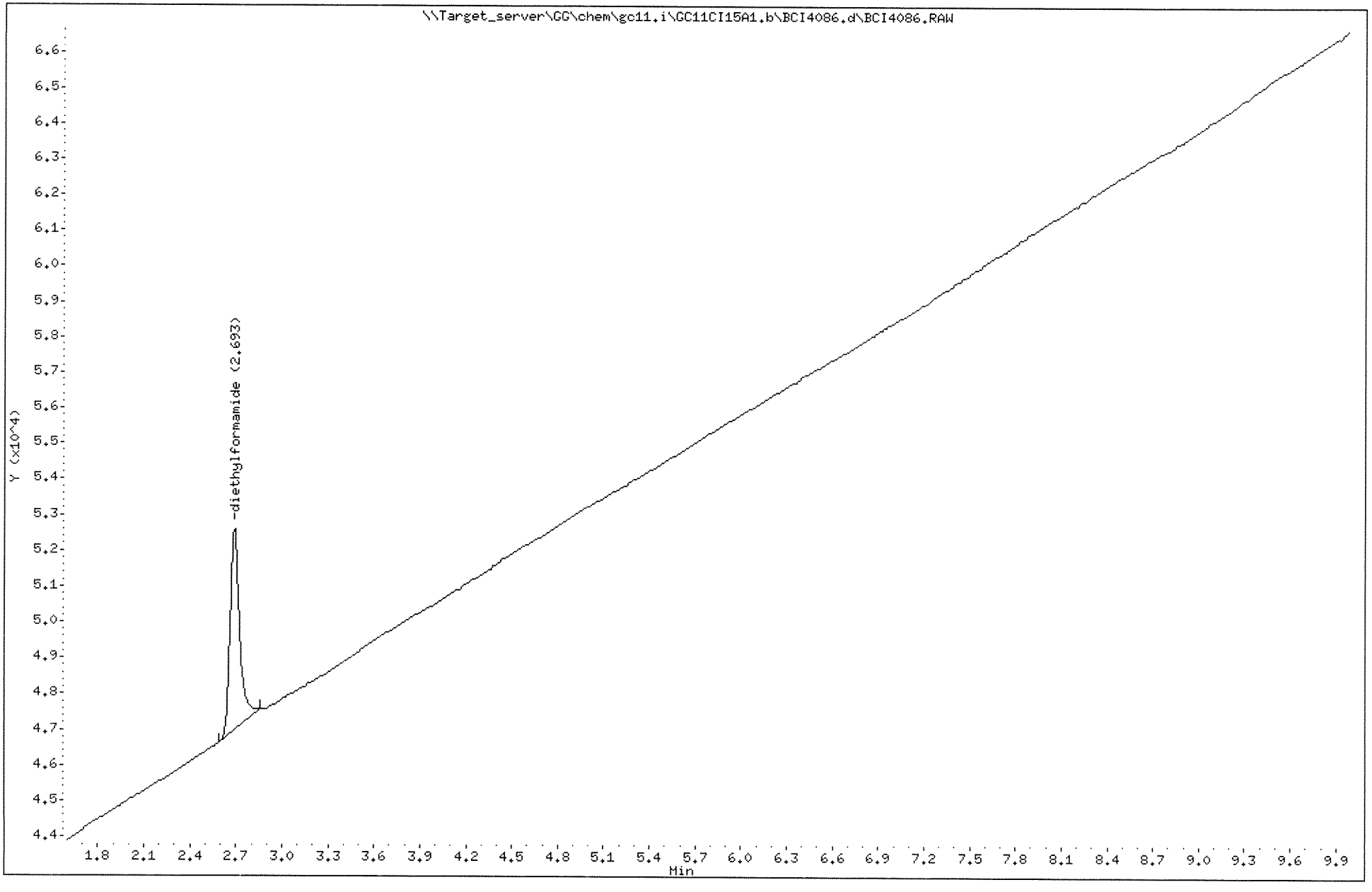
JWP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4086.d
Date : 15-SEP-2009 12:42
Client ID: WG68660-Blank
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68660-1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000108

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 09/08/09
Analysis Date: 15-SEP-2009 22:13
Report Date: 09/21/2009
Matrix: SOIL
% Solids: 100

Lab ID: WG68398-1
Client ID: WG68398-Blank
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.80	1.0	0.80	0.80	0.80
	diethylformamide		109%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4126.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4126.d
Lab Smp Id: WG68398-1 Client Smp ID: WG68398-Blank
Inj Date : 15-SEP-2009 22:13
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68398-1
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00100	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

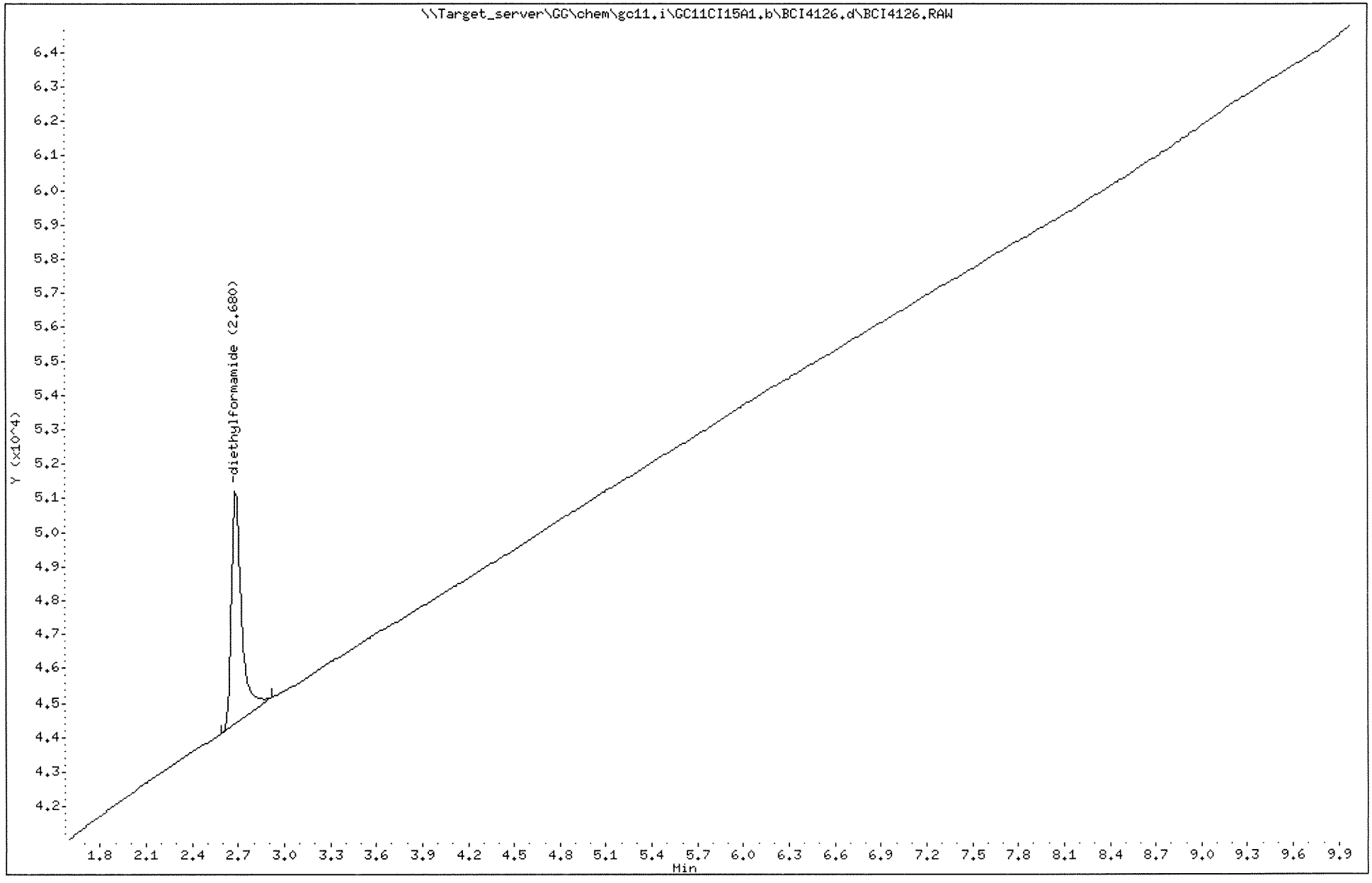
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	30852	0.54668	21.9(M)	M5

JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4126.d
Date : 15-SEP-2009 22:13
Client ID: WG68398-Blank
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68398-1
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000111

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/15/09
Report Date: 09/21/2009
Matrix: WATER

Lab ID: WG68660-2 & WG68660-3
Client ID: WG68660-LCS & WG68660-LCSD
SDG: WIL-4
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68660
Units: mg/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	0.10	0.10	NA	0.08	0.08	78	85	9	30	70-130

FORM III DMF-1

BCI4087.d & BCI4089.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4087.d
Report Date: 21-Sep-2009 11:04

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4087.d
Lab Smp Id: WG68660-2 Client Smp ID: WG68660-LCS
Inj Date : 15-SEP-2009 12:56
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68660-2
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	3152	0.07814	0.0781(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	32476	0.57020	0.570(M)	

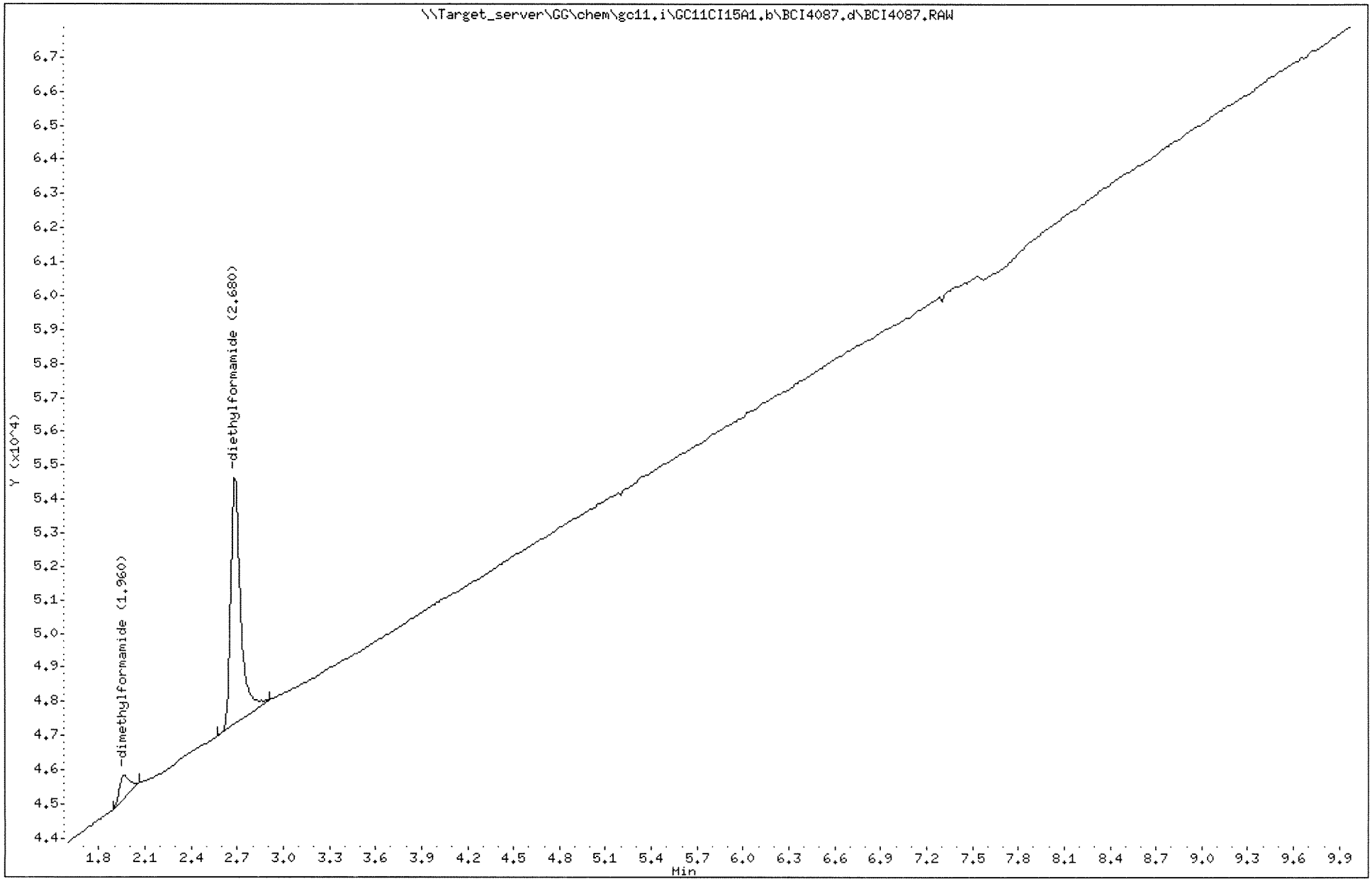
JP
092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4087.d
Date : 15-SEP-2009 12:56
Client ID: WG68660-LCS
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68660-2
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000114

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4089.d
Report Date: 21-Sep-2009 11:04

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4089.d
Lab Smp Id: WG68660-3 Client Smp ID: WG68660-LCSD
Inj Date : 15-SEP-2009 13:24
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68660-3
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	3542	0.08520	0.0852(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	33320	0.58242	0.582(M)	

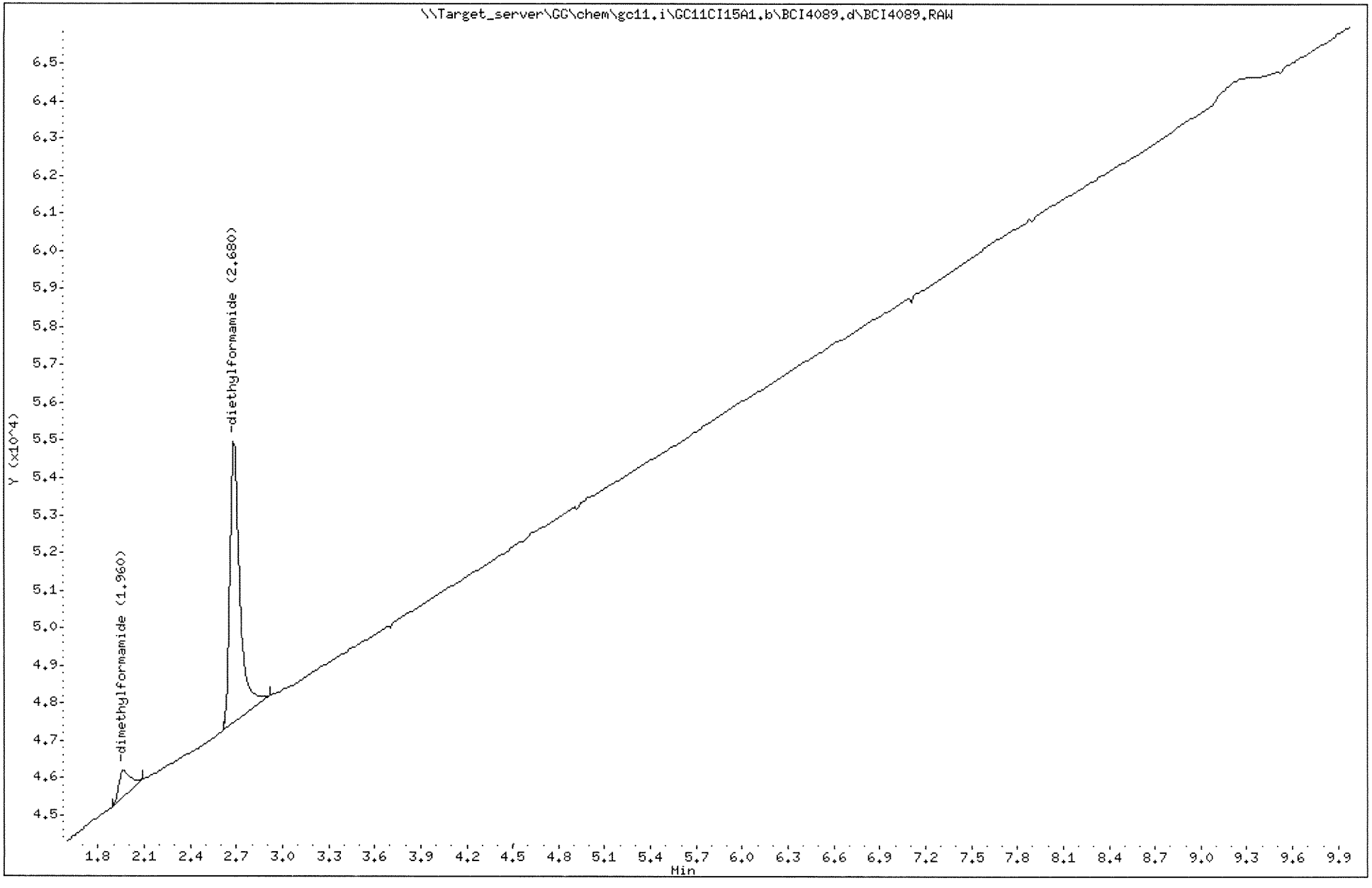
JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4089.d
Date : 15-SEP-2009 13:24
Client ID: WG68660-LCSD
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68660-3
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000116

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 09/08/09
Analysis Date: 09/15/09
Report Date: 09/21/2009
Matrix: SOIL

Lab ID: WG68398-2 & WG68398-3
Client ID: WG68398-LCS & WG68398-LCSD
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	10	10	NA	9.4	8.6	94	86	9	50	70-130

FORM III DMF-2

BCI4127.d & BCI4129.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4127.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4127.d
Lab Smp Id: WG68398-2 Client Smp ID: WG68398-LCS
Inj Date : 15-SEP-2009 22:27
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68398-2
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00100	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

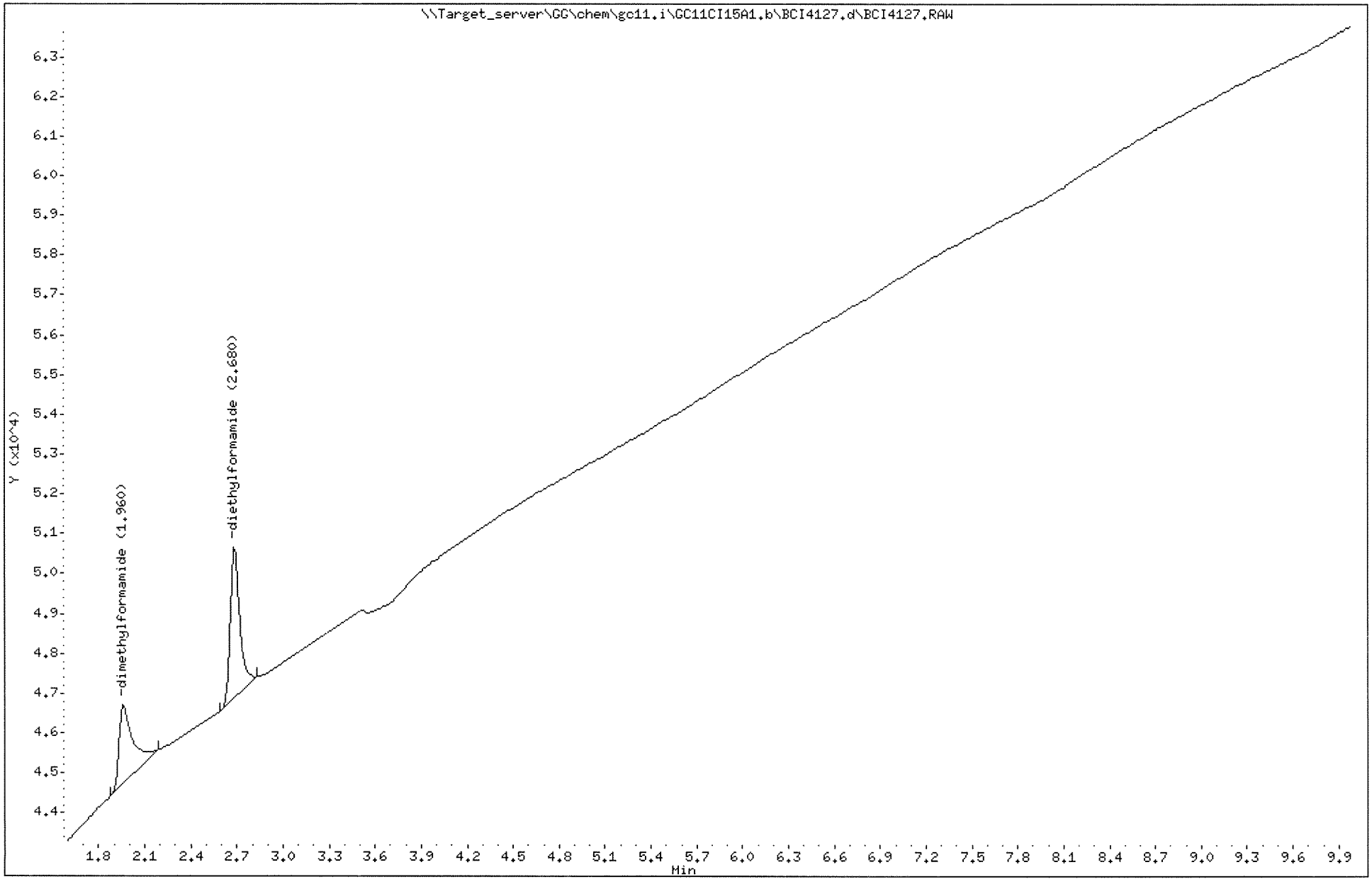
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	11762	0.23405	9.36(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	15897	0.33011	13.2(M)	

JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4127.d
Date : 15-SEP-2009 22:27
Client ID: WG68398-LCS
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68398-2
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000119

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4129.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4129.d
Lab Smp Id: WG68398-3 Client Smp ID: WG68398-LCSD
Inj Date : 15-SEP-2009 22:56
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68398-3
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00100	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

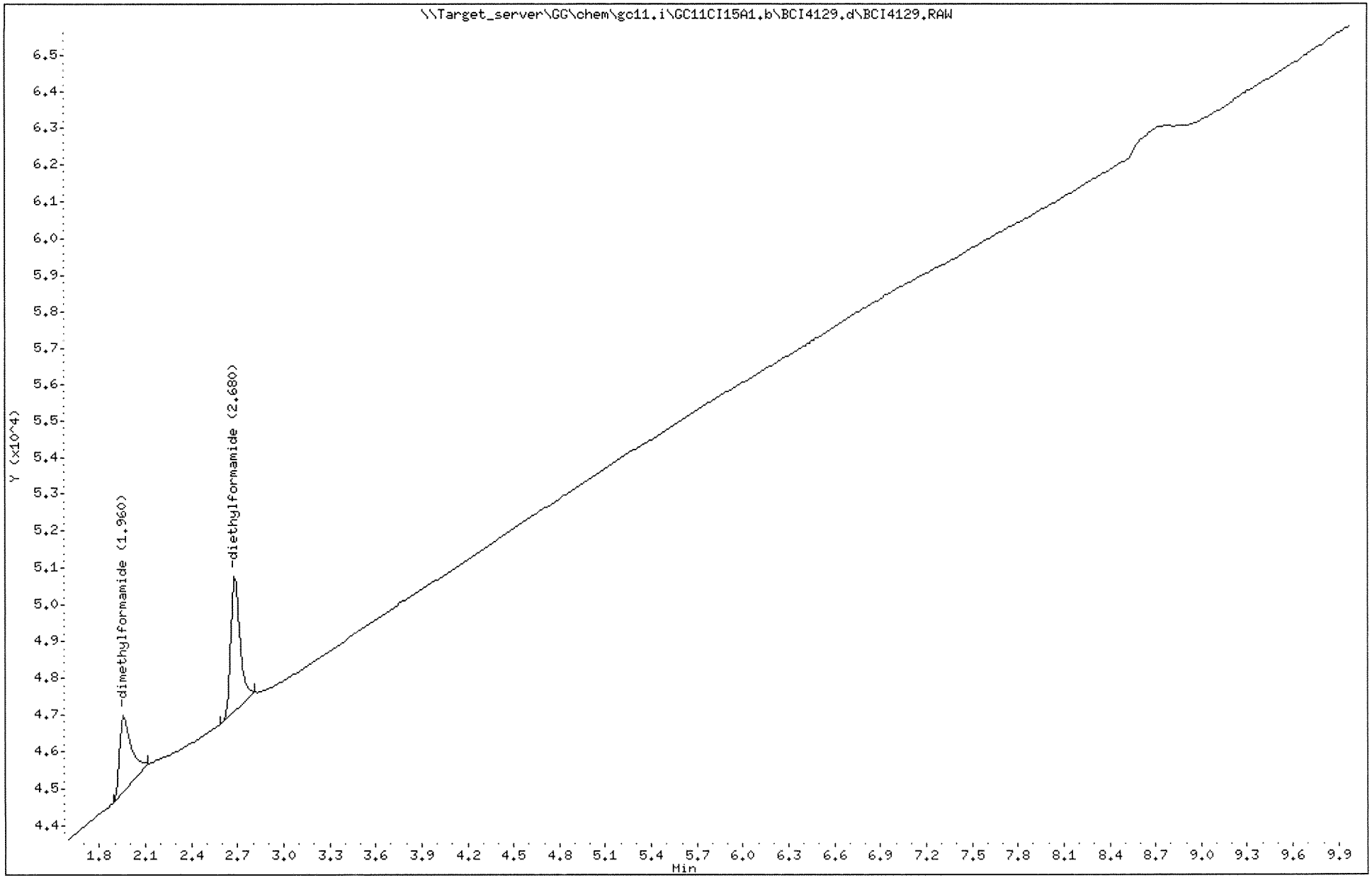
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	10649	0.21389	8.56(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	15348	0.32216	12.9(M)	

JLP 092109

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4129.d
Date : 15-SEP-2009 22:56
Client ID: WG68398-LCSD
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68398-3
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000121

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/27/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 09/16/09
Report Date: 09/21/2009
Matrix: SOIL

Lab ID: WG68398-4 & WG68398-5
Client ID: SB-410-6.0/8.0-XMS & SB-41O-6.0/8.0-XMSD
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	8.7	10	0.00	9.2	11	106	110	17	50	70-130

FORM III DMF-2

BCI4166.d & BCI4168.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4166.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4166.d
Lab Smp Id: WG68398-4 Client Smp ID: SB-410-6.0/8.0-XMS
Inj Date : 16-SEP-2009 12:19
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68398-4
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00138	Sample Weight
M	16.678	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	13492	0.26537	9.23(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	19376	0.38049	13.2(R)	

JLP 092109

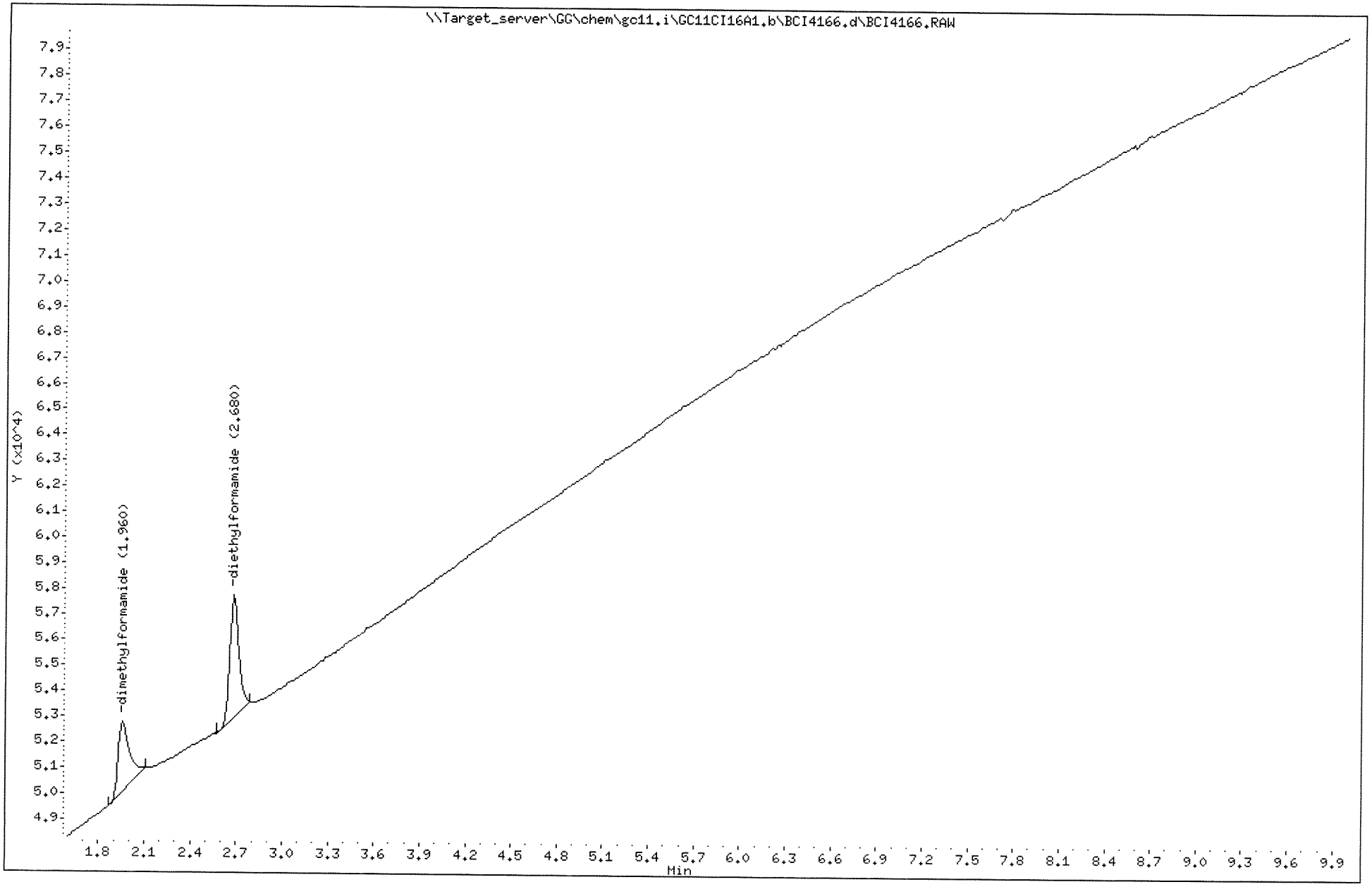
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4166.d
Date : 16-SEP-2009 12:19
Client ID: SB-410-6.0/8.0-XMS
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68398-4
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000124

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4168.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4168.d
Lab Smp Id: WG68398-5 Client Smp ID: SB-410-6.0/8.0-XMSD
Inj Date : 16-SEP-2009 12:48
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68398-5
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00120	Sample Weight
M	16.678	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	14003	0.27463	11.0(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	19516	0.38252	15.3(R)	

JP 092109

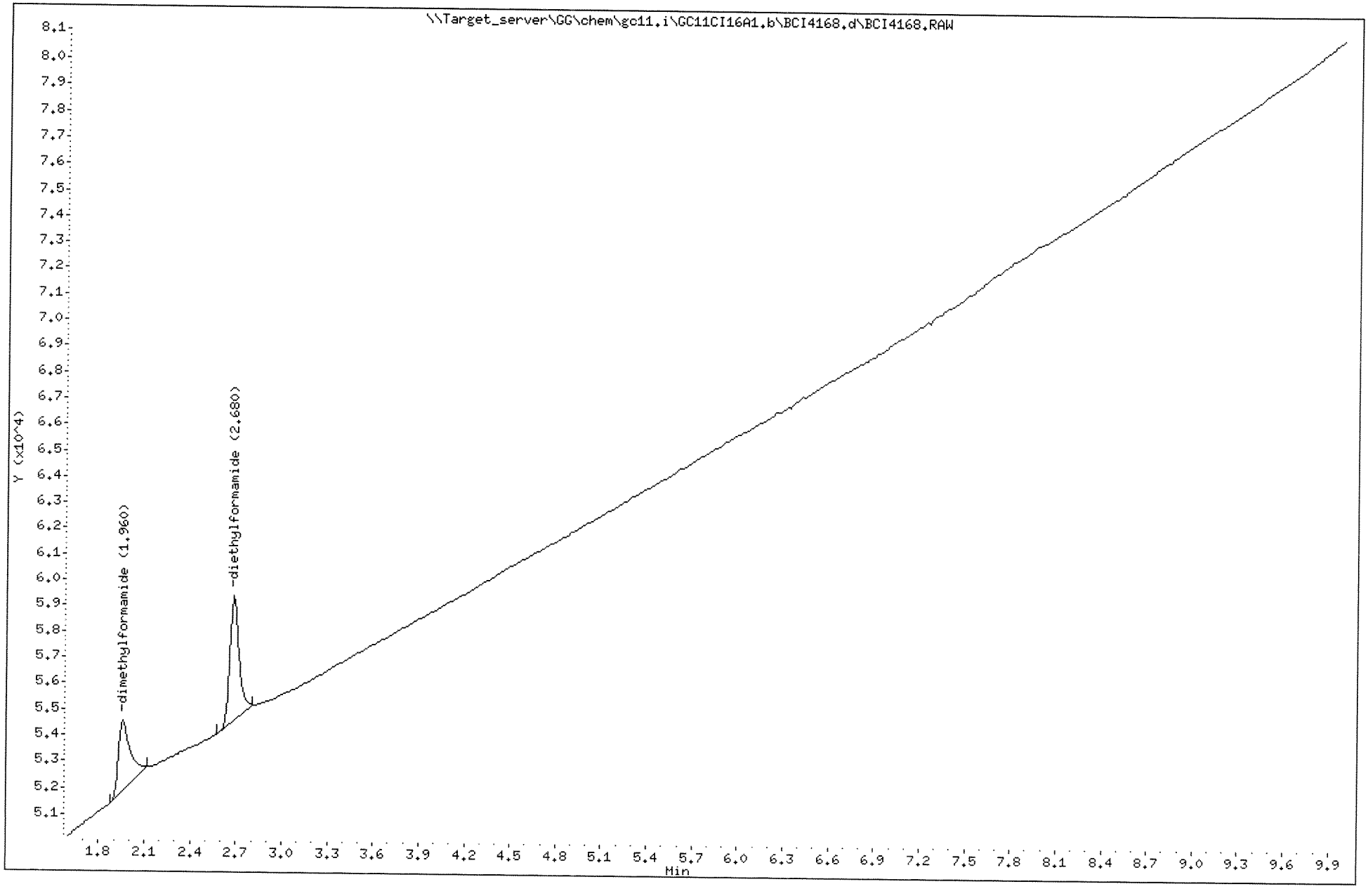
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4168.d
Date : 16-SEP-2009 12:48
Client ID: SB-410-6.0/8.0-XMSD
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68398-5
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000126

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/28/09
Received Date: 08/29/09
Extraction Date: 09/08/09
Analysis Date: 09/16/09
Report Date: 09/21/2009
Matrix: SOIL

Lab ID: WG68398-6 & WG68398-7
Client ID: SB-451-2.5/4.5-XMS & SB-451-2.5/4.5-XMSD
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	8.0	8.6	0.00	10	10	126	119	1.0	50	70-130

FORM III DMF-2

BCI4170.d & BCI4172.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4170.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4170.d
Lab Smp Id: WG68398-6 Client Smp ID: SB-451-2.5/4.5-XMS
Inj Date : 16-SEP-2009 13:16
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68398-6
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00130	Sample Weight
M	4.330	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	16202	0.31445	10.1(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	23132	0.43488	14.0(RM)	

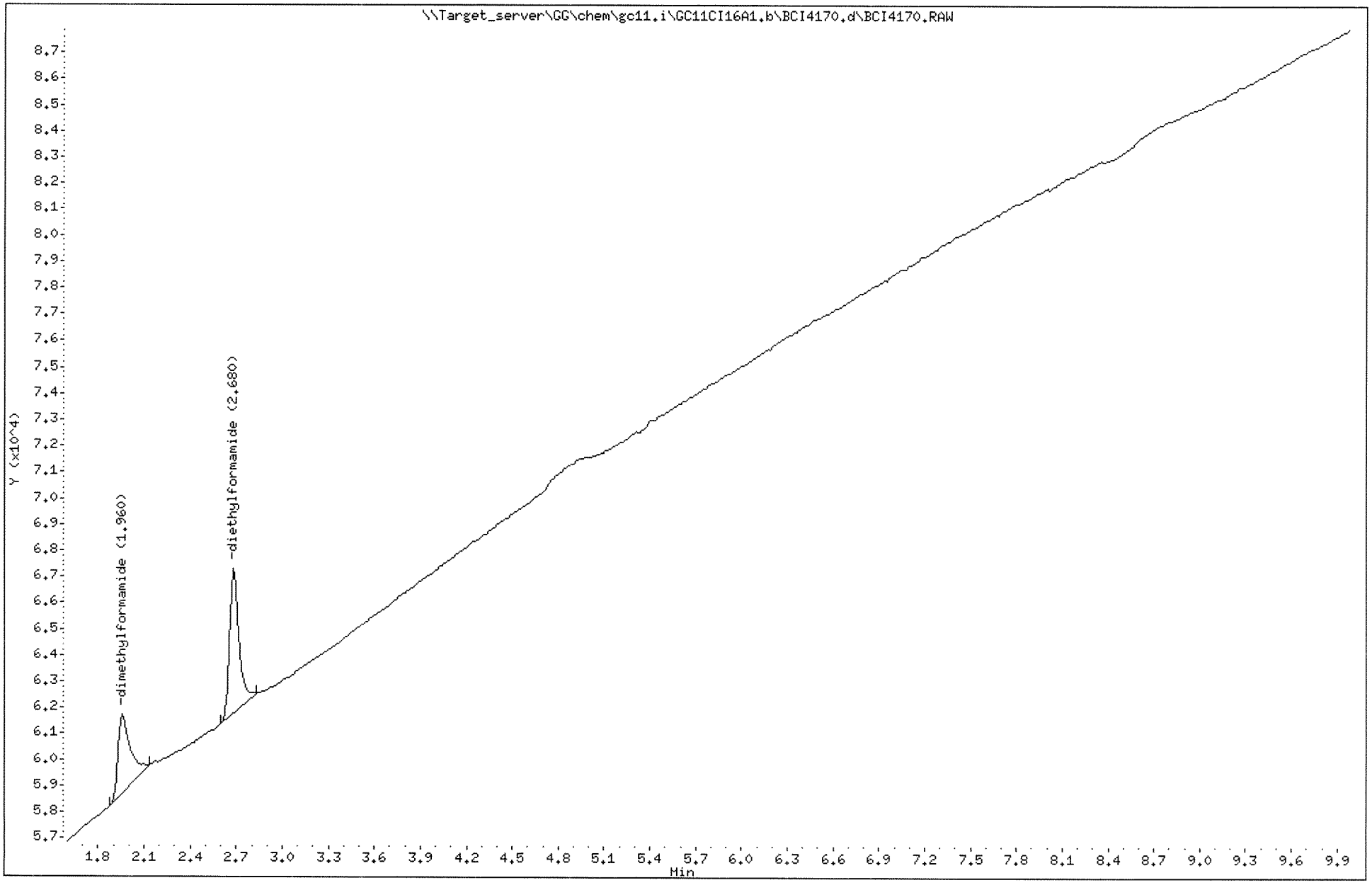
JB 092109

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4170.d
Date : 16-SEP-2009 13:16
Client ID: SB-451-2.5/4.5-XMS
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68398-6
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000129

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4172.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4172.d
Lab Smp Id: WG68398-7 Client Smp ID: SB-451-2.5/4.5-XMSD
Inj Date : 16-SEP-2009 13:44
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68398-7
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00122	Sample Weight
M	4.330	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	15342	0.29887	10.2(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	22781	0.42980	14.7(RM)	

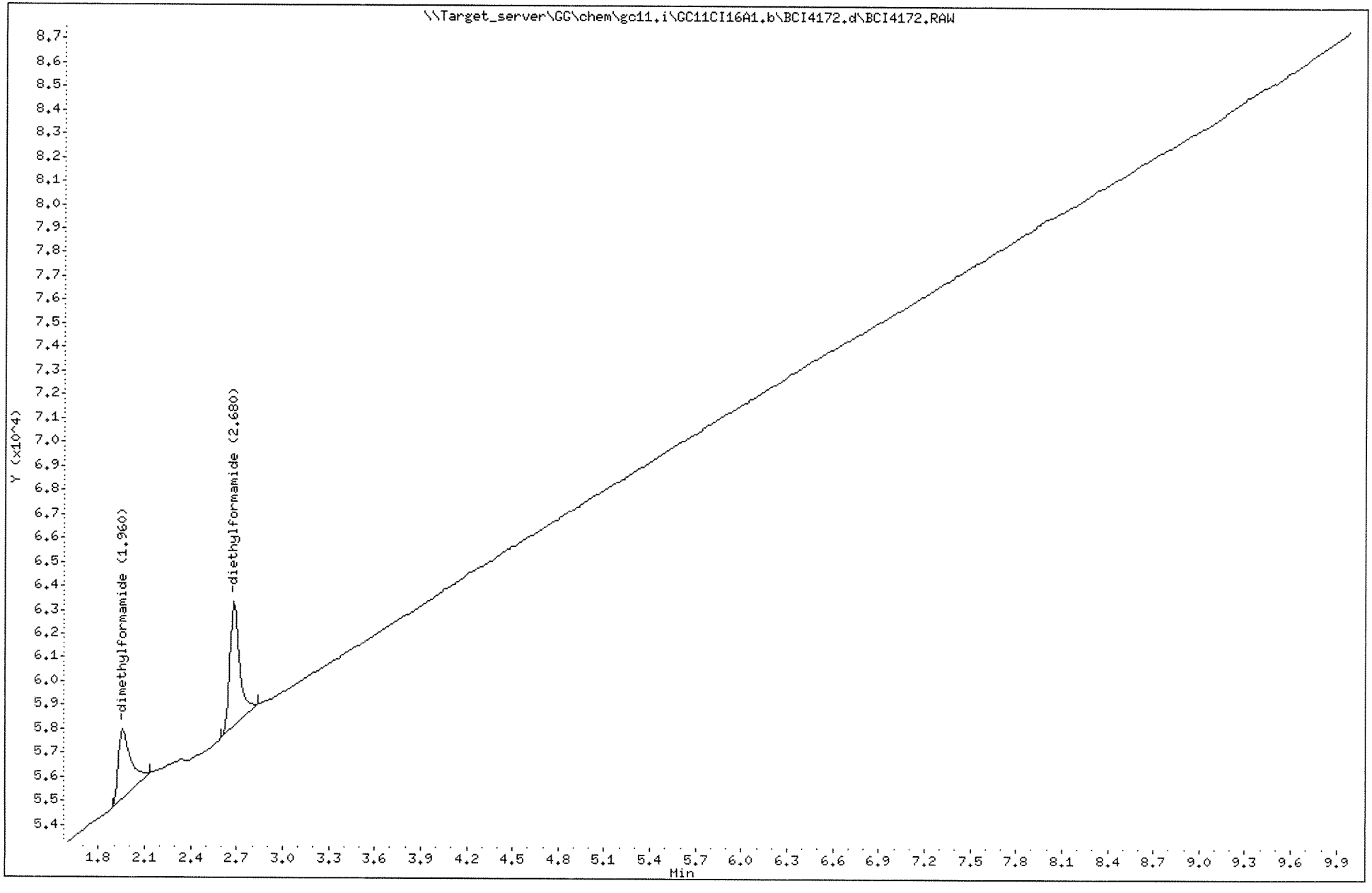
JLP 09/21/09

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4172.d
Date : 16-SEP-2009 13:44
Client ID: SB-451-2.5/4.5-XMSD
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68398-7
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000131

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/31/09
Received Date: 09/02/09
Extraction Date: 09/08/09
Analysis Date: 09/16/09
Report Date: 09/21/2009
Matrix: SOIL

Lab ID: WG68398-8 & WG68398-9
Client ID: SB-442-8.0/10-XXMS & SB-442-8.0/10-XXMSD
SDG: WIL-4
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68398
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	6.0	6.5	0.00	7.6	8.0	127	122	5	50	70-130

FORM III DMF-2

BCI4174.d & BCI4176.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4174.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4174.d
Lab Smp Id: WG68398-8 Client Smp ID: SB-442-8.0/10-XXMS
Inj Date : 16-SEP-2009 14:12
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68398-8
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00191	Sample Weight
M	12.700	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	16365	0.31740	7.61(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	21956	0.41785	10.0(RM)	

JLP 092109

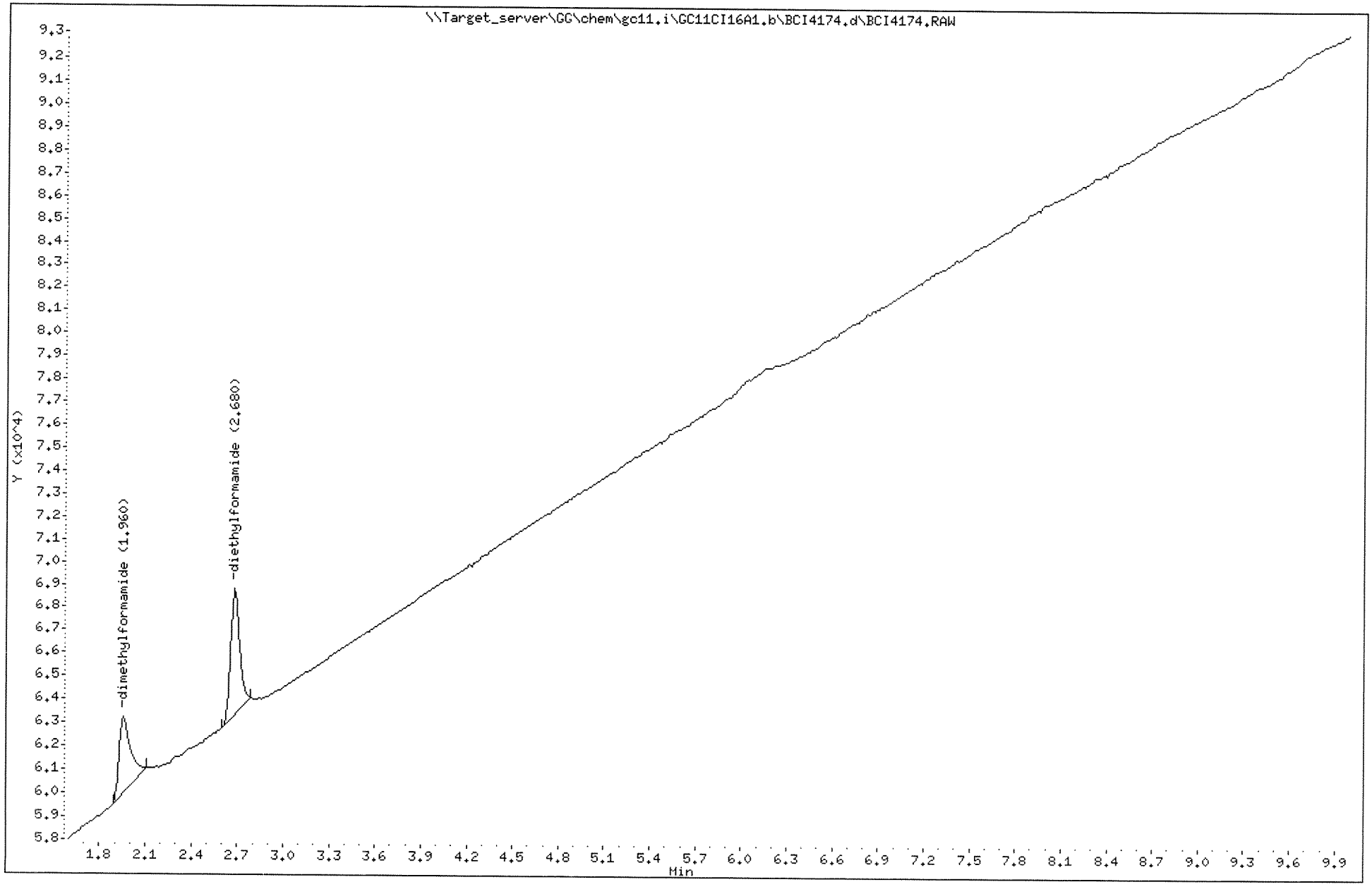
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI16A1.b\BCI4174.d
Date : 16-SEP-2009 14:12
Client ID: SB-442-8.0/10-XXMS
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68398-8
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000134

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4176.d
Report Date: 21-Sep-2009 10:43

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4176.d
Lab Smp Id: WG68398-9 Client Smp ID: SB-442-8.0/10-XXMSD
Inj Date : 16-SEP-2009 14:40
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68398-9
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 17-Sep-2009 07:06 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00175	Sample Weight
M	12.700	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	15728	0.30586	8.01(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	22306	0.42292	11.1(RM)	

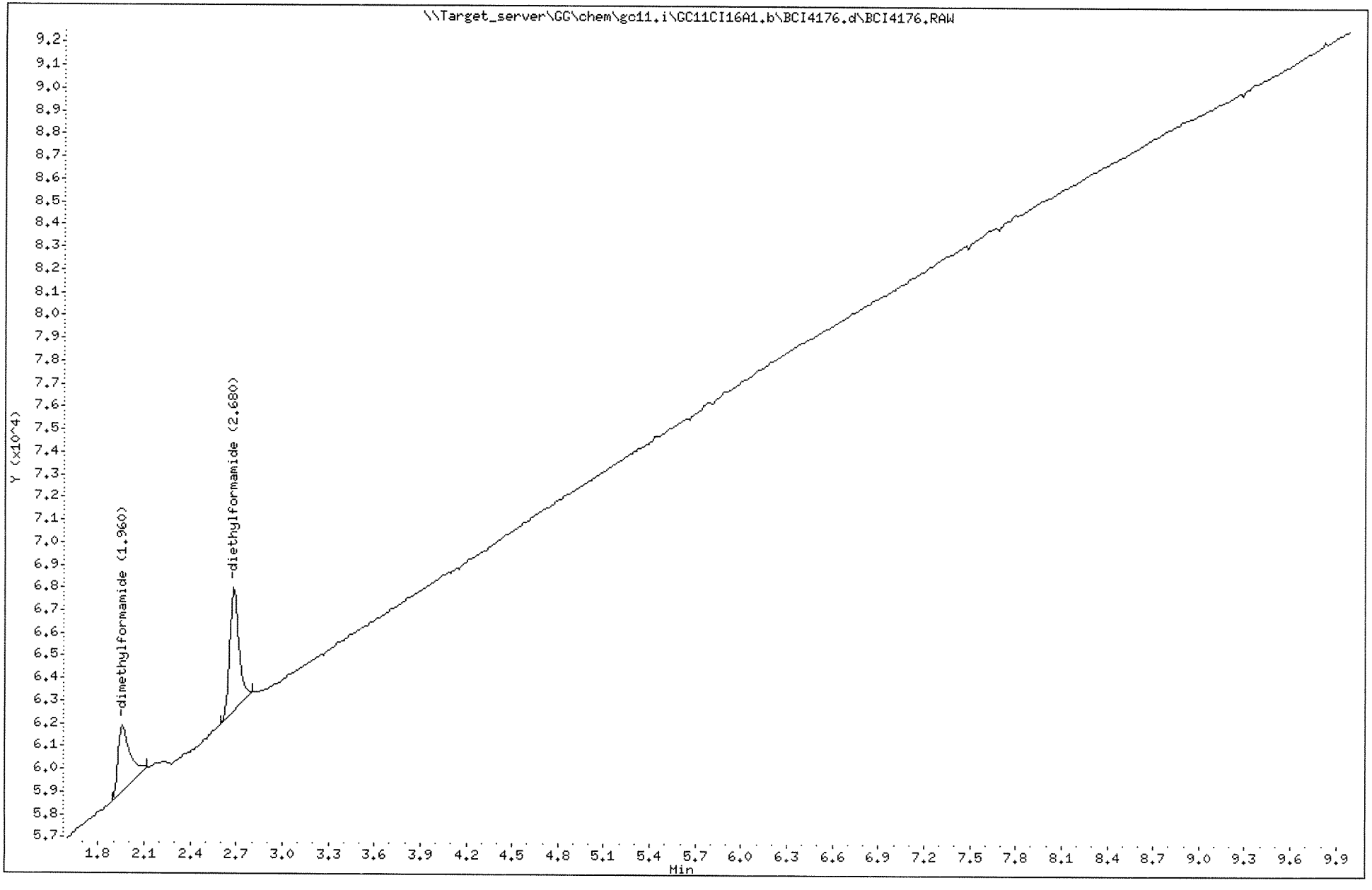
JP 092109

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI16A1.b\BCI4176.d
Date : 16-SEP-2009 14:40
Client ID: SB-442-8.0/10-XXMSD
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68398-9
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000136

Logbooks and Supporting Documents

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
~~SW846 8015M - 2-MOE~~
SW846 8033M - DMF
Signal_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9-15-09	JLP	BCI4072	LCW Pt test	Y	DMFB037A	227	
		73	ICAL 0.02	Y	DMFB038A		GCV2306
		74	0.05	Y			GCV2307
		75	0.1	Y			GCV2308
		76	W	N			
		77	ICAL 0.25	Y			GCV2309
		78	W	N			
		79	ICAL 0.5	Y			GCV2310
		80	W	N			
		81	W	N			GCV2311
		82	ICAL 1.0	Y			
		83	W	N			
		84	W				
		85	W				
		86	W-68660-1	Y			
		87	-2	Y			
		88	W	N			
		89	W-68660-3	Y			
		90	W	N			
		91	SC5104-10RA B	Y			
		92	SC5142-8RA	Y			
		93	SC5326-5RA	Y			
		94	CV 0.25	Y			GCV2309
		95	W	N			
		96	SC4941-4RA	Y			
		97	SC4995-4RA	Y			
		98	-2RA	Y			

JLP 091509

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate	5	~~GCV2305~~	2346
2	LCS	10	GCV2305	
3	CV	—	~~GCV2310~~ 09	
4				

JLP 091509

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
~~SW846 8015M - 2-MOE~~
SW846 8033M - DMF
~~Signal~~_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9.6.09	JLP	BCJ4 099	SC4995-3RA	Y	DMF8038A	227	
		100	-4				
		101	-5				
		102	-6				
		103	-7				
		104	-8				
		105	-9				
		106	CV 0.25				
		107	~~SC4995-10RA~~ W	N			
		108	SC4995-10RA	Y			
		109	SC5041-1				
		110	-2				
		111	-3				
		112	-4				
		113	WG68045-4				
		114	W	N			
		115	WG68045-5	Y			spike
		116	W	N			
		117	WG68045-6	Y			
		118	W	N			
		119	WG68045-7	Y			
		120	W	N			
		121	WG68045-8	Y			spike ↑
		122	W	N			
		123	CV 0.25	Y			
		124	WG68045-9	N			spike ↑
		125	W	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate			
2	LCS			
3	CV	—	GCV2309	
4				

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
SW846 8015M - 2-MOE
SW846 8033M - DMF
Signal_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9-15-09	JLP	BCI4 126	WG68398-1	Y	DMFB038A	227	
		127	-2	Y			
		128	W	N			
		129	WG68398-3	Y			
		130	W	N			
		131	SC5042-1	Y			
		132	-2				
		133	-3				
9-16-09		134	-4				
		135	-5				
		136	-6				
		137	CV 0.25				
		138	W	N			
		139	SC5042-7	Y			
		140	SC5104-1				
		141	-2				
		142	-3				
		143	-4				
		144	-5				
		145	-6				
		146	-7				
		147	-8				
		148	-9				
		149	CV 0.25				
		150	W	N			
9-16-09	JLP	151	CV 0.25	Y			
		152	W	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate			
2	LCS			
3	CV	—	GCV2309	
4				

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
SW846 8015M - 2-MOE
SW846 8033M - DMF
Signal_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9-16-09	JLP	BCI4 153	WG68695-1	Y	DMFB038A	227	
		154	↓ -2	Y			
		155	W	N			
		156	WG68695-3	Y			SS↑
		157	W	N			
		158	SC4995-11 B	Y			
		159	WG68045-9RA	Y			Spike + SS↑
		160	W	N			
		161	CV 0.25	Y			
		162	W	N			
		163	SC5141-1	Y			
		164	-2				SS↑
		165	↓ -3				SS↑
		166	WG68398-4	↓			SS↑
		167	W	N			
		168	WG68398-5	Y			SS↑
		169	W	N			
		170	WG68398-6	Y			SS↑
		171	W	N			
		172	WG68398-7	Y			SS↑
		173	W	N			
		174	WG68398-8	Y			SS↑
		175	W	N			
		176	WG68398-9	Y			SS↑
		177	W	N			
		178	CV 0.25	Y			↑
		179	W	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate	5	GCV2346	
2	LCS	10	GCV2305	
3	CV	—	GCV2309	
4				

KATAHDIN ANALYTICAL SERVICES
GC SOIL PREP LOG

Date of Sample Preparation	Analyst Initials	Sample #	Sample Weight (g)	Volume ~~Methanol~~ Di H_2O (mL)	Spike ID and Volume (µL)	Surrogate ID and Volume (µL)	Method	Comments
9-8-09	JLP	WG68398-1	0.99	40	NA	200ul GCV2302 40 100ug/mL	8033	Shaken Start 1530 STOP 0725
		-2	0.99		100ul GCV2304 100ug/mL	100ul GCV2302 40 100ug/mL		
		-3	1.02					
		-4	1.38					SC5104-3MSA
		-5	1.20					-3MSD
		-6	1.30					-9MS
		-7	1.22					-9MSD
		-8	1.91					SC5141-3MS
		-9	1.75					-3MSD
		SC5042-1A	1.18		NA	200ul GCV2302 40 100ug/mL		
		-2	1.23					
		-3	1.51					
		-4	1.20					
		-5	2.03					
		-6	1.38					

JLP 090809

Reviewed By: _____ Date: _____

KATAHDIN ANALYTICAL SERVICES
GC SOIL PREP LOG

Date of Sample Preparation	Analyst Initials	Sample #	Sample Weight (g)	Volume ~~Methanol~~ DiH2O (mL)	Spike ID and Volume (µL)	Surrogate ID and Volume (µL) JVP 090809	Method	Comments
9-8-09	JVP	SC5042-7A	1.43	40	NA	200ul GCV 23~~02~~ 40 100ug/mL	8033	
		SC5104-1	1.49			200ul GCV 23~~02~~ 40 100ug/mL		
		-2	1.32					
		-3	1.68					
		-4	1.28					
		-5	1.41					
		-6	1.27					
		-7	1.19					
		-8	1.33					
		-9	1.87					
		SC5141-1	1.82					
		-2	1.82					
		-3	1.58					
								JVP 090909

Reviewed By: _____ Date: _____

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG68624	ASTM D2216	14-SEP-09	11-SEP-09	U 1 %	1 %
MBLANK	WG68699	ASTM D2216	16-SEP-09	15-SEP-09	U 1 %	1 %

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Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG68624-2	LCS	WG68624	14-SEP-09	11-SEP-09	%	90	91.	101	80-120	
WG68699-2	LCS	WG68699	16-SEP-09	15-SEP-09	%	90	90.	100	80-120	

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Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG68624-4	SC5104-3	WG68624	14-SEP-09	%	83.	83.	0	20

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

MCL Maximum Contaminant Level

NL No limit

NFL No Free Liquid Present

FLP Free Liquid Present

NOD No Odor Detected

TON Threshold Odor Number

H1 Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H2 Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H3 Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H4 Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-1
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-403-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	93. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-2
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-403-6.0/8.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	47. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-3
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-404-5.0/7.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	85. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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Lab Sample ID: SC5042-4
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-409-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-5
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-409-6.0/8.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	81. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-6
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-411-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5042-7
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-411-4.7/6.7-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5104-1
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-410-0.0/1.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
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Portland,ME 04112-7050

Lab Sample ID: SC5104-2
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-410-6.0/8.0-D	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5104-3
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-410-6.0/8.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	83. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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Portland,ME 04112-7050

Lab Sample ID: SC5104-4
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-444-0.0/1.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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Lab Sample ID: SC5104-5
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-444-5.0/7.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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Lab Sample ID: SC5104-6
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-449-0.0/1.0-X	SL	27-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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Lab Sample ID: SC5104-7
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-451-0.0/1.0-X	SL	28-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	96. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Lab Sample ID: SC5104-8
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-451-2.5/4.5-D	SL	28-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
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Lab Sample ID: SC5104-9
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-451-2.5/4.5-X	SL	28-AUG-09	29-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	96. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5141-1
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-442-0.0/1.0-X	SL	31-AUG-09	02-SEP-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5141-2
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-442-8.0/10-DU	SL	31-AUG-09	02-SEP-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	SM2540G	WG68624	14-SEP-09 10:10:00	ASTM D2216	11-SEP-09	KT	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5141-3
Report Date: 25-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-4

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-442-8.0/10-XX	SL	31-AUG-09	02-SEP-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	87. %	1	SM2540G	WG68699	16-SEP-09 08:30:00	ASTM D2216	15-SEP-09	JF	

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Raw Data Section

TOTAL SOLIDS BATCH REPORT
Sep 22 2009, 04:11 pm
Batch: WG68624

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SC5042-1	SL	SAMP	WG68624	11-SEP-09	.96 g	7.771 g	7.32 g	KT	14-SEP-09	93.3780	93. %		
SC5042-2	SL	SAMP	WG68624	11-SEP-09	.968 g	11.234 g	5.758 g	KT	14-SEP-09	46.6590	47. %		
SC5042-3	SL	SAMP	WG68624	11-SEP-09	.978 g	12.781 g	11.012 g	KT	14-SEP-09	85.0120	85. %		
SC5042-4	SL	SAMP	WG68624	11-SEP-09	.954 g	6.54 g	6.237 g	KT	14-SEP-09	94.5760	94. %		
SC5042-5	SL	SAMP	WG68624	11-SEP-09	.957 g	8.201 g	6.842 g	KT	14-SEP-09	81.2400	81. %		
SC5042-6	SL	SAMP	WG68624	11-SEP-09	.957 g	6.45 g	6.104 g	KT	14-SEP-09	93.7010	94. %		
SC5042-7	SL	SAMP	WG68624	11-SEP-09	.967 g	7.912 g	7.558 g	KT	14-SEP-09	94.9030	95. %		
SC5104-1	SL	SAMP	WG68624	11-SEP-09	.98 g	8.551 g	7.781 g	KT	14-SEP-09	89.8300	90. %		
SC5104-2	SL	SAMP	WG68624	11-SEP-09	1 g	11.184 g	9.343 g	KT	14-SEP-09	81.9230	82. %		
SC5104-3	SL	SAMP	WG68624	11-SEP-09	1.015 g	8.312 g	7.095 g	KT	14-SEP-09	83.3220	83. %		
SC5104-4	SL	SAMP	WG68624	11-SEP-09	.984 g	10.28 g	9.853 g	KT	14-SEP-09	95.4070	95. %		
SC5104-5	SL	SAMP	WG68624	11-SEP-09	.951 g	6.74 g	6.02 g	KT	14-SEP-09	87.5630	88. %		
SC5104-6	SL	SAMP	WG68624	11-SEP-09	.985 g	8.916 g	8.311 g	KT	14-SEP-09	92.3720	92. %		
SC5104-7	SL	SAMP	WG68624	11-SEP-09	.975 g	7.096 g	~~6.787~~ g	KT	14-SEP-09	96.4 ~~94.9520~~	~~95.~~ %	96	
SC5104-8	SL	SAMP	WG68624	11-SEP-09	.999 g	7.626 g	7.256 g	KT	14-SEP-09	94.4170	94. %		
SC5104-9	SL	SAMP	WG68624	11-SEP-09	.962 g	9.807 g	9.424 g	KT	14-SEP-09	95.6700	96. %		
SC5141-1	SL	SAMP	WG68624	11-SEP-09	.983 g	8.3 g	7.836 g	KT	14-SEP-09	93.6590	94. %		
SC5141-2	SL	SAMP	WG68624	11-SEP-09	.964 g	13.879 g	12.298 g	KT	14-SEP-09	87.7580	88. %		
SC5267-3	SL	SAMP	WG68624	11-SEP-09	1.001 g	8.347 g	8.18 g	KT	14-SEP-09	97.7270	98. %		
SC5267-5	SL	SAMP	WG68624	11-SEP-09	.968 g	8.766 g	8.556 g	KT	14-SEP-09	97.3070	97. %		
WG68624-1	SL	MBLANK	WG68624	11-SEP-09	.989 g	.989 g	.99 g	KT	14-SEP-09	0.1000	1 %		
WG68624-2	SL	LCS	WG68624	11-SEP-09	1.004 g	6.771 g	6.265 g	KT	14-SEP-09	91.2260	91. %	101	
WG68624-3	SL	DUP	WG68624	11-SEP-09	1.002 g	10.293 g	10.063 g	KT	14-SEP-09	97.5240	98. %		0
WG68624-4	SL	DUP	WG68624	11-SEP-09	.976 g	14.376 g	12.123 g	KT	14-SEP-09	83.1860	83. %		0

Comments:

SC5104-3	MS/MSD
SC5104-9	MS/MSD
WG68624-1	SC5267-3
WG68624-2	SC5267-3
WG68624-3	SC5267-3
WG68624-4	SC5104-3

Entered by: KT Date: 092209 Accepted by: [signature] Date: 09/24/09

Katahdin Analytical Services 5000028

KATAHDIN ANALYTICAL SERVICES, INC. WG-68624

TOTAL SOLIDS: ASTM D2216		PQL: 0.10%	BALANCE ID:
TOTAL VOLATILE SOLIDS: SM2540 G	E160.4	PQL: 0.10%	ASTM CLASS 1 WEIGHTS
ANALYST IN: KT	ANALYST OUT: KT		
DATE IN: 091109	DATE OUT: 091409		
TIME IN: 1800	TIME OUT: 8:00		
TEMP IN: KT ~~(29)~~ 105	TEMP OUT: 98		
Oven ID:	Muffle Oven ID:		
CHECKED BY:	DATE:		

TRUE WT (g)	INITIAL WT (g)	FINAL WT (g)
2.0000	1.999	1.999
5.0000	5.000	5.000
10.0000	10.002	10.000
100.0000		

SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
BLANK	49	0.989	0.989	0.990	NA	10:10
Leg	50	1.004	6.771	6.265		
SC5767-3	51	1.001	8.347	8.180		
-3Dup	52	1.002	10.293	10.063		
-5	53	0.968	8.766	8.556		:11
SC5042-1	54	0.960	7.771	7.320		
-2	KT ~~58~~ 55	0.968	11.234	~~11.0~~ KT 5758		
-3	56	0.978	12.781	~~5.758~~ 11.012		
-4	57	0.954	6.540	6.237		:12
-5	58	0.957	8.201	6.842		
-6	59	0.957	6.750	6.104		
-7	60	0.967	7.912	7.558		
SC5704-1	61	0.980	8.557	7.781		
-2	62	1.000	11.184	9.343		:13
-3	63	1.015	8.372	7.095		
-3Dup	64	0.976	14.376	12.123		
-4	65	0.984	10.280	9.853		
-5	66	0.951	6.740	6.020		:14
-6	67	0.985	8.916	8.311		
-7	68	0.975	7.096	6.878		
-8	69	0.999	7.626	7.256		
-9	70	0.962	9.807	9.424		:15
SC5741-1	71	0.983	8.300	7.836		
-2	72	0.964	13.879	12.298		

QAWL555

0000032

TOTAL SOLIDS BATCH REPORT
Sep 16 2009, 09:27 am
Batch: WG68699

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SC5141-3	SL	SAMP	WG68699	15-SEP-09	1.017 g	6.765 g	6.035 g	JF	16-SEP-09	87.3000	87. %		
SC5142-1	SL	SAMP	WG68699	15-SEP-09	.986 g	8.146 g	7.936 g	JF	16-SEP-09	97.0670	97. %		
SC5142-2	SL	SAMP	WG68699	15-SEP-09	1.093 g	5.467 g	4.736 g	JF	16-SEP-09	83.2880	83. %		
SC5142-3	SL	SAMP	WG68699	15-SEP-09	1.078 g	6.514 g	6.042 g	JF	16-SEP-09	91.3170	91. %		
SC5142-4	SL	SAMP	WG68699	15-SEP-09	1.12 g	5.183 g	4.875 g	JF	16-SEP-09	92.4190	92. %		
SC5142-5	SL	SAMP	WG68699	15-SEP-09	1.088 g	4.874 g	4.152 g	JF	16-SEP-09	80.9300	81. %		
SC5255-1	SL	SAMP	WG68699	15-SEP-09	.999 g	5.589 g	5.243 g	JF	16-SEP-09	92.4620	92. %		
SC5255-2	SL	SAMP	WG68699	15-SEP-09	1.008 g	5.97 g	4.41 g	JF	16-SEP-09	68.5610	68. %		
SC5256-1	SL	SAMP	WG68699	15-SEP-09	1.010 ~~1.1~~ g	6.809 g	6.278 g	JF	16-SEP-09	70.8432 ~~99.6990~~	91. %		
SC5385-1	SL	SAMP	WG68699	15-SEP-09	.992 g	4.805 g	4.645 g	JF	16-SEP-09	95.8040	96. %		
SC5385-2	SL	SAMP	WG68699	15-SEP-09	.995 g	5.106 g	4.478 g	JF	16-SEP-09	84.7240	85. %		
WG68699-1	SL	MBLANK	WG68699	15-SEP-09	.947 g	.947 g	.946 g	JF	16-SEP-09	-0.1000	1 %		
WG68699-2	SL	LCS	WG68699	15-SEP-09	1.006 g	6.026 g	5.51 g	JF	16-SEP-09	89.7210	90. %	100	
WG68699-3	SL	DUP	WG68699	15-SEP-09	1.009 g	4.844 g	4.693 g	JF	16-SEP-09	96.0620	96. %		0

Comments:

SC5141-3	MS/MSD
WG68699-1	SC5385-1
WG68699-2	SC5385-1
WG68699-3	SC5385-1

Entered by: _____ Date: 9-16-09 Accepted by: _____ Date: 09/17/09

Katahdin Analytical Services 5000030

KATAHDIN ANALYTICAL SERVICES, INC.

WG68699 R109145

TOTAL SOLIDS: ASTM D2216		PQL: 0.10%	BALANCE ID: SARTORIUS 30050012
TOTAL VOLATILE SOLIDS: SM2540 G	E160.4	PQL: 0.10%	ASTM CLASS 1 WEIGHTS
ANALYST IN: [signature]	ANALYST OUT: [signature]		
DATE IN: 9-15-09	DATE OUT: 9-16-09		
TIME IN: 1220	TIME OUT: 800		
TEMP IN: 105	TEMP OUT: 105		
Oven ID: 107 N0042 FISHER	Muffle Oven ID:		
CHECKED BY: [signature]	DATE: 09/16/09		

TRUE WT (g)	INITIAL WT (g)	FINAL WT (g)
2.0000	2.000	2.000
5.0000	5.002	5.000
10.0000	10.002	10.002
100.0000		

	SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
WG68699-1	BLANK	1	0.947	0.947	0.946		830
-2	LCP	2	1.006 ~~0.992~~ 9/15/09	6.026	5.510		831
	SC5385-1F	3	0.992	4.805	4.645		832
-3	Dup -1F	4	1.009	4.844	4.693		833
	-2F	5	0.995	5.106	4.478		834
	SC5255-1A	6	0.999	5.589	5.243		835
	-2A	7	1.008	5.970	4.410		836
	SC5256-1A	8	1.010	6.809	6.278		837
	SC5141-3A	9	1.017	6.765	6.035		838
	SC5294-1B	10	0.981	2.725	2.680		839
	SC5294-6B 9/15/09	11	0.996	2.342	2.293		840
	Dup -6C	12	0.999	2.303	2.255		841
	-2A	13	0.992	2.945	2.905		842
	-3A	14	1.014	2.524	2.480		843
600 DRY	-4A	15	0.988	2.712	2.656		844
	-5A	16	1.005	2.794	2.713		845
	-7A	17	0.990	2.897	2.855		846
	-8A	18	0.985	3.223	3.146		847
	-9A	19	0.993	2.549	2.478		848
	SC5142-1A	20	0.986	8.146	7.936		849
	-2A	21	1.093	5.467	4.736		850
	-3A	22	1.078	6.514	6.042		851
	-4A	23	1.120	5.183	4.875		852
	-5A	24	1.088	4.874	4.152		853

OAWL 555

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