CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:

12/15/2010

OLIN CORPORATION
RI ANALYTICAL-WILMINGTON
SDG: WIL-12
SD3208

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

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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
OLIN CORPORATION
RI ANALYTICAL - WILMINGTON
WIL-12
SD3208

Sample Receipt

The following samples were received on June 4, 2010 and were logged in under Katahdin Analytical Services work order number SD3208 for a hardcopy due date of June 30, 2010.

KATAHDIN Sample No.	OLIN CORPORATION Sample Identification
SD3208-1	SS-441-0.0/1.0-XXX
SD3208-2	SS-443-0.0/1.0-XXX
SD3208-3	SS-447-0.0/1.0-XXX

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, **Ms. Kate Zaleski**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG WIL-12 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.

8033M DMF Analysis

Sample WG78406-4 was analyzed as a duplicate of sample SD3208-1 per the client's request of one duplicate sample per 20 samples.

The LCS WG78406-2 had a high recovery for the surrogate diethylformamide which was outside of the QAPP acceptance limits of 70-130%. Since the spike recovery was acceptable in the LCS

and the LCSD had acceptable spike and surrogate recoveries, the associated samples were not reextracted.

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

Wet Chemistry Analysis

The samples of SDG WIL-12 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Standard Methods for the Examination of Water and Wastewater", 15th, 16th, 17th, 18th, 19th, and 20th editions, 1980, 1985, 1989, 1992, 1995, 1999. APHA-AWWA-WPCF.

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
06.29.10

Leslie Dimond
Quality Assurance Officer

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

Client: MacTec	KAS PM: KEZ	Sampled By: Client
Project:	KIMS Entry By: DD	Delivered By: Client
KAS Work Order#: SD3208/SD3209	KIMS Review By:	Received By: DP
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 6-4-10 1230

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): 2.0
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

SD3208

Katahdin

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)
							-	-	-	-	-	-	-	Zn	<--Preservative Type (4)
							G	P	G	V	V	V	AG	AV	<--Bottle Type (5)
OC-SS-441-0.0/1.0-XXX	6/3/2010 1:50:00 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,

Relinquished: [signature] Date: 6/4/10 Time: 1220 Received: [signature] Date: 6/4/10 Time: 1220

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: _____

50000

SD3208

Katahdin

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-SS-443-0.0/1.0-XXX	6/3/2010 12:50:00	T	FS	SO	G	1			X																				Category 1
OC-SS-447-0.0/1.0-XXX	6/3/2010 1:35:00 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,

Relinquished: [signature] Date: 6/4/10 Time: 1220 Received: [signature] Date: 6/5/10 Time: [illegible]

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: _____

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jun. 04, 2010
04:39 PM

Login Number: SD3208

Account: OLINCO001 Web
Olin Corporation

Project:

Quote/Incoming: OLWIL

Login Information

ANALYSIS INSTRUCTIONS	:	Batch as many as possible. See special acceptance limits in QAPP. Include Lab Dup as batch QC, 1:20.
CHECK NO.	:	
CLIENT PO#	:	ERRE9844, REWI0014
COOLER TEMPERATURE	:	2.0
DELIVERY SERVICES	:	Client
EDD FORMAT	:	KAS075-CSV
PM	:	KEZ
PROJECT NAME	:	RI Analytical - Wilmington
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Merge results. Data summary needs all forms. Send full CDs to K. Chatterton and C. Ricardi. Send CD with SDS and SDP only to S. Morrow.
SDG ID	:	WIL-12
SDG STATUS	:	Begin/End

Primary Report Address:

Mr. 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:

Ms. Kelly Chatterton
MACTEC
107 Audubon Rd.
Suite 200
Wakefield,MA 01880

Steve Morrow
Olin Corporation
3855 North Ocoee Street
Suite 200
Cleveland,TN 37312

Invoice CC Addresses:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SD3208-1	SS-441-0.0/1.0-XXX	03-JUN-10 13:50	04-JUN-10			30-JUN-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	17-JUN-10	4oz Glass	1	
Solid	S	TS	03-JUL-10	4oz Glass		

SD3208-2	SS-443-0.0/1.0-XXX	03-JUN-10 12:50	04-JUN-10			30-JUN-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	17-JUN-10	4oz Glass	1	
Solid	S	TS	03-JUL-10	4oz Glass		

SD3208-3	SS-447-0.0/1.0-XXX	03-JUN-10 13:35	04-JUN-10			30-JUN-10	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	17-JUN-10	4oz Glass	1	
Solid	S	TS	03-JUL-10	4oz Glass		

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

0000007

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: RI Analytical - Wilmington
PO No:
Sample Date: 06/03/10
Received Date: 06/04/10
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 18:31
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 65.6

Lab ID: SD3208-1
Client ID: SS-441-0.0/1.0-XXX
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.84	1.0	0.80	0.84	0.84
	diethylformamide		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
PO No:
Sample Date: 06/03/10
Received Date: 06/04/10
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 19:15
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 65.6

Lab ID: WG78406-4
Client ID: SS-441-0.0/1.0-XXX
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
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		107%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
PO No:
Sample Date: 06/03/10
Received Date: 06/04/10
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 18:46
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 58.0

Lab ID: SD3208-2
Client ID: SS-443-0.0/1.0-XXX
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.55	1.0	0.80	0.55	0.55
	diethylformamide		101%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
PO No:
Sample Date: 06/03/10
Received Date: 06/04/10
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 19:00
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 32.7

Lab ID: SD3208-3
Client ID: SS-447-0.0/1.0-XXX
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	1.3	1.0	0.80	1.3	1.3
	diethylformamide		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: RI Analytical - Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 14:43
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 100

Lab ID: WG78406-1
Client ID: WG78406-Blank
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
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		121%				

FORM 2
SOIL DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG78406-BLANK	WG78406-1	121				0
02	WG78406-LCS	WG78406-2	140*				1
03	WG78406-LCSD	WG78406-3	129				0
04	SS-441-0.0/1.0-XXX	SD3208-1	75				0
05	SS-443-0.0/1.0-XXX	SD3208-2	101				0
06	SS-447-0.0/1.0-XXX	SD3208-3	96				0
07	SS-441-0.0/1.0-XXX	WG78406-4	107				0
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	(70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: RI Analytical - Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 06/10/10
Analysis Date: 06/14/10
Report Date: 06/22/2010
Matrix: SOIL

Lab ID: WG78406-2 & WG78406-3
Client ID: WG78406-LCS & WG78406-LCSD
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
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	9.6	9.6	96	96	0.3	50	70-130

FORM III DMF-2

BDF2062.d & BDF2064.d

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG78406-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Lab File ID: BDF2061 Lab Sample ID: WG78406-1

Date Analyzed: 06/14/10 Time Analyzed: 1443

GC Column: STABILWAX 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	WG78406-LCS	WG78406-2	BDF2062	06/14/10	1457
02	WG78406-LCSD	WG78406-3	BDF2064	06/14/10	1525
03	SS-441-0.0/1.0-XXX	SD3208-1	BDF2077	06/14/10	1831
04	SS-443-0.0/1.0-XXX	SD3208-2	BDF2078	06/14/10	1846
05	SS-447-0.0/1.0-XXX	SD3208-3	BDF2079	06/14/10	1900
06	SS-441-0.0/1.0-XXX	WG78406-4	BDF2080	06/14/10	1915
07					
08					
09					
10					
11					
12					
13					
14					
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16					
17					
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22					
23					
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25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IVDMF

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Instrument ID: GC11 Calibration Date(s): 05/25/10 05/25/10

Column: STABILWAX ID: 0.53 (mm) Calibration Time(s): 1129 1543

LAB FILE ID: RF0.02: BDE4001 RF0.05: BDE4005 RF0.1: BDE4003
RF0.25: BDE4006 RF0.5: BDE4008 RF1: BDE4011

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	2976	7241	15325	35723	77582	170610	LINR	1.423e-002	5.882e-006	0.99719	0.99000
diethylformamide	30029	66924	124760	315170	570060		LINR	6.469e-002	7.102e-006	0.99504	0.99000

FORM VI DMF

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Instrument ID: GC11 Calibration Date: 06/14/10 Time: 1414

Lab File ID: BDF2059 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 1129 1543

GC Column: STABILWAX 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	0.2224200	0.2500000	141560.00	0.01	-11.03	25.00	LINR
diethylformamide	2.7290000	2.5000000	150050.00	0.01	9.16	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Instrument ID: GC11 Calibration Date: 06/14/10 Time: 1802

Lab File ID: BDF2075 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 1129 1543

GC Column: STABILWAX 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	0.2476700	0.2500000	158740.00	0.01	-0.93	25.00	LINR
diethylformamide	2.6638000	2.5000000	146380.00	0.01	6.55	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Instrument ID: GC11 Calibration Date: 06/14/10 Time: 1930

Lab File ID: BDF2081 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 1129 1543

GC Column: STABILWAX 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	0.1924500	0.2500000	121180.00	0.01	-23.02	25.00	LINR
diethylformamide	2.2420000	2.5000000	122620.00	0.01	-10.32	25.00	LINR

FORM VII PEST

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

GC Column: STABILWAX ID: 0.53 (mm) Init. Calib. Date(s): 05/25/10 05/25/10

Instrument ID: GC11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 5.99

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		ICAL 0.02	05/25/10	1129	6.04	
02		ICAL 0.1	05/25/10	1205	6.05	
03		ICAL 0.05	05/25/10	1417	6.04	
04		ICAL 0.25	05/25/10	1431	6.04	
05		ICAL 0.5	05/25/10	1500	6.04	
06		ICAL 1.0	05/25/10	1543		
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

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

GC Column: STABILWAX ID: 0.53 (mm) Init. Calib. Date(s): 05/25/10 05/25/10

Instrument ID: GC11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.59

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		CV 0.25	06/14/10	1414	4.57	
02	WG78406-BLAN	WG78406-1	06/14/10	1443	4.56	
03	WG78406-LCS	WG78406-2	06/14/10	1457	4.57	
04	WG78406-LCSD	WG78406-3	06/14/10	1525	4.56	
05		CV 0.25	06/14/10	1802	4.56	
06	SS-441-0.0/1	SD3208-1	06/14/10	1831	4.55	
07	SS-443-0.0/1	SD3208-2	06/14/10	1846	4.56	
08	SS-447-0.0/1	SD3208-3	06/14/10	1900	4.59	
09	SS-441-0.0/1	WG78406-4	06/14/10	1915	4.57	
10		CV 0.25	06/14/10	1930	4.57	
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

Report of Analytical Results

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

Lab Sample ID: SD3208-1
Report Date: 24-JUN-10
Client PO: ERRE9844, REWI0014
Project: RI Analytical - Wilmington
SDG: WIL-12

Sample Description	Matrix	Date Sampled	Date Received
SS-441-0.0/1.0-XXX	SL	03-JUN-10	04-JUN-10

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	66. %	1	SM2540G	WG78810	21-JUN-10 11:00:00	ASTM D2216	18-JUN-10	JF	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample ID: SD3208-2
Report Date: 24-JUN-10
Client PO: ERRE9844, REWI0014
Project: RI Analytical - Wilmington
SDG: WIL-12

Sample Description	Matrix	Date Sampled	Date Received
SS-443-0.0/1.0-XXX	SL	03-JUN-10	04-JUN-10

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	58. %	1	SM2540G	WG78810	21-JUN-10 11:00:00	ASTM D2216	18-JUN-10	JF	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample ID: SD3208-3
Report Date: 24-JUN-10
Client PO: ERRE9844, REW10014
Project: RI Analytical - Wilmington
SDG: WIL-12

Sample Description	Matrix	Date Sampled	Date Received
SS-447-0.0/1.0-XXX	SL	03-JUN-10	04-JUN-10

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	33. %	1	SM2540G	WG78810	21-JUN-10 11:00:00	ASTM D2216	18-JUN-10	JF	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG78810	ASTM D2216	21-JUN-10	18-JUN-10	U 1 %	1 %

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
WG78810-2	LCS	WG78810	21-JUN-10	18-JUN-10	%	90	90.	100	80-120	

DMF DATA

QC Summary Section

FORM 2
SOIL DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG78406-BLANK	WG78406-1	121				0
02	WG78406-LCS	WG78406-2	140*				1
03	WG78406-LCSD	WG78406-3	129				0
04	SS-441-0.0/1.0-XXX	SD3208-1	75				0
05	SS-443-0.0/1.0-XXX	SD3208-2	101				0
06	SS-447-0.0/1.0-XXX	SD3208-3	96				0
07	SS-441-0.0/1.0-XXX	WG78406-4	107				0
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	(70-130)

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

WG78406-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Lab File ID: BDF2061 Lab Sample ID: WG78406-1

Date Analyzed: 06/14/10 Time Analyzed: 1443

GC Column: STABILWAX 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	WG78406-LCS	WG78406-2	BDF2062	06/14/10	1457
02	WG78406-LCSD	WG78406-3	BDF2064	06/14/10	1525
03	SS-441-0.0/1.0-XXX	SD3208-1	BDF2077	06/14/10	1831
04	SS-443-0.0/1.0-XXX	SD3208-2	BDF2078	06/14/10	1846
05	SS-447-0.0/1.0-XXX	SD3208-3	BDF2079	06/14/10	1900
06	SS-441-0.0/1.0-XXX	WG78406-4	BDF2080	06/14/10	1915
07					
08					
09					
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25					
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27					
28					
29					
30					

COMMENTS:

FORM IVDMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

GC Column: STABILWAX ID: 0.53 (mm) Init. Calib. Date(s): 05/25/10 05/25/10

Instrument ID: GC11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 5.99

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		ICAL 0.02	05/25/10	1129	6.04	
02		ICAL 0.1	05/25/10	1205	6.05	
03		ICAL 0.05	05/25/10	1417	6.04	
04		ICAL 0.25	05/25/10	1431	6.04	
05		ICAL 0.5	05/25/10	1500	6.04	
06		ICAL 1.0	05/25/10	1543		
07						
08						
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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

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

GC Column: STABILWAX ID: 0.53 (mm) Init. Calib. Date(s): 05/25/10 05/25/10

Instrument ID: GC11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.59

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		CV 0.25	06/14/10	1414	4.57	
02	WG78406-BLAN	WG78406-1	06/14/10	1443	4.56	
03	WG78406-LCS	WG78406-2	06/14/10	1457	4.57	
04	WG78406-LCSD	WG78406-3	06/14/10	1525	4.56	
05		CV 0.25	06/14/10	1802	4.56	
06	SS-441-0.0/1	SD3208-1	06/14/10	1831	4.55	
07	SS-443-0.0/1	SD3208-2	06/14/10	1846	4.56	
08	SS-447-0.0/1	SD3208-3	06/14/10	1900	4.59	
09	SS-441-0.0/1	WG78406-4	06/14/10	1915	4.57	
10		CV 0.25	06/14/10	1930	4.57	
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: RI Analytical - Wilmington
PO No:
Sample Date: 06/03/10
Received Date: 06/04/10
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 18:31
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 65.6

Lab ID: SD3208-1
Client ID: SS-441-0.0/1.0-XXX
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.84	1.0	0.80	0.84	0.84
	diethylformamide		75%				

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2077.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2077.d
Lab Smp Id: SD3208-1 Client Smp ID: SS-441-0.0/1.0-XXX
Inj Date : 14-JUN-2010 18:31
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,SD3208-1
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\dmfB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: olin.sub
Target Version: 4.12

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

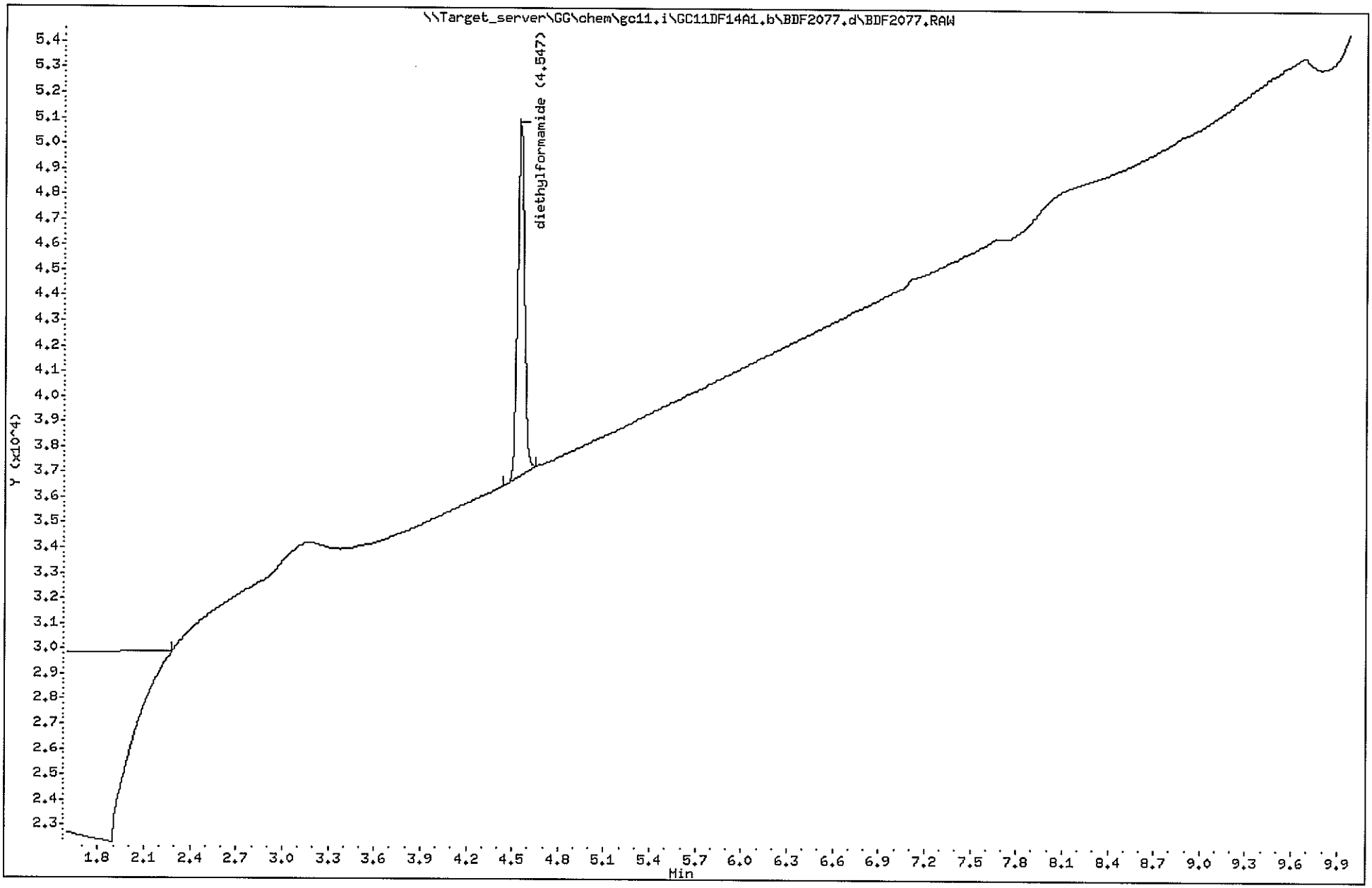
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00145	Sample Weight
M	34.356	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	4.546	4.586	-0.040	43970	0.37698	15.8	

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2077.d
Date : 14-JUN-2010 18:31
Client ID: SS-441-0.0/1.0-XXX
Sample Info: DHFB043A.M,GC11DF14A1.B,1,SD3208-1
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000012

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
PO No:
Sample Date: 06/03/10
Received Date: 06/04/10
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 19:15
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 65.6

Lab ID: WG78406-4
Client ID: SS-441-0.0/1.0-XXX
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
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		107%				

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2080.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2080.d
Lab Smp Id: WG78406-4 Client Smp ID: SS-441-0.0/1.0-XXX
Inj Date : 14-JUN-2010 19:15
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,WG78406-4
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\dmfB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: olin.sub
Target Version: 4.12

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

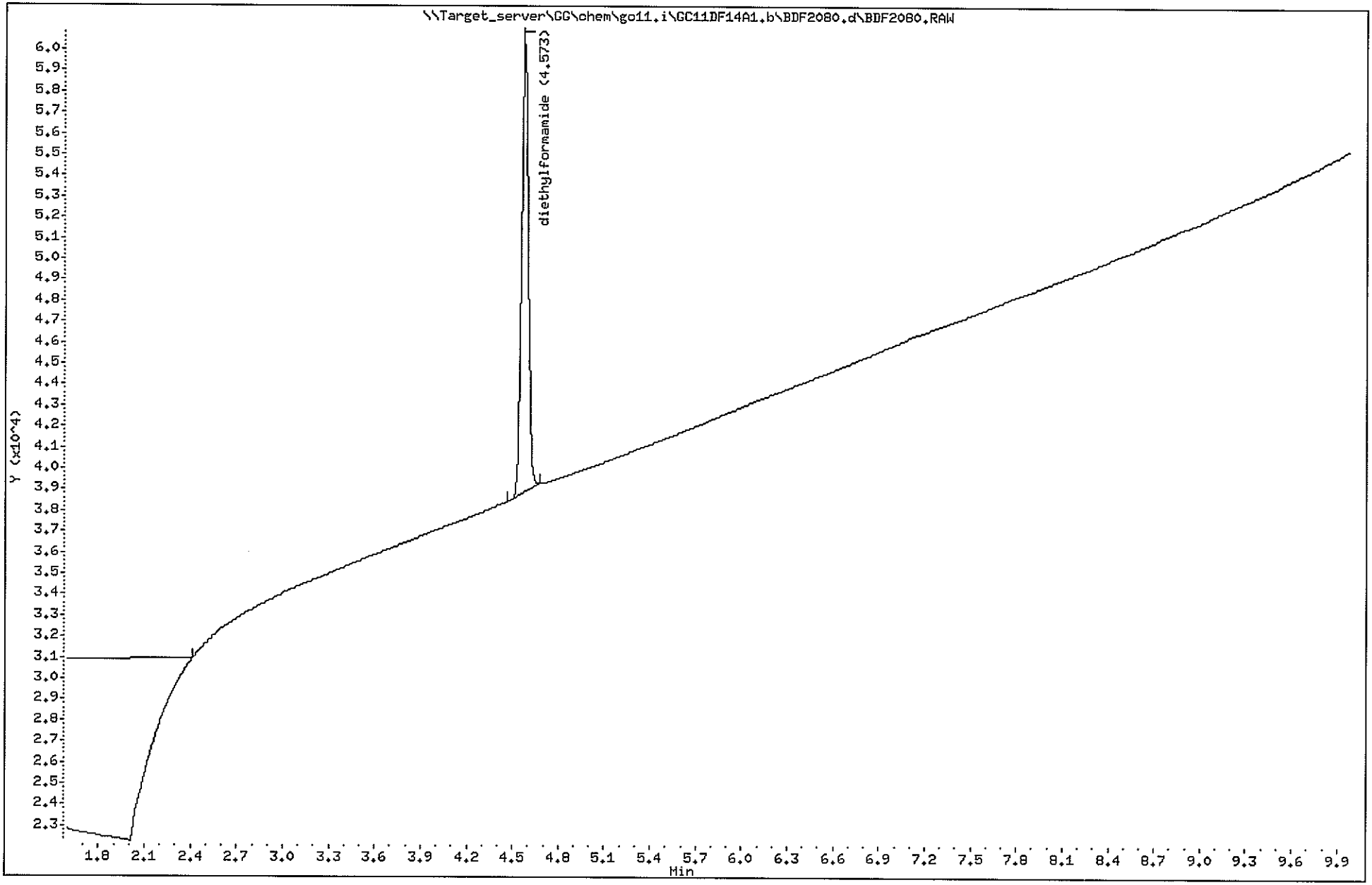
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00185	Sample Weight
M	34.356	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	4.573	4.586	-0.013	66335	0.53582	17.6	

Data File: \\Target_server\GC\chem\go11.i\GC11DF14A1.b\BDF2080.d
Date : 14-JUN-2010 19:15
Client ID: SS-441-0.0/1.0-XXX
Sample Info: DMFB043A.M,GC11DF14A1.B,1,WG78406-4
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: go11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000015

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
PO No:
Sample Date: 06/03/10
Received Date: 06/04/10
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 18:46
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 58.0

Lab ID: SD3208-2
Client ID: SS-443-0.0/1.0-XXX
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.55	1.0	0.80	0.55	0.55
	diethylformamide		101%				

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2078.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2078.d
Lab Smp Id: SD3208-2 Client Smp ID: SS-443-0.0/1.0-XXX
Inj Date : 14-JUN-2010 18:46
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,SD3208-2
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\dmfB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: olin.sub
Target Version: 4.12

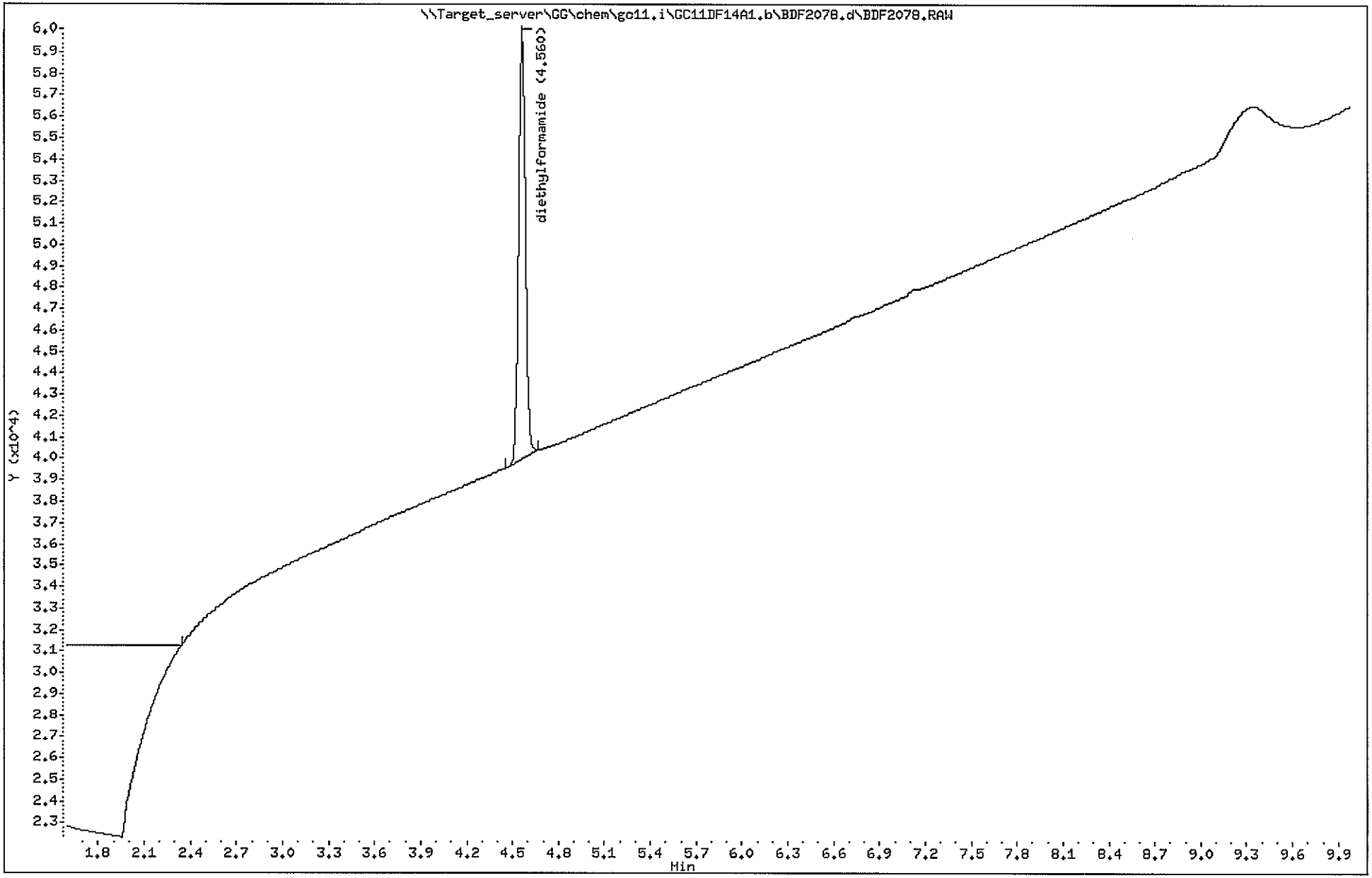
Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00252	Sample Weight
M	41.977	% 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	4.560	4.586	-0.026	62122	0.50590	13.8	

Data File: \\Target_server\GC\chem\gc11.i\GC11DF14A1.b\BDF2078.d
Date : 14-JUN-2010 18:46
Client ID: SS-443-0.0/1.0-XXX
Sample Info: DMFB043A.M,GC11DF14A1.B,1,SD3208-2
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000018

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
PO No:
Sample Date: 06/03/10
Received Date: 06/04/10
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 19:00
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 32.7

Lab ID: SD3208-3
Client ID: SS-447-0.0/1.0-XXX
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	1.3	1.0	0.80	1.3	1.3
	diethylformamide		96%				

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2079.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2079.d
Lab Smp Id: SD3208-3 Client Smp ID: SS-447-0.0/1.0-XXX
Inj Date : 14-JUN-2010 19:00
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,SD3208-3
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\dmfB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: olin.sub
Target Version: 4.12

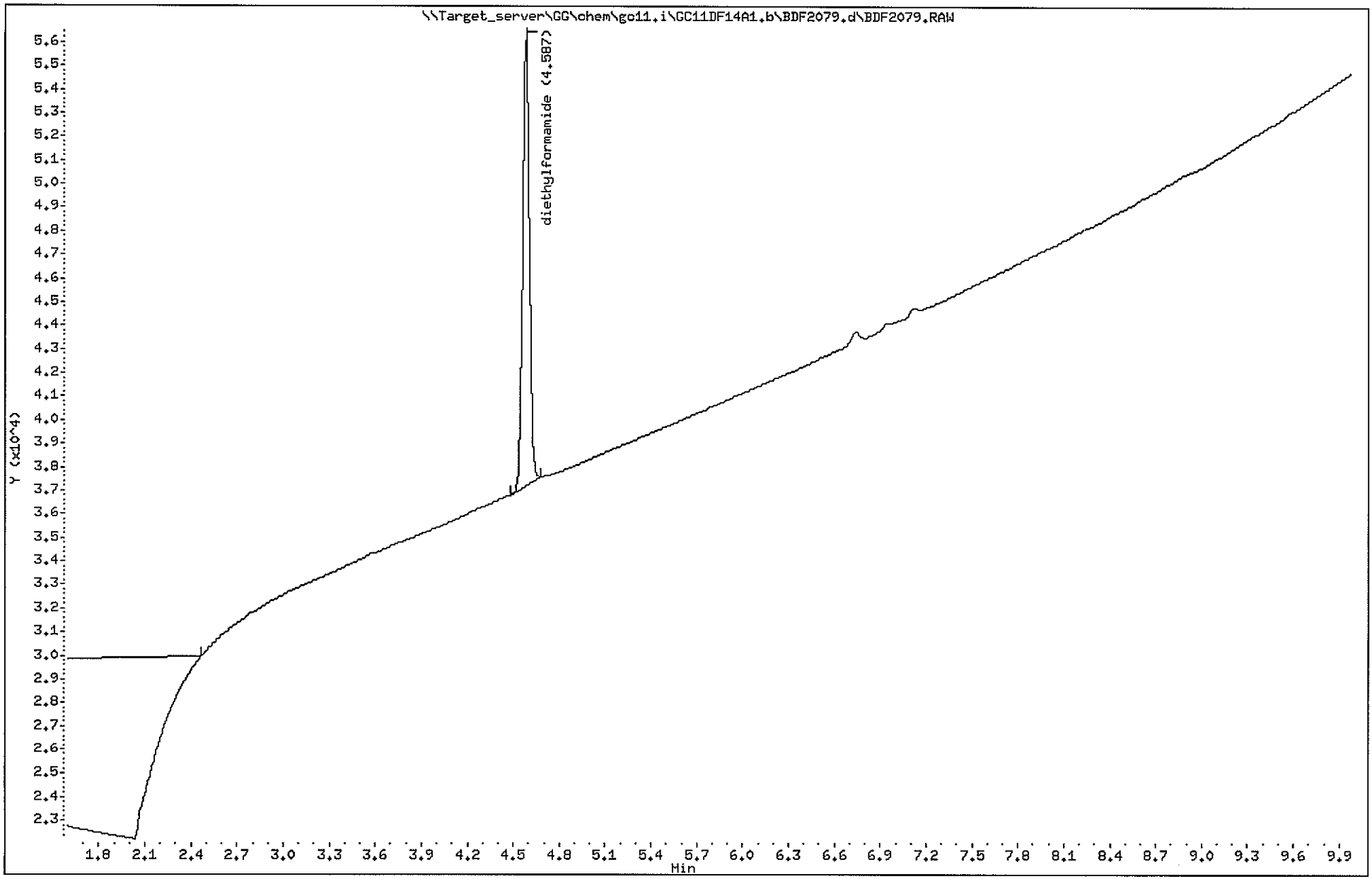
Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00190	Sample Weight
M	67.279	% 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	4.586	4.586	0.000	58268	0.47853	30.8	

Data File: \\Target_server\GC\chem\gc11.i\GC11DF14A1.b\BDF2079.d
Date : 14-JUN-2010 19:00
Client ID: SS-447-0.0/1.0-XXX
Sample Info: DMFB043A.M,GC11DF14A1.B,1,SD3208-3
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000021

Standards Data Section

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Instrument ID: GC11 Calibration Date(s): 05/25/10 05/25/10

Column: STABILWAX ID: 0.53 (mm) Calibration Time(s): 1129 1543

LAB FILE ID: RF0.02: BDE4001 RF0.05: BDE4005 RF0.1: BDE4003
RF0.25: BDE4006 RF0.5: BDE4008 RF1: BDE4011

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	2976	7241	15325	35723	77582	170610	LINR	1.423e-002	5.882e-006	0.99719	0.99000
diethylformamide	30029	66924	124760	315170	570060		LINR	6.469e-002	7.102e-006	0.99504	0.99000

FORM VI DMF

Data File: \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4001.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4001.d
Lab Smp Id: ICAL 0.02
Inj Date : 25-MAY-2010 11:29
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DE25B1.B,1,ICAL 0.02
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11DE25B1.B\DMFB043A.m
Meth Date : 26-May-2010 07:06 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 11:29 Cal File: BDE4001.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

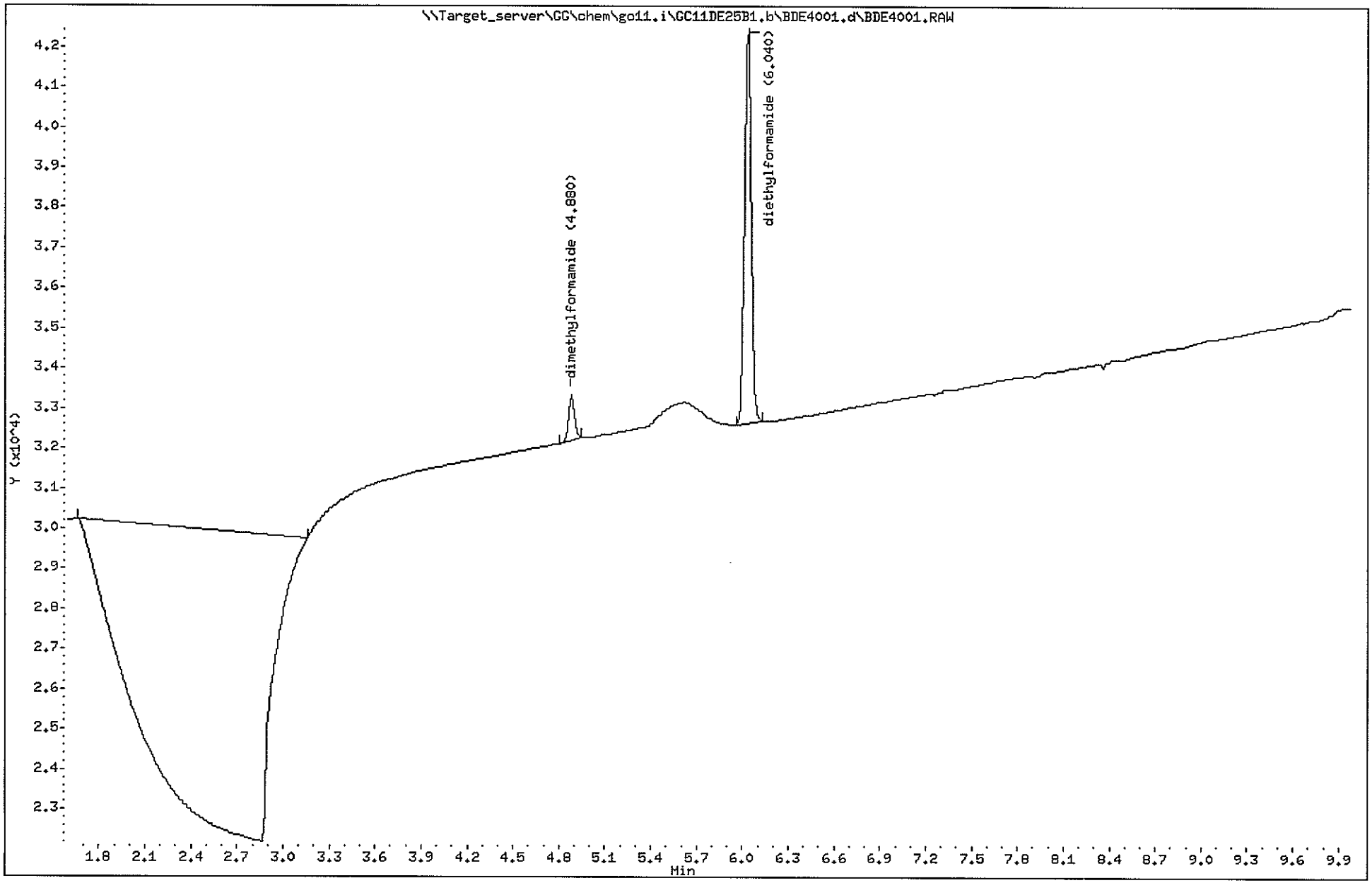
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

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	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	4.880	4.840	0.040	2976	0.02000	0.0200	
$ 2 diethylformamide	6.040	5.987	0.053	30029	0.25000	0.250	

Data File: \\Target_server\GC\chem\gc11.i\GC11DE25B1.b\BDE4001.d
Date : 25-MAY-2010 11:29
Client ID:
Sample Info: DMFB043A.M,GC11DE25B1.B,1,ICAL 0.02
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000025

Data File: \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4003.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4003.d
Lab Smp Id: ICAL 0.1
Inj Date : 25-MAY-2010 12:05
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DE25B1.B,1,ICAL 0.1
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11DE25B1.B\DMFB043A.m
Meth Date : 26-May-2010 07:06 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 12:05 Cal File: BDE4003.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

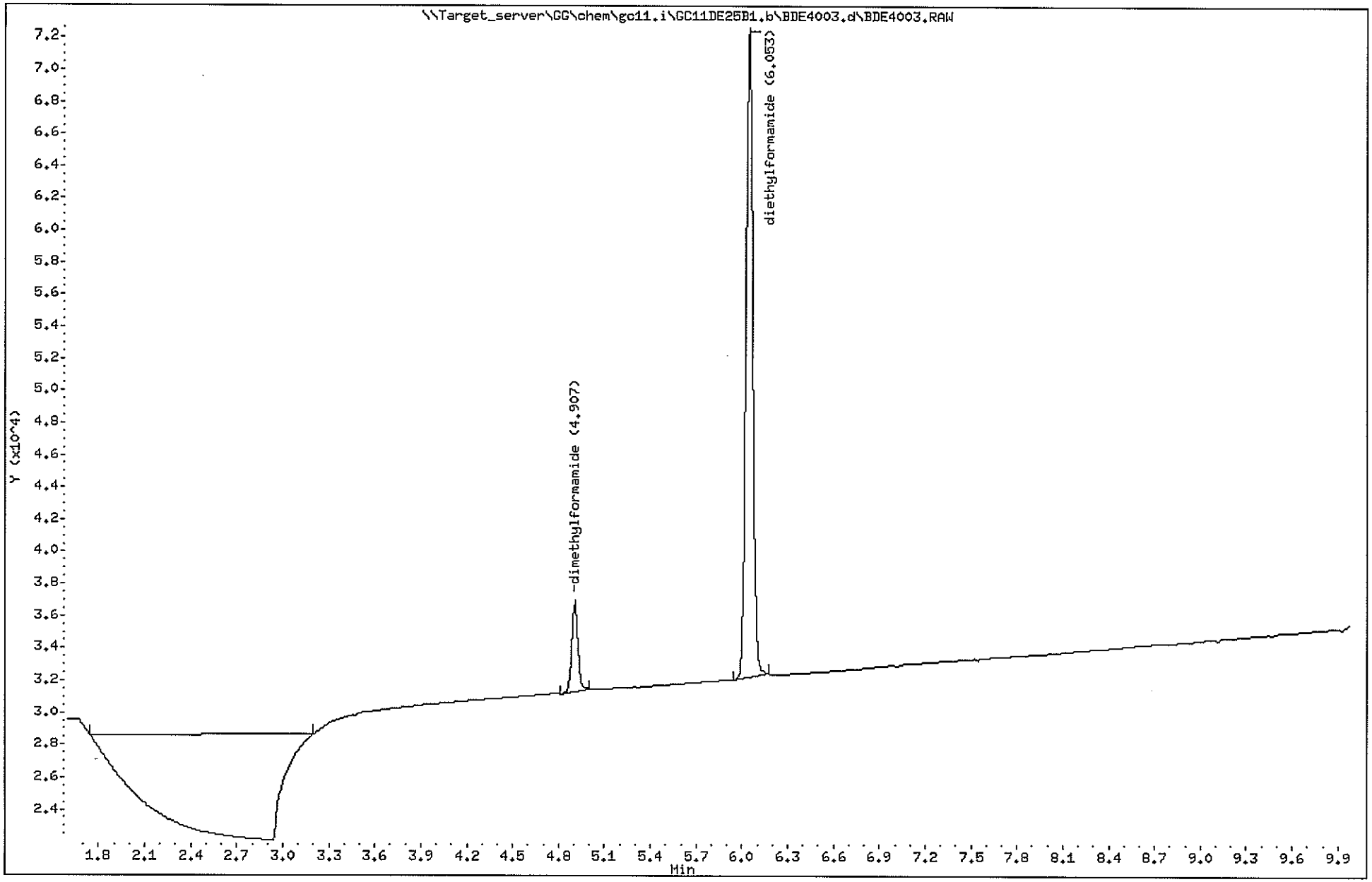
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	4.906	4.840	0.066	15325	0.10000	0.101	
$ 2 diethylformamide	6.053	5.987	0.066	124756	1.00000	0.988	

Data File: \\Target_server\GC\chem\gc11.i\GC11DE25B1.b\BDE4003.d
Date : 25-MAY-2010 12:05
Client ID:
Sample Info: DHFB043A.H,GC11DE25B1.B,1,ICAL 0.1
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000027

Data File: \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4005.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4005.d
Lab Smp Id: ICAL 0.05
Inj Date : 25-MAY-2010 14:17
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DE25B1.B,1,ICAL 0.05
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11DE25B1.B\DMFB043A.m
Meth Date : 26-May-2010 07:06 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 14:17 Cal File: BDE4005.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

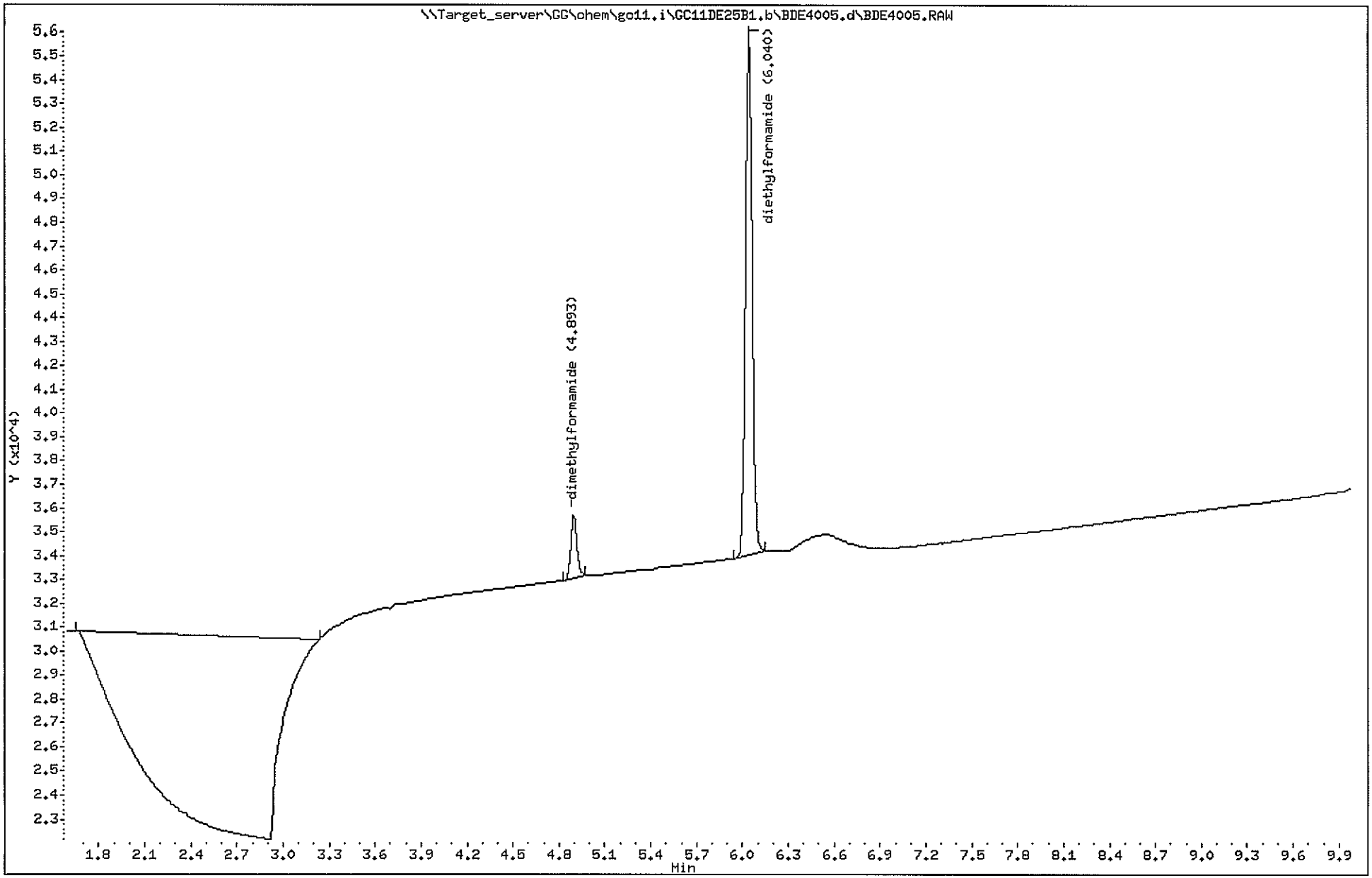
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

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	4.893	4.840	0.053	7241	0.05000	0.0498	
$ 2 diethylformamide	6.040	5.987	0.053	66924	0.50000	0.508	

Data File: \\Target_server\GC\chem\gc11.i\GC11DE25B1.b\BDE4005.d
Date : 25-MAY-2010 14:17
Client ID:
Sample Info: DMFB043A.H,GC11DE25B1.B,1,ICAL 0.05
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000029

Data File: \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4006.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4006.d
Lab Smp Id: ICAL 0.25
Inj Date : 25-MAY-2010 14:31
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DE25B1.B,1,ICAL 0.25
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11DE25B1.B\DMFB043A.m
Meth Date : 26-May-2010 07:06 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 14:31 Cal File: BDE4006.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

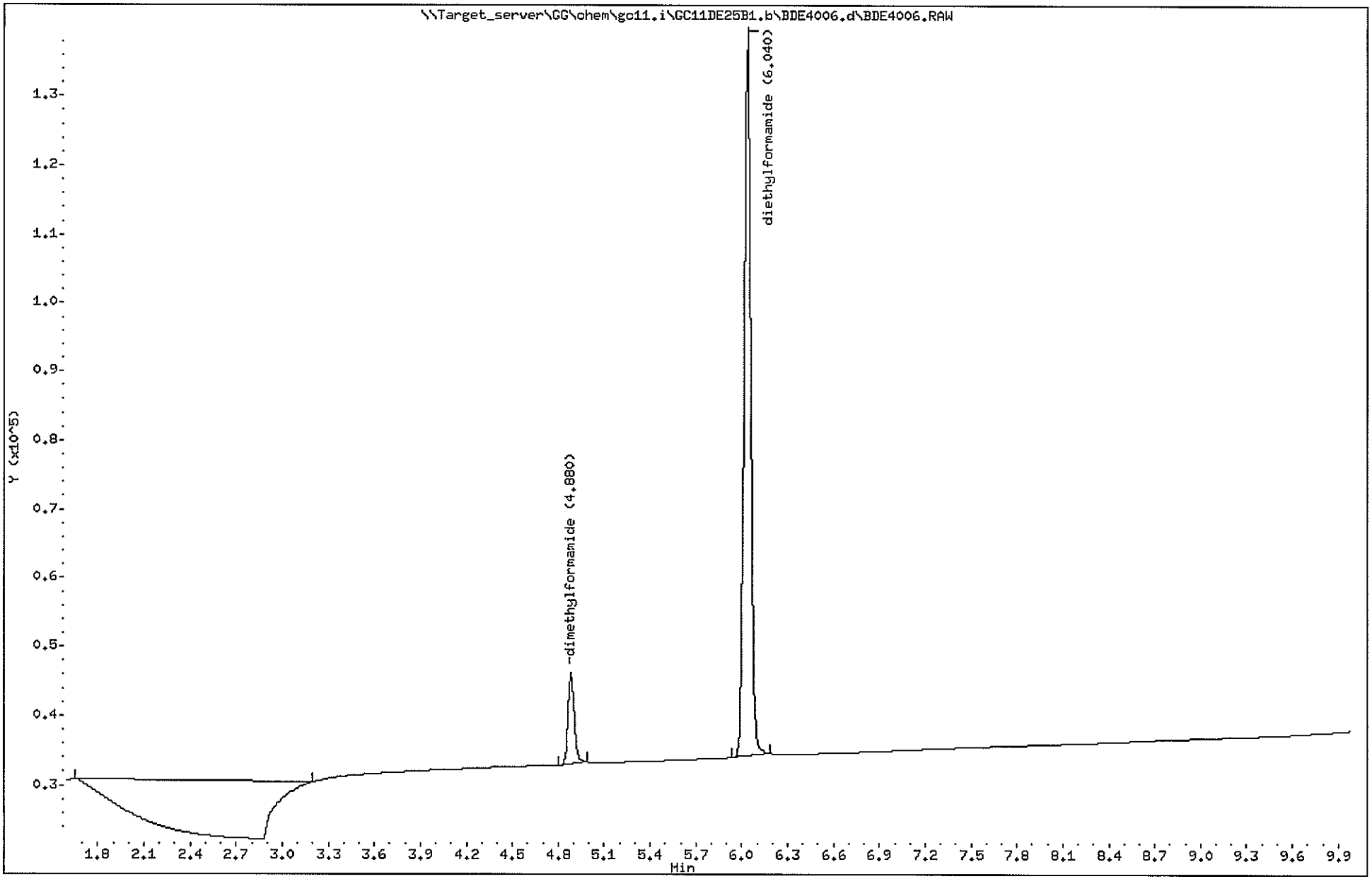
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

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	4.880	4.840	0.040	35723	0.25000	0.248	
$ 2 diethylformamide	6.040	5.987	0.053	315170	2.50000	2.50	

Data File: \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4006.d
Date : 25-MAY-2010 14:31
Client ID:
Sample Info: DHFB043A.M,GC11DE25B1.B,1,ICAL 0.25
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000031

Data File: \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4008.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4008.d
Lab Smp Id: ICAL 0.5
Inj Date : 25-MAY-2010 15:00
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DE25B1.B,1,ICAL 0.5
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11DE25B1.B\DMFB043A.m
Meth Date : 26-May-2010 07:06 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:00 Cal File: BDE4008.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) * 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	4.893	4.840	0.053	77582	0.50000	0.506	
$ 2 diethylformamide	6.040	5.987	0.053	570056	4.00000	4.11(A)	

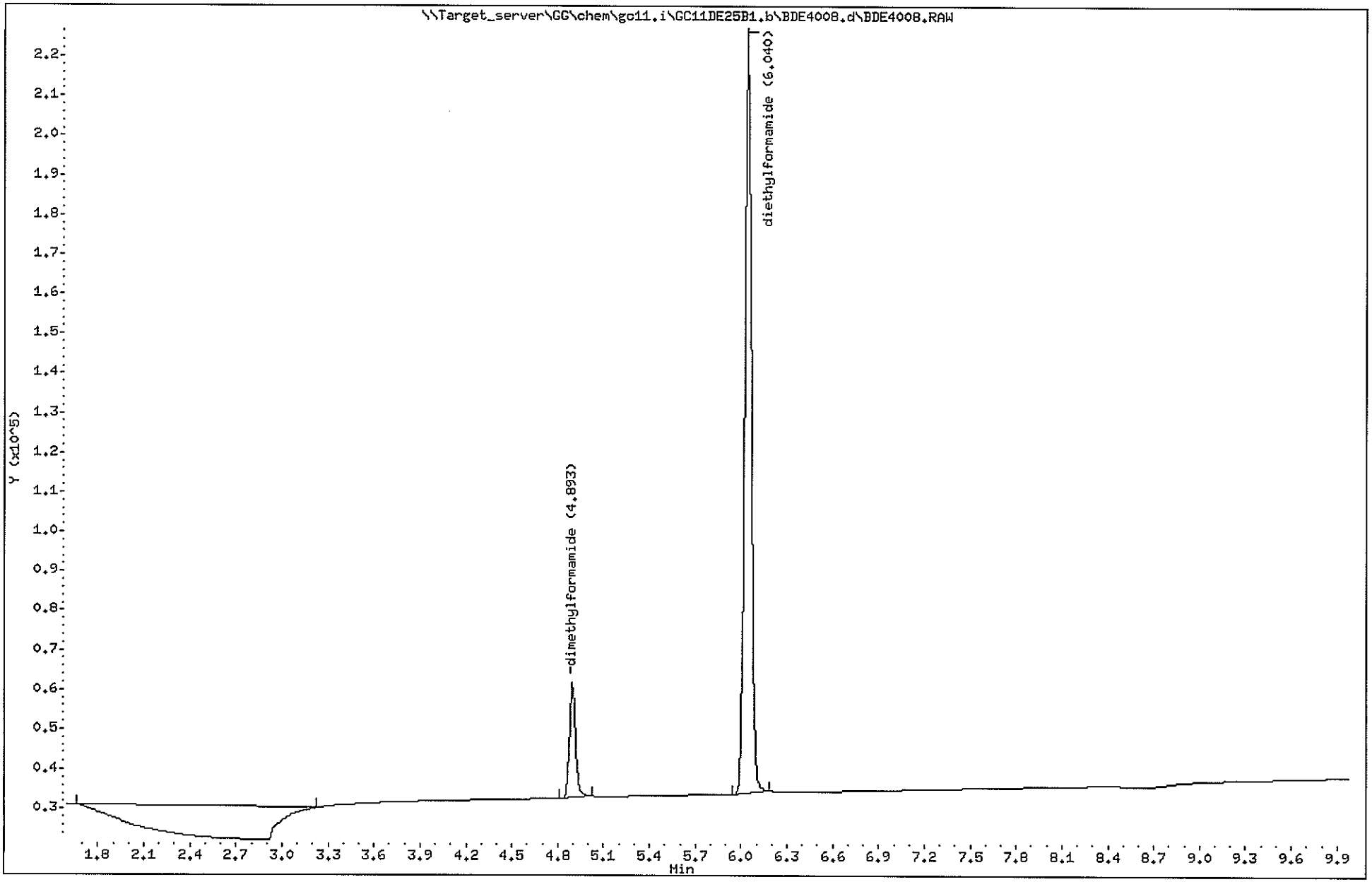
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Target_server\GC\chem\gc11.i\GC11DE25B1.b\BDE4008.d
Date : 25-MAY-2010 15:00
Client ID:
Sample Info: DMFB043A.M,GC11DE25B1.B,1,ICAL 0.5
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000033

Data File: \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4011.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4011.d
Lab Smp Id: ICAL 1.0
Inj Date : 25-MAY-2010 15:43
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DE25B1.B,1,ICAL 1.0
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11DE25B1.B\DMFB043A.m
Meth Date : 26-May-2010 07:06 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.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

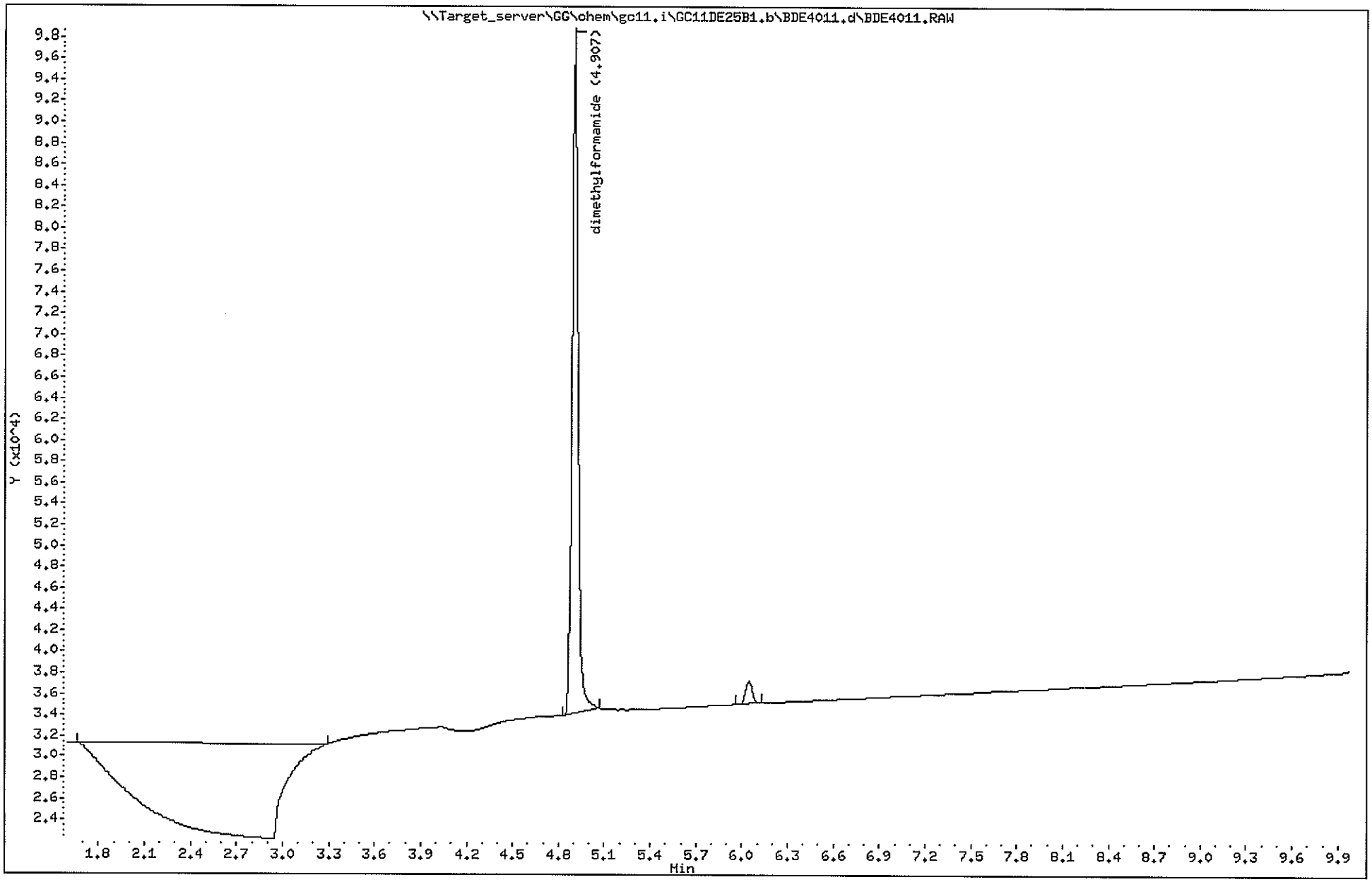
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	4.906	4.840	0.066	170611	1.00000	1.02(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Target_server\GG\chem\gc11.i\GC11DE25B1.b\BDE4011.d
Date : 25-MAY-2010 15:43
Client ID:
Sample Info: DMFB043A.M,GC11DE25B1.B,1,ICAL 1.0
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000035

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Instrument ID: GC11 Calibration Date: 06/14/10 Time: 1414

Lab File ID: BDF2059 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 1129 1543

GC Column: STABILWAX 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	0.2224200	0.2500000	141560.00	0.01	-11.03	25.00	LINR
diethylformamide	2.7290000	2.5000000	150050.00	0.01	9.16	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2059.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2059.d
Lab Smp Id: CV 0.25
Inj Date : 14-JUN-2010 14:14
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11DF14A1.B\DMFB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

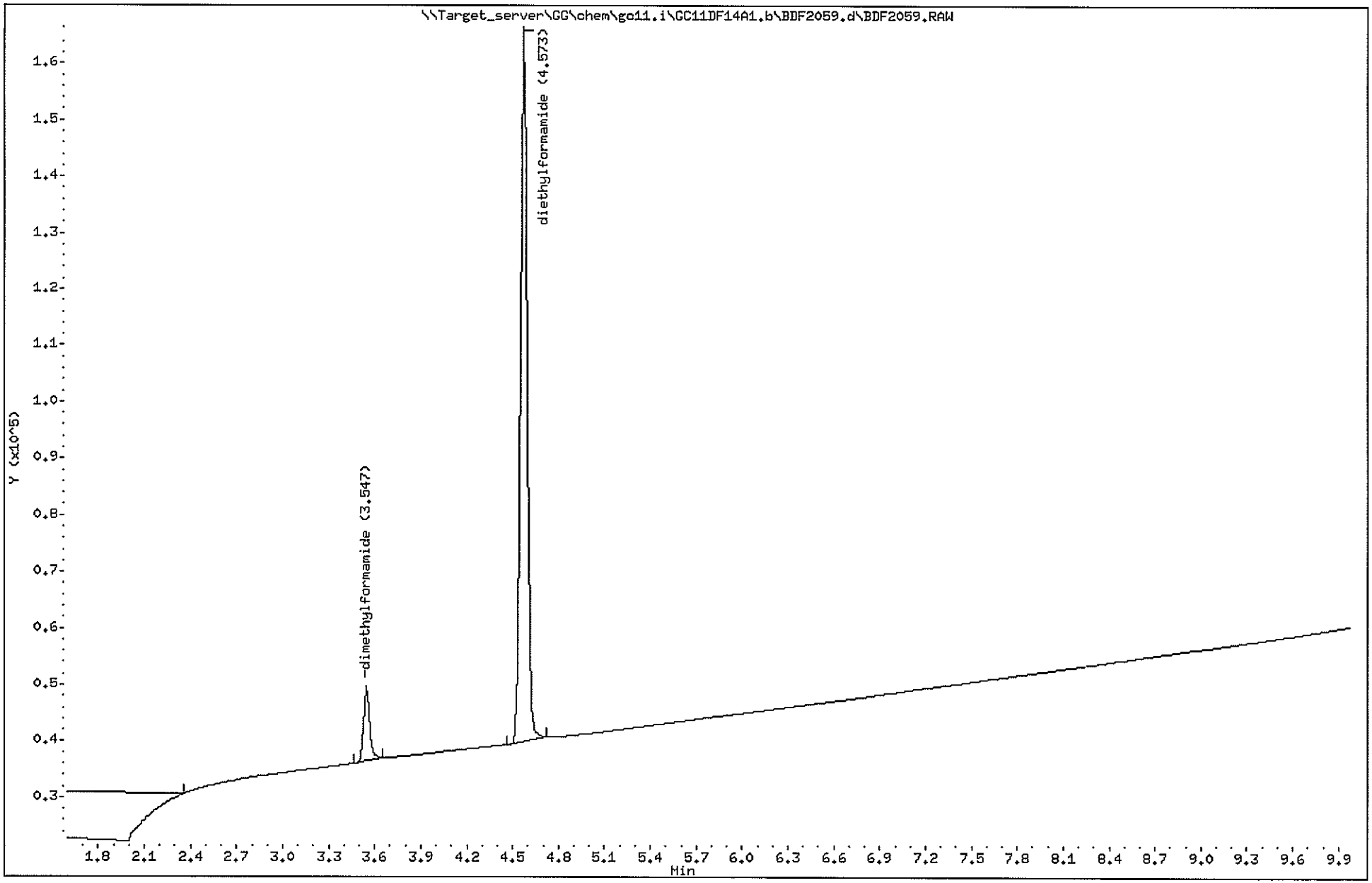
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

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	3.546	3.560	-0.014	35391	0.25000	0.222	
$ 2 diethylformamide	4.573	4.586	-0.013	375132	2.50000	2.73	

Data File: \\Target_server\GC\chem\gc11.i\GC11DF14A1.b\BDF2059.d
Date : 14-JUN-2010 14:14
Client ID:
Sample Info: DHFB043A.H,GC11DF14A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000038

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Instrument ID: GC11 Calibration Date: 06/14/10 Time: 1802

Lab File ID: BDF2075 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 1129 1543

GC Column: STABILWAX 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	0.2476700	0.2500000	158740.00	0.01	-0.93	25.00	LINR
diethylformamide	2.6638000	2.5000000	146380.00	0.01	6.55	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2075.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2075.d
Lab Smp Id: CV 0.25
Inj Date : 14-JUN-2010 18:02
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11DF14A1.B\DMFB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

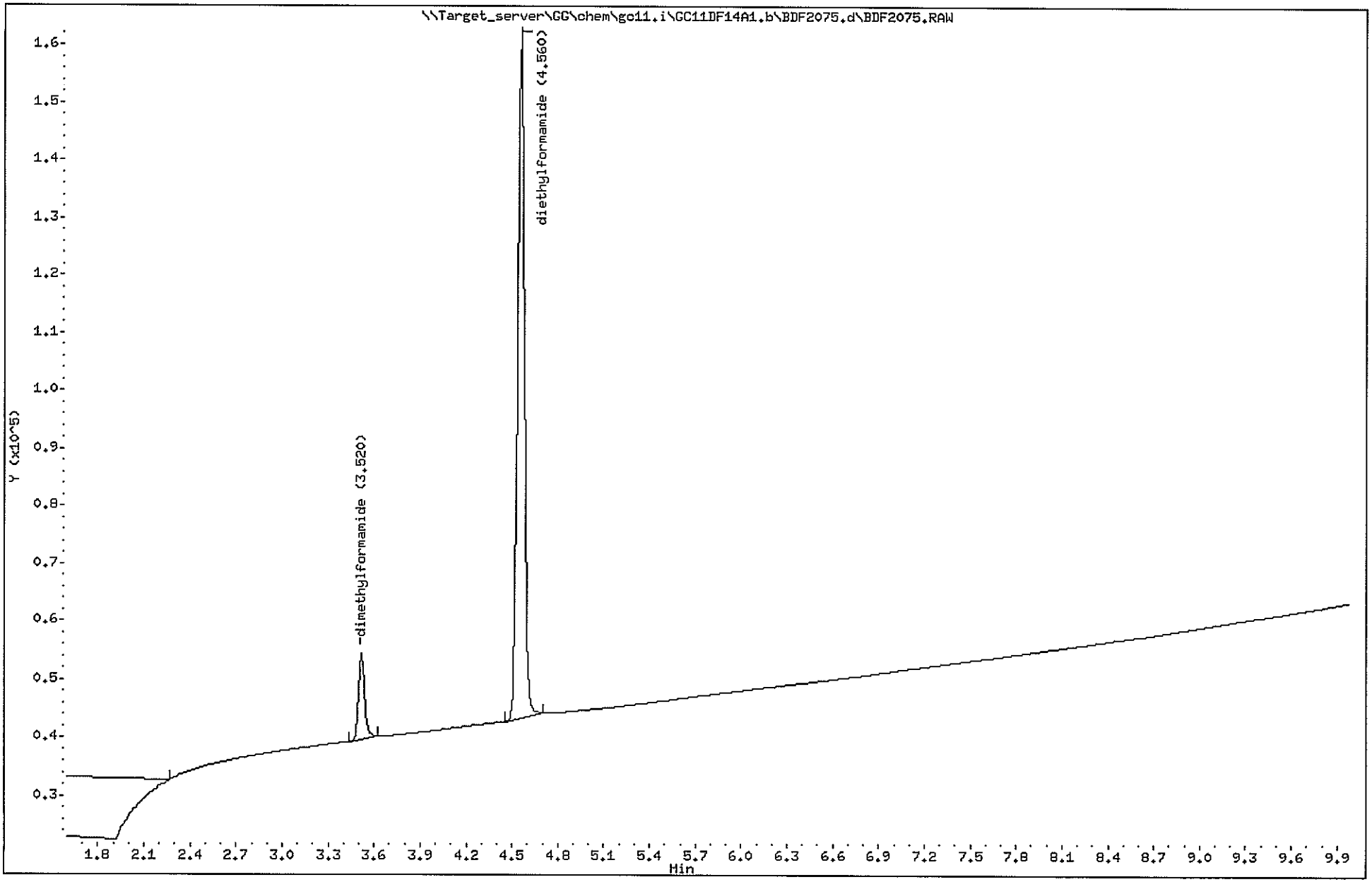
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

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	3.520	3.560	-0.040	39684	0.25000	0.248	
$ 2 diethylformamide	4.560	4.586	-0.026	365949	2.50000	2.66	

Data File: \\Target_server\GC\chem\gc11.i\GC11DF14A1.b\BDF2075.d
Date : 14-JUN-2010 18:02
Client ID:
Sample Info: DHFB043A.H,GC11DF14A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000041

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-12

Instrument ID: GC11 Calibration Date: 06/14/10 Time: 1930

Lab File ID: BDF2081 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 1129 1543

GC Column: STABILWAX 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	0.1924500	0.2500000	121180.00	0.01	-23.02	25.00	LINR
diethylformamide	2.2420000	2.5000000	122620.00	0.01	-10.32	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2081.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2081.d
Lab Smp Id: CV 0.25
Inj Date : 14-JUN-2010 19:30
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11DF14A1.B\DMFB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

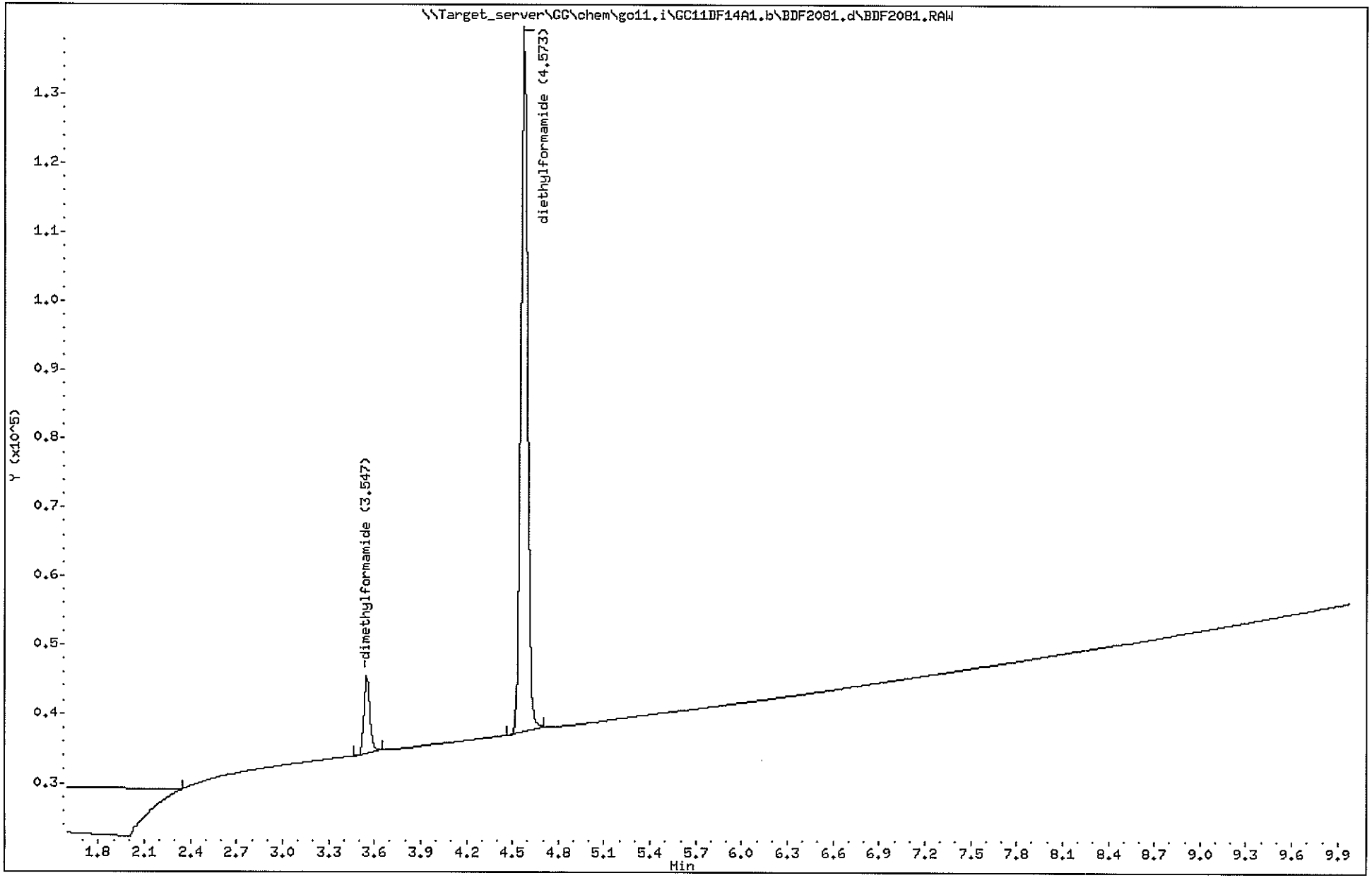
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

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	3.546	3.560	-0.014	30296	0.25000	0.192	
$ 2 diethylformamide	4.573	4.586	-0.013	306557	2.50000	2.24	

Data File: \\Target_server\GC\chem\gc11.i\GC11DF14A1.b\BDF2081.d
Date : 14-JUN-2010 19:30
Client ID:
Sample Info: DMFB043A.H,GC11DF14A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000044

Raw QC Data Section

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: RI Analytical - Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 06/10/10
Analysis Date: 14-JUN-2010 14:43
Report Date: 06/22/2010
Matrix: SOIL
% Solids: 100

Lab ID: WG78406-1
Client ID: WG78406-Blank
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
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		121%				

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2061.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

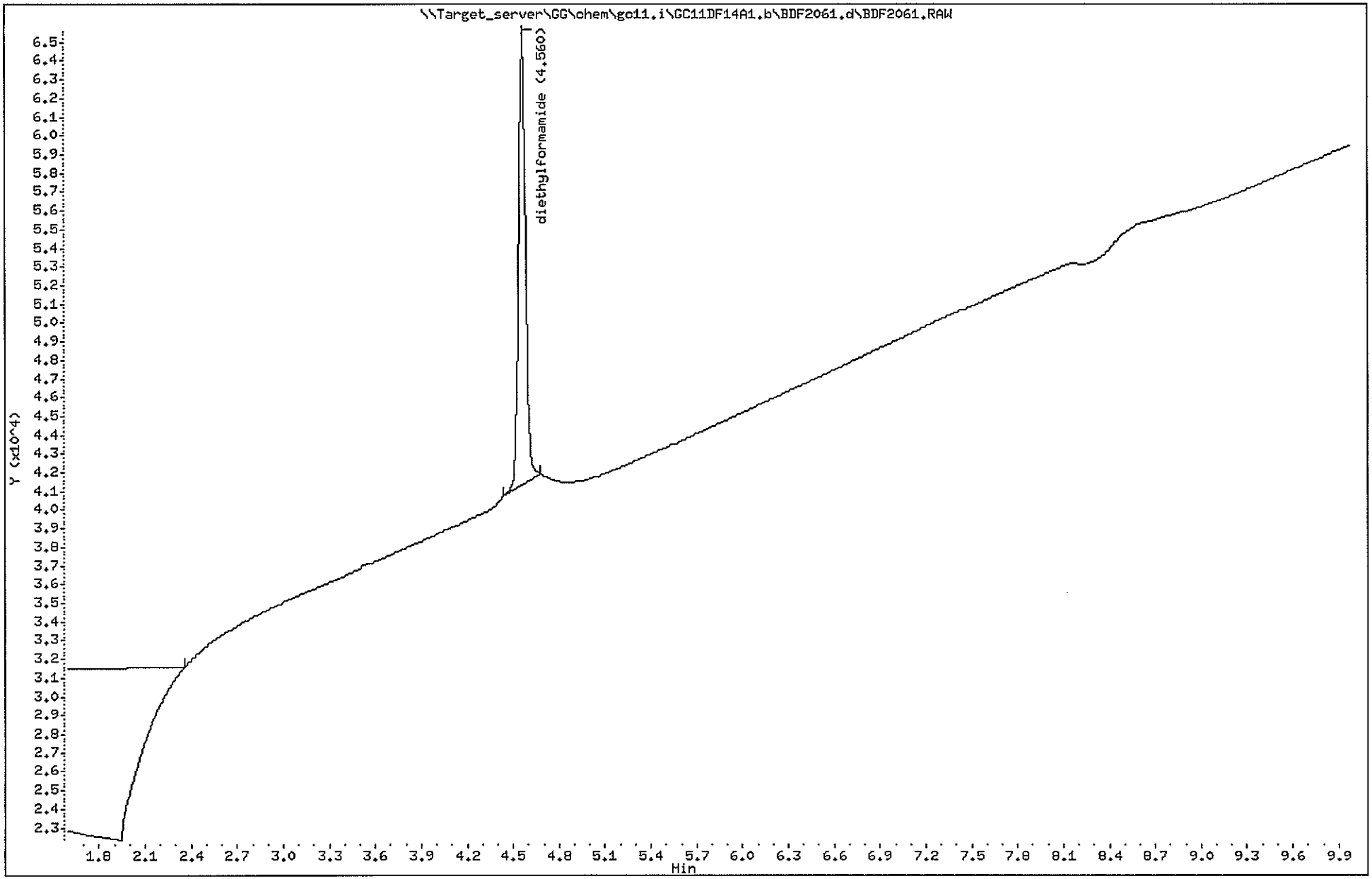
Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2061.d
Lab Smp Id: WG78406-1 Client Smp ID: WG78406-Blank
Inj Date : 14-JUN-2010 14:43
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,WG78406-1
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\dmfB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: olin.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	4.560	4.586	-0.026	76418	0.60744	24.3	

Data File: \\Target_server\GC\chem\gc11.i\GC11DF14A1.b\BDF2061.d
Date : 14-JUN-2010 14:43
Client ID: WG78406-Blank
Instrument: gc11.i
Sample Info: DMFB043A.H,GC11DF14A1.B,1,WG78406-1
Purge Volume: 0.0
Operator: JLP
Column phase: Stabilwax
Column diameter: 0.53



Katahdin Analytical Services 1000048

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: RI Analytical - Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 06/10/10
Analysis Date: 06/14/10
Report Date: 06/22/2010
Matrix: SOIL

Lab ID: WG78406-2 & WG78406-3
Client ID: WG78406-LCS & WG78406-LCSD
SDG: WIL-12
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG78406
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	9.6	9.6	96	96	0.3	50	70-130

FORM III DMF-2

BDF2062.d & BDF2064.d

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2062.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2062.d
Lab Smp Id: WG78406-2 Client Smp ID: WG78406-LCS
Inj Date : 14-JUN-2010 14:57
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,WG78406-2
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\dmfB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: olin.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)	FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	3.533	3.560	-0.027	38510	0.24077	9.63	
$ 2 diethylformamide	4.573	4.586	-0.013	40008	0.34884	14.0(R)	

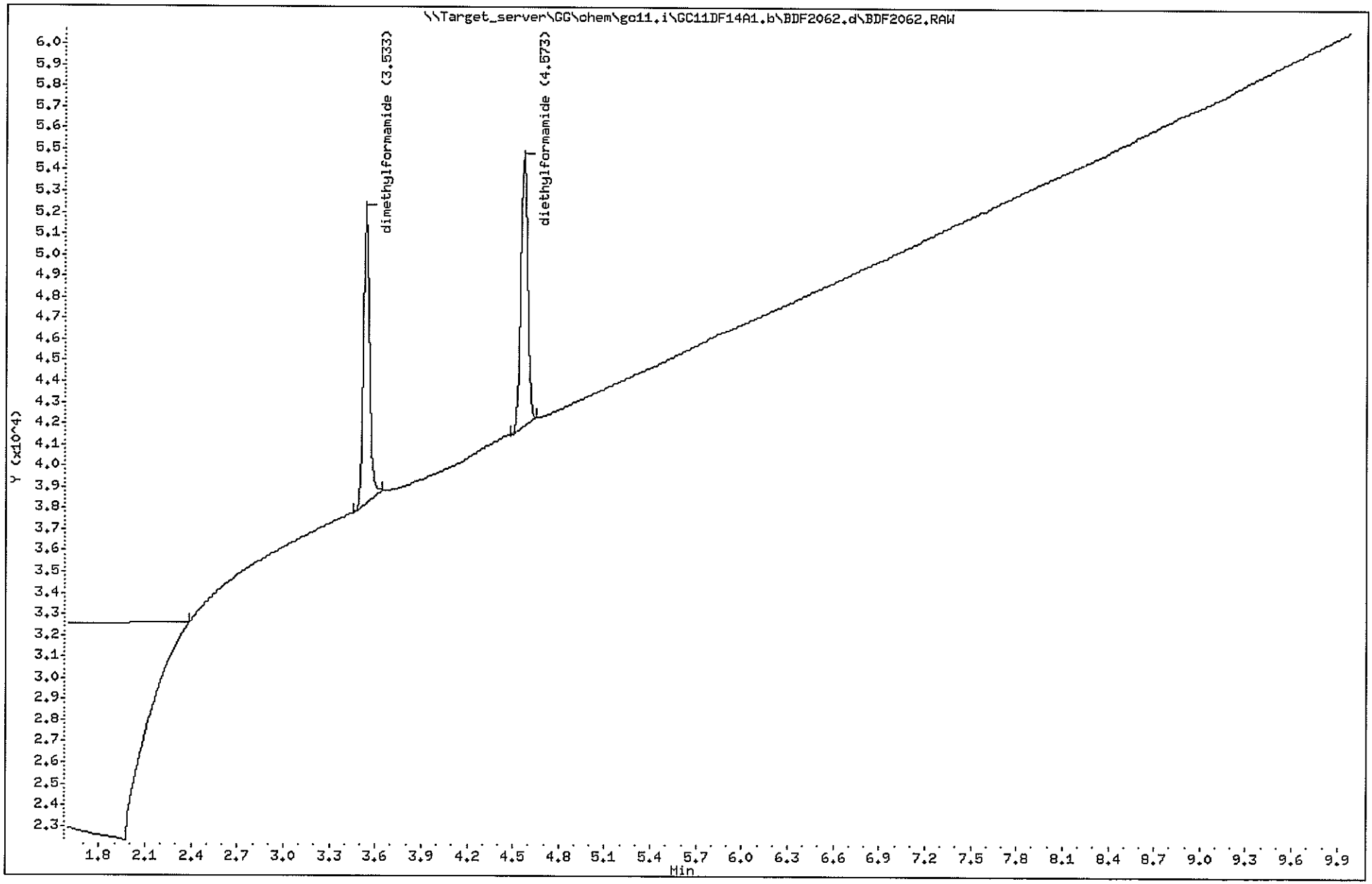
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GC\chem\gc11.i\GC11DF14A1.b\BDF2062.d
Date : 14-JUN-2010 14:57
Client ID: WG78406-LCS
Sample Info: DHFB043A.H,GC11DF14A1.B,1,WG78406-2
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000051

Data File: \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2064.d
Report Date: 22-Jun-2010 09:37

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\BDF2064.d
Lab Smp Id: WG78406-3 Client Smp ID: WG78406-LCSD
Inj Date : 14-JUN-2010 15:25
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB043A.M,GC11DF14A1.B,1,WG78406-3
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11DF14A1.b\dmfB043A.m
Meth Date : 15-Jun-2010 07:11 jprescott Quant Type: ESTD
Cal Date : 25-MAY-2010 15:43 Cal File: BDE4011.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: olin.sub
Target Version: 4.12

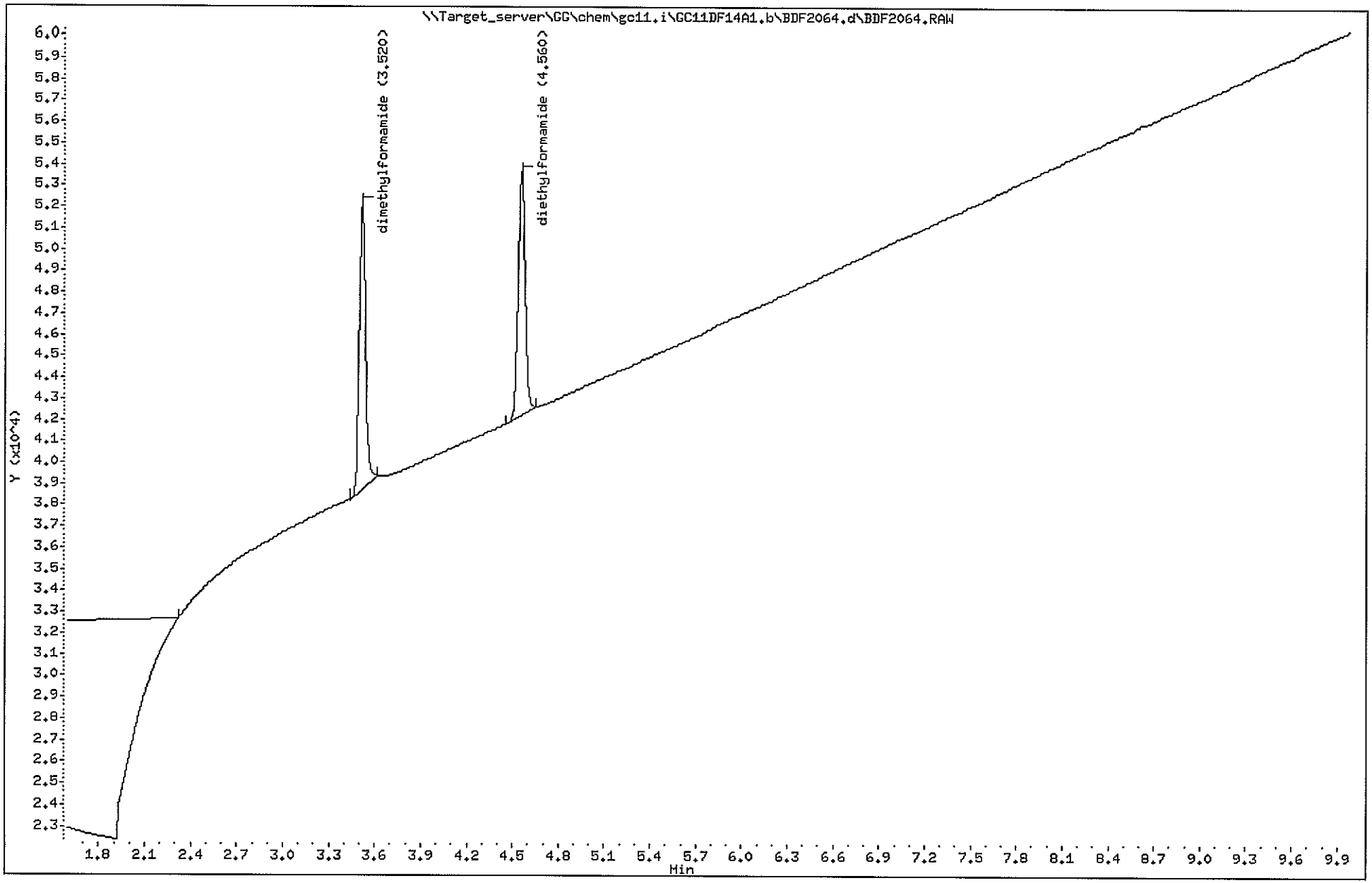
Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

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	3.520	3.560	-0.040	38403	0.24014	9.60	
$ 2 diethylformamide	4.560	4.586	-0.026	36227	0.32199	12.9	

Data File: \\Target_server\GC\chem\gc11.i\GC11DF14A1.b\BDF2064.d
Date : 14-JUN-2010 15:25
Client ID: WG78406-LCSD
Sample Info: DHFB043A.M,GC11DF14A1.B,1,WG78406-3
Purge Volume: 0.0
Column phase: Stabilwax

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



Katahdin Analytical Services 1000053

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

GC SOIL PREP LOG

DiH2O JLP 061010

Date of Sample Preparation	Analyst Initials	Sample #	Sample Weight (g)	Volume Methanol (mL)	Spike ID and Volume (uL)	Surrogate ID and Volume (uL)	Method	Comments JLP 061010
6-10-10	JLP	WG 78406-1	0.99	40	NA	200uL GCV2581 100ug/mL	8033	Shaker start: 14:40 Stop: 0747
		-2	1.00		100uL GCV2590 100ug/mL	100uL GCV2581 100ug/mL		
		-3	1.00					
		-4	1.85		NA	200uL GCV2581 100ug/mL		Dup of SD3208-1A
		SD3208-1A	1.45					
		-2	2.52					
		-3	1.90					

JLP 061110

Reviewed By: _____ Date: _____

QAGC201

Katahdin Analytical Services

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
5-25-10	JLP	DDE2 Z01	CV	N	DMFB042A	342	
		202	Water	N			
		203	CV	N			
		204	Water	N			
		205	CV	N			
		206	Water	N			
5-25-10	JLP	BDE4001	ICAL 0.02	Y	DMFB043A		GCV2583
		02	0.05	N			wrong inst method
		03	0.1	Y			GCV2585
		04	W	N			
		05	ICAL 0.05	Y			GCV2584
		06	0.25	Y			GCV2586
		07	W	N			
		08	ICAL 0.5	Y			GCV2587
		09	Water	N			
		10		N			
		11	ICAL 1.0	Y			GCV2588
		12	water	N			
		13					
		14					
		15	WG726720-1	Y			
		16	-2	Y			SS↑
		17	water	N			
		18	SD2679-12 A	Y			
		19	-13				
		20	-14				
		21	SD2750-1				

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate	5	GCV2581	
2	LCS	10	GCV2591	
3	CV	—	GCV2586	
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 - DME
Signal_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
6-14-10	JLP	BDF20 45	WG78406-1	N	DMFB043A	342	SS ↑
		46	↓ -2	↓			SS+spike ↑
		47	Water	N			
		48	WG78406-3	N			SS+spike ↑
		49	water	N			
		50	WG78524-1	N			SS↑
		51	↓ -2	N			
		52	Water	N			
		53	CV 0.25	N			both ↑
↓	↓	↓ 54	Water	N	↓	↓	
		adjust bead power			↓		
6-14-10	JLP	BDF20 55	CV 0.25	N	DMFB043A	342	
		56	Water	N			
		57	CV 0.25	N			DMF ↓
↓	↓	↓ 58	Water	N	↓	↓	
		adjust bead Power ↑					
6-14-10	JLP	BDF20 59	CV 0.25	Y	DMFB043A	342	
		60	Water	N			
		61	WG78406-1	Y			
		62	↓ -2	Y			SS↑
		63	Water	N			
		64	WG78406-3	Y			
		65	Water	N			
		66	WG78524-1	Y			
		67	↓ -2	Y			SS↑
		68	Water	N			
↓	↓	↓ 69	SD3209-2RA B	Y	↓	↓	SS↑

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate	5	GCV2581	
2	LCS	10	GCV2591	
3	CV	—	GCV2586	
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
6-14-10	JLP	BDF2070	SD32481-1 A	Y	DMF 6043A	342	2x spike
		71	-2				
		72	-3				SS↑
		73	WG-78524-3				SD32481 Dup 2x spike
		74	Water	N			
		75	CV 0.25	Y			
		76	Water	N			
		77	SD3208-1	Y			
		78	-2				
		79	-3				
		80	WG-78406-4				SD3208-1 Dup
		81	CV 0.25	Y			
		82	Water	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate	5	GCV2581	
2	LCS	10	GCV2591	
3	CV	—	GCV2586	
4				

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	WG78810	ASTM D2216	21-JUN-10	18-JUN-10	U 1 %	1 %

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
WG78810-2	LCS	WG78810	21-JUN-10	18-JUN-10	%	90	90.	100	80-120	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://katahdinlab.com

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.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample ID: SD3208-1
Report Date: 24-JUN-10
Client PO: ERRE9844, REWI0014
Project: RI Analytical - Wilmington
SDG: WIL-12

Sample Description	Matrix	Date Sampled	Date Received
SS-441-0.0/1.0-XXX	SL	03-JUN-10	04-JUN-10

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	66. %	1	SM2540G	WG78810	21-JUN-10 11:00:00	ASTM D2216	18-JUN-10	JF	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample ID: SD3208-2
Report Date: 24-JUN-10
Client PO: ERRE9844, REWI0014
Project: RI Analytical - Wilmington
SDG: WIL-12

Sample Description	Matrix	Date Sampled	Date Received
SS-443-0.0/1.0-XXX	SL	03-JUN-10	04-JUN-10

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	58. %	1	SM2540G	WG78810	21-JUN-10 11:00:00	ASTM D2216	18-JUN-10	JF	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample ID: SD3208-3
Report Date: 24-JUN-10
Client PO: ERRE9844, REWI0014
Project: RI Analytical - Wilmington
SDG: WIL-12

Sample Description	Matrix	Date Sampled	Date Received
SS-447-0.0/1.0-XXX	SL	03-JUN-10	04-JUN-10

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	33. %	1	SM2540G	WG78810	21-JUN-10 11:00:00	ASTM D2216	18-JUN-10	JF	

Raw Data Section

TOTAL SOLIDS BATCH REPORT
Jun 21 2010, 02:31 pm
Batch: WG78810

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SD3208-1	SL	SAMP	WG78810	18-JUN-10	1.05 g	6.79 g	4.818 g	JF	21-JUN-10	65.6440	66. %		
SD3208-2	SL	SAMP	WG78810	18-JUN-10	1.008 g	5.732 g	3.749 g	JF	21-JUN-10	58.0230	58. %		
SD3208-3	SL	SAMP	WG78810	18-JUN-10	.993 g	3.551 g	1.83 g	JF	21-JUN-10	32.7210	33. %		
SD3466-1	SL	SAMP	WG78810	18-JUN-10	1.019 g	4.256 g	2.7 g	JF	21-JUN-10	51.9310	52. %		
SD3478-1	SL	SAMP	WG78810	18-JUN-10	1.013 g	9.396 g	7.933 g	JF	21-JUN-10	82.5480	82. %		
SD3482-1	SL	SAMP	WG78810	18-JUN-10	1.032 g	5.028 g	2.706 g	JF	21-JUN-10	41.8920	42. %		
SD3486-2	SL	SAMP	WG78810	18-JUN-10	1.03 g	3.932 g	1.876 g	JF	21-JUN-10	29.1520	29. %		
SD3486-3	SL	SAMP	WG78810	18-JUN-10	1.032 g	4.96 g	2.106 g	JF	21-JUN-10	27.3420	27. %		
SD3508-1	SL	SAMP	WG78810	18-JUN-10	1.009 g	3.627 g	1.992 g	JF	21-JUN-10	37.5480	38. %		
SD3508-2	SL	SAMP	WG78810	18-JUN-10	1.003 g	8.378 g	3.869 g	JF	21-JUN-10	38.8610	39. %		
SD3508-3	SL	SAMP	WG78810	18-JUN-10	1.038 g	5.135 g	2.613 g	JF	21-JUN-10	38.4430	38. %		
WG78810-1	SL	MBLANK	WG78810	18-JUN-10	1.009 g	1.009 g	1.008 g	JF	21-JUN-10	-0.1000	1 %		
WG78810-2	SL	LCS	WG78810	18-JUN-10	1.016 g	6.026 g	5.51 g	JF	21-JUN-10	89.7000	90. %	100	
WG78810-3	SL	DUP	WG78810	18-JUN-10	1.039 g	4.272 g	2.727 g	JF	21-JUN-10	52.2120	52. %		0

Comments:

SD3486-4	MS/MSD
WG78810-1	SD3466-1
WG78810-2	SD3466-1
WG78810-3	SD3466-1
WG78810-4	SD3486-4

Entered by: _____ Date: 6-21-10 Accepted by: _____ Date: 06·22·10

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TOTAL SOLIDS: ASTM D2216		PQL: 0.10%	BALANCE ID: [illegible]
TOTAL VOLATILE SOLIDS: SM2540 G	E160.4	PQL: 0.10%	ASTM CLASS 1 WEIGHTS: WG 78810 R1290 B1

ANALYST IN: [signature]	ANALYST OUT: [signature]		
DATE IN: 6-18-10	DATE OUT: 6-21-10		
TIME IN: 1320	TIME OUT: 810		
TEMP IN: 103	TEMP OUT: 103		
Oven ID: 107N0042 FISHER	Muffle Oven ID:		
CHECKED BY: [signature]	DATE: 06-22-10		

TRUE WT (g)	INITIAL WT (g)	FINAL WT (g)
2.0000	2.001	2.000
5.0000	5.000	5.000
10.0000	10.001	10.000
100.0000		

	SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
WG78810-1	Blank	1	1.009	1.009	1.008		1100
-2	Lcs	2	1.016	6.026	5.510		1101
	SD3466-1A	3	1.019	4.256	2.700		1102
-3	Dx-1A	4	1.033	4.272	2.727		1103
	SD3482-1A	5	1.032	5.028	2.706		1104
	SD3208-1A	6	1.050	6.790	4.818		1105
	-2A	7	1.008	5.732	3.749		1106
	-3A	8	0.993	3.551	1.830		1107
	SD3508-1A	9	1.009	3.627	1.992		1108
	-2A	10	1.003	8.378	3.869		1109
	-3A	11	1.038	5.135	2.613		1110
	SD3486-2A	12	1.030	3.932	1.876		1111
	-3A	13	1.032	4.960	2.106		1112
*	-4B	14	1.035	6.218	3.696	DELETED	1113
-4	Dx-4D	15	1.037	6.251	3.186		1114
	SD3478-1A	16	1.013	9.396	7.933		1115

6-21-10 [signature]

* RPD HIGH - DD OVER

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