N90845.AR.001863
NWIRP BETHPAGE
5090.3a

VALIDATED DATA PACKAGE, TH0532, NWIRP BETHPAGE NY
1/9/2015
KATAHDIN ANALYTICAL SERVICES

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. WE15 SDG NO. TH0532 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

CONTRACT NO. _____
SOW NO. _____

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)	0000001	0000005	✓	
2. **SDG Case Narrative**	0000008	0000010	✓	
3. **SDG Cover Sheet/Traffic Report**	0000006	0000007	✓	
4. **Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000017	0000019	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	—	—	✓	
Method Blank Summary (Form IV VOA)	0000020	0000021	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000022	0000024	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000025	0000026	✓	
b. Sample Data	0000027	0000048		
TCL Results - (Form I VOA-1, VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	0000049	0000100		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data			✓	
BFB	0000101	0000109	✓	
Blank Data	0000110	0000120	✓	
Martix Spike/Matrix Spike Duplicate Data	0000121	0000139	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. TH0532 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	—	—	✓	
f. Raw Florisil Data	—	—	✓	
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages	0000133	0000136	✓	
Internal sample and sample extract transfer chain-of-custody records	0000015	0000016	✓	
Screening records	—	—	✓	
All instrument output, including strip charts from screening activities (describe or list)				
	—	—	✓	
	—	—	✓	
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments _____)	—	—	✓	
Chain-of-Custody Records	0000012	0000012	✓	
Sample Tags			✓	
Sample Log-in Sheet (Lab & DC1)	—	—	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
Sample Receipt Condition Report	0000011	0000011	✓	
Login Chain of Custody	0000013	0000014	✓	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
	—	—	✓	
	—	—	✓	
10. **Other Records** (describe or list)				
Telephone Communication Log	—	—	✓	
	—	—	✓	
	—	—	✓	

11. **Comments:** —

FORM DC-2-4 OLM04.2

0000002

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. THO532 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	Leslie Dimond (Signature)	Leslie Dimond QAO (Printed Name/Title)	01.09.15 (Date)
Verified by: (CLP Lab)	(Signature)	(Printed Name/Title)	(Date)
Audited by: (EPA)	(Signature)	(Printed Name/Title)	(Date)

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, ME
CASE NO. WE15 SDG NO. TH0532 SDG NOS. TO FOLLOW
CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - ILM05.4, Exhibit B Section 2.6)

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1. Cover Page	0000006	0000007	✓	
2. SDG Narrative	0000008	0000010	✓	
3. Sample Log-In Sheet (DC-1)	—	—	✓	
4. Inventory Sheet (DC-2))	0000001	0000005	✓	
5. Traffic Report/Chain of Custody Record(s)	0000012	0000015	✓	
Inorganic Analysis				
6. Data Sheet (Form I-IN)	0000143	0000146	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	—	—	✓	
8. CRQL Standard(Form IIB-IN)	—	—	✓	
9. Blanks (Form III-IN)	0000137	0000139	✓	
10. ICP-AES Interference Check Sample (Form IVA-IN)	—	—	✓	
11. ICP-MS Interference Check Sample(Form IVB-IN)	—	—	✓	
12. Matrix Spike Sample Recovery(Form VA-IN)	0000142	0000142	✓	
13. Post-Digestion Spike Sample Recovery(Form VB-IN)	—	—	✓	
14. Duplicates (Form VI-IN)	0000141	0000141	✓	
15. Laboratory Control Sample(Form VII-IN)	0000140	0000140	✓	
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	—	—	✓	
17. Method Detection Limits (Annually) (Form IX-IN)	—	—	✓	
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	—	—	✓	
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	—	—	✓	
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	—	—	✓	
21. Preparation Log (Form XII-IN)	—	—	✓	
22. Analysis Run Log (Form XIII-IN)	—	—	✓	

FORM DC-2-2 M&E DAS

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
23. ICP-MS Tune (Form XIV-IN)	–	–	✓	
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	–	–	✓	
25. ~~ICP-AES~~ Raw Data Wet Chemistry	0000143	0000172	✓	
26. ICP-MS Raw Data	–	–	✓	
27. Mercury Raw Data	–	–	✓	
28. Cyanide Raw Data	–	–	✓	
29. Preparation Logs Raw Data (Wet Chemistry)	–	–	✓	
30. Percent Solids Determination Log	–	–	✓	
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	–	–	✓	
Sample Tags	–	–	✓	
Sample Log-In Sheet (Lab)	–	–	✓	
32. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	–	–	✓	
Sample Receipt Condition Report	0000011	0000011	✓	
	–	–	✓	
33. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	–	–	✓	
Internal Chain of Custody	0000015	0000016	✓	
Login Chain of Custody Report	0000013	0000014	✓	
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	–	–	✓	
Analysis Records	–	–	✓	
Description Duplicate Precision Form	–	–	✓	
35. Other Records (describe or list)	–	–	✓	
Telephone Communications Log				
DAS Specifications	–	–	✓	

36. Comments

Completed by:
(CLP Lab) Leslie Dimmd (Signature) Leslie Dimmd QAO (Print Name & Title) 01.09.14 (Date)

Audited by:
(USEPA) _____ (Signature) _____ (Print Name & Title) _____ (Date)

FORM DC-2-2 M&E DAS

ENSAFE
NAVY CLEAN WE15-03-06
NWIRP BETHPAGE, NY
TH0532

KATAHDIN ANALYTICAL SERVICES, LLC
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ENSAFE
NAVY CLEAN WE15-03-06 NWIRP BETHPAGE, NY
TH0532

Sample Receipt

The following samples were received on December 12, 2014 and were logged in under Katahdin Analytical Services work order number TH0532 for a hardcopy due date of December 31, 2014

KATAHDIN Sample No.	AECOM Sample Identification
TH0532-1	VPB153-GW-120814-718-720
TH0532-2	VPB153-GW-120814-738-740
TH0532-3	VPB153-TRIP BLANK-121114
TH0532-4	VPB153-SOIL-112014-423-425
TH0532-5	VPB153-SOIL-D-112014

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.

Some of the client IDs on the Chain of Custody exceeds the 19-character limit of the Katahdin Analytical Information Management System. Therefore, the first characters "VPB" and middle characters "GW-" in the client ID for samples TH0532-1 and 2 were omitted on all forms and the middle characters "TRIP BLANK" for sample TH0532-3 were truncated to "TB" on all forms. The first characters "VPB" and middle characters "SOIL-" in the client ID for sample TH0532-4 were omitted on all forms. The first character "V" in the client ID for sample TH0532-5 was omitted on all forms.

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. Jennifer Obrin**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order TH0532 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.

8260B Analysis

Samples TH0532-2DL and 3 were manually integrated for the target analyte acetone. 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.

The independent check standard (file C0225A), associated with the initial calibration analyzed on the D instrument on 11/26/14, had a high concentration for the target analyte carbon disulfide, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL.

Due to vials containing mostly soil and not very much liquid, three vials of sample TH0532-2 had to be decanted, composited into one vial and due to limited volume analyzed at a dilution of 1:4. One vial of sample TH0532-1 was decanted and analyzed.

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

Wet Chemistry Analysis

The samples of Work Order TH0532 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total organic carbon in soil were performed according to "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.

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 Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All analyses were performed within analytical holding times. 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 01.06.15

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc. — Sample Receipt Condition Report

Client: AECOM	KAS PM: JO	Sampled By: Client
Project:	KIMS Entry By: GN	Delivered By: FedEx
KAS Work Order#: TH0532	KIMS Review By: JO	Received By: GN
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 12-12-14/09:00

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): 3.0
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) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
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: **Aqueous:** No bubble larger than a pea?	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
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

0000001P

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page 1 of 1

Client: Resolution Consultants
Contact: Eleanor Vivandu
Phone #: (845) 425-4820
Fax #: ( )
Address: Two Red Schoolhouse Rd
City: Chestnut Ridge
State: NY
Zip Code: 10977
Purchase Order #:
Proj. Name / No.: NYSEG Rothpage / 60260526
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Michael Zobel / Michael Zobel
Copies To:

LAB USE ONLY
WORK ORDER #: THG532
KATAHDIN PROJECT NUMBER:
REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC	VOC	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	VPB153-GW-120814-718-720	12-8-14 / 1200	GW	3	X											
	VPB153-GW-120814-738-740	12-8-14 / 1415	GW	3	X											
	VPB153-Trip Blank-121114	12-11-14 / 1130	W	3	X											
	VPB153-Soil-112014-423-425	11-20-14 / 1230	S	1		X										
	VPB153-Soil-D-112014	112014 / —	S	1		X										
	VPB153-Soil-MS/MSD-112014-423-425	11-20-14 / 1230	S	1		X										
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Michael Zobel	12-11-14 / 1230	12-12-14 0900			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Dec. 12, 2014
02:04 PM

Login Number: TH0532

Account: ENSAFE001
ENSAFE

NoWeb

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

Primary Report Address:
Dana Miller
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134
dmiller@Ensafe.com

Primary Invoice Address:
Accounts Payable
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: AECOM-BETHPAGE

Login Information:

ANALYSIS INSTRUCTIONS	:	Form 1's due in 48 hrs for VOCs. Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ.
CHECK NO.	:	
CLIENT PO#	:	16518
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	
COOLER TEMPERATURE	:	3.0
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	GN
PM	:	JO
PROJECT NAME	:	Navy Clean WE15-03-06 NWIRP Bethpage, NY
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send HC and CD to Dana. Email invoice to purchasing@ensafe.com
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
TH0532-1	153-120814-718-720	08-DEC-14 12:00	12-DEC-14		**16-DEC-14**	31-DEC-14	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***
Aqueous S	SW8260-S	22-DEC-14	40mL Vial+HCl				**VPB153-GW-120814-718-720**
TH0532-2	153-120814-738-740	08-DEC-14 14:15	12-DEC-14		**16-DEC-14**	31-DEC-14	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***
Aqueous S	SW8260-S	22-DEC-14	40mL Vial+HCl				**VPB153-GW-120814-738-740**
TH0532-3	VPB153-TB-121114	11-DEC-14 00:00	12-DEC-14		**16-DEC-14**	31-DEC-14	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***
Aqueous S	SW8260-S	25-DEC-14	40mL Vial+HCl				**VPB153-Trip Blank-121114**

Total Samples: 5 ***Total Analyses: 7***

12.12.14

00000013

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Dec. 12, 2014
02:04 PM

Login Number: TH0532

Account: ENSAFE001
ENSAFE

NoWeb

Quote/Incoming: AECOM-BETHPAGE

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

Primary Report Address:
Dana Miller
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134
dmiller@Ensafe.com

Primary Invoice Address:
Accounts Payable
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134

Report CC Addresses:
Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	Form 1's due in 48 hrs for VOCs. Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ.
CHECK NO.	:	
CLIENT PO#	:	16518
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	
COOLER TEMPERATURE	:	3.0
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	GN
PM	:	JO
PROJECT NAME	:	Navy Clean WE15-03-06 NWIRP Bethpage, NY
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send HC and CD to Dana. Email invoice to purchasing@ensafe.com
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
TH0532-4	153-112014-423-425	20-NOV-14 12:30	12-DEC-14			31-DEC-14	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW9060M-TOC	18-DEC-14	4oz Glass		MS/MSD, VPB153-Soil-112014-423-425
Solid	S	TS	20-DEC-14	4oz Glass		

TH0532-5	PB153-SOIL-D-112014	20-NOV-14 00:00	12-DEC-14			31-DEC-14	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW9060M-TOC	18-DEC-14	4oz Glass		VPB153-Soil-D-112014
Solid	S	TS	20-DEC-14	4oz Glass		

Total Samples: **5** ***Total Analyses:*** **7**

gp
12.12.14

0000014

Katahdin Analytical Services, Inc.
Container Transfer History for TH0532

Samplenum TH0532-1

Container Id TH0532-1A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
13-DEC-14 08:05	VOA_FRIDGE1	VOA_FRIDGE1	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 12/12/14 10:51 .

Container Id TH0532-1B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
13-DEC-14 08:05	VOA_FRIDGE1	VOA_FRIDGE1	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 12/12/14 10:51 .

Container Id TH0532-1C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
13-DEC-14 10:07	VOA_FRIDGE1	GC/MS	RCROCKER	N	
15-DEC-14 07:25	GC/MS	WALK-IN	RCROCKER	N	

Samplenum TH0532-2

Container Id TH0532-2A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
13-DEC-14 08:05	VOA_FRIDGE1	VOA_FRIDGE1	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 12/12/14 10:51 .

Container Id TH0532-2B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
13-DEC-14 08:05	VOA_FRIDGE1	VOA_FRIDGE1	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 12/12/14 10:51 .

Container Id TH0532-2C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
13-DEC-14 08:05	VOA_FRIDGE1	VOA_FRIDGE1	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 12/12/14 10:51 .

Samplenum TH0532-3

Container Id TH0532-3A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
13-DEC-14 08:05	VOA_FRIDGE1	VOA_FRIDGE1	RCROCKER	Y	This container has not been properly returned to CUSTODY! It was last assigned to GNICKERSON for department CUSTODY on 12/12/14 10:51 .

Container Id TH0532-3B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments

Katahdin Analytical Services, Inc.
Container Transfer History for TH0532

Samplenum TH0532-3

Container Id TH0532-3B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id TH0532-3C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum TH0532-4

Container Id TH0532-4A **Containertype 4oz Glass** **Matrix SL**

Product *TS, SW9060M-TOC*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	WALK-IN	GNICKERSON	N	
17-DEC-14 10:48	WALK-IN	WET CHEMISTRY	CBAGLEY	N	
17-DEC-14 16:19	WET CHEMISTRY	WALK-IN	ROLIVER	N	

Container Id TH0532-4B **Containertype 4oz Glass** **Matrix SL**

Product *TS, SW9060M-TOC*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	WALK-IN	GNICKERSON	N	
12-DEC-14 16:30	WALK-IN	WET CHEMISTRY	AZAZZARA	N	
12-DEC-14 17:14	WET CHEMISTRY	WALK-IN	AZAZZARA	N	

Samplenum TH0532-5

Container Id TH0532-5A **Containertype 4oz Glass** **Matrix SL**

Product *TS, SW9060M-TOC*

Transferdate	From	To	Analyst	Custody Break	Comments
12-DEC-14 10:51	LOGIN	WALK-IN	GNICKERSON	N	
12-DEC-14 16:30	WALK-IN	WET CHEMISTRY	AZAZZARA	N	
12-DEC-14 17:14	WET CHEMISTRY	WALK-IN	AZAZZARA	N	
17-DEC-14 10:48	WALK-IN	WET CHEMISTRY	CBAGLEY	N	
17-DEC-14 16:19	WET CHEMISTRY	WALK-IN	ROLIVER	N	

VOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** TH0532

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
153-120814-718-720	TH0532-1		94.6		105.		105.		101.	
153-120814-738-740	TH0532-2DL		94.5		108.		111.		101.	
VPB153-TB-121114	TH0532-3		92.1		98.5		101.		99.0	
Laboratory Control S	WG155562-1		96.1		92.5		88.2		97.0	
Method Blank Sample	WG155562-2		92.0		99.0		98.4		96.8	
Laboratory Control S	WG155629-1		96.7		93.8		90.4		97.2	
Method Blank Sample	WG155629-2		94.4		103.		107.		101.	

		QC Limits
DCA	1,2-DICHLOROETHANE-D4	70-120
BFB	P-BROMOFLUOROBENZENE	75-120
DBF	DIBROMOFLUOROMETHANE	85-115
TOL	TOLUENE-D8	85-120

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : TH0532
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG155562-2
Lab File ID : C0487.D
Date Analyzed : 12-DEC-14
Instrument ID : GCMS-C
Time Analyzed : 11:21
Heated Purge : No

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG155562-1	C0484.D	12/12/14	09:34
VPB153-TB-121114	TH0532-3	C0489.D	12/12/14	12:25
153-120814-738-740	TH0532-2DL	C0500.D	12/12/14	18:19

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : TH0532
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG155629-2
Lab File ID : C0513.D
Date Analyzed : 13-DEC-14
Instrument ID : GCMS-C
Time Analyzed : 11:12
Heated Purge : No

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG155629-1	C0510.D	12/13/14	09:21
153-120814-718-720	TH0532-1	C0515.D	12/13/14	12:20

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : CB958.D
Instrument ID : GCMS-C

SDG : TH0532
Date Analyzed : 26-NOV-14
Time Analyzed : 06:54
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.8		
75	30.0 - 60.0% of mass 95	51.0		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	8.8		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	82.4		
175	5.0 - 9.0% of mass 174	5.1	6.23	1
176	95.0 - 101.0% of mass 174	79.8	96.81	1
177	5.0 - 9.0% of mass 176	5.7	7.17	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG154861-3	C0212.D	11/26/14	08:07
Initial Calibration	WG154861-2	C0213.D	11/26/14	08:39
Initial Calibration	WG154861-6	C0215.D	11/26/14	09:42
Initial Calibration	WG154861-1	C0220.D	11/26/14	13:18
Initial Calibration	WG154861-5	C0222.D	11/26/14	14:22
Initial Calibration	WG154861-4	C0223.D	11/26/14	14:53
Independent Source	WG154861-7	C0225A.D	11/26/14	15:57

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : CB969.D
Instrument ID : GCMS-C

SDG : TH0532
Date Analyzed : 12-DEC-14
Time Analyzed : 08:22
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.5		
75	30.0 - 60.0% of mass 95	53.0		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.9		
173	Less than 2.0% of mass 174	1.1	1.45	1
174	Greater than 50.0% of mass 95	76.6		
175	5.0 - 9.0% of mass 174	5.9	7.64	1
176	95.0 - 101.0% of mass 174	76.8	100.31	1
177	5.0 - 9.0% of mass 176	5.0	6.47	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG155562-4	C0483.D	12/12/14	08:48
Laboratory Control S	WG155562-1	C0484.D	12/12/14	09:34
Method Blank Sample	WG155562-2	C0487.D	12/12/14	11:21
VPB153-TB-121114	TH0532-3	C0489.D	12/12/14	12:25
153-120814-738-740	TH0532-2DL	C0500.D	12/12/14	18:19

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : CB970.D
Instrument ID : GCMS-C

SDG : TH0532
Date Analyzed : 13-DEC-14
Time Analyzed : 08:13
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.3		
75	30.0 - 60.0% of mass 95	51.1		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.4		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	73.8		
175	5.0 - 9.0% of mass 174	5.8	7.79	1
176	95.0 - 101.0% of mass 174	71.6	96.99	1
177	5.0 - 9.0% of mass 176	5.1	7.10	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG155629-4	C0509.D	12/13/14	08:39
Laboratory Control S	WG155629-1	C0510.D	12/13/14	09:21
Method Blank Sample	WG155629-2	C0513.D	12/13/14	11:12
153-120814-718-720	TH0532-1	C0515.D	12/13/14	12:20

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG154861-4
Lab File ID : C0223.D

SDG: TH0532
Analytical Date: 11/26/14 14:53
Instrument ID: GCMS-C

		PENTAFLUOROBENZENE				1,4-DIFLUOROBENZENE				CHLOROBENZENE-D5			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	520134		8.04		828322		8.71		837594		12.19	
	Upper Limit	1040268		8.54		1656644		9.21		1675188		12.69	
	Lower Limit	260067		7.54		414161		8.21		418797		11.69	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG155562-4	484889		8.04		777926		8.71		794803		12.19	
Laboratory Control S	WG155562-1	504518		8.04		813797		8.71		818201		12.19	
Method Blank Sample	WG155562-2	428707		8.04		731146		8.70		712489		12.19	
VPB153-TB-121114	TH0532-3	408456		8.05		688331		8.71		689432		12.19	
153-120814-738-740	TH0532-2DL	341794		8.04		615463		8.70		618180		12.19	
Continuing Calibrati	WG155629-4	434606		8.04		708535		8.71		735402		12.19	
Laboratory Control S	WG155629-1	452412		8.04		738937		8.70		739557		12.19	
Method Blank Sample	WG155629-2	375656		8.04		640997		8.71		651304		12.19	
153-120814-718-720	TH0532-1	359451		8.04		623218		8.70		635424		12.19	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG154861-4
Lab File ID : C0223.D

SDG: TH0532
Analytical Date: 11/26/14 14:53
Instrument ID: GCMS-C

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	470887		15.52	
	Upper Limit	941774		16.02	
	Lower Limit	235443.5		15.02	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG155562-4	458209		15.52	
Laboratory Control S	WG155562-1	464819		15.52	
Method Blank Sample	WG155562-2	372998		15.52	
VPB153-TB-121114	TH0532-3	362492		15.52	
153-120814-738-740	TH0532-2DL	326367		15.52	
Continuing Calibrati	WG155629-4	413087		15.52	
Laboratory Control S	WG155629-1	421719		15.52	
Method Blank Sample	WG155629-2	342546		15.52	
153-120814-718-720	TH0532-1	336142		15.52	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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

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 specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as “U” MDL have a 50% rate for false negatives compared to those results reported as “U” PQL/LOQ or “U” LOD, where the rate of false negatives is <1%.

* 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 Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes 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.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native 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).

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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

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0532-1
Client ID: 153-120814-718-720
Project: Navy Clean WE15-03-06 NW
SDG: TH0532
Lab File ID: C0515.D

Sample Date: 08-DEC-14
Received Date: 12-DEC-14
Extract Date: 13-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155629

Analysis Date: 13-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		17	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0532-1
Client ID: 153-120814-718-720
Project: Navy Clean WE15-03-06 NW
SDG: TH0532
Lab File ID: C0515.D

Sample Date: 08-DEC-14
Received Date: 12-DEC-14
Extract Date: 13-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155629

Analysis Date: 13-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		94.6	%					
Toluene-d8		101.	%					
1,2-Dichloroethane-d4		105.	%					
Dibromofluoromethane		105.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0515.D
Report Date: 15-Dec-2014 16:38

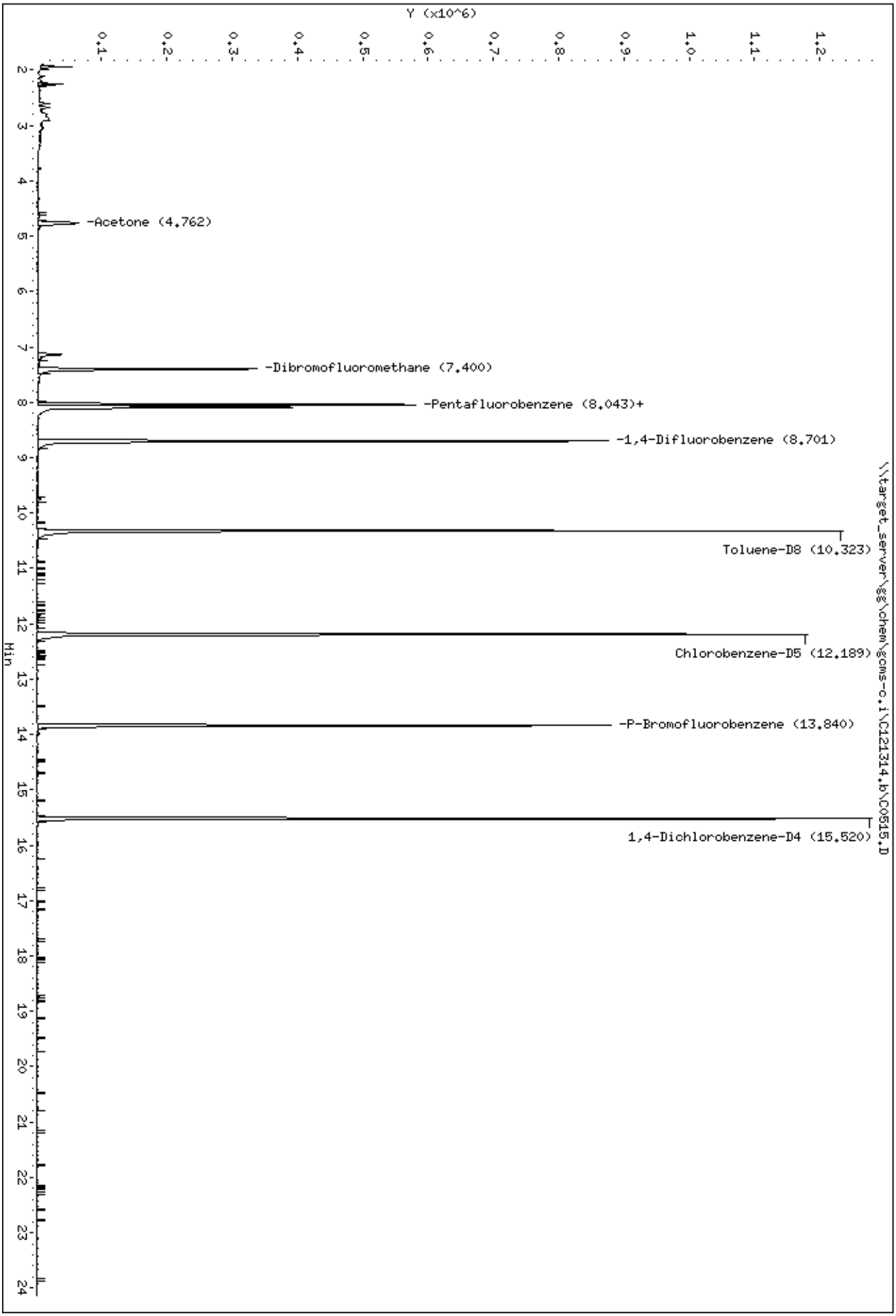
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C121314.b\C0515.D
Lab Smp Id: TH0532-1 Client Smp ID: 153-120814-718-720
Inj Date : 13-DEC-2014 12:20 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0532-1
Misc Info : WG155629,WG154861-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C121314.b\C826A26.m
Meth Date : 15-Dec-2014 16:37 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.761	4.753	(0.592)	29733	16.7954	16.8	
$ 37 Dibromofluoromethane	113	7.399	7.405	(0.920)	206219	52.5731	52.6	
* 42 Pentafluorobenzene	168	8.042	8.041	(1.000)	359451	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.092	8.090	(1.006)	261926	52.6729	52.7	
* 49 1,4-Difluorobenzene	114	8.700	8.706	(1.000)	623218	50.0000		
$ 55 Toluene-D8	98	10.323	10.322	(1.186)	724147	50.4540	50.4	
* 66 Chlorobenzene-D5	117	12.188	12.194	(1.000)	635424	50.0000		
$ 76 P-Bromofluorobenzene	95	13.839	13.838	(1.591)	292849	47.2867	47.3	
* 91 1,4-Dichlorobenzene-D4	152	15.519	15.518	(1.000)	336142	50.0000		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Date : 13-DEC-2014 12:20
Client ID: 153-120814-718-720
Sample Info: TH0532-1
Instrument: gcms-c.i
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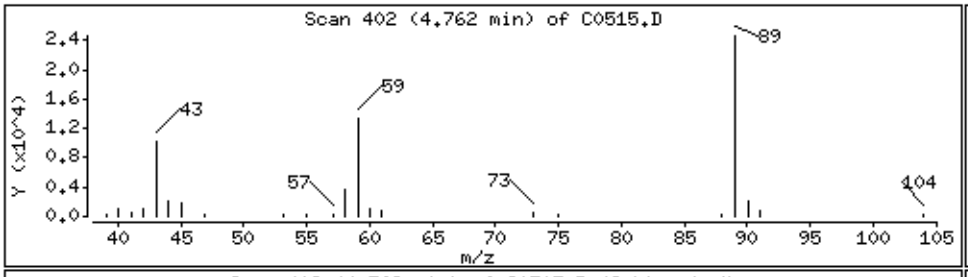
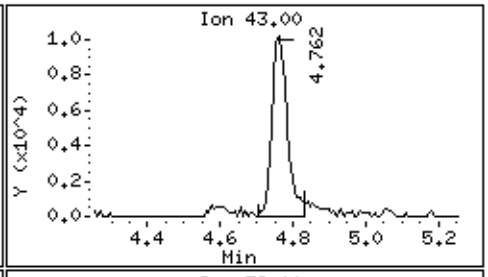
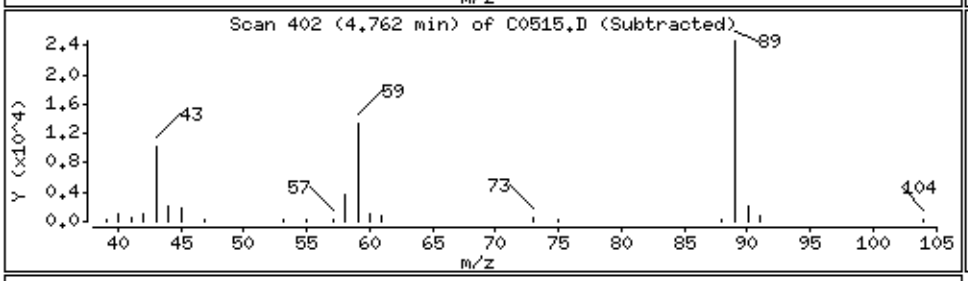
Y (x10^6)
Min
-Acetone (4.762)
-Dibromofluoromethane (7.400)
-Pentafluorobenzene (8.043)+
-1,4-Difluorobenzene (8.701)
Toluene-D8 (10.323)
Chlorobenzene-D5 (12.189)
-P-Bromofluorobenzene (13.840)
1,4-Dichlorobenzene-D4 (15.520)

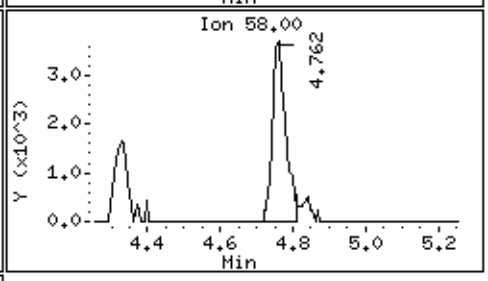
Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0515.D
Date : 13-DEC-2014 12:20
Client ID: 153-120814-718-720 Instrument: gcms-c.i
Sample Info: TH0532-1

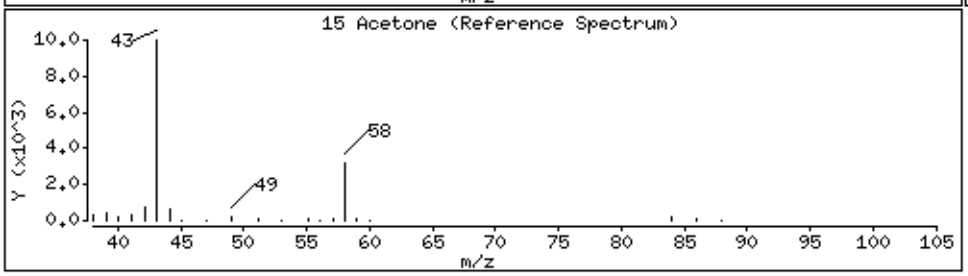
15 Acetone Concentration: 16.8 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0532-2DL
Client ID: 153-120814-738-740
Project: Navy Clean WE15-03-06 NW
SDG: TH0532
Lab File ID: C0500.D

Sample Date: 08-DEC-14
Received Date: 12-DEC-14
Extract Date: 12-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155562

Analysis Date: 12-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	4.0	ug/L	4	2	8.0	0.96	4.0
Chloromethane	U	4.0	ug/L	4	2	8.0	1.4	4.0
Vinyl Chloride	U	4.0	ug/L	4	2	8.0	1.0	4.0
Bromomethane	U	4.0	ug/L	4	2	8.0	2.0	4.0
Chloroethane	U	4.0	ug/L	4	2	8.0	2.2	4.0
Trichlorofluoromethane	U	4.0	ug/L	4	2	8.0	0.96	4.0
1,1-Dichloroethene	U	2.0	ug/L	4	1	4.0	1.4	2.0
Carbon Disulfide	U	2.0	ug/L	4	1	4.0	1.0	2.0
Freon-113	U	2.0	ug/L	4	1	4.0	1.2	2.0
Methylene Chloride	U	10	ug/L	4	5	20.	4.5	10.
Acetone		22	ug/L	4	5	20.	8.8	10.
trans-1,2-Dichloroethene	U	2.0	ug/L	4	1	4.0	1.0	2.0
Methyl tert-butyl Ether	U	2.0	ug/L	4	1	4.0	1.4	2.0
1,1-Dichloroethane	U	2.0	ug/L	4	1	4.0	0.84	2.0
cis-1,2-Dichloroethene	U	2.0	ug/L	4	1	4.0	0.84	2.0
Chloroform	U	2.0	ug/L	4	1	4.0	1.3	2.0
1,1,1-Trichloroethane	U	2.0	ug/L	4	1	4.0	0.80	2.0
2-Butanone	U	10	ug/L	4	5	20.	5.2	10.
Cyclohexane	U	2.0	ug/L	4	1	4.0	1.2	2.0
Carbon Tetrachloride	U	2.0	ug/L	4	1	4.0	0.88	2.0
Benzene	U	2.0	ug/L	4	1	4.0	1.0	2.0
1,2-Dichloroethane	U	2.0	ug/L	4	1	4.0	0.80	2.0
Trichloroethene	J	2.8	ug/L	4	1	4.0	1.1	2.0
1,2-Dichloropropane	U	2.0	ug/L	4	1	4.0	1.0	2.0
Bromodichloromethane	U	2.0	ug/L	4	1	4.0	1.3	2.0
cis-1,3-Dichloropropene	U	2.0	ug/L	4	1	4.0	0.76	2.0
Toluene	U	2.0	ug/L	4	1	4.0	1.1	2.0
4-Methyl-2-Pentanone	U	10	ug/L	4	5	20.	5.3	10.
trans-1,3-Dichloropropene	U	2.0	ug/L	4	1	4.0	0.80	2.0
1,1,2-Trichloroethane	U	2.0	ug/L	4	1	4.0	1.3	2.0
Tetrachloroethene	U	2.0	ug/L	4	1	4.0	1.6	2.0
Dibromochloromethane	U	2.0	ug/L	4	1	4.0	1.2	2.0
2-Hexanone	U	10	ug/L	4	5	20.	6.8	10.
Chlorobenzene	U	2.0	ug/L	4	1	4.0	0.88	2.0
Ethylbenzene	U	2.0	ug/L	4	1	4.0	0.84	2.0

600 Technology Way
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Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0532-2DL
Client ID: 153-120814-738-740
Project: Navy Clean WE15-03-06 NW
SDG: TH0532
Lab File ID: C0500.D

Sample Date: 08-DEC-14
Received Date: 12-DEC-14
Extract Date: 12-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155562

Analysis Date: 12-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	6.0	ug/L	4	3	12.	1.0	6.0
Styrene	U	2.0	ug/L	4	1	4.0	0.92	2.0
Bromoform	U	2.0	ug/L	4	1	4.0	0.92	2.0
Isopropylbenzene	U	2.0	ug/L	4	1	4.0	0.92	2.0
1,1,2,2-Tetrachloroethane	U	2.0	ug/L	4	1	4.0	1.5	2.0
1,3-Dichlorobenzene	U	2.0	ug/L	4	1	4.0	1.0	2.0
1,4-Dichlorobenzene	U	2.0	ug/L	4	1	4.0	0.96	2.0
1,2-Dichlorobenzene	U	2.0	ug/L	4	1	4.0	0.60	2.0
1,2,4-Trichlorobenzene	U	2.0	ug/L	4	1	4.0	1.5	2.0
Methyl Acetate	U	3.0	ug/L	4	1	4.0	2.1	3.0
Methylcyclohexane	U	2.0	ug/L	4	1	4.0	1.2	2.0
o-Xylene	U	2.0	ug/L	4	1	4.0	1.0	2.0
M+P-Xylenes	U	4.0	ug/L	4	2	8.0	2.4	4.0
1,2-Dichloroethylene (Total)	U	4.0	ug/L	4	2	8.0	0.84	4.0
1,2-Dibromoethane	U	2.0	ug/L	4	1	4.0	0.88	2.0
1,2-Dibromo-3-Chloropropane	U	3.0	ug/L	4	1	4.0	2.0	3.0
P-Bromofluorobenzene		94.5	%					
Toluene-d8		101.	%					
1,2-Dichloroethane-d4		111.	%					
Dibromofluoromethane		108.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0500.D
Report Date: 15-Dec-2014 16:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C121214.b\C0500.D
Lab Smp Id: TH0532-2DL Client Smp ID: 153-120814-738-740
Inj Date : 12-DEC-2014 18:19 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0532-2DL
Misc Info : WG155562,WG154861-4
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-c.i\C121214.b\C826A26.m
Meth Date : 15-Dec-2014 16:14 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

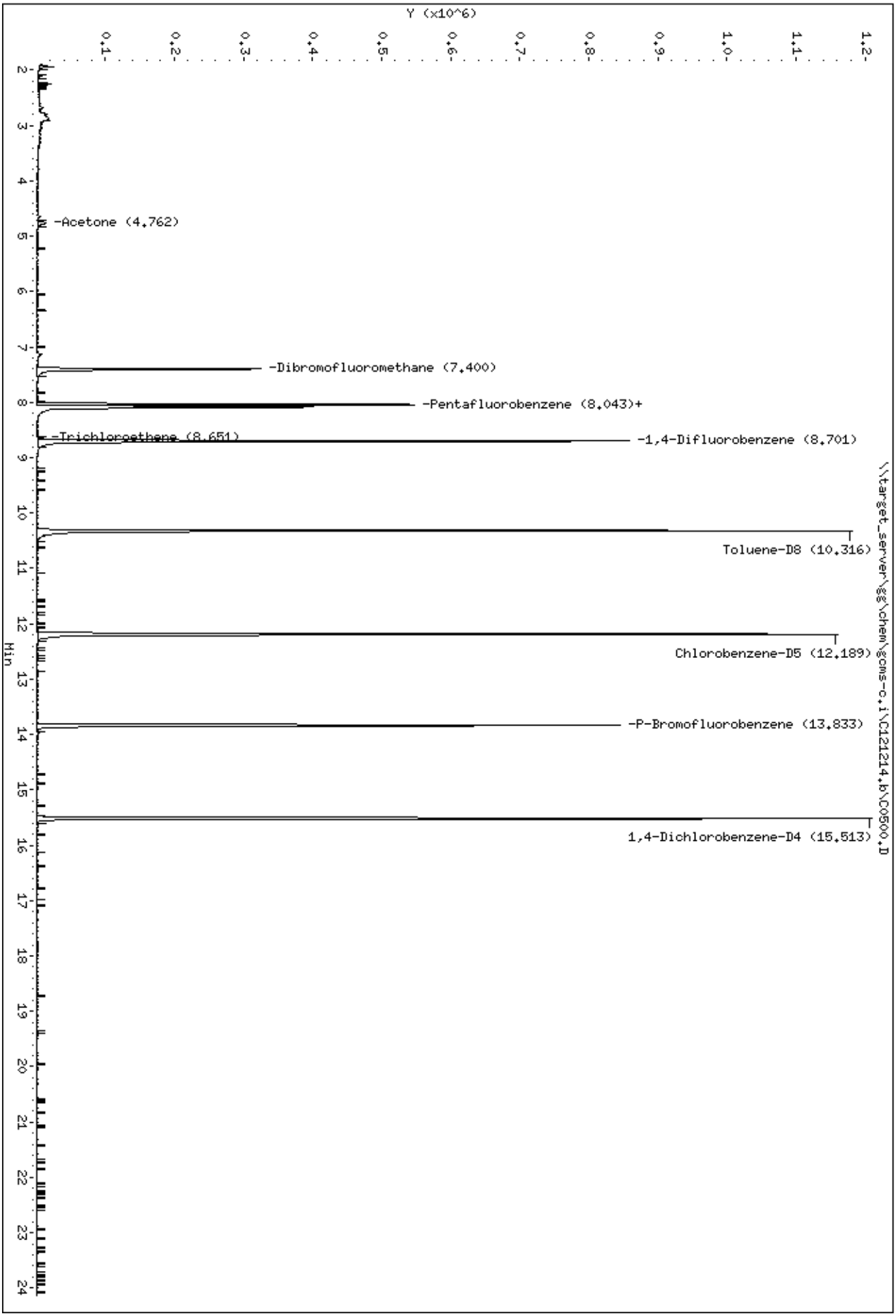
Name	Value	Description
DF	4.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.762	4.753	(0.592)	9126	5.42134	21.7(M)	M10
$ 37 Dibromofluoromethane	113	7.400	7.405	(0.920)	201944	54.1428	54.1	
* 42 Pentafluorobenzene	168	8.043	8.041	(1.000)	341794	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.086	8.090	(1.005)	263446	55.7154	55.7	
48 Trichloroethene	95	8.658	8.656	(0.995)	2955	0.69621	2.8(a)	
* 49 1,4-Difluorobenzene	114	8.701	8.706	(1.000)	615463	50.0000		
$ 55 Toluene-D8	98	10.316	10.322	(1.186)	715385	50.4715	50.5	
* 66 Chlorobenzene-D5	117	12.189	12.194	(1.000)	618180	50.0000		
$ 76 P-Bromofluorobenzene	95	13.833	13.838	(1.590)	289087	47.2674	47.3	
* 91 1,4-Dichlorobenzene-D4	152	15.520	15.518	(1.000)	326367	50.0000		

REC
4:52 pm, Dec 15, 2014

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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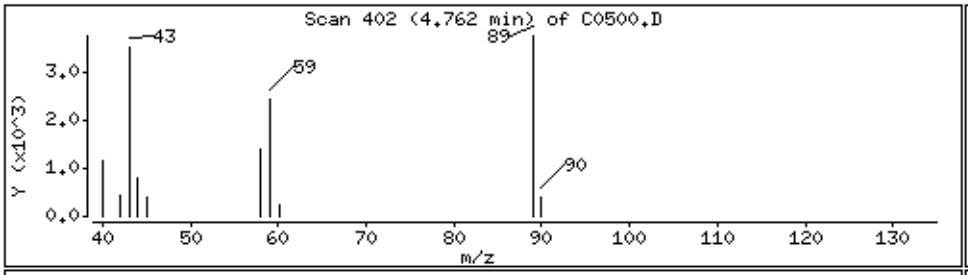
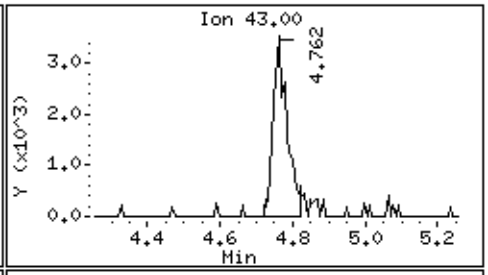
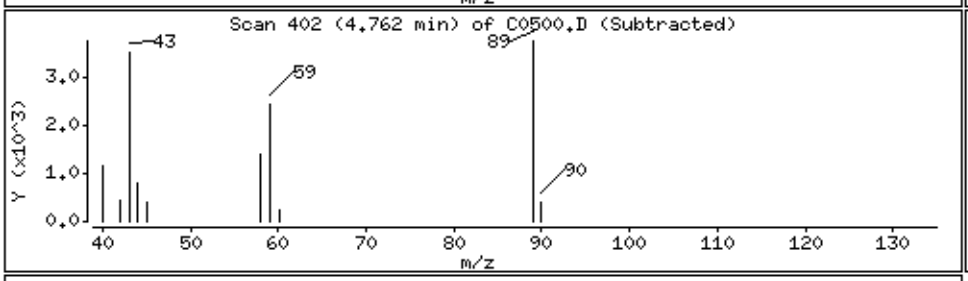
Date : 12-DEC-2014 18:19
Client ID: 153-120814-738-740
Sample Info: TH0532-2DL
Instrument: gcms-c.i
\\target_server\gg\chem\gcms-c.i\C121214.b\C0500.D
Y (x10^6)
Min
-Acetone (4.762)
-Dibromofluoromethane (7.400)
-Pentafluorobenzene (8.043)+
-Trichloroethene (8.651)
-1,4-Difluorobenzene (8.701)
Toluene-D8 (10.316)
Chlorobenzene-D5 (12.189)
-P-Bromofluorobenzene (13.833)
1,4-Dichlorobenzene-D4 (15.513)

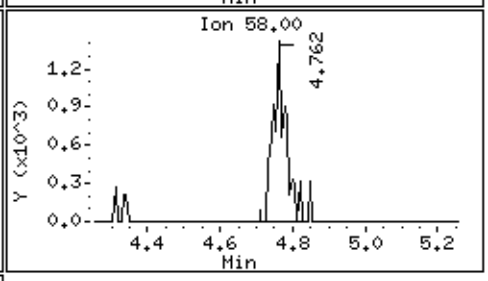
Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0500.D
Date : 12-DEC-2014 18:19
Client ID: 153-120814-738-740 Instrument: gcms-c.i
Sample Info: TH0532-2DL

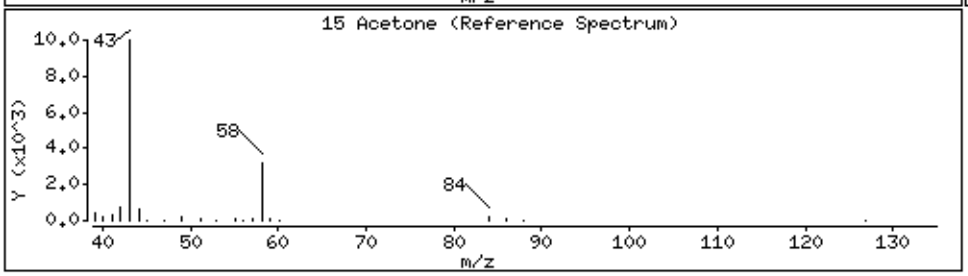
15 Acetone Concentration: 21.7 ug/l



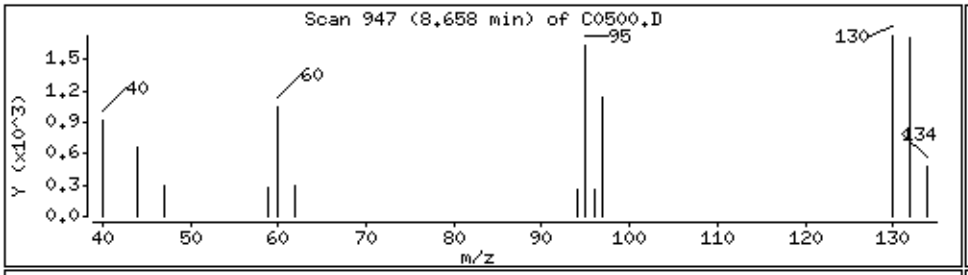


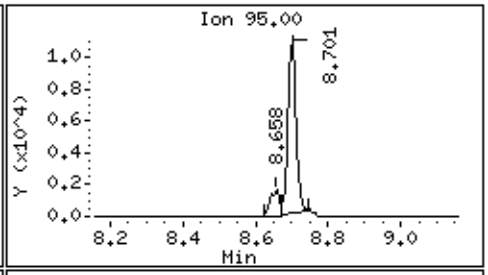


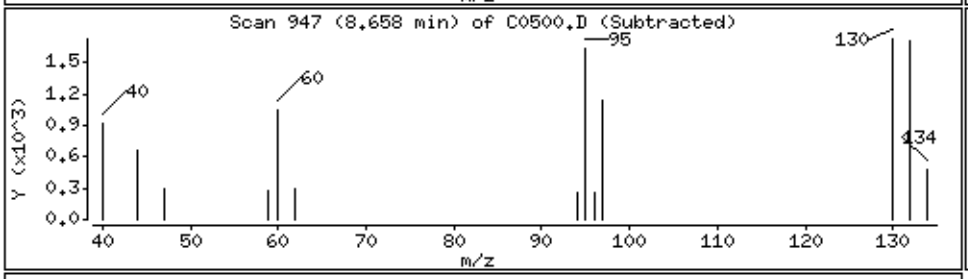


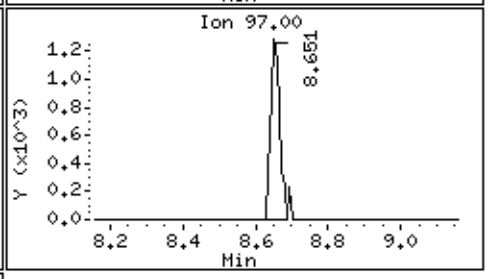


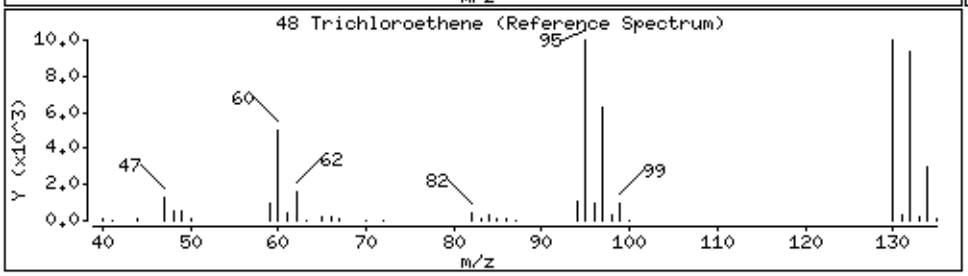
48 Trichloroethene Concentration: 2.8 ug/l











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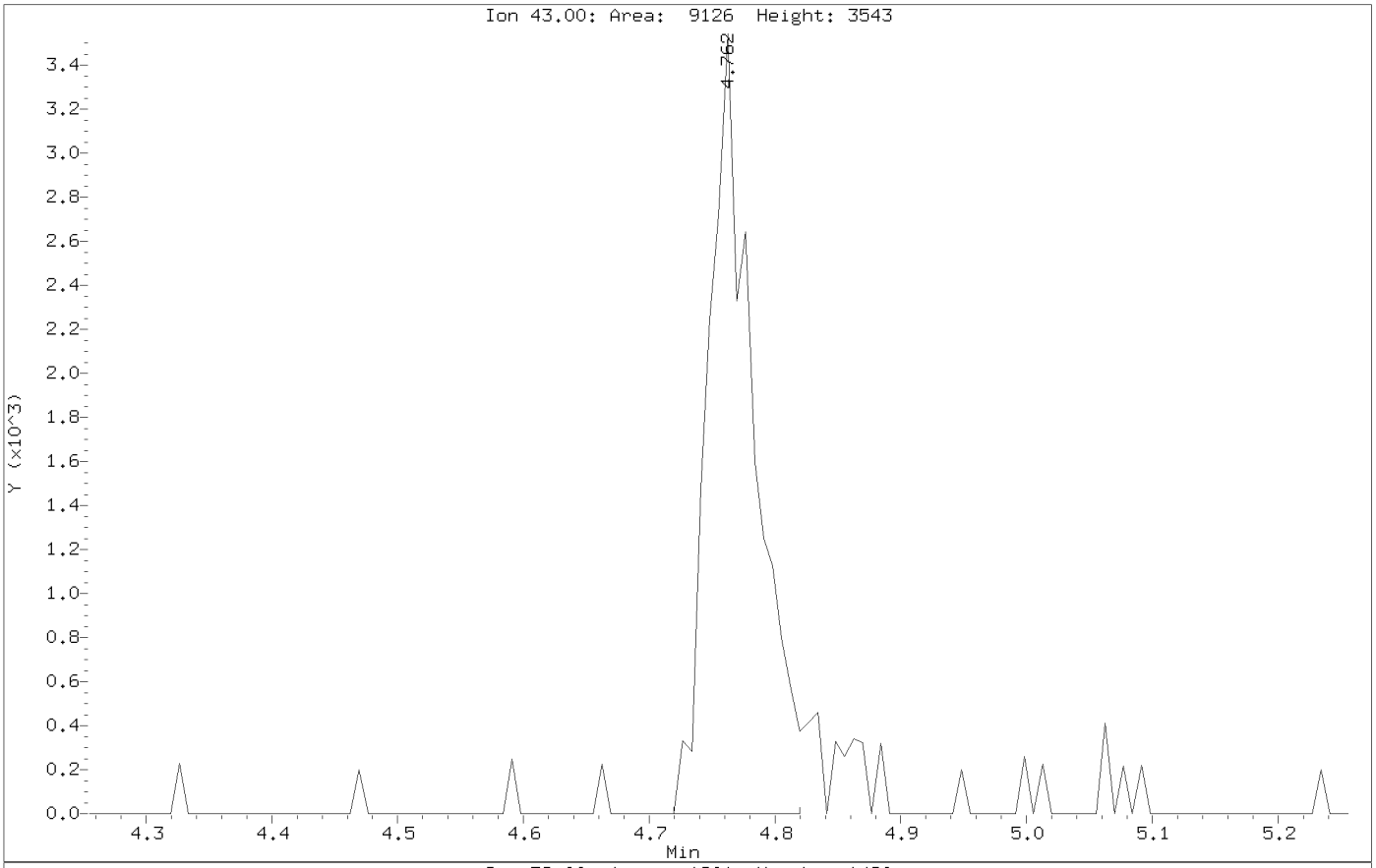
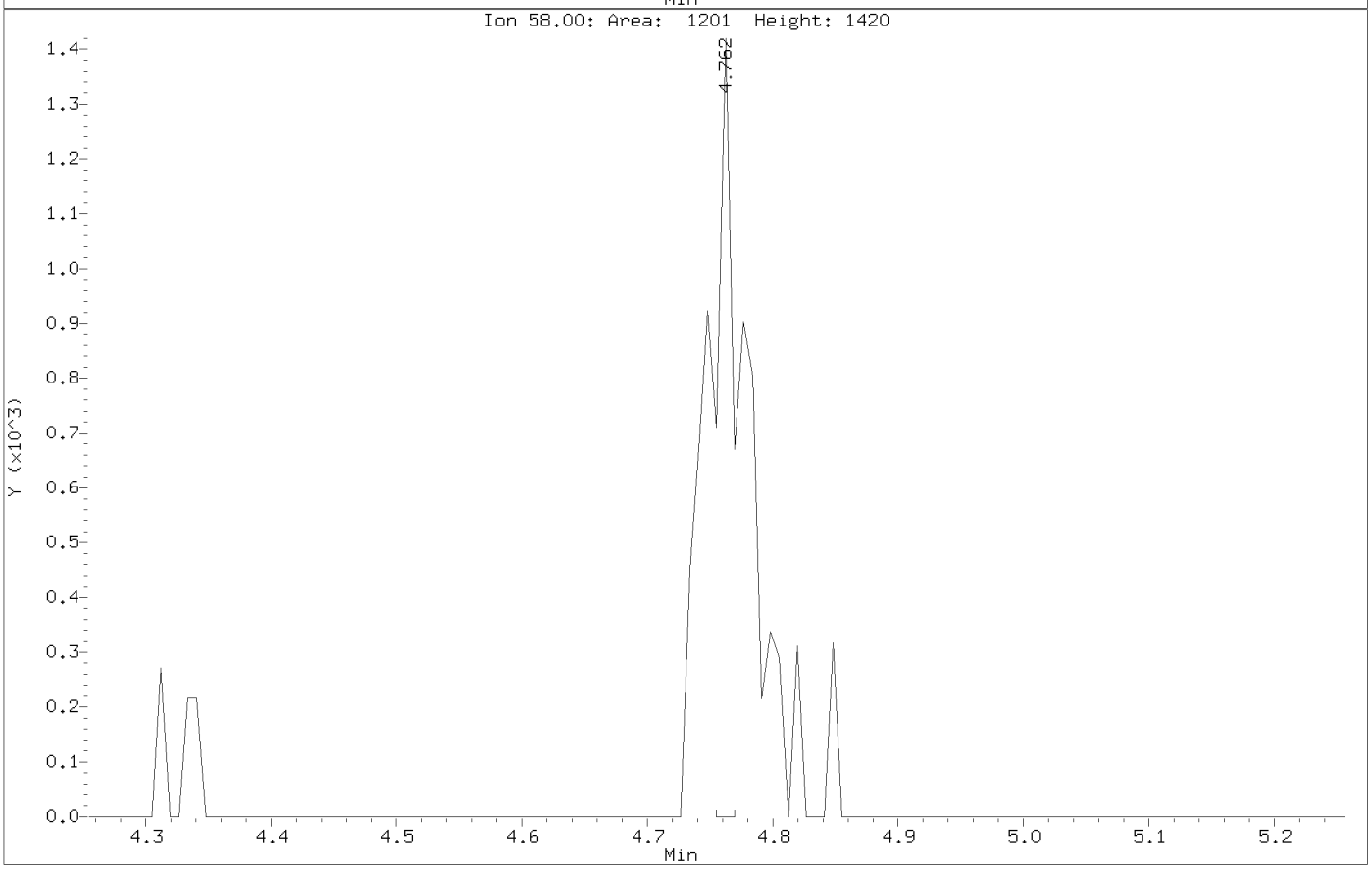
Injection Date: 12-DEC-2014 18:19
Instrument: gcms-c.i
Client Sample ID: 153-120814-738-740

Compound: Acetone
CAS Number: 67-64-1

BEFORE MANUAL INTEGRATION





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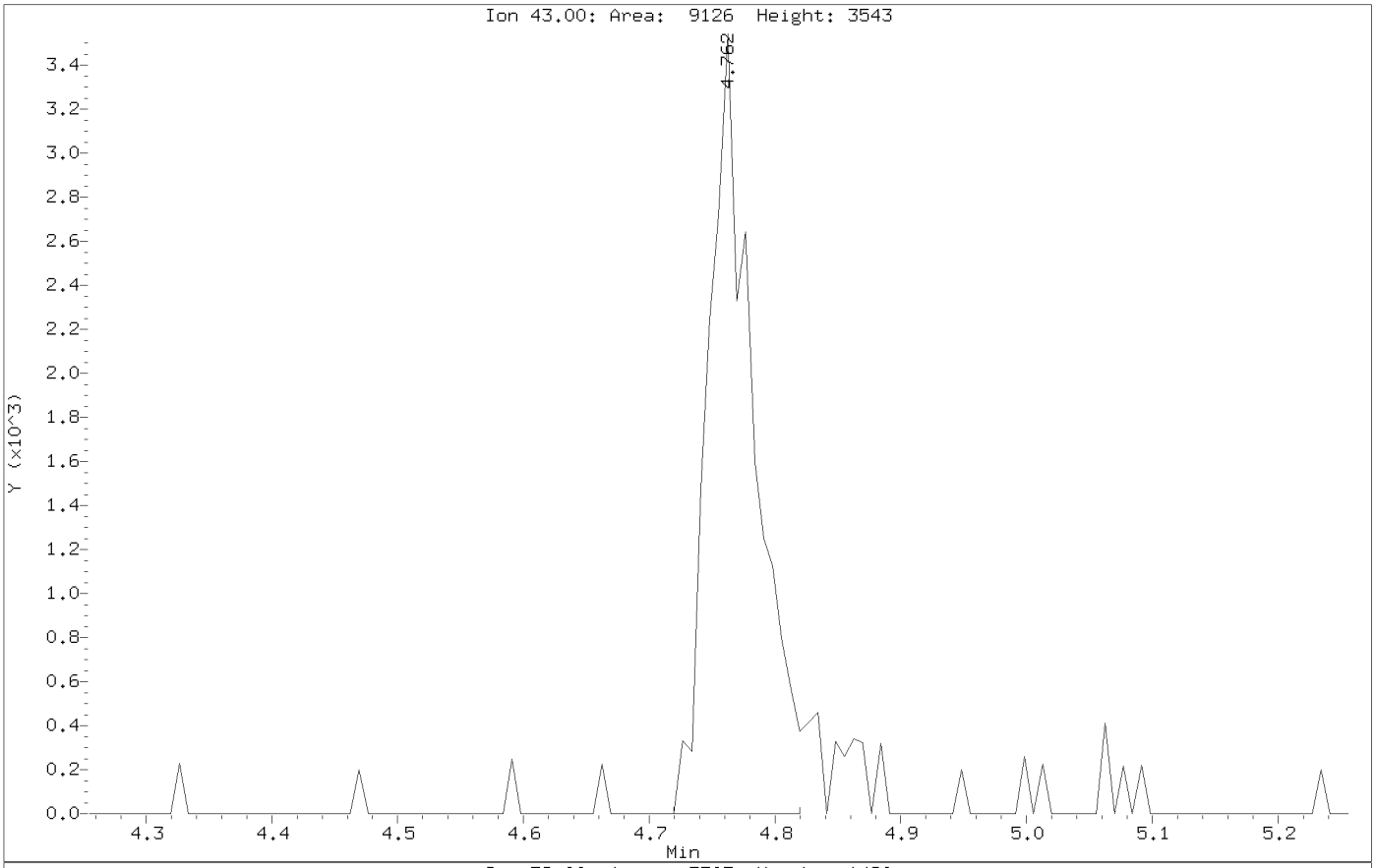
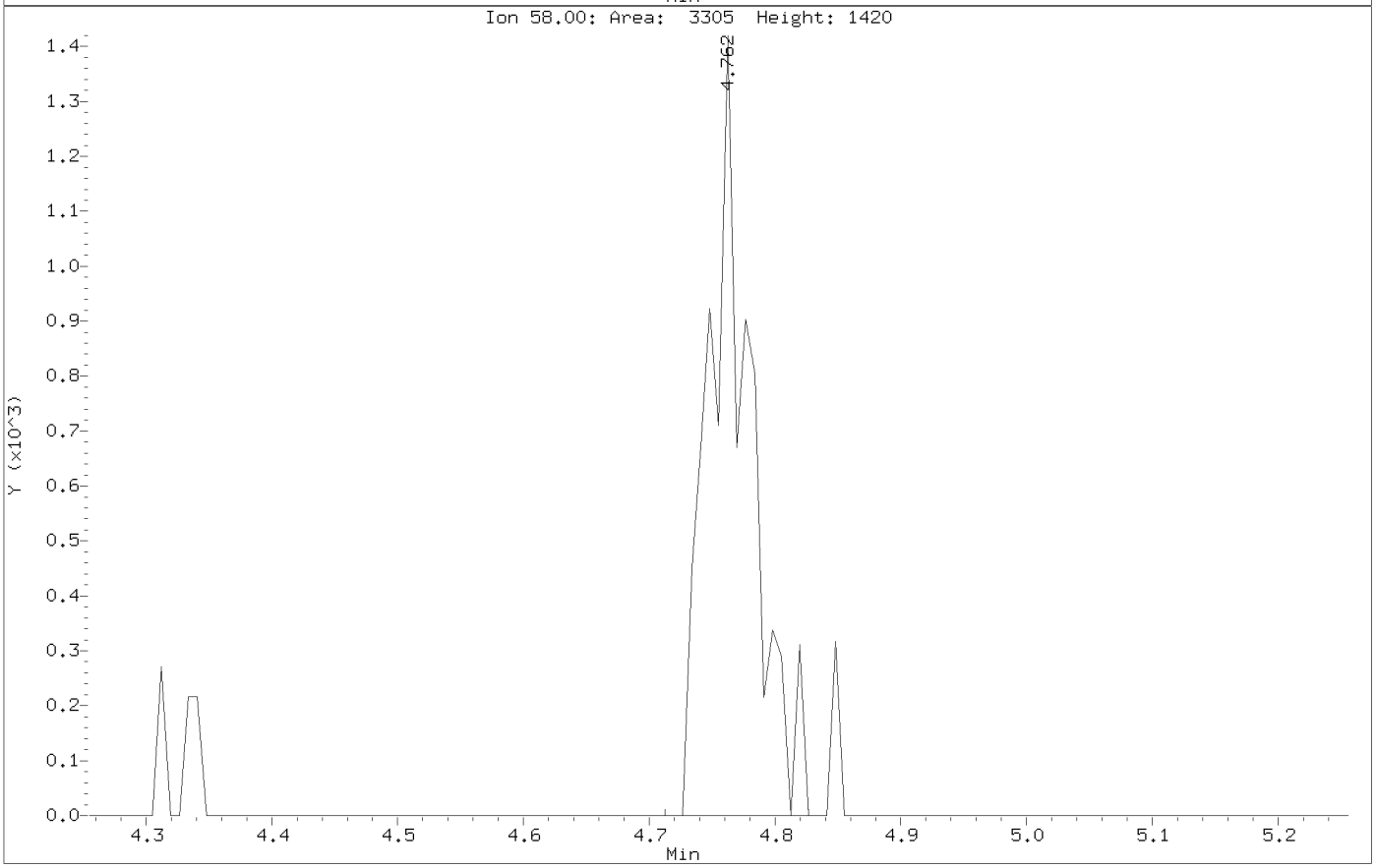
Injection Date: 12-DEC-2014 18:19
Instrument: gcms-c.i
Client Sample ID: 153-120814-738-740

Compound: Acetone
CAS Number: 67-64-1

AFTER MANUAL INTEGRATION





Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0532-3
Client ID: VPB153-TB-121114
Project: Navy Clean WE15-03-06 NW
SDG: TH0532
Lab File ID: C0489.D

Sample Date: 11-DEC-14
Received Date: 12-DEC-14
Extract Date: 12-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155562

Analysis Date: 12-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		7.0	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: TH0532-3
Client ID: VPB153-TB-121114
Project: Navy Clean WE15-03-06 NW
SDG: TH0532
Lab File ID: C0489.D

Sample Date: 11-DEC-14
Received Date: 12-DEC-14
Extract Date: 12-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155562

Analysis Date: 12-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		92.1	%					
Toluene-d8		99.0	%					
1,2-Dichloroethane-d4		101.	%					
Dibromofluoromethane		98.5	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0489.D
Report Date: 15-Dec-2014 16:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C121214.b\C0489.D
Lab Smp Id: TH0532-3 Client Smp ID: VPB153-TB-121114
Inj Date : 12-DEC-2014 12:25 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : TH0532-3
Misc Info : WG155562,WG154861-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C121214.b\C826A26.m
Meth Date : 15-Dec-2014 16:14 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

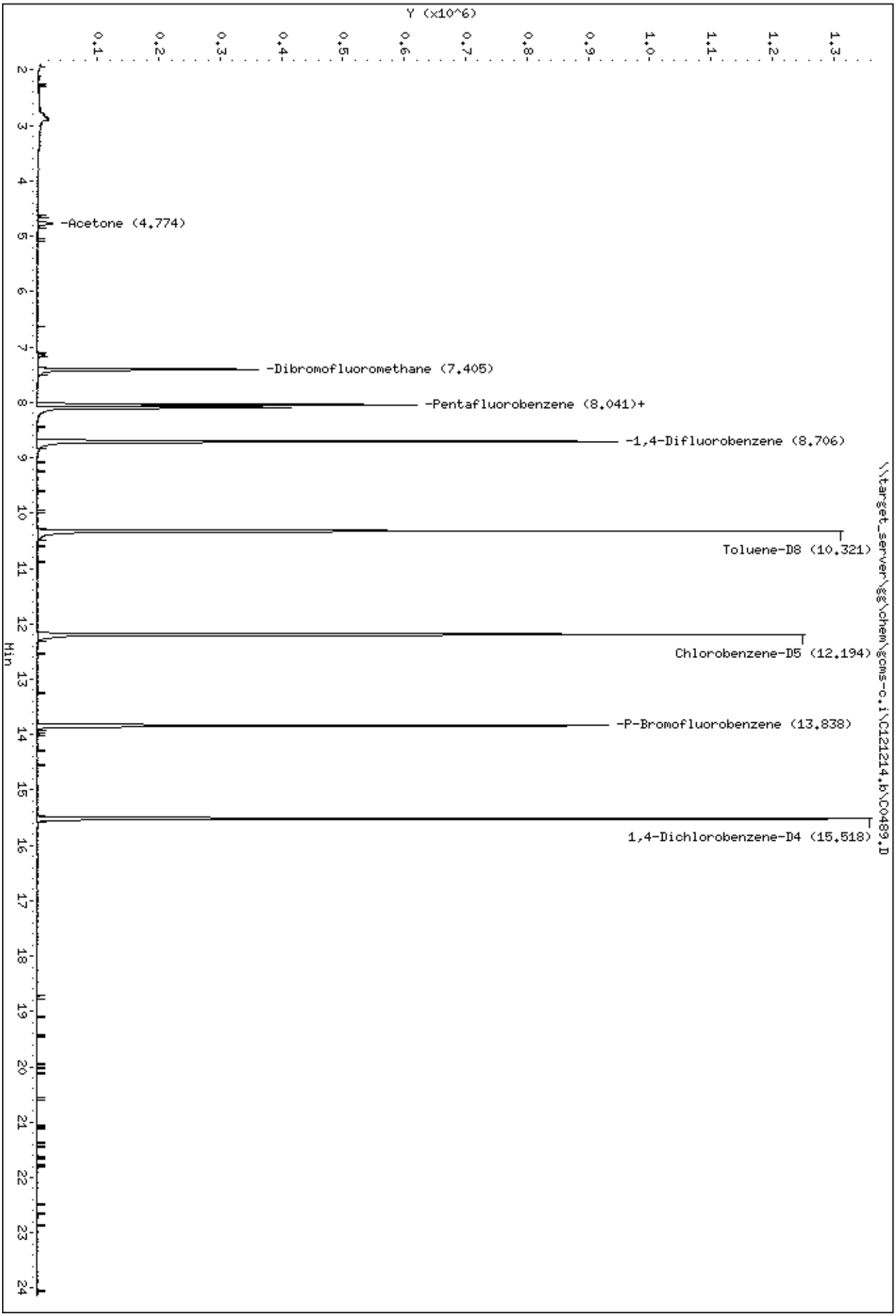
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.767	4.753	(0.592)	14077	6.99770	7.0(M)	M10
$ 37 Dibromofluoromethane	113	7.404	7.405	(0.920)	219620	49.2721	49.3	
* 42 Pentafluorobenzene	168	8.048	8.041	(1.000)	408456	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.091	8.090	(1.005)	284863	50.4126	50.4	
* 49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	688331	50.0000		
$ 55 Toluene-D8	98	10.321	10.322	(1.186)	784896	49.5135	49.5	
* 66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	689432	50.0000		
$ 76 P-Bromofluorobenzene	95	13.838	13.838	(1.590)	314895	46.0367	46.0	
* 91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	362492	50.0000		

REC
4:52 pm, Dec 15, 2014

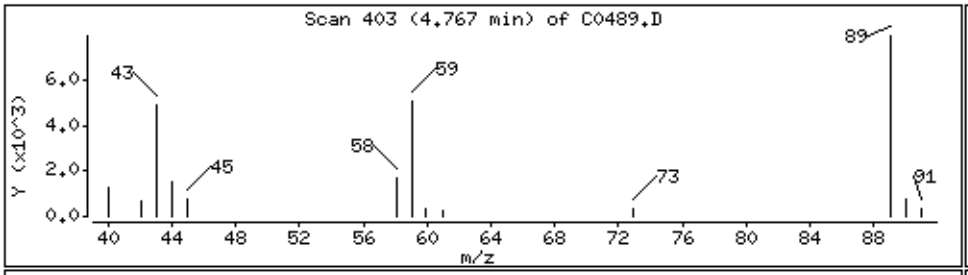
QC Flag Legend

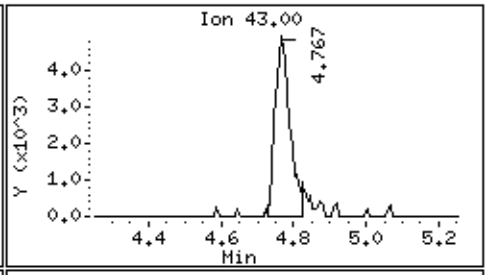
M - Compound response manually integrated.

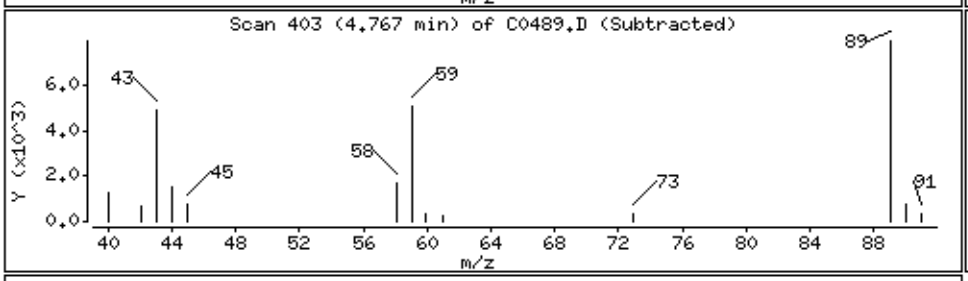

Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0489.D
Date : 12-DEC-2014 12:25
Client ID: VPB153-TB-121114
Sample Info: TH0532-3
Instrument: gcms-c.i
Y (x10^6)
Min
-Acetone (4.774)
-Dibromofluoromethane (7.405)
-Pentafluorobenzene (8.041)+
-1,4-Difluorobenzene (8.706)
Toluene-D8 (10.321)
Chlorobenzene-D5 (12.194)
-P-Bromofluorobenzene (13.838)
1,4-Dichlorobenzene-D4 (15.518)
\\target_server\gg\chem\gcms-c.i\C121214.b\C0489.D

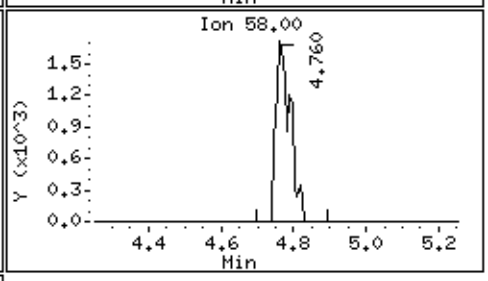
Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0489.D
Date : 12-DEC-2014 12:25
Client ID: VPB153-TB-121114 Instrument: gcms-c.i
Sample Info: TH0532-3

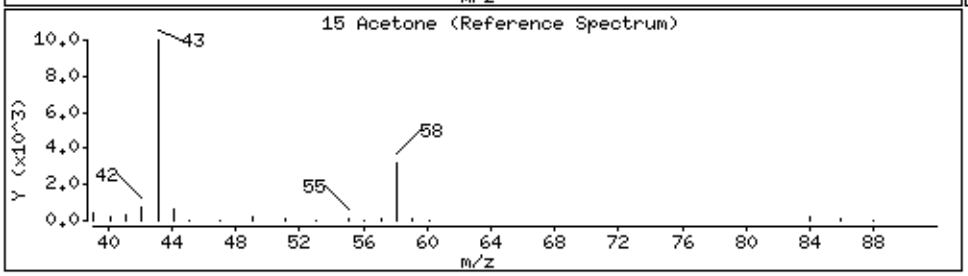
15 Acetone Concentration: 7.0 ug/l











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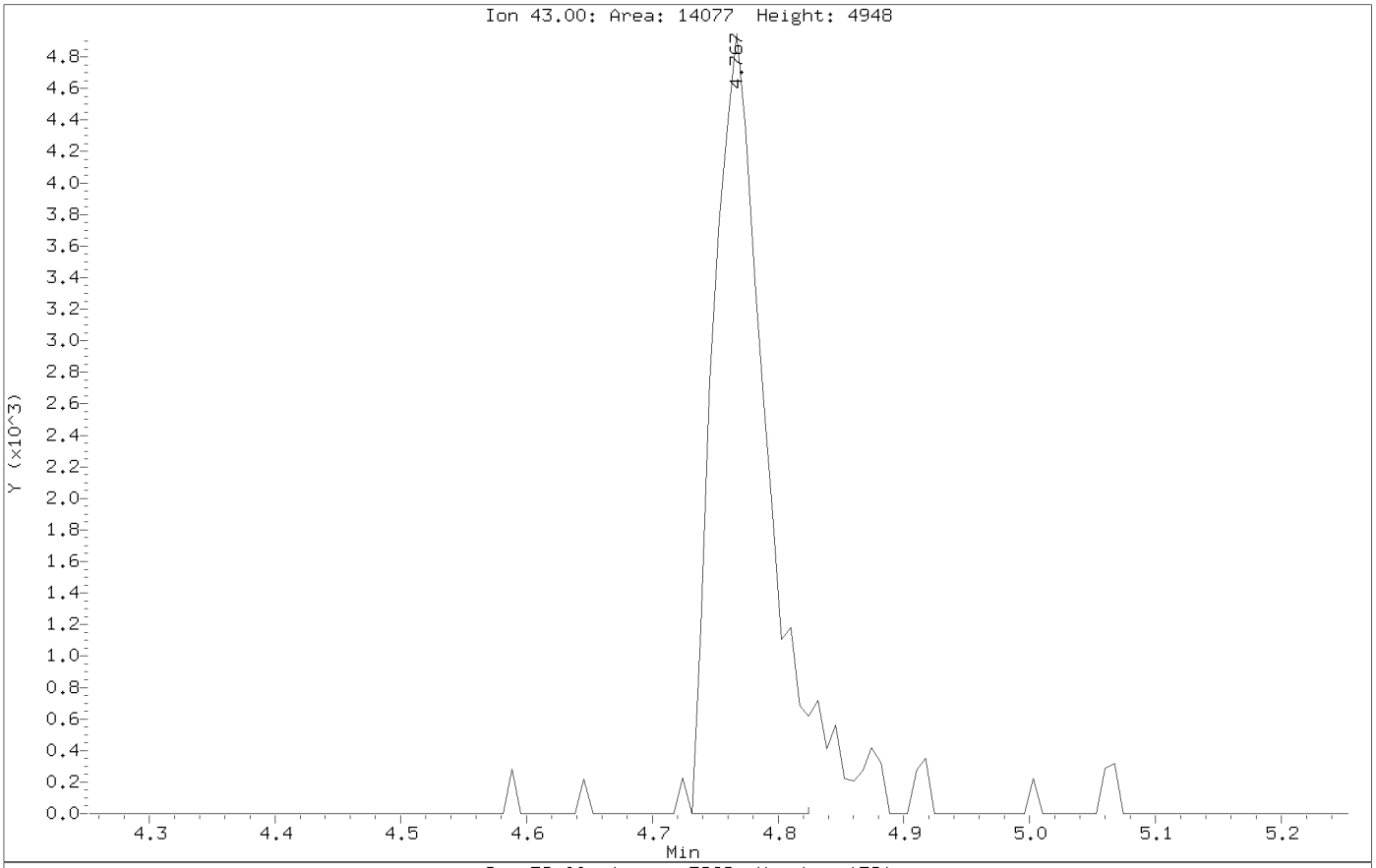
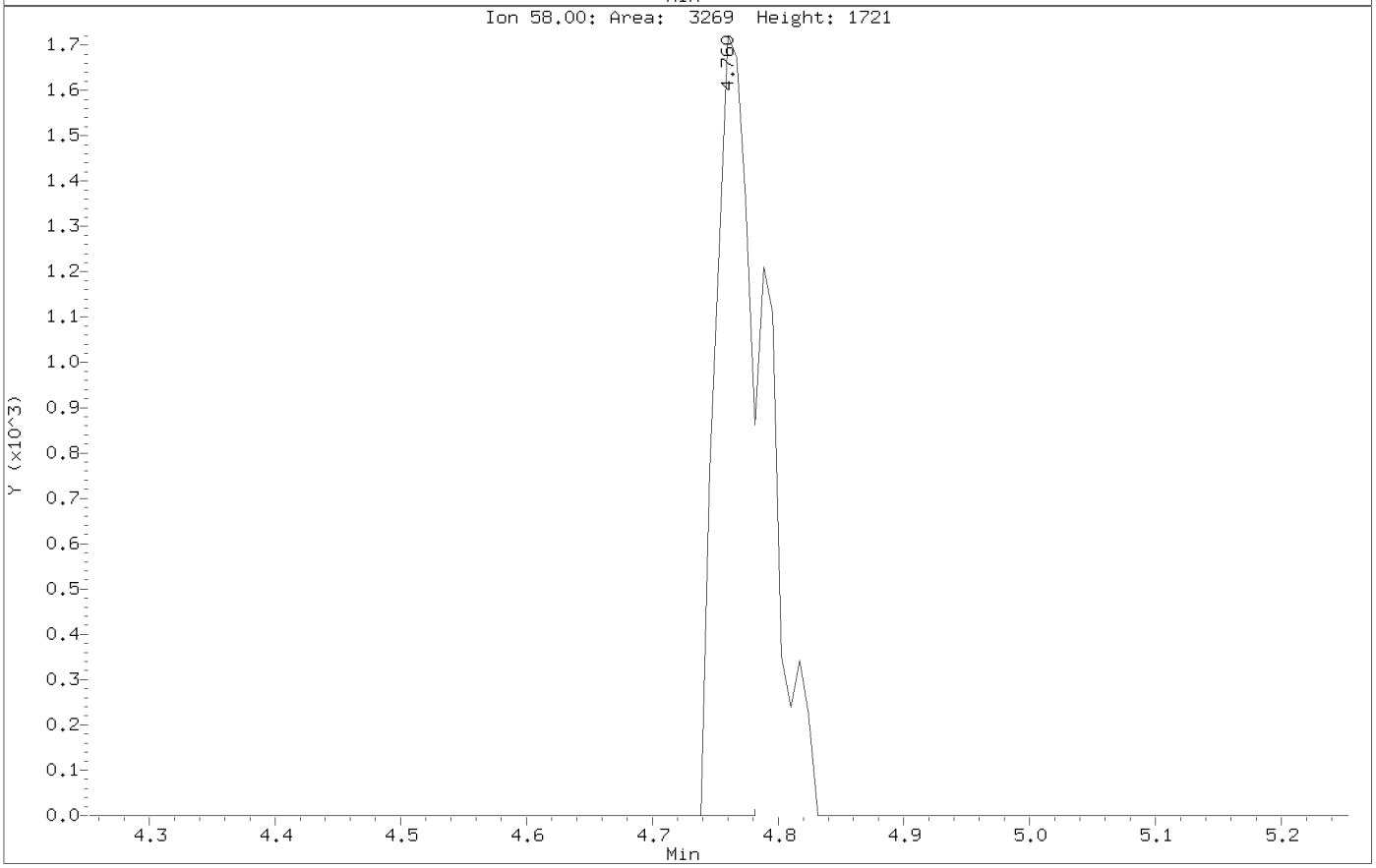
Injection Date: 12-DEC-2014 12:25
Instrument: gcms-c.i
Client Sample ID: VPB153-TB-121114

Compound: Acetone
CAS Number: 67-64-1

BEFORE MANUAL INTEGRATION

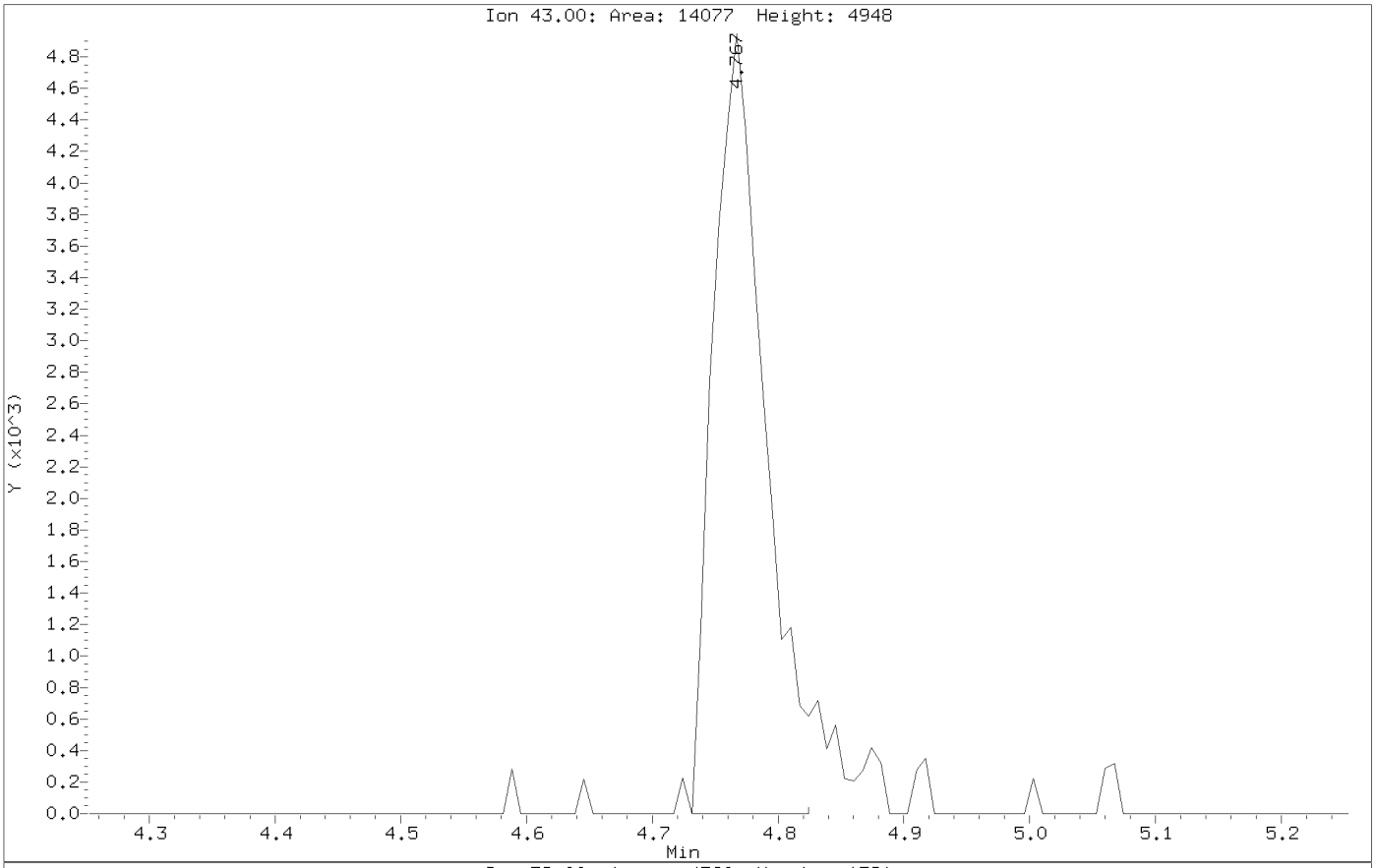


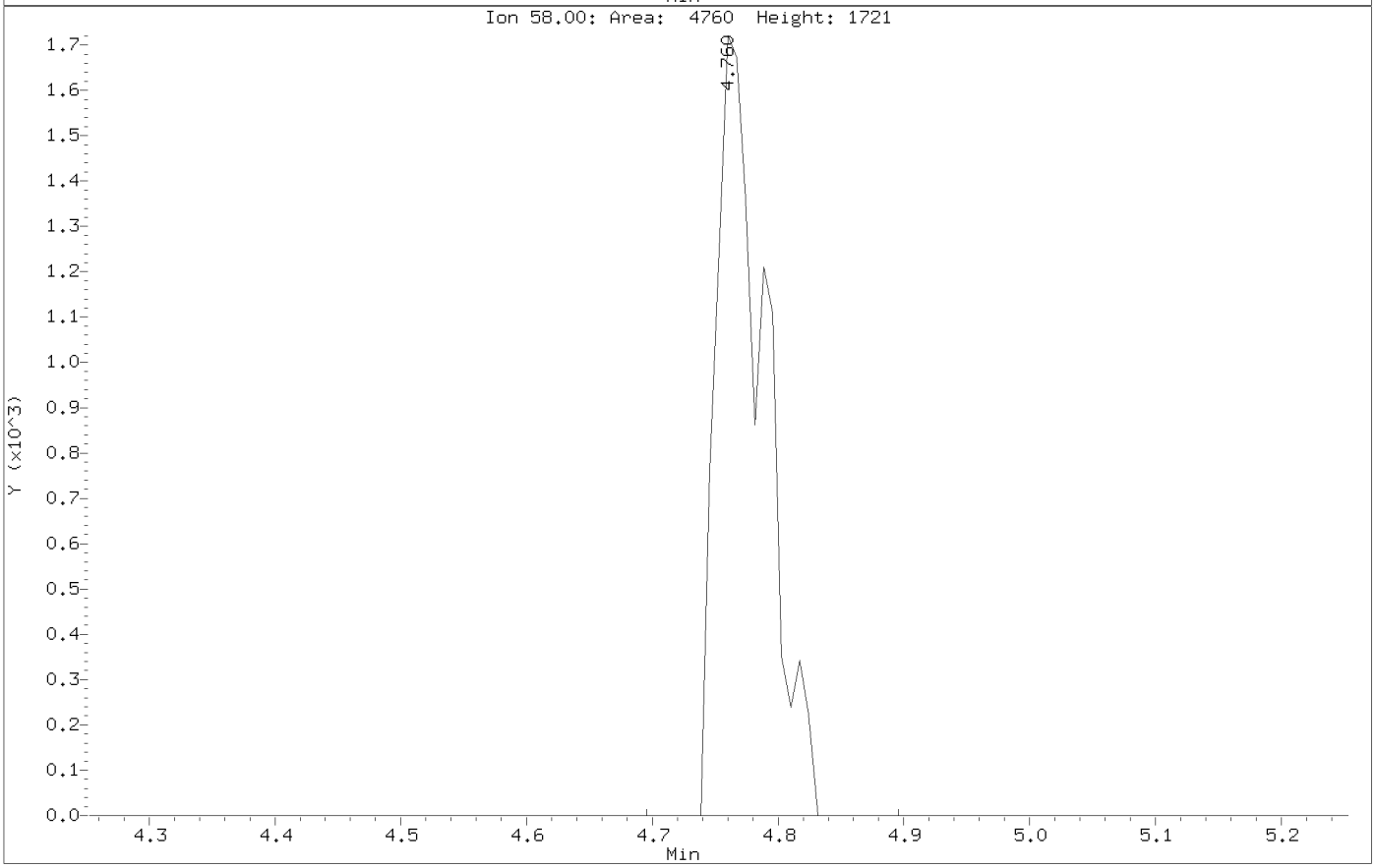


Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0489.D
Injection Date: 12-DEC-2014 12:25
Instrument: gcms-c.i
Client Sample ID: VPB153-TB-121114

AFTER MANUAL INTEGRATION

Compound: Acetone
CAS Number: 67-64-1





Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** TH0532
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-C
Lab File IDs : C0220.D C0213.D C0212.D C0223.D C0222.D C0215.D **Column ID:**
Calibration Date(s): 26-NOV-14 08:07 26-NOV-14 14:53

	Level 1 1.0000	Level 2 5.0000	Level 3 20.0000	Level 4 50.0000	Level 5 100.0000	Level 6 200.0000	Crv New	b	m1	m2	%RSD	Max %RSD	
Dichlorodifluoromethane	0.65951	0.67716	0.73153	0.64390	0.62712	0.61286	AVG		0.65868		6.42782	15.00000	O
Chloromethane	12309	45035	175551	441595	826979	1618755	LNR	-0.04210	0.79732		0.99920	0.99000	O
Vinyl chloride	0.76073	0.73828	0.75728	0.68617	0.68349	0.62764	AVG		0.70893		7.37178	15.00000	O
Bromomethane	3768	11563	44815	156928	309589	622524	LNR	0.01678	0.30920		0.99946	0.99000	O
Chloroethane	4585	19633	74375	150237	300052	565228	LNR	-0.06920	0.27851		0.99685	0.99000	O
Trichlorofluoromethane	1.21939	1.19896	1.23262	1.04252	1.20544	+++++	AVG		1.17979		6.59659	15.00000	O
1,1-Dichloroethene	0.46580	0.48131	0.45631	0.44753	0.47863	0.48332	AVG		0.46882		3.13646	15.00000	O
Carbon Disulfide	19476	61915	267284	724568	1470539	2825501	LNR	-0.01559	1.40419		0.99887	0.99000	O
Freon-113	0.36853	0.38029	0.33202	0.31453	0.32960	0.33352	AVG		0.34308		7.42294	15.00000	O
Methylene Chloride	8163	26406	113262	302119	596985	1180470	LNR	-0.01383	0.58346		0.99961	0.99000	O
Acetone	0.25329	0.25076	0.25593	0.24927	0.22925	0.23901	AVG		0.24625		4.11769	15.00000	O
trans-1,2-Dichloroethene	0.64980	0.52689	0.53399	0.50616	0.54598	0.50260	AVG		0.54424		9.97513	15.00000	O
Methyl tert-butyl ether	1.17875	1.21893	1.35360	1.33108	1.30928	1.28626	AVG		1.27965		5.28907	15.00000	O
1,1-Dichloroethane	1.02195	1.04840	1.04087	0.99281	1.03826	0.94331	AVG		1.01427		3.94439	15.00000	O
cis-1,2-Dichloroethene	0.65631	0.63274	0.59725	0.58459	0.61965	0.57210	AVG		0.61044		5.17956	15.00000	O
1,2-Dichloroethylene (total	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+0	15.00000	M (
Chloroform	1.04222	1.09897	1.07023	0.98030	1.03414	0.94292	AVG		1.02813		5.60001	15.00000	O
Carbon Tetrachloride	0.35222	0.41517	0.43477	0.43887	0.45717	0.44822	AVG		0.42440		8.97394	15.00000	O
1,1,1-Trichloroethane	0.77460	0.88134	0.90280	0.85832	0.91988	0.87805	AVG		0.86916		5.86457	15.00000	O
2-Butanone	0.26884	0.35186	0.36930	0.36431	0.34872	0.34720	AVG		0.34170		10.7642(	15.00000	O
Benzene	1.38452	1.36786	1.40910	1.36419	1.34519	1.17691	AVG		1.34130		6.21380	15.00000	O
Cyclohexane	0.76948	0.89268	0.95260	0.89933	0.94308	0.90196	AVG		0.89319		7.33104	15.00000	O
1,2-Dichloroethane	0.55225	0.50710	0.48075	0.46305	0.46588	0.45059	AVG		0.48660		7.71438	15.00000	O
Trichloroethene	0.32920	0.35066	0.35195	0.34474	0.35755	0.33481	AVG		0.34482		3.15299	15.00000	O
1,2-Dichloropropane	0.33036	0.33542	0.33807	0.34771	0.35441	0.33454	AVG		0.34009		2.67723	15.00000	O
Bromodichloromethane	0.39717	0.42514	0.48041	0.48307	0.49666	0.48322	AVG		0.46095		8.67226	15.00000	O
cis-1,3-dichloropropene	0.44925	0.46452	0.56488	0.58715	0.58022	0.56899	AVG		0.53583		11.5435	15.00000	O
Toluene	0.75370	0.83814	0.88257	0.87302	0.89288	0.80448	AVG		0.84080		6.38463	15.00000	O
4-methyl-2-pentanone	21050	133349	630356	1700805	3021946	+++++	LNR	-0.08459	0.37932		0.99720	0.99000	O
Tetrachloroethene	0.32457	0.29337	0.29010	0.31359	0.32359	0.31822	AVG		0.31057		4.87933	15.00000	O
trans-1,3-Dichloropropene	0.41131	0.40591	0.47805	0.49725	0.50282	0.51819	AVG		0.46892		10.3389	15.00000	O
1,1,2-Trichloroethane	0.25996	0.27742	0.28496	0.27587	0.27949	0.28321	AVG		0.27682		3.23057	15.00000	O
Dibromochloromethane	0.28129	0.29955	0.35295	0.37547	0.37393	0.37560	AVG		0.34313		12.2735	15.00000	O
1,2-Dibromoethane	0.35872	0.30327	0.33717	0.35430	0.35027	0.36056	AVG		0.34405		6.29040	15.00000	O
2-Hexanone	14278	95385	478384	1313827	2401338	+++++	LNR	-0.09832	0.28378		0.99549	0.99000	O
Chlorobenzene	1.13107	1.09752	1.03714	1.01762	0.98552	0.86216	AVG		1.02184		9.25583	15.00000	O
Ethylbenzene	0.52179	0.53017	0.53905	0.53848	0.54361	0.50666	AVG		0.52996		2.60275	15.00000	O

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sales@katahdinlab.com

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** TH0532
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-C
Lab File IDs : C0220.D C0213.D C0212.D C0223.D C0222.D C0215.D **Column ID:**
Calibration Date(s): 26-NOV-14 08:07 26-NOV-14 14:53

Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
m+p-Xylenes	0.59297	0.68349	0.69404	0.69116	0.67275	0.57451	AVG		0.65149		8.18311	15.00000	O
o-Xylene	0.51230	0.63033	0.67380	0.70064	0.69299	0.62765	AVG		0.63962		10.87237	15.00000	O
Styrene	0.71947	0.93875	1.05697	1.09541	1.08100	0.93365	AVG		0.97088		14.61511	15.00000	O
Bromoform	2752	13113	68155	219440	454828	1011055	LNR	0.03585	0.27660		0.99943	0.99000	O
Isopropylbenzene	2.67148	3.10400	3.31323	3.14628	3.09134	2.61016	AVG		2.98942		9.43650	15.00000	O
1,1,2,2-Tetrachloroethane	0.98329	1.00135	0.98849	0.93659	0.90843	0.87789	AVG		0.94934		5.23132	15.00000	O
1,3-Dichlorobenzene	1.83952	1.67624	1.63588	1.62136	1.61373	1.48319	AVG		1.64499		7.01671	15.00000	O
1,4-Dichlorobenzene	2.09830	1.68589	1.64215	1.58167	1.56087	1.45521	AVG		1.67068		13.39244	15.00000	O
1,2-Dichlorobenzene	1.53111	1.49494	1.52735	1.49538	1.48517	1.39182	AVG		1.48763		3.39671	15.00000	O
1,2-Dibromo-3-Chloropropane	879	5400	26315	77856	159508	354875	LNR	0.04780	0.18538		0.99798	0.99000	O
1,2,4-Trichlorobenzene	0.94335	0.77695	0.86858	0.89412	0.87729	0.84728	AVG		0.86793		6.34517	15.00000	O
Methyl Acetate	0.64681	0.57028	0.57971	0.57035	0.60650	0.62166	AVG		0.59922		5.21014	15.00000	O
Methylcyclohexane	0.80574	0.92409	1.00486	1.01513	1.03276	1.03476	AVG		0.96956		9.27932	15.00000	O
Dibromofluoromethane	0.51455	0.54224	0.53831	0.55171	0.57792	0.54903	AVG		0.54563		3.77579	15.00000	
1,2-Dichloroethane-D4	0.80692	0.70146	0.66923	0.64080	0.68008	0.65176	AVG		0.69171		8.72147	15.00000	
Toluene-D8	1.05416	1.14721	1.20748	1.23741	1.21573	1.04698	AVG		1.15149		7.27174	15.00000	
P-Bromofluorobenzene	0.44127	0.44694	0.48854	0.53129	0.55179	0.52133	AVG		0.49686		9.20220	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG154861-7
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: SW8260APPIX-S.sub
Method File: \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Misc Info: WG154861,WG154861-4,TH0145-1

Client SDG: SDGa02236
Fraction: VOA
Client Smp ID: WG154861-LCS
Operator: DJP
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	58.0	115.99	80-120
	2 Chloromethane	50.0	53.2	106.34	80-120
	3 Vinyl chloride	50.0	52.3	104.68	80-120
	4 Bromomethane	50.0	50.0	99.90	80-120
	5 Chloroethane	50.0	44.0	87.96	80-120
	6 Trichlorofluoromet	50.0	43.8	87.61	80-120
	7 Diethyl Ether	50.0	46.0	91.92	80-120
	8 Tertiary-butyl alc	250	226	90.34	80-120
	9 1,1-Dichloroethene	50.0	50.3	100.53	80-120
	10 Carbon Disulfide	50.0	63.2	126.32*	80-120
	11 Freon-113	50.0	46.2	92.37	80-120
	12 Iodomethane	50.0	55.5	110.93	80-120
	13 Acrolein	250	245	97.89	80-120
	14 Methylene Chloride	50.0	51.0	101.97	80-120
	15 Acetone	50.0	51.6	103.16	80-120
	16 Isobutyl Alcohol	1000	887	88.71	80-120
	17 trans-1,2-Dichloro	50.0	47.8	95.65	80-120
	18 Allyl Chloride	50.0	48.4	96.87	80-120
	19 Methyl tert-butyl	100	108	108.28	80-120
	20 Acetonitrile	500	480	95.99	80-120
	21 Di-isopropyl ether	50.0	51.0	102.05	80-120
	22 Chloroprene	50.0	50.6	101.22	80-120
	23 Propionitrile	500	460	92.03	80-120
	24 Methacrylonitrile	500	466	93.10	80-120
	25 1,1-Dichloroethane	50.0	51.5	103.07	80-120
	26 Acrylonitrile	250	236	94.48	80-120
	27 Ethyl tertiary-but	50.0	52.3	104.60	80-120
	28 Vinyl Acetate	50.0	56.6	113.30	80-120
	29 cis-1,2-Dichloroet	50.0	48.8	97.61	80-120
M	30 1,2-Dichloroethyle	100	96.6	96.63	80-120
	31 Methyl Methacrylat	50.0	47.1	94.16	80-120
	32 2,2-Dichloropropan	50.0	50.1	100.17	80-120
	33 Bromochloromethane	50.0	45.5	91.04	80-120
	34 Chloroform	50.0	48.6	97.28	80-120
	35 Carbon Tetrachlori	50.0	55.4	110.79	80-120
	36 Tetrahydrofuran	50.0	48.7	97.49	80-120
	38 1,1,1-Trichloroeth	50.0	50.1	100.29	80-120
	39 1,1-Dichloropropen	50.0	54.6	109.28	80-120
	40 2-Butanone	50.0	50.3	100.68	80-120
	41 Benzene	50.0	51.8	103.60	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	51.7	103.45	80-120
	44	Ethyl Methacrylate	50.0	47.7	95.33	80-120
	46	Tertiary-amyl meth	50.0	52.8	105.58	80-120
	47	1,2-Dichloroethane	50.0	48.6	97.13	80-120
	48	Trichloroethene	50.0	50.2	100.35	80-120
	50	Dibromomethane	50.0	48.7	97.47	80-120
	51	1,2-Dichloropropan	50.0	52.3	104.62	80-120
	52	Bromodichlorometha	50.0	54.2	108.43	80-120
	53	cis-1,3-dichloropr	50.0	52.0	104.10	80-120
	54	1,4-Dioxane	1000	968	96.76	80-120
	56	2-Chloroethylvinyl	50.0	47.2	94.41	80-120
	57	Toluene	50.0	52.6	105.28	80-120
	58	4-methyl-2-pentano	50.0	50.6	101.23	80-120
	59	Tetrachloroethene	50.0	50.8	101.59	80-120
	60	trans-1,3-Dichloro	50.0	54.6	109.28	80-120
	61	1,1,2-Trichloroeth	50.0	50.4	100.84	80-120
	62	Dibromochlorometha	50.0	55.5	111.05	80-120
	63	1,3-Dichloropropan	50.0	54.2	108.34	80-120
	64	1,2-Dibromoethane	50.0	52.1	104.24	80-120
	65	2-Hexanone	50.0	48.9	97.74	80-120
	67	Chlorobenzene	50.0	49.3	98.59	80-120
	152	1-Chlorohexane	50.0	51.0	101.91	80-120
	68	Ethylbenzene	50.0	52.0	103.99	80-120
	69	1,1,1,2-Tetrachlor	50.0	54.1	108.16	80-120
M	70	Xylenes (total)	150	159	106.09	80-120
	71	m+p-Xylenes	100	106	106.05	80-120
	72	o-Xylene	50.0	53.1	106.16	80-120
	73	Styrene	50.0	57.6	115.29	80-120
	74	Bromoform	50.0	49.0	98.03	80-120
	75	Isopropylbenzene	50.0	51.9	103.80	80-120
	77	cis-1,4-Dichloro-2	50.0	47.9	95.82	80-120
	78	trans-1,4-Dichloro	50.0	47.1	94.16	80-120
	79	Bromobenzene	50.0	50.8	101.60	80-120
	80	N-Propylbenzene	50.0	50.8	101.63	80-120
	81	1,1,2,2-Tetrachlor	50.0	49.7	99.49	80-120
	82	1,3,5-Trimethylben	50.0	52.1	104.24	80-120
	83	2-Chlorotoluene	50.0	49.5	99.07	80-120
	84	1,2,3-Trichloropro	50.0	49.7	99.34	80-120
	85	4-Chlorotoluene	50.0	50.1	100.14	80-120
	86	tert-Butylbenzene	50.0	51.2	102.49	80-120
	87	Pentachloroethane	50.0	49.2	98.47	80-120
	88	1,2,4-Trimethylben	50.0	54.2	108.42	80-120
	89	P-Isopropyltoluene	50.0	56.1	112.17	80-120
	90	1,3-Dichlorobenzen	50.0	48.3	96.61	80-120
	92	1,4-Dichlorobenzen	50.0	47.8	95.57	80-120
	93	N-Butylbenzene	50.0	54.4	108.75	80-120
	94	sec-Butylbenzene	50.0	51.0	102.12	80-120
	95	1,2-Dichlorobenzen	50.0	49.4	98.72	80-120
	96	1,2-Dibromo-3-Chlo	50.0	48.3	96.56	80-120
	97	1,3,5-Trichloroben	50.0	48.4	96.91	80-120
	98	Hexachlorobutadien	50.0	48.9	97.88	80-120
	99	1,2,4-Trichloroben	50.0	52.9	105.84	80-120
	100	1,2,3-Trimethylben	50.0	50.2	100.42	80-120
	101	Naphthalene	50.0	54.5	108.98	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	52.9	105.83	80-120
103 Methyl Acetate	50.0	47.2	94.39	80-120
104 Methylcyclohexane	50.0	50.4	100.76	80-120
M 153 Total Alkylbenzene	350	370	105.69	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	47.2	94.44	68-128
$ 45 1,2-Dichloroethane	50.0	44.5	89.04	67-135
$ 55 Toluene-D8	50.0	52.1	104.16	65-128
$ 76 P-Bromofluorobenze	50.0	51.4	102.79	56-133

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0212.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0212.D
Lab Smp Id: WG154861-3 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 08:07
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-3
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 08:07 Cal File: C0212.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

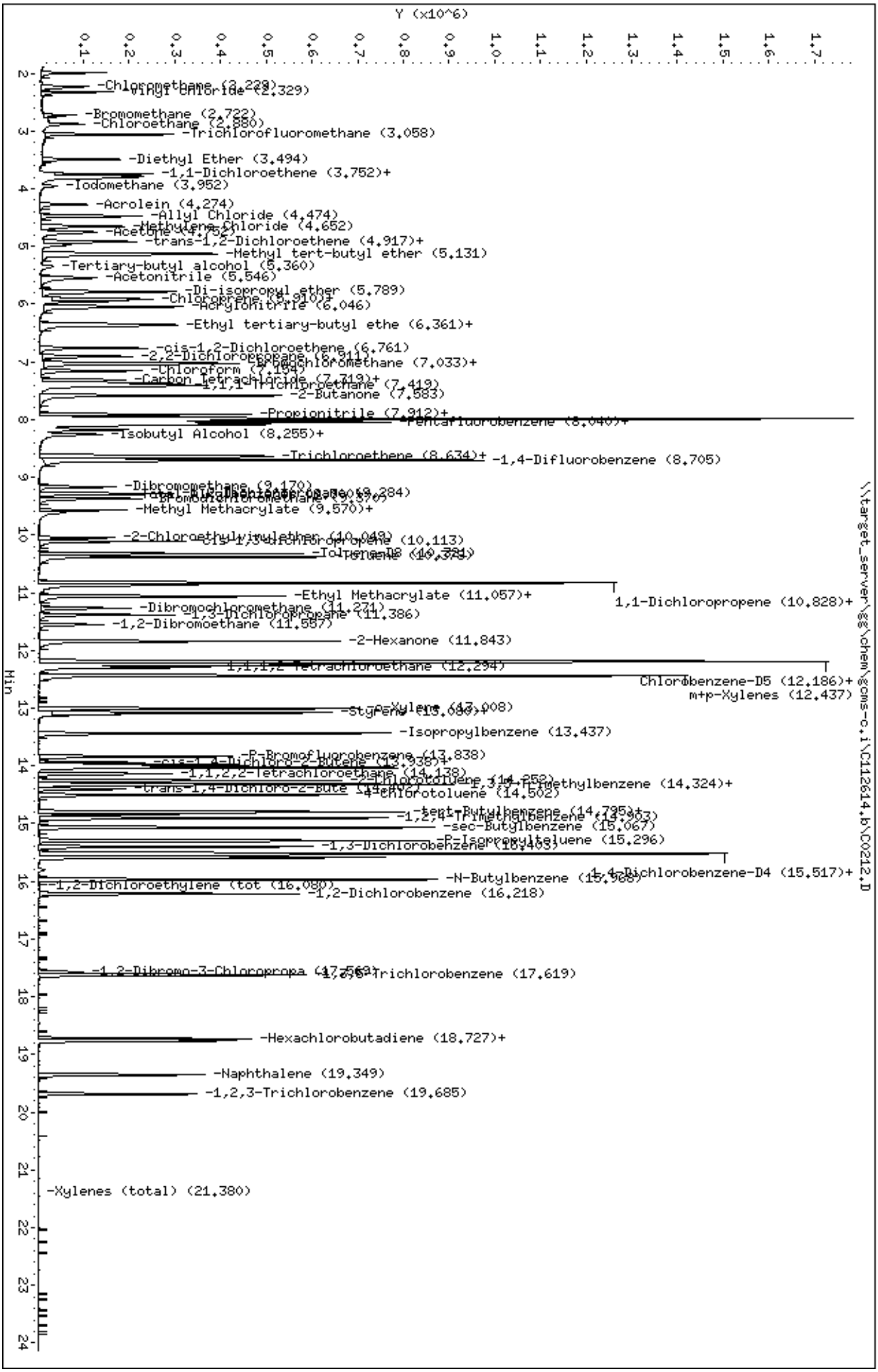
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.986	1.994	(0.247)	132334	20.0000	22.2	
2 Chloromethane	50	2.229	2.230	(0.277)	175551	20.0000	22.2	
3 Vinyl chloride	62	2.329	2.330	(0.290)	136992	20.0000	21.4	
4 Bromomethane	94	2.729	2.730	(0.339)	44815	20.0000	16.9	
5 Chloroethane	64	2.879	2.880	(0.358)	74375	20.0000	26.1	
6 Trichlorofluoromethane	101	3.058	3.059	(0.380)	222981	20.0000	20.9	
7 Diethyl Ether	59	3.494	3.488	(0.435)	97957	20.0000	20.5	
8 Tertiary-butyl alcohol	59	5.359	5.347	(0.667)	43053	100.000	90.1	
9 1,1-Dichloroethene	96	3.751	3.753	(0.467)	82547	20.0000	19.5	
10 Carbon Disulfide	76	3.787	3.788	(0.471)	267284	20.0000	20.3	
11 Freon-113	151	3.808	3.817	(0.474)	60063	20.0000	19.4	
12 Iodomethane	142	3.951	3.967	(0.491)	48193	20.0000	18.7	
13 Acrolein	56	4.266	4.274	(0.531)	107175	100.000	97.5	
14 Methylene Chloride	84	4.652	4.653	(0.579)	113262	20.0000	20.8	
15 Acetone	43	4.752	4.753	(0.591)	231493	100.000	104	
16 Isobutyl Alcohol	43	8.254	8.256	(1.027)	94309	400.000	354	
17 trans-1,2-Dichloroethene	96	4.916	4.925	(0.612)	96598	20.0000	19.6	
18 Allyl Chloride	41	4.473	4.482	(0.556)	172721	20.0000	20.8	
19 Methyl tert-butyl ether	73	5.131	5.132	(0.638)	489733	40.0000	42.3	
20 Acetonitrile	39	5.545	5.540	(0.690)	40277	200.000	184	
21 Di-isopropyl ether	45	5.788	5.790	(0.720)	347263	20.0000	21.0	
22 Chloroprene	53	5.910	5.918	(0.735)	165285	20.0000	20.8	
23 Propionitrile	54	7.969	7.970	(0.991)	234751	200.000	211	
24 Methacrylonitrile	41	7.990	7.991	(0.994)	892918	200.000	200	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0212.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.946	5.954	(0.740)	188293	20.0000	20.5	
	26 Acrylonitrile	52	6.046	6.047	(0.752)	239819	100.000	102	
	27 Ethyl tertiary-butyl ether	59	6.353	6.354	(0.790)	275256	20.0000	20.5	
	28 Vinyl Acetate	43	6.375	6.376	(0.732)	268465	20.0000	21.5	
	29 cis-1,2-Dichloroethene	96	6.761	6.762	(0.841)	108042	20.0000	19.6	
	31 Methyl Methacrylate	41	9.570	9.571	(1.099)	95506	20.0000	18.3	
	32 2,2-Dichloropropane	77	6.911	6.912	(0.860)	137315	20.0000	20.9	
	33 Bromochloromethane	128	7.039	7.041	(0.876)	50112	20.0000	20.2	
	34 Chloroform	83	7.161	7.162	(0.891)	193604	20.0000	20.8	
	35 Carbon Tetrachloride	117	7.318	7.319	(0.841)	127500	20.0000	20.5	
	36 Tetrahydrofuran	42	7.361	7.362	(0.916)	206782	100.000	107	
$	37 Dibromofluoromethane	113	7.404	7.405	(0.921)	97381	20.0000	19.7	
	38 1,1,1-Trichloroethane	97	7.418	7.419	(0.923)	163316	20.0000	20.8	
	39 1,1-Dichloropropene	75	10.871	10.872	(1.249)	140194	20.0000	20.4	
	40 2-Butanone	43	7.583	7.584	(0.943)	334032	100.000	108	
	41 Benzene	78	7.911	7.913	(0.909)	413233	20.0000	21.0	
*	42 Pentafluorobenzene	168	8.040	8.041	(1.000)	452250	50.0000		
	43 Cyclohexane	56	7.018	7.026	(0.873)	172326	20.0000	21.3	
	44 Ethyl Methacrylate	69	11.064	11.058	(1.271)	131954	20.0000	19.4	
$	45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	121063	20.0000	19.4	
	46 Tertiary-amyl methyl ether	73	8.083	8.084	(1.005)	228880	20.0000	20.2	
	47 1,2-Dichloroethane	62	8.176	8.177	(0.939)	140985	20.0000	19.8	
	48 Trichloroethene	95	8.655	8.656	(0.994)	103213	20.0000	20.4	
*	49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	733153	50.0000		
	50 Dibromomethane	93	9.169	9.164	(1.053)	63695	20.0000	19.0	
	51 1,2-Dichloropropane	63	9.284	9.285	(1.067)	99144	20.0000	19.9	
	52 Bromodichloromethane	83	9.370	9.371	(1.076)	140885	20.0000	20.8	
	53 cis-1,3-dichloropropene	75	10.113	10.114	(1.162)	165656	20.0000	21.1	
	54 1,4-Dioxane	88	9.613	9.614	(1.104)	38416	400.000	398	
$	55 Toluene-D8	98	10.320	10.322	(1.186)	354106	20.0000	21.0	
	56 2-Chloroethylvinylether	63	10.049	10.050	(1.154)	64592	20.0000	19.2	
	57 Toluene	92	10.377	10.379	(1.192)	258824	20.0000	21.0	
	58 4-methyl-2-pentanone	43	10.828	10.829	(1.244)	630356	100.000	109	
	59 Tetrachloroethene	164	10.821	10.822	(0.887)	84809	20.0000	18.7	
	60 trans-1,3-Dichloropropene	75	10.871	10.872	(1.249)	140194	20.0000	20.4	
	61 1,1,2-Trichloroethane	83	11.056	11.058	(1.270)	83568	20.0000	20.6	
	62 Dibromochloromethane	129	11.271	11.272	(0.924)	103183	20.0000	20.6	
	63 1,3-Dichloropropane	76	11.385	11.387	(0.934)	169045	20.0000	21.3	
	64 1,2-Dibromoethane	107	11.557	11.551	(1.328)	98879	20.0000	19.6	
	65 2-Hexanone	43	11.843	11.837	(0.971)	478384	100.000	110	
*	66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	730870	50.0000		
	67 Chlorobenzene	112	12.214	12.216	(1.002)	303206	20.0000	20.3	
	152 1-Chlorohexane	91	12.186	12.187	(0.999)	162642	20.0000	19.9	
	68 Ethylbenzene	106	12.243	12.251	(1.004)	157590	20.0000	20.3	
	69 1,1,1,2-Tetrachloroethane	131	12.293	12.294	(1.008)	101774	20.0000	20.6	
	71 m+p-Xylenes	106	12.436	12.437	(1.020)	405804	40.0000	42.6	
	72 o-Xylene	106	13.008	13.009	(1.067)	196985	20.0000	21.1	
	73 Styrene	104	13.079	13.081	(1.073)	309003	20.0000	21.8	
	74 Bromoform	173	13.115	13.116	(1.076)	68155	20.0000	18.6	
	75 Isopropylbenzene	105	13.437	13.438	(0.866)	533868	20.0000	22.2	
$	76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	143271	20.0000	19.7	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.938	(0.898)	56289	20.0000	20.9	
	78 trans-1,4-Dichloro-2-Butene	53	14.402	14.403	(0.928)	45429	20.0000	20.4	
	79 Bromobenzene	156	13.987	13.988	(0.901)	127842	20.0000	19.7	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0212.D
Report Date: 01-Dec-2014 07:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80 N-Propylbenzene	91	14.030	14.031	(0.904)	677572	20.0000	22.5	
81 1,1,2,2-Tetrachloroethane	83	14.137	14.139	(0.911)	159277	20.0000	20.8	
82 1,3,5-Trimethylbenzene	105	14.316	14.317	(0.923)	457198	20.0000	21.9	
83 2-Chlorotoluene	91	14.252	14.253	(0.918)	400549	20.0000	21.5	
84 1,2,3-Trichloropropane	75	14.330	14.332	(0.924)	126025	20.0000	20.8	
85 4-Chlorotoluene	91	14.502	14.503	(0.935)	408199	20.0000	21.1	
86 tert-Butylbenzene	119	14.795	14.796	(0.953)	477117	20.0000	21.5	
87 Pentachloroethane	117	14.823	14.825	(0.955)	101646	20.0000	20.5	
88 1,2,4-Trimethylbenzene	105	14.902	14.903	(0.960)	451957	20.0000	22.2	
89 P-Isopropyltoluene	119	15.295	15.297	(0.986)	521927	20.0000	23.0	
90 1,3-Dichlorobenzene	146	15.402	15.404	(0.993)	263594	20.0000	19.9	
* 91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	402831	50.0000		
92 1,4-Dichlorobenzene	146	15.545	15.547	(1.002)	264603	20.0000	19.6	
93 N-Butylbenzene	91	15.967	15.968	(1.029)	541675	20.0000	24.2	
94 sec-Butylbenzene	105	15.066	15.068	(0.971)	659485	20.0000	22.8	
95 1,2-Dichlorobenzene	146	16.217	16.219	(1.045)	246105	20.0000	20.5	
96 1,2-Dibromo-3-Chloropropane	75	17.568	17.570	(1.132)	26315	20.0000	20.0	
97 1,3,5-Trichlorobenzene	180	17.625	17.627	(1.136)	204773	20.0000	20.5	
98 Hexachlorobutadiene	225	18.726	18.728	(1.207)	93691	20.0000	21.0	
99 1,2,4-Trichlorobenzene	180	18.762	18.763	(1.209)	139956	20.0000	20.0	
100 1,2,3-Trimethylbenzene	105	15.588	15.590	(1.005)	473614	20.0000	21.6	
101 Naphthalene	128	19.355	19.349	(1.247)	315955	20.0000	19.2	
102 1,2,3-Trichlorobenzene	180	19.684	19.685	(1.269)	116027	20.0000	20.9	
103 Methyl Acetate	43	4.974	4.975	(0.619)	104869	20.0000	19.3	
104 Methylcyclohexane	83	8.626	8.635	(1.073)	181780	20.0000	20.7	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Date : 26-NOV-2014 08:07
Client ID: Initial Calibration
Sample Info: WG154861-3
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.229)
-Vinyl Chloride (2.329)
-Bromomethane (2.722)
-Chloroethane (2.880)
-Trichlorofluoromethane (3.058)
-Diethyl Ether (3.494)
-1,1-Dichloroethene (3.752)+
-Iodomethane (3.952)
-Acrolein (4.274)
-Allyl Chloride (4.474)
-Methylene Chloride (4.652)
-Acetone (4.762)
-trans-1,2-Dichloroethene (4.917)+
-Methyl tert-butyl ether (5.131)
-Tertiary-butyl alcohol (5.360)
-Acetonitrile (5.546)
-Di-isopropyl ether (5.789)
-Chloroprene (6.010)+
-Acrylonitrile (6.046)
-Ethyl tertiary-butyl ethe (6.361)+
-cis-1,2-Dichloroethene (6.761)
-2,2-Dichloropropane (6.911)
-Bromochloromethane (7.033)+
-Chloroform (7.194)
-Carbon Tetrachloride (7.319)+
-1,1,1-Trichloroethane (7.419)
-2-Butanone (7.583)
-Propionitrile (7.912)+
-Pentafluorobenzene (8.040)+
-Isobutyl Alcohol (8.255)+
-Trichloroethene (8.634)+
-1,4-Difluorobenzene (8.705)
-Dibromomethane (9.170)
-Methyl Methacrylate (9.570)+
-2-Chloroethylvinylether (10.049)
-Toluene (10.373)
-Ethyl Methacrylate (11.057)+
1,1-Dichloropropene (10.828)+
-Dibromochloromethane (11.271)
-1,3-Dichloropropane (11.386)
-1,2-Dibromoethane (11.587)
-2-Hexanone (11.843)
-1,1,1,2-Tetrachloroethane (12.294)
Chlorobenzene-D5 (12.186)+
m+p-Xylenes (12.437)
-Styrene (13.080)+
-Isopropylbenzene (13.437)
-P-Bromofluorobenzene (13.838)
-1,1,2,2-Tetrachloroethane (14.138)
-2-Chlorotoluene (14.252)
-1,3,5-Trimethylbenzene (14.324)+
-4-Chlorotoluene (14.502)
-tert-Butylbenzene (14.795)+
-1,2,4-Trimethylbenzene (14.903)
-sec-Butylbenzene (15.067)
-P-Isopropyltoluene (15.296)
-1,3-Dichlorobenzene (15.403)
1,4-Dichlorobenzene-D4 (15.517)+
-N-Butylbenzene (15.968)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.218)
-1,2,3-Trichlorobenzene (17.619)
-Hexachlorobutadiene (18.727)+
-Naphthalene (19.349)
-1,2,3-Trichlorobenzene (19.685)
-Xylenes (total) (21.380)

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Lab Smp Id: WG154861-2 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 08:39
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-2
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 08:39 Cal File: C0213.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.989	1.994	(0.247)	29683	5.00000	5.1	
2 Chloromethane	50	2.232	2.230	(0.278)	45035	5.00000	4.3	
3 Vinyl chloride	62	2.325	2.330	(0.289)	32362	5.00000	5.2	
4 Bromomethane	94	2.725	2.730	(0.339)	11563	5.00000	5.1	
5 Chloroethane	64	2.882	2.880	(0.358)	19633	5.00000	4.6	
6 Trichlorofluoromethane	101	3.061	3.059	(0.381)	52556	5.00000	5.1	
7 Diethyl Ether	59	3.490	3.488	(0.434)	24109	5.00000	5.2	
8 Tertiary-butyl alcohol	59	5.363	5.347	(0.667)	10309	25.0000	33.6	
9 1,1-Dichloroethene	96	3.754	3.753	(0.467)	21098	5.00000	5.1	
10 Carbon Disulfide	76	3.783	3.788	(0.470)	61915	5.00000	4.2	
11 Freon-113	151	3.819	3.817	(0.475)	16670	5.00000	5.5	
12 Iodomethane	142	3.955	3.967	(0.492)	10370	5.00000	4.2	
13 Acrolein	56	4.269	4.274	(0.531)	24085	25.0000	22.6	
14 Methylene Chloride	84	4.648	4.653	(0.578)	26406	5.00000	4.5(a)	
15 Acetone	43	4.755	4.753	(0.591)	54959	25.0000	25.4	
16 Isobutyl Alcohol	43	8.258	8.256	(1.027)	20185	100.000	122	
17 trans-1,2-Dichloroethene	96	4.927	4.925	(0.613)	23096	5.00000	4.8	
18 Allyl Chloride	41	4.476	4.482	(0.557)	41436	5.00000	5.2	
19 Methyl tert-butyl ether	73	5.134	5.132	(0.638)	106862	10.0000	9.5	
20 Acetonitrile	39	5.563	5.540	(0.692)	11137	50.0000	62.7	
21 Di-isopropyl ether	45	5.792	5.790	(0.720)	75271	5.00000	4.7	
22 Chloroprene	53	5.920	5.918	(0.736)	35836	5.00000	4.6	
23 Propionitrile	54	7.972	7.970	(0.991)	55550	50.0000	51.5	
24 Methacrylonitrile	41	7.993	7.991	(0.994)	215571	50.0000	48.4	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.949	5.954	(0.740)	45956	5.00000	5.2	
	26 Acrylonitrile	52	6.049	6.047	(0.752)	57511	25.0000	25.1	
	27 Ethyl tertiary-butyl ether	59	6.356	6.354	(0.790)	58028	5.00000	4.5	
	28 Vinyl Acetate	43	6.385	6.376	(0.734)	54215	5.00000	4.4	
	29 cis-1,2-Dichloroethene	96	6.764	6.762	(0.841)	27736	5.00000	5.2	
	31 Methyl Methacrylate	41	9.573	9.571	(1.100)	17279	5.00000	5.0	
	32 2,2-Dichloropropane	77	6.914	6.912	(0.860)	30147	5.00000	4.7	
	33 Bromochloromethane	128	7.042	7.041	(0.876)	11910	5.00000	4.9	
	34 Chloroform	83	7.157	7.162	(0.890)	48173	5.00000	5.3	
	35 Carbon Tetrachloride	117	7.321	7.319	(0.841)	29892	5.00000	4.9	
	36 Tetrahydrofuran	42	7.371	7.362	(0.916)	42098	25.0000	22.4	
$	37 Dibromofluoromethane	113	7.400	7.405	(0.920)	23769	5.00000	5.0	
	38 1,1,1-Trichloroethane	97	7.414	7.419	(0.922)	38633	5.00000	5.1	
	39 1,1-Dichloropropene	75	10.874	10.872	(1.250)	29225	5.00000	4.3	
	40 2-Butanone	43	7.586	7.584	(0.943)	77119	25.0000	25.7	
	41 Benzene	78	7.914	7.913	(0.910)	98485	5.00000	5.1	
*	42 Pentafluorobenzene	168	8.043	8.041	(1.000)	438345	50.0000		
	43 Cyclohexane	56	7.021	7.026	(0.873)	39130	5.00000	5.0	
	44 Ethyl Methacrylate	69	11.067	11.058	(1.272)	20610	5.00000	4.7	
$	45 1,2-Dichloroethane-D4	65	8.093	8.090	(1.006)	30748	5.00000	5.1	
	46 Tertiary-amyl methyl ether	73	8.079	8.084	(1.004)	48540	5.00000	4.4	
	47 1,2-Dichloroethane	62	8.179	8.177	(0.940)	36511	5.00000	5.2	
	48 Trichloroethene	95	8.651	8.656	(0.994)	25247	5.00000	5.1	
*	49 1,4-Difluorobenzene	114	8.701	8.706	(1.000)	719991	50.0000		
	50 Dibromomethane	93	9.165	9.164	(1.053)	14603	5.00000	4.4	
	51 1,2-Dichloropropane	63	9.287	9.285	(1.067)	24150	5.00000	4.9	
	52 Bromodichloromethane	83	9.373	9.371	(1.077)	30610	5.00000	4.6	
	53 cis-1,3-dichloropropene	75	10.109	10.114	(1.162)	33445	5.00000	4.3	
	54 1,4-Dioxane	88	9.616	9.614	(1.105)	12998	100.000	137	
$	55 Toluene-D8	98	10.323	10.322	(1.186)	82598	5.00000	5.0	
	56 2-Chloroethylvinylether	63	10.052	10.050	(1.155)	12267	5.00000	4.6	
	57 Toluene	92	10.381	10.379	(1.193)	60345	5.00000	5.0	
	58 4-methyl-2-pentanone	43	10.831	10.829	(1.245)	133349	25.0000	20.2	
	59 Tetrachloroethene	164	10.824	10.822	(0.888)	20738	5.00000	4.7	
	60 trans-1,3-Dichloropropene	75	10.874	10.872	(1.250)	29225	5.00000	4.3	
	61 1,1,2-Trichloroethane	83	11.060	11.058	(1.271)	19974	5.00000	5.0	
	62 Dibromochloromethane	129	11.274	11.272	(0.925)	21175	5.00000	4.4	
	63 1,3-Dichloropropane	76	11.388	11.387	(0.934)	40200	5.00000	5.2	
	64 1,2-Dibromoethane	107	11.553	11.551	(1.328)	21835	5.00000	4.4	
	65 2-Hexanone	43	11.846	11.837	(0.972)	95385	25.0000	18.8	
*	66 Chlorobenzene-D5	117	12.189	12.194	(1.000)	706884	50.0000		
	67 Chlorobenzene	112	12.210	12.216	(1.002)	77582	5.00000	5.4	
	152 1-Chlorohexane	91	12.189	12.187	(1.000)	40056	5.00000	5.0	
	68 Ethylbenzene	106	12.246	12.251	(1.005)	37477	5.00000	5.0	
	69 1,1,1,2-Tetrachloroethane	131	12.296	12.294	(1.009)	22241	5.00000	4.6	
	71 m+p-Xylenes	106	12.439	12.437	(1.021)	96629	10.0000	10.5	
	72 o-Xylene	106	13.011	13.009	(1.067)	44557	5.00000	4.9	
	73 Styrene	104	13.083	13.081	(1.073)	66359	5.00000	4.8	
	74 Bromoform	173	13.118	13.116	(1.076)	13113	5.00000	5.1(M)	M6
	75 Isopropylbenzene	105	13.440	13.438	(0.866)	118063	5.00000	5.2	
$	76 P-Bromofluorobenzene	95	13.840	13.838	(1.591)	32179	5.00000	4.5	
	77 cis-1,4-Dichloro-2-Butene	53	13.940	13.938	(0.898)	11791	5.00000	4.6	
	78 trans-1,4-Dichloro-2-Butene	53	14.405	14.403	(0.928)	9544	5.00000	4.5	
	79 Bromobenzene	156	13.990	13.988	(0.901)	30098	5.00000	4.9	

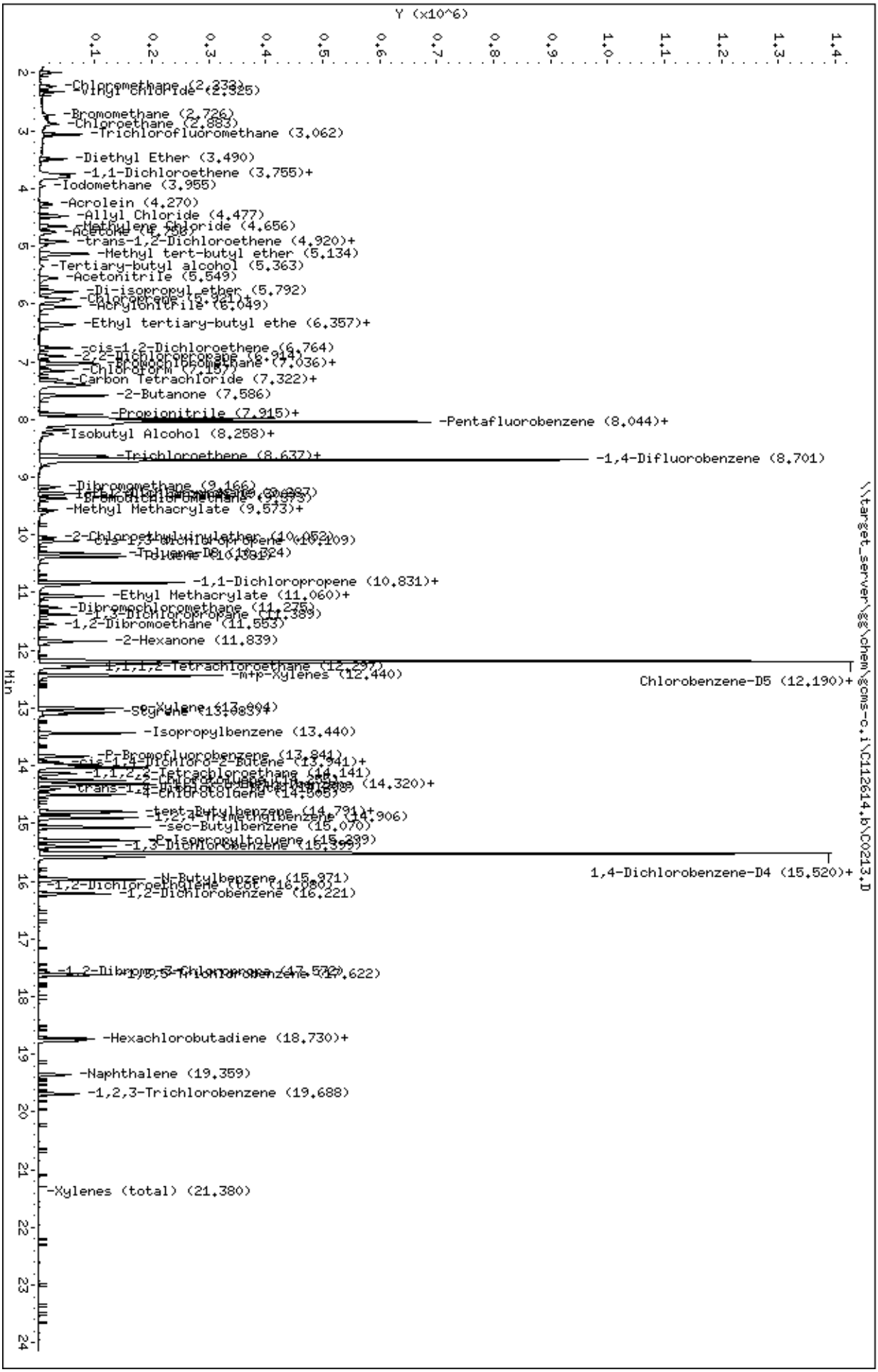
REC
4:49 pm, Dec 15, 2014

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Report Date: 01-Dec-2014 07:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80 N-Propylbenzene	91	14.026	14.031	(0.904)	158418	5.00000	5.6	
81 1,1,2,2-Tetrachloroethane	83	14.140	14.139	(0.911)	38087	5.00000	5.3	
82 1,3,5-Trimethylbenzene	105	14.319	14.317	(0.923)	102254	5.00000	5.2	
83 2-Chlorotoluene	91	14.255	14.253	(0.918)	92719	5.00000	5.3	
84 1,2,3-Trichloropropane	75	14.333	14.332	(0.924)	30295	5.00000	5.3	
85 4-Chlorotoluene	91	14.505	14.503	(0.935)	96367	5.00000	5.3	
86 tert-Butylbenzene	119	14.791	14.796	(0.953)	105292	5.00000	5.0	
87 Pentachloroethane	117	14.827	14.825	(0.955)	22066	5.00000	4.7	
88 1,2,4-Trimethylbenzene	105	14.905	14.903	(0.960)	101735	5.00000	5.3	
89 P-Isopropyltoluene	119	15.298	15.297	(0.986)	113087	5.00000	5.3	
90 1,3-Dichlorobenzene	146	15.406	15.404	(0.993)	63757	5.00000	5.1	
* 91 1,4-Dichlorobenzene-D4	152	15.520	15.518	(1.000)	380357	50.0000		
92 1,4-Dichlorobenzene	146	15.541	15.547	(1.001)	64124	5.00000	5.0	
93 N-Butylbenzene	91	15.970	15.968	(1.029)	112563	5.00000	5.3	
94 sec-Butylbenzene	105	15.070	15.068	(0.971)	149648	5.00000	5.5	
95 1,2-Dichlorobenzene	146	16.220	16.219	(1.045)	56861	5.00000	5.0	
96 1,2-Dibromo-3-Chloropropane	75	17.564	17.570	(1.132)	5400	5.00000	6.2	
97 1,3,5-Trichlorobenzene	180	17.621	17.627	(1.135)	43286	5.00000	4.6	
98 Hexachlorobutadiene	225	18.729	18.728	(1.207)	20685	5.00000	4.9	
99 1,2,4-Trichlorobenzene	180	18.765	18.763	(1.209)	29552	5.00000	4.5	
100 1,2,3-Trimethylbenzene	105	15.584	15.590	(1.004)	110210	5.00000	5.3	
101 Naphthalene	128	19.358	19.349	(1.247)	52421	5.00000	2.5	
102 1,2,3-Trichlorobenzene	180	19.687	19.685	(1.269)	24311	5.00000	4.6	
103 Methyl Acetate	43	4.977	4.975	(0.619)	24998	5.00000	4.8	
104 Methylcyclohexane	83	8.629	8.635	(1.073)	40507	5.00000	4.8	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Date : 26-NOV-2014 08:39
Client ID: Initial Calibration
Sample Info: WG154861-2
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C112614.b\C0213.D
Y (x10^6)
Min
-Chloromethane (2.338)
-Vinyl Chloride (2.325)
-Bromomethane (2.726)
-Chloroethane (2.883)
-Trichlorofluoromethane (3.062)
-Diethyl Ether (3.490)
-1,1-Dichloroethene (3.755)+
-Iodomethane (3.955)
-Acrolein (4.270)
-Allyl Chloride (4.477)
-Methylene Chloride (4.656)
-Acetone (4.756)
-trans-1,2-Dichloroethene (4.920)+
-Methyl tert-butyl ether (5.134)
-Tertiary-butyl alcohol (5.363)
-Acetonitrile (5.549)
-Di-isopropyl ether (5.792)
-Chloroprene (5.921)+
-Acrylonitrile (6.049)
-Ethyl tertiary-butyl ethe (6.357)+
-cis-1,2-Dichloroethene (6.764)
-2,2-Dichloropropane (6.914)
-Bromochloromethane (7.036)+
-Chloroform (7.157)
-Carbon Tetrachloride (7.322)+
-2-Butanone (7.586)
-Propionitrile (7.915)+
-Pentafluorobenzene (8.044)+
-Isobutyl Alcohol (8.258)+
-Trichloroethene (8.637)+
-1,4-Difluorobenzene (8.701)
-Dibromomethane (9.166)
-Bromodichloromethane (9.573)
-Methyl Methacrylate (9.573)+
-2-Chloroethylvinylether (10.052)
-Toluene (10.324)
-1,1-Dichloropropene (10.831)+
-Ethyl Methacrylate (11.060)+
-Dibromochloromethane (11.275)
-1,2-Dibromoethane (11.553)
-2-Hexanone (11.839)
-1,1,1,2-Tetrachloroethane (12.297)
-m+p-Xylenes (12.440)
Chlorobenzene-D5 (12.190)+
-Isopropylbenzene (13.440)
-P-Bromofluorobenzene (13.841)
-1,1,2,2-Tetrachloroethane (14.141)
-trans-1,4-Dichlorobutene (14.320)+
-tert-Butylbenzene (14.791)+
-1,2,4-Trimethylbenzene (14.906)
-sec-Butylbenzene (15.070)
-P-Isopropyltoluene (15.239)
-1,3-Dichlorobenzene (15.399)
1,4-Dichlorobenzene-D4 (15.520)+
-N-Butylbenzene (15.971)
-1,2-Dichloroethylene (tot) (16.080)
-1,2-Dichlorobenzene (16.221)
-1,2,3-Trichlorobenzene (17.622)
-Hexachlorobutadiene (18.730)+
-Naphthalene (19.359)
-1,2,3-Trichlorobenzene (19.688)
-Xylenes (total) (21.380)

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Lab Smp Id: WG154861-6 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 09:42
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-6
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 09:42 Cal File: C0215.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.986	1.994	(0.247)	1244119	200.000	186	
2 Chloromethane	50	2.229	2.230	(0.277)	1618755	200.000	198	
3 Vinyl chloride	62	2.329	2.330	(0.289)	1274113	200.000	177	
4 Bromomethane	94	2.730	2.730	(0.339)	622524	200.000	199	
5 Chloroethane	64	2.880	2.880	(0.358)	565228	200.000	196	
6 Trichlorofluoromethane	101	3.044	3.059	(0.378)	1427148	200.000	119(M)	M9
7 Diethyl Ether	59	3.509	3.488	(0.436)	1005231	200.000	188	
8 Tertiary-butyl alcohol	59	5.396	5.347	(0.670)	646789	1000.00	1020(A)	
9 1,1-Dichloroethene	96	3.752	3.753	(0.466)	981145	200.000	206(A)	
10 Carbon Disulfide	76	3.781	3.788	(0.470)	2825501	200.000	197	
11 Freon-113	151	3.809	3.817	(0.473)	677048	200.000	194	
12 Iodomethane	142	3.952	3.967	(0.491)	624331	200.000	216(A)	
13 Acrolein	56	4.281	4.274	(0.532)	1292675	1000.00	1050(A)	
14 Methylene Chloride	84	4.653	4.653	(0.578)	1180470	200.000	199	
15 Acetone	43	4.774	4.753	(0.593)	2425931	1000.00	970	
16 Isobutyl Alcohol	43	8.277	8.256	(1.028)	1427256	4000.00	4060(A)	
17 trans-1,2-Dichloroethene	96	4.917	4.925	(0.611)	1020284	200.000	185	
18 Allyl Chloride	41	4.481	4.482	(0.557)	1648677	200.000	177	
19 Methyl tert-butyl ether	73	5.139	5.132	(0.639)	5222244	400.000	402(A)	
20 Acetonitrile	39	5.553	5.540	(0.690)	533269	2000.00	2020(A)	
21 Di-isopropyl ether	45	5.796	5.790	(0.720)	3723898	200.000	200(A)	
22 Chloroprene	53	5.911	5.918	(0.734)	1841956	200.000	206(A)	
23 Propionitrile	54	7.991	7.970	(0.993)	2393366	2000.00	1920	
24 Methacrylonitrile	41	8.012	7.991	(0.996)	6391919	2000.00	2000	

REC
4:50 pm, Dec 15, 2014

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.954	5.954	(0.740)	1914930	200.000	186	
	26 Acrylonitrile	52	6.061	6.047	(0.753)	2581061	1000.00	974	
	27 Ethyl tertiary-butyl ether	59	6.361	6.354	(0.790)	3120984	200.000	207(A)	
	28 Vinyl Acetate	43	6.375	6.376	(0.732)	2911354	200.000	208(A)	
	29 cis-1,2-Dichloroethene	96	6.761	6.762	(0.840)	1161371	200.000	187	
	31 Methyl Methacrylate	41	9.570	9.571	(1.099)	1314883	200.000	202(A)	
	32 2,2-Dichloropropane	77	6.911	6.912	(0.859)	1557729	200.000	212(A)	
	33 Bromochloromethane	128	7.047	7.041	(0.876)	519326	200.000	186	
	34 Chloroform	83	7.162	7.162	(0.890)	1914139	200.000	183	
	35 Carbon Tetrachloride	117	7.319	7.319	(0.841)	1474830	200.000	211(A)	
	36 Tetrahydrofuran	42	7.369	7.362	(0.916)	2224548	1000.00	1020(A)	
$	37 Dibromofluoromethane	113	7.405	7.405	(0.920)	1114528	200.000	201(A)	
	38 1,1,1-Trichloroethane	97	7.419	7.419	(0.922)	1782442	200.000	202(A)	
	39 1,1-Dichloropropene	75	10.871	10.872	(1.249)	1705083	200.000	221(A)	
	40 2-Butanone	43	7.590	7.584	(0.943)	3524069	1000.00	1020(A)	
	41 Benzene	78	7.912	7.913	(0.909)	3872551	200.000	175	
*	42 Pentafluorobenzene	168	8.048	8.041	(1.000)	507503	50.0000		
	43 Cyclohexane	56	7.019	7.026	(0.872)	1830984	200.000	202(A)	
	44 Ethyl Methacrylate	69	11.064	11.058	(1.271)	1691124	200.000	202(A)	
$	45 1,2-Dichloroethane-D4	65	8.098	8.090	(1.006)	1323084	200.000	188	
	46 Tertiary-amyl methyl ether	73	8.091	8.084	(1.005)	2824607	200.000	222(A)	
	47 1,2-Dichloroethane	62	8.184	8.177	(0.940)	1482620	200.000	185	
	48 Trichloroethene	95	8.655	8.656	(0.994)	1101656	200.000	194	
*	49 1,4-Difluorobenzene	114	8.706	8.706	(1.000)	822608	50.0000		
	50 Dibromomethane	93	9.170	9.164	(1.053)	732205	200.000	194	
	51 1,2-Dichloropropane	63	9.284	9.285	(1.067)	1100781	200.000	197	
	52 Bromodichloromethane	83	9.370	9.371	(1.076)	1589998	200.000	210(A)	
	53 cis-1,3-dichloropropene	75	10.114	10.114	(1.162)	1872237	200.000	212(A)	
	54 1,4-Dioxane	88	9.620	9.614	(1.105)	368209	4000.00	3400	
$	55 Toluene-D8	98	10.321	10.322	(1.186)	3445018	200.000	182	
	56 2-Chloroethylvinylether	63	10.049	10.050	(1.154)	803036	200.000	201(A)	
	57 Toluene	92	10.385	10.379	(1.193)	2647090	200.000	191	
	58 4-methyl-2-pentanone	43	10.836	10.829	(1.245)	5277527	1000.00	841	
	59 Tetrachloroethene	164	10.821	10.822	(0.887)	1163904	200.000	205(A)	
	60 trans-1,3-Dichloropropene	75	10.871	10.872	(1.249)	1705083	200.000	221(A)	
	61 1,1,2-Trichloroethane	83	11.064	11.058	(1.271)	931872	200.000	205(A)	
	62 Dibromochloromethane	129	11.272	11.272	(0.924)	1373775	200.000	219(A)	
	63 1,3-Dichloropropane	76	11.386	11.387	(0.934)	1817362	200.000	183	
	64 1,2-Dibromoethane	107	11.558	11.551	(1.328)	1186385	200.000	210(A)	
	65 2-Hexanone	43	11.843	11.837	(0.971)	4413519	1000.00	846	
*	66 Chlorobenzene-D5	117	12.194	12.194	(1.000)	914379	50.0000		
	67 Chlorobenzene	112	12.215	12.216	(1.002)	3153370	200.000	169	
	152 1-Chlorohexane	91	12.187	12.187	(0.999)	1906916	200.000	186	
	68 Ethylbenzene	106	12.251	12.251	(1.005)	1853109	200.000	191	
	69 1,1,1,2-Tetrachloroethane	131	12.301	12.294	(1.009)	1276863	200.000	207(A)	
	71 m+p-Xylenes	106	12.444	12.437	(1.021)	4202547	400.000	353	
	72 o-Xylene	106	13.009	13.009	(1.067)	2295645	200.000	196	
	73 Styrene	104	13.080	13.081	(1.073)	3414822	200.000	192	
	74 Bromoform	173	13.123	13.116	(1.076)	1011055	200.000	202(A)	
	75 Isopropylbenzene	105	13.437	13.438	(0.866)	4973048	200.000	175	
$	76 P-Bromofluorobenzene	95	13.838	13.838	(1.590)	1715415	200.000	210(A)	
	77 cis-1,4-Dichloro-2-Butene	53	13.945	13.938	(0.898)	698992	200.000	219(A)	
	78 trans-1,4-Dichloro-2-Butene	53	14.402	14.403	(0.928)	554518	200.000	211(A)	
	79 Bromobenzene	156	13.988	13.988	(0.901)	1531685	200.000	199	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Report Date: 01-Dec-2014 07:52

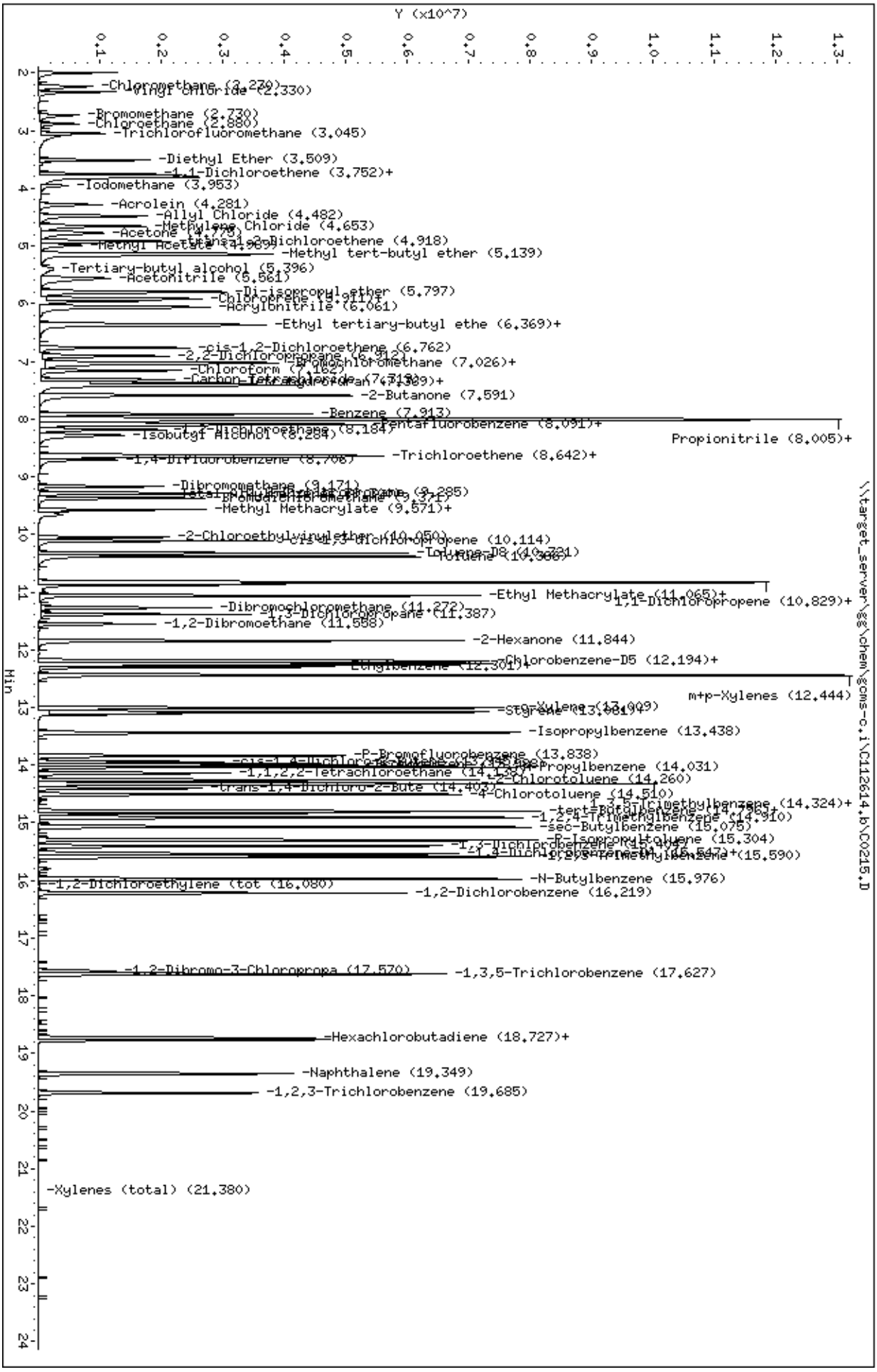
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80 N-Propylbenzene	91	14.031	14.031	(0.904)	5546511	200.000	156	
81 1,1,2,2-Tetrachloroethane	83	14.138	14.139	(0.911)	1672604	200.000	185	
82 1,3,5-Trimethylbenzene	105	14.324	14.317	(0.923)	4317950	200.000	175	
83 2-Chlorotoluene	91	14.260	14.253	(0.919)	3839120	200.000	174	
84 1,2,3-Trichloropropane	75	14.338	14.332	(0.924)	1388776	200.000	194	
85 4-Chlorotoluene	91	14.510	14.503	(0.935)	3886127	200.000	170	
86 tert-Butylbenzene	119	14.796	14.796	(0.953)	4959360	200.000	189	
87 Pentachloroethane	117	14.824	14.825	(0.955)	1263886	200.000	216(A)	
88 1,2,4-Trimethylbenzene	105	14.910	14.903	(0.960)	4200030	200.000	174	
89 P-Isopropyltoluene	119	15.303	15.297	(0.986)	4693286	200.000	175	
90 1,3-Dichlorobenzene	146	15.403	15.404	(0.992)	2825878	200.000	180	
* 91 1,4-Dichlorobenzene-D4	152	15.525	15.518	(1.000)	476316	50.0000		
92 1,4-Dichlorobenzene	146	15.546	15.547	(1.001)	2772558	200.000	174	
93 N-Butylbenzene	91	15.975	15.968	(1.029)	4408271	200.000	166	
94 sec-Butylbenzene	105	15.074	15.068	(0.971)	5448546	200.000	159	
95 1,2-Dichlorobenzene	146	16.218	16.219	(1.045)	2651791	200.000	187	
96 1,2-Dibromo-3-Chloropropane	75	17.569	17.570	(1.132)	354875	200.000	203(A)	
97 1,3,5-Trichlorobenzene	180	17.626	17.627	(1.135)	2237455	200.000	190	
98 Hexachlorobutadiene	225	18.727	18.728	(1.206)	938380	200.000	178	
99 1,2,4-Trichlorobenzene	180	18.763	18.763	(1.209)	1614300	200.000	195	
100 1,2,3-Trimethylbenzene	105	15.589	15.590	(1.004)	4371766	200.000	169	
101 Naphthalene	128	19.356	19.349	(1.247)	3641918	200.000	196	
102 1,2,3-Trichlorobenzene	180	19.685	19.685	(1.268)	1247857	200.000	190	
103 Methyl Acetate	43	4.989	4.975	(0.620)	1261982	200.000	207(A)	
104 Methylcyclohexane	83	8.634	8.635	(1.073)	2100583	200.000	213(A)	

QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0215.D
Date : 26-NOV-2014 09:42
Client ID: Initial Calibration
Sample Info: WG154861-6
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Lab Smp Id: WG154861-1 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 13:18 MS Autotune Date: 03-APR-2014 08:54
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-1
Misc Info :
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Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 13:18 Cal File: C0220.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.988	1.994	(0.247)	6183	1.00000	1.0	
3 Vinyl chloride	62	2.324	2.330	(0.289)	7132	1.00000	1.1	
4 Bromomethane	94	2.725	2.730	(0.339)	3768	1.00000	2.1	
6 Trichlorofluoromethane	101	3.061	3.059	(0.381)	11432	1.00000	1.0	
7 Diethyl Ether	59	3.489	3.488	(0.434)	5493	1.00000	1.1	
8 Tertiary-butyl alcohol	59	5.348	5.347	(0.665)	1935	5.00000	18.3(M)	M9
9 1,1-Dichloroethene	96	3.754	3.753	(0.467)	4367	1.00000	0.99(a)	
10 Carbon Disulfide	76	3.782	3.788	(0.470)	19476	1.00000	0.70(a)	
11 Freon-113	151	3.818	3.817	(0.475)	3455	1.00000	1.1	
12 Iodomethane	142	3.961	3.967	(0.493)	3183	1.00000	1.2(M)	M6
13 Acrolein	56	4.276	4.274	(0.532)	5997	5.00000	5.3	
15 Acetone	43	4.769	4.753	(0.593)	11873	5.00000	5.1	
16 Isobutyl Alcohol	43	8.264	8.256	(1.028)	3328	20.0000	67.1(M)	M9
17 trans-1,2-Dichloroethene	96	4.919	4.925	(0.612)	6092	1.00000	1.2	
18 Allyl Chloride	41	4.476	4.482	(0.557)	8041	1.00000	0.94(a)	
19 Methyl tert-butyl ether	73	5.133	5.132	(0.638)	22102	2.00000	1.8	
20 Acetonitrile	39	5.541	5.540	(0.689)	3391	10.0000	28.0(M)	M9
21 Di-isopropyl ether	45	5.798	5.790	(0.721)	15101	1.00000	0.88(a)	
22 Chloroprene	53	5.913	5.918	(0.735)	7220	1.00000	0.87(a)	
23 Propionitrile	54	7.978	7.970	(0.992)	11551	10.0000	10.0	
24 Methacrylonitrile	41	7.993	7.991	(0.994)	47534	10.0000	12.6	
25 1,1-Dichloroethane	63	5.948	5.954	(0.740)	9581	1.00000	1.0	
26 Acrylonitrile	52	6.048	6.047	(0.752)	12599	5.00000	5.1	
27 Ethyl tertiary-butyl ether	59	6.349	6.354	(0.789)	11838	1.00000	0.85(a)	

REC
4:50 pm, Dec 15, 2014

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	28 Vinyl Acetate	43	6.391	6.376	(0.735)	11009	1.00000	0.83(a)	
	29 cis-1,2-Dichloroethene	96	6.770	6.762	(0.842)	6153	1.00000	1.1	
	31 Methyl Methacrylate	41	9.587	9.571	(1.102)	4151	1.00000	2.7(M)	M9
	32 2,2-Dichloropropane	77	6.913	6.912	(0.860)	6104	1.00000	0.90(a)	
	33 Bromochloromethane	128	7.042	7.041	(0.876)	3204	1.00000	1.2	
	34 Chloroform	83	7.163	7.162	(0.891)	9771	1.00000	1.0	
	35 Carbon Tetrachloride	117	7.328	7.319	(0.842)	5478	1.00000	0.83(a)	
	36 Tetrahydrofuran	42	7.378	7.362	(0.917)	9430	5.00000	4.7(aM)	M9
$	37 Dibromofluoromethane	113	7.406	7.405	(0.921)	4824	1.00000	0.94(a)	
	38 1,1,1-Trichloroethane	97	7.414	7.419	(0.922)	7262	1.00000	0.89(a)	
	39 1,1-Dichloropropene	75	10.873	10.872	(1.250)	6397	1.00000	0.88(a)	
	40 2-Butanone	43	7.592	7.584	(0.944)	12602	5.00000	3.9(a)	
	41 Benzene	78	7.914	7.913	(0.910)	21533	1.00000	1.0	
*	42 Pentafluorobenzene	168	8.043	8.041	(1.000)	468759	50.0000		
	43 Cyclohexane	56	7.020	7.026	(0.873)	7214	1.00000	0.86(a)	
	44 Ethyl Methacrylate	69	11.066	11.058	(1.272)	3929	1.00000	2.4(M)	M9
$	45 1,2-Dichloroethane-D4	65	8.093	8.090	(1.006)	7565	1.00000	1.2	
	46 Tertiary-amyl methyl ether	73	8.086	8.084	(1.005)	9695	1.00000	0.82(aM)	M9
	47 1,2-Dichloroethane	62	8.186	8.177	(0.941)	8589	1.00000	1.1	
	48 Trichloroethene	95	8.657	8.656	(0.995)	5120	1.00000	0.95(a)	
*	49 1,4-Difluorobenzene	114	8.700	8.706	(1.000)	777634	50.0000		
	50 Dibromomethane	93	9.172	9.164	(1.054)	4565	1.00000	1.3	
	51 1,2-Dichloropropane	63	9.286	9.285	(1.067)	5138	1.00000	0.97(a)	
	52 Bromodichloromethane	83	9.372	9.371	(1.077)	6177	1.00000	0.86(a)	
	53 cis-1,3-dichloropropene	75	10.116	10.114	(1.163)	6987	1.00000	0.84(a)	
	54 1,4-Dioxane	88	9.622	9.614	(1.106)	1710	20.0000	16.7(aM)	M9
$	55 Toluene-D8	98	10.323	10.322	(1.186)	16395	1.00000	0.92(a)	
	56 2-Chloroethylvinylether	63	10.051	10.050	(1.155)	2262	1.00000	1.8(M)	M9
	57 Toluene	92	10.387	10.379	(1.194)	11722	1.00000	0.90(a)	
	59 Tetrachloroethene	164	10.830	10.822	(0.889)	4957	1.00000	1.0	
	60 trans-1,3-Dichloropropene	75	10.873	10.872	(1.250)	6397	1.00000	0.88(a)	
	61 1,1,2-Trichloroethane	83	11.059	11.058	(1.271)	4043	1.00000	0.94(a)	
	62 Dibromochloromethane	129	11.266	11.272	(0.924)	4296	1.00000	0.82(a)	
	63 1,3-Dichloropropane	76	11.388	11.387	(0.934)	8023	1.00000	0.97(a)	
	64 1,2-Dibromoethane	107	11.559	11.551	(1.329)	5579	1.00000	1.0(M)	M6
*	66 Chlorobenzene-D5	117	12.188	12.194	(1.000)	763615	50.0000		
	67 Chlorobenzene	112	12.210	12.216	(1.002)	17274	1.00000	1.1	
	152 1-Chlorohexane	91	12.188	12.187	(1.000)	9155	1.00000	1.1	
	68 Ethylbenzene	106	12.253	12.251	(1.005)	7969	1.00000	0.98(a)	
	69 1,1,1,2-Tetrachloroethane	131	12.296	12.294	(1.009)	4524	1.00000	0.88(a)	
	71 m+p-Xylenes	106	12.439	12.437	(1.021)	18112	2.00000	1.8(a)	
	72 o-Xylene	106	13.011	13.009	(1.067)	7824	1.00000	0.80(a)	
	73 Styrene	104	13.082	13.081	(1.073)	10988	1.00000	0.74(a)	
	74 Bromoform	173	13.118	13.116	(1.076)	2752	1.00000	2.4	
	75 Isopropylbenzene	105	13.439	13.438	(0.866)	21803	1.00000	0.89(a)	
$	76 P-Bromofluorobenzene	95	13.840	13.838	(1.591)	6863	1.00000	0.89(a)	
	77 cis-1,4-Dichloro-2-Butene	53	13.940	13.938	(0.898)	2393	1.00000	0.88(a)	
	78 trans-1,4-Dichloro-2-Butene	53	14.397	14.403	(0.928)	2255	1.00000	1.00(M)	M9
	79 Bromobenzene	156	13.990	13.988	(0.901)	6669	1.00000	1.0	
	80 N-Propylbenzene	91	14.033	14.031	(0.904)	30312	1.00000	0.99(a)	
	81 1,1,2,2-Tetrachloroethane	83	14.140	14.139	(0.911)	8025	1.00000	1.0	
	82 1,3,5-Trimethylbenzene	105	14.319	14.317	(0.923)	19025	1.00000	0.90(a)	
	83 2-Chlorotoluene	91	14.261	14.253	(0.919)	17907	1.00000	0.95(a)	
	84 1,2,3-Trichloropropane	75	14.340	14.332	(0.924)	5828	1.00000	0.95(a)	

REC
4:50 pm, Dec 15, 2014

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Report Date: 01-Dec-2014 07:52

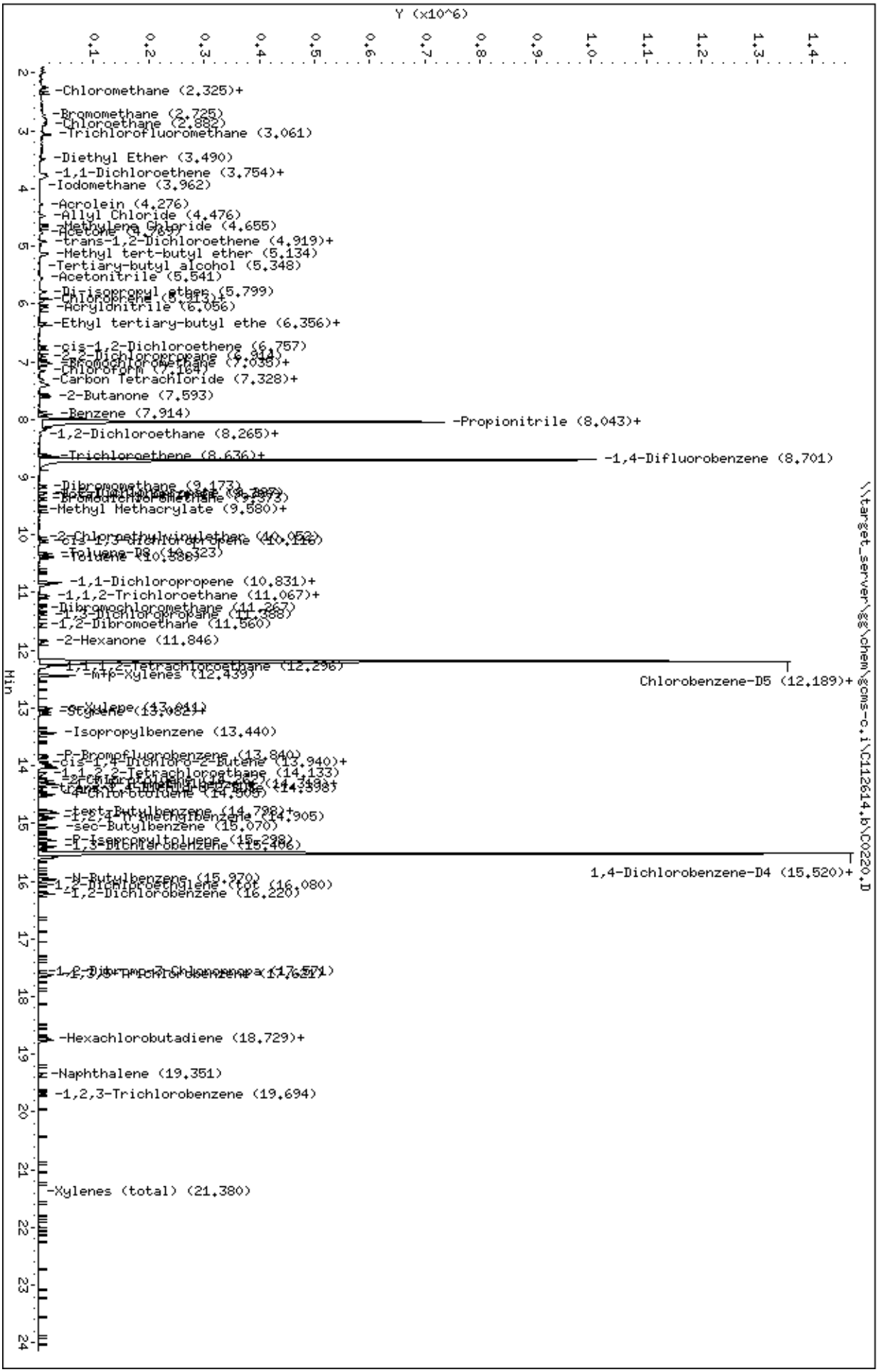
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
85	4-Chlorotoluene	91	14.504	14.503	(0.935)	20021	1.00000	1.0	
86	tert-Butylbenzene	119	14.798	14.796	(0.953)	19491	1.00000	0.87(a)	
88	1,2,4-Trimethylbenzene	105	14.905	14.903	(0.960)	17663	1.00000	0.86(a)	
89	P-Isopropyltoluene	119	15.298	15.297	(0.986)	18594	1.00000	0.81(a)	
90	1,3-Dichlorobenzene	146	15.405	15.404	(0.993)	15013	1.00000	1.1	
* 91	1,4-Dichlorobenzene-D4	152	15.519	15.518	(1.000)	408069	50.0000		
92	1,4-Dichlorobenzene	146	15.541	15.547	(1.001)	17125	1.00000	1.2	
93	N-Butylbenzene	91	15.970	15.968	(1.029)	19164	1.00000	0.84(a)	
94	sec-Butylbenzene	105	15.069	15.068	(0.971)	27901	1.00000	0.95(a)	
95	1,2-Dichlorobenzene	146	16.220	16.219	(1.045)	12496	1.00000	1.0	
96	1,2-Dibromo-3-Chloropropane	75	17.571	17.570	(1.132)	879	1.00000	3.0	
97	1,3,5-Trichlorobenzene	180	17.628	17.627	(1.136)	11038	1.00000	1.1	
98	Hexachlorobutadiene	225	18.722	18.728	(1.206)	5648	1.00000	1.2	
99	1,2,4-Trichlorobenzene	180	18.765	18.763	(1.209)	7699	1.00000	1.1	
100	1,2,3-Trimethylbenzene	105	15.591	15.590	(1.005)	21769	1.00000	0.98(a)	
102	1,2,3-Trichlorobenzene	180	19.694	19.685	(1.269)	6018	1.00000	1.1	
103	Methyl Acetate	43	4.990	4.975	(0.621)	6064	1.00000	1.1(M)	M9
104	Methylcyclohexane	83	8.629	8.635	(1.073)	7554	1.00000	0.83(a)	

REC

4:50 pm, Dec 15, 2014

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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Date : 26-NOV-2014 13:18
Client ID: Initial Calibration
Sample Info: WG154861-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C112614.b\C0220.D
Y (x10^6)
Min
-Chloromethane (2.325)+
-Bromomethane (2.725)
-Chloroethane (2.882)
-Trichlorofluoromethane (3.061)
-Diethyl Ether (3.490)
-1,1-Dichloroethene (3.754)+
-Iodomethane (3.962)
-Acrolein (4.276)
-Allyl Chloride (4.476)
-Methylene Chloride (4.655)
-Acetone (4.769)
-trans-1,2-Dichloroethene (4.919)+
-Methyl tert-butyl ether (5.134)
-Tertiary-butyl alcohol (5.348)
-Acetonitrile (5.541)
-Diisopropyl ether (5.799)
-Chloroprene (6.021)+
-Acrylonitrile (6.056)
-Ethyl tertiary-butyl ethe (6.356)+
-cis-1,2-Dichloroethene (6.757)
-2,2-Dichloropropane (6.914)
-Bromochloromethane (7.035)+
-Chloroform (7.164)
-Carbon Tetrachloride (7.328)+
-2-Butanone (7.593)
-Benzene (7.914)
-Propionitrile (8.043)+
-1,2-Dichloroethane (8.265)+
-Trichloroethene (8.636)+
-1,4-Difluorobenzene (8.701)
-Dibromomethane (9.173)
-Methyl Methacrylate (9.580)+
-2-Chloroethylvinylether (10.052)
-Toluene-D8 (10.323)
-Toluene (10.586)
-1,1-Dichloropropene (10.831)+
-1,1,2-Trichloroethane (11.067)+
-Dibromochloromethane (11.267)
-1,2-Dibromoethane (11.560)
-2-Hexanone (11.846)
-1,1,1,2-Tetrachloroethane (12.296)
-m+p-Xylenes (12.439)
Chlorobenzene-D5 (12.189)+
-o-Xylene (13.041)
-Styrene (13.082)+
-Isopropylbenzene (13.440)
-P-Bromofluorobenzene (13.840)
-cis-1,4-Dichloro-2-Butene (13.940)+
-1,1,2,2-Tetrachloroethane (14.133)
-2-Chlorotoluene (14.306)
-tert-Butylbenzene (14.798)+
-1,2,4-Trimethylbenzene (14.905)
-sec-Butylbenzene (15.070)
-p-Isopropyltoluene (15.236)
-1,3-Dichlorobenzene (15.406)
1,4-Dichlorobenzene-D4 (15.520)+
-N-Butylbenzene (15.970)
-1,2-Dichloroethylene-tot (16.080)
-1,2-Dichlorobenzene (16.220)
-1,2-Dibromo-3-Chloropropa (17.571)
-1,3,5-Trichlorobenzene (17.621)
-Hexachlorobutadiene (18.729)+
-Naphthalene (19.351)
-1,2,3-Trichlorobenzene (19.694)
-Xylenes (total) (21.380)

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0222.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0222.D
Lab Smp Id: WG154861-5 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 14:22 MS Autotune Date: 03-APR-2014 08:54
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-5
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:22 Cal File: C0222.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

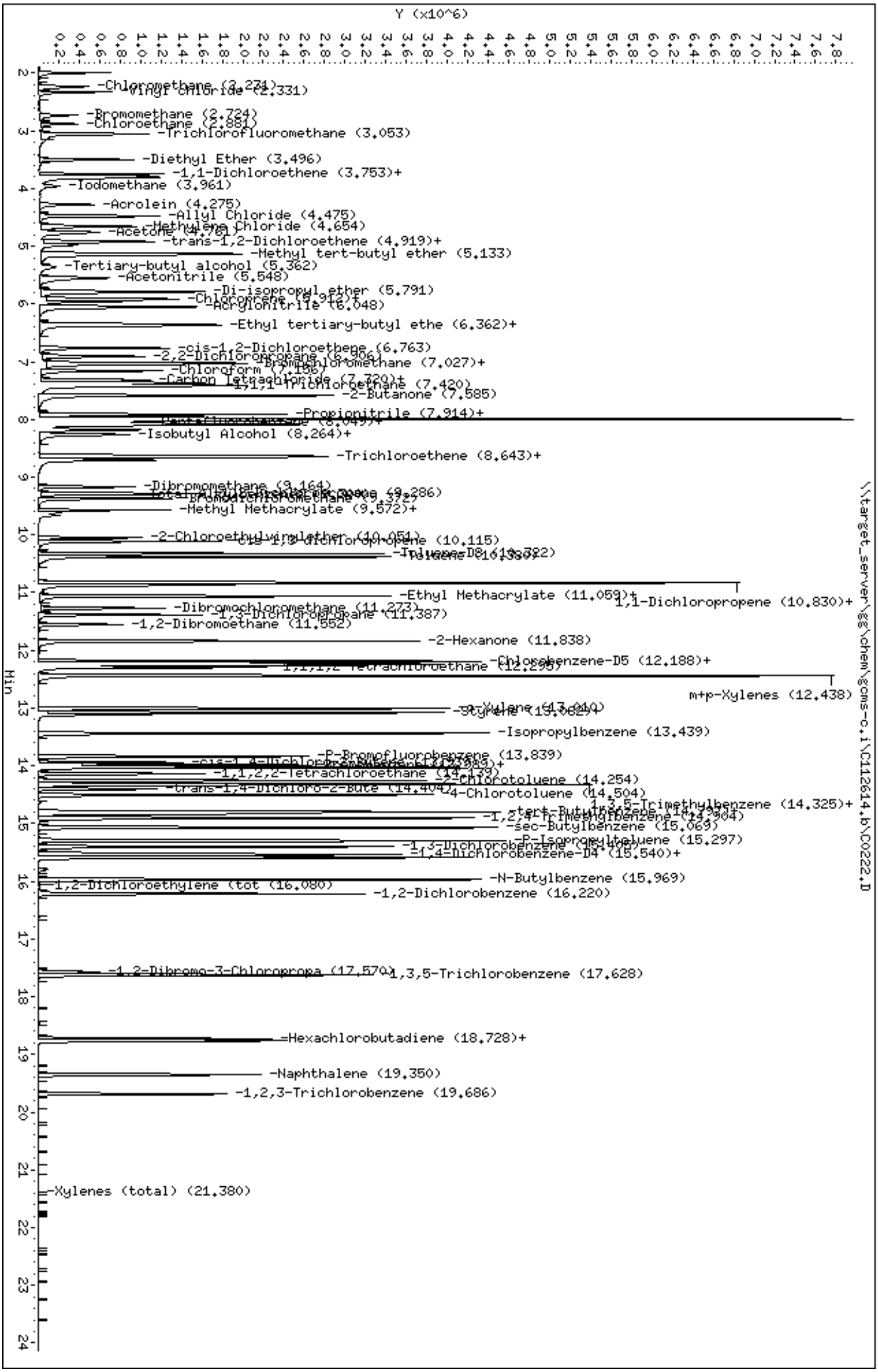
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.987	1.994	(0.247)	619262	100.000	95.2	
2 Chloromethane	50	2.230	2.230	(0.277)	826979	100.000	103	
3 Vinyl chloride	62	2.330	2.330	(0.290)	674925	100.000	96.4	
4 Bromomethane	94	2.724	2.730	(0.338)	309589	100.000	102	
5 Chloroethane	64	2.881	2.880	(0.358)	300052	100.000	106	
6 Trichlorofluoromethane	101	3.052	3.059	(0.379)	1190330	100.000	102	
7 Diethyl Ether	59	3.496	3.488	(0.434)	486136	100.000	93.3	
8 Tertiary-butyl alcohol	59	5.361	5.347	(0.666)	275030	500.000	455	
9 1,1-Dichloroethene	96	3.753	3.753	(0.466)	472626	100.000	102	
10 Carbon Disulfide	76	3.782	3.788	(0.470)	1470539	100.000	105	
11 Freon-113	151	3.810	3.817	(0.473)	325470	100.000	96.1	
12 Iodomethane	142	3.960	3.967	(0.492)	296801	100.000	106	
13 Acrolein	56	4.275	4.274	(0.531)	609493	500.000	508	
14 Methylene Chloride	84	4.654	4.653	(0.578)	596985	100.000	103	
15 Acetone	43	4.761	4.753	(0.592)	1131900	500.000	465	
16 Isobutyl Alcohol	43	8.263	8.256	(1.027)	642577	2000.00	1910	
17 trans-1,2-Dichloroethene	96	4.918	4.925	(0.611)	539135	100.000	100	
18 Allyl Chloride	41	4.475	4.482	(0.556)	957580	100.000	106	
19 Methyl tert-butyl ether	73	5.132	5.132	(0.638)	2585734	200.000	205	
20 Acetonitrile	39	5.547	5.540	(0.689)	249663	1000.00	978	
21 Di-isopropyl ether	45	5.790	5.790	(0.719)	1964835	100.000	109	
22 Chloroprene	53	5.912	5.918	(0.734)	945548	100.000	109	
23 Propionitrile	54	7.977	7.970	(0.991)	1186030	1000.00	976	
24 Methacrylonitrile	41	7.999	7.991	(0.994)	3806642	1000.00	1020	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0222.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.947	5.954	(0.739)	1025248	100.000	102	
	26 Acrylonitrile	52	6.047	6.047	(0.751)	1266909	500.000	492	
	27 Ethyl tertiary-butyl ether	59	6.355	6.354	(0.790)	1603244	100.000	110	
	28 Vinyl Acetate	43	6.376	6.376	(0.732)	1461496	100.000	106	
	29 cis-1,2-Dichloroethene	96	6.762	6.762	(0.840)	611883	100.000	102	
	31 Methyl Methacrylate	41	9.571	9.571	(1.099)	611744	100.000	96.8	
	32 2,2-Dichloropropane	77	6.905	6.912	(0.858)	737944	100.000	103	
	33 Bromochloromethane	128	7.041	7.041	(0.875)	250274	100.000	92.2	
	34 Chloroform	83	7.155	7.162	(0.889)	1021175	100.000	100	
	35 Carbon Tetrachloride	117	7.320	7.319	(0.841)	738159	100.000	108	
	36 Tetrahydrofuran	42	7.363	7.362	(0.915)	1094124	500.000	517	
$	37 Dibromofluoromethane	113	7.406	7.405	(0.920)	570677	100.000	106	
	38 1,1,1-Trichloroethane	97	7.420	7.419	(0.922)	908352	100.000	106	
	39 1,1-Dichloropropene	75	10.872	10.872	(1.249)	811870	100.000	107	
	40 2-Butanone	43	7.584	7.584	(0.942)	1721747	500.000	510	
	41 Benzene	78	7.913	7.913	(0.909)	2171994	100.000	100	
*	42 Pentafluorobenzene	168	8.049	8.041	(1.000)	493732	50.0000		
	43 Cyclohexane	56	7.027	7.026	(0.873)	931255	100.000	106	
	44 Ethyl Methacrylate	69	11.058	11.058	(1.270)	795493	100.000	97.6	
$	45 1,2-Dichloroethane-D4	65	8.092	8.090	(1.005)	671554	100.000	98.3	
	46 Tertiary-amyl methyl ether	73	8.085	8.084	(1.004)	1377779	100.000	111	
	47 1,2-Dichloroethane	62	8.178	8.177	(0.939)	752226	100.000	95.7	
	48 Trichloroethene	95	8.656	8.656	(0.994)	577308	100.000	104	
*	49 1,4-Difluorobenzene	114	8.706	8.706	(1.000)	807320	50.0000		
	50 Dibromomethane	93	9.164	9.164	(1.053)	351154	100.000	95.0	
	51 1,2-Dichloropropane	63	9.285	9.285	(1.066)	572244	100.000	104	
	52 Bromodichloromethane	83	9.371	9.371	(1.076)	801934	100.000	108	
	53 cis-1,3-dichloropropene	75	10.115	10.114	(1.162)	936845	100.000	108	
	54 1,4-Dioxane	88	9.614	9.614	(1.104)	166545	2000.00	1570	
$	55 Toluene-D8	98	10.322	10.322	(1.186)	1962959	100.000	106	
	56 2-Chloroethylvinylether	63	10.050	10.050	(1.154)	379075	100.000	97.4	
	57 Toluene	92	10.379	10.379	(1.192)	1441682	100.000	106	
	58 4-methyl-2-pentanone	43	10.829	10.829	(1.244)	3021946	500.000	489	
	59 Tetrachloroethene	164	10.822	10.822	(0.887)	557989	100.000	104	
	60 trans-1,3-Dichloropropene	75	10.872	10.872	(1.249)	811870	100.000	107	
	61 1,1,2-Trichloroethane	83	11.058	11.058	(1.270)	451269	100.000	101	
	62 Dibromochloromethane	129	11.273	11.272	(0.924)	644801	100.000	109	
	63 1,3-Dichloropropane	76	11.387	11.387	(0.934)	909485	100.000	97.0	
	64 1,2-Dibromoethane	107	11.551	11.551	(1.327)	565553	100.000	102	
	65 2-Hexanone	43	11.837	11.837	(0.971)	2401338	500.000	486	
*	66 Chlorobenzene-D5	117	12.195	12.194	(1.000)	862194	50.0000		
	67 Chlorobenzene	112	12.216	12.216	(1.002)	1699418	100.000	96.4	
	152 1-Chlorohexane	91	12.188	12.187	(0.999)	959744	100.000	99.4	
	68 Ethylbenzene	106	12.252	12.251	(1.005)	937396	100.000	102	
	69 1,1,1,2-Tetrachloroethane	131	12.295	12.294	(1.008)	621148	100.000	107	
	71 m+p-Xylenes	106	12.438	12.437	(1.020)	2320157	200.000	206	
	72 o-Xylene	106	13.010	13.009	(1.067)	1194987	100.000	108	
	73 Styrene	104	13.081	13.081	(1.073)	1864064	100.000	111	
	74 Bromoform	173	13.117	13.116	(1.076)	454828	100.000	97.1	
	75 Isopropylbenzene	105	13.438	13.438	(0.866)	2900600	100.000	103	
$	76 P-Bromofluorobenzene	95	13.839	13.838	(1.589)	890939	100.000	111	
	77 cis-1,4-Dichloro-2-Butene	53	13.939	13.938	(0.898)	320750	100.000	102	
	78 trans-1,4-Dichloro-2-Butene	53	14.403	14.403	(0.928)	259717	100.000	100	
	79 Bromobenzene	156	13.989	13.988	(0.901)	772823	100.000	102	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0222.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.032	14.031	(0.904)	3394685	100.000	96.6	
81	1,1,2,2-Tetrachloroethane	83	14.139	14.139	(0.911)	852378	100.000	95.7	
82	1,3,5-Trimethylbenzene	105	14.318	14.317	(0.923)	2513581	100.000	103	
83	2-Chlorotoluene	91	14.253	14.253	(0.918)	2206597	100.000	102	
84	1,2,3-Trichloropropane	75	14.332	14.332	(0.924)	694881	100.000	98.4	
85	4-Chlorotoluene	91	14.504	14.503	(0.935)	2221481	100.000	98.7	
86	tert-Butylbenzene	119	14.797	14.796	(0.953)	2718910	100.000	105	
87	Pentachloroethane	117	14.825	14.825	(0.955)	616519	100.000	107	
88	1,2,4-Trimethylbenzene	105	14.904	14.903	(0.960)	2445607	100.000	103	
89	P-Isopropyltoluene	119	15.297	15.297	(0.986)	2734758	100.000	103	
90	1,3-Dichlorobenzene	146	15.404	15.404	(0.993)	1514161	100.000	98.1	
* 91	1,4-Dichlorobenzene-D4	152	15.519	15.518	(1.000)	469150	50.0000		
92	1,4-Dichlorobenzene	146	15.547	15.547	(1.002)	1464567	100.000	93.4	
93	N-Butylbenzene	91	15.969	15.968	(1.029)	2587244	100.000	99.2	
94	sec-Butylbenzene	105	15.068	15.068	(0.971)	3288038	100.000	97.6	
95	1,2-Dichlorobenzene	146	16.219	16.219	(1.045)	1393533	100.000	99.8	
96	1,2-Dibromo-3-Chloropropane	75	17.570	17.570	(1.132)	159508	100.000	94.1	
97	1,3,5-Trichlorobenzene	180	17.627	17.627	(1.136)	1168428	100.000	100	
98	Hexachlorobutadiene	225	18.728	18.728	(1.207)	483802	100.000	93.0	
99	1,2,4-Trichlorobenzene	180	18.764	18.763	(1.209)	823159	100.000	101	
100	1,2,3-Trimethylbenzene	105	15.590	15.590	(1.005)	2528080	100.000	99.1	
101	Naphthalene	128	19.350	19.349	(1.247)	1908583	100.000	104	
102	1,2,3-Trichlorobenzene	180	19.686	19.685	(1.269)	626600	100.000	97.0	
103	Methyl Acetate	43	4.975	4.975	(0.618)	598898	100.000	101	
104	Methylcyclohexane	83	8.628	8.635	(1.072)	1019809	100.000	106	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Date : 26-NOV-2014 14:22
Client ID: Initial Calibration
Sample Info: WG154861-5
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.271)
-Vinyl chloride (2.331)
-Bromomethane (2.724)
-Chloroethane (2.881)
-Trichlorofluoromethane (3.053)
-Diethyl Ether (3.496)
-1,1-Dichloroethene (3.753)+
-Iodomethane (3.961)
-Acrolein (4.275)
-Allyl Chloride (4.475)
-Methylene Chloride (4.654)
-Acetone (4.761)
-trans-1,2-Dichloroethene (4.919)+
-Methyl tert-butyl ether (5.133)
-Tertiary-butyl alcohol (5.362)
-Acetonitrile (5.548)
-Di-isopropyl ether (5.791)
-Acrylonitrile (6.048)
-Ethyl tertiary-butyl ethe (6.362)+
-cis-1,2-Dichloroethene (6.763)
-2,2-Dichloropropane (6.906)
-Bromochloromethane (7.027)+
-Chloroform (7.156)
-Carbon tetrachloride (7.320)+
-1,1,1-Trichloroethane (7.420)
-2-Butanone (7.585)
-Propionitrile (7.914)+
-Isobutyl Alcohol (8.264)+
-Trichloroethene (8.643)+
-Dibromomethane (9.164)
-Methyl Methacrylate (9.572)+
-2-Chloroethylvinylether (10.051)
-Ethyl Methacrylate (11.059)+
1,1-Dichloropropene (10.830)+
-Dibromochloromethane (11.273)
-1,2-Dibromoethane (11.552)
-2-Hexanone (11.838)
-Chlorobenzene-D5 (12.188)+
m+p-Xylenes (12.438)
-Isopropylbenzene (13.439)
-P-Bromofluorobenzene (13.839)
-1,1,2,2-Tetrachloroethane (14.139)
-2-Chlorotoluene (14.254)
-4-Chlorotoluene (14.504)
-1,3,5-Trimethylbenzene (14.325)+
-1,2,4-Trimethylbenzene (14.904)
-sec-Butylbenzene (15.069)
-P-Isopropyltoluene (15.297)
-1,4-Dichlorobenzene-D4 (15.540)+
-N-Butylbenzene (15.969)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.220)
-1,3,5-Trichlorobenzene (17.628)
-Hexachlorobutadiene (18.728)+
-Naphthalene (19.350)
-1,2,3-Trichlorobenzene (19.686)
-Xylenes (total) (21.380)
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Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0223.D
Report Date: 01-Dec-2014 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0223.D
Lab Smp Id: WG154861-4 Client Smp ID: Initial Calibration
Inj Date : 26-NOV-2014 14:53 MS Autotune Date: 03-APR-2014 08:54
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-4
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C112614.b\C826A26.m
Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.986	1.994	(0.247)	334916	50.0000	48.9	
2 Chloromethane	50	2.236	2.230	(0.278)	441595	50.0000	51.1	
3 Vinyl chloride	62	2.329	2.330	(0.290)	356899	50.0000	48.4	
4 Bromomethane	94	2.729	2.730	(0.339)	156928	50.0000	49.6	
5 Chloroethane	64	2.879	2.880	(0.358)	150237	50.0000	48.4	
6 Trichlorofluoromethane	101	3.051	3.059	(0.379)	542251	50.0000	44.2	
7 Diethyl Ether	59	3.494	3.488	(0.435)	260074	50.0000	47.4	
8 Tertiary-butyl alcohol	59	5.360	5.347	(0.667)	153134	250.000	247	
9 1,1-Dichloroethene	96	3.751	3.753	(0.467)	232777	50.0000	47.7	
10 Carbon Disulfide	76	3.787	3.788	(0.471)	724568	50.0000	48.8	
11 Freon-113	151	3.816	3.817	(0.475)	163598	50.0000	45.8	
12 Iodomethane	142	3.959	3.967	(0.492)	132904	50.0000	44.9	
13 Acrolein	56	4.273	4.274	(0.531)	318007	250.000	251	
14 Methylene Chloride	84	4.652	4.653	(0.579)	302119	50.0000	49.1	
15 Acetone	43	4.752	4.753	(0.591)	648279	250.000	253	
16 Isobutyl Alcohol	43	8.255	8.256	(1.027)	329186	1000.00	957	
17 trans-1,2-Dichloroethene	96	4.916	4.925	(0.612)	263272	50.0000	46.5	
18 Allyl Chloride	41	4.473	4.482	(0.556)	497641	50.0000	52.2	
19 Methyl tert-butyl ether	73	5.131	5.132	(0.638)	1384684	100.000	104	
20 Acetonitrile	39	5.545	5.540	(0.690)	125989	500.000	476	
21 Di-isopropyl ether	45	5.789	5.790	(0.720)	998907	50.0000	52.4	
22 Chloroprene	53	5.910	5.918	(0.735)	477005	50.0000	52.1	
23 Propionitrile	54	7.969	7.970	(0.991)	627153	500.000	490	
24 Methacrylonitrile	41	7.990	7.991	(0.994)	2226928	500.000	484	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0223.D
Report Date: 01-Dec-2014 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.953	5.954	(0.740)	516396	50.0000	48.9	
	26 Acrylonitrile	52	6.046	6.047	(0.752)	673348	250.000	248	
	27 Ethyl tertiary-butyl ether	59	6.353	6.354	(0.790)	844962	50.0000	54.8	
	28 Vinyl Acetate	43	6.375	6.376	(0.732)	776364	50.0000	55.1	
	29 cis-1,2-Dichloroethene	96	6.761	6.762	(0.841)	304063	50.0000	47.9	
	31 Methyl Methacrylate	41	9.570	9.571	(1.099)	312563	50.0000	49.2	
	32 2,2-Dichloropropane	77	6.911	6.912	(0.860)	382477	50.0000	50.7	
	33 Bromochloromethane	128	7.039	7.041	(0.876)	129438	50.0000	45.3	
	34 Chloroform	83	7.161	7.162	(0.891)	509885	50.0000	47.7	
	35 Carbon Tetrachloride	117	7.318	7.319	(0.841)	363527	50.0000	51.7	
	36 Tetrahydrofuran	42	7.361	7.362	(0.916)	578777	250.000	260	
$	37 Dibromofluoromethane	113	7.404	7.405	(0.921)	286961	50.0000	50.6	
	38 1,1,1-Trichloroethane	97	7.418	7.419	(0.923)	446439	50.0000	49.4	
	39 1,1-Dichloropropene	75	10.871	10.872	(1.249)	411885	50.0000	53.0	
	40 2-Butanone	43	7.583	7.584	(0.943)	947439	250.000	266	
	41 Benzene	78	7.911	7.913	(0.909)	1129992	50.0000	50.8	
*	42 Pentafluorobenzene	168	8.040	8.041	(1.000)	520134	50.0000		
	43 Cyclohexane	56	7.025	7.026	(0.874)	467770	50.0000	50.3	
	44 Ethyl Methacrylate	69	11.064	11.058	(1.271)	394596	50.0000	48.2	
$	45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	333300	50.0000	46.3	
	46 Tertiary-amyl methyl ether	73	8.083	8.084	(1.005)	689818	50.0000	52.9	
	47 1,2-Dichloroethane	62	8.176	8.177	(0.939)	383558	50.0000	47.6	
	48 Trichloroethene	95	8.655	8.656	(0.994)	285552	50.0000	50.0	
*	49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	828322	50.0000		
	50 Dibromomethane	93	9.170	9.164	(1.053)	182453	50.0000	48.1	
	51 1,2-Dichloropropane	63	9.284	9.285	(1.067)	288019	50.0000	51.1	
	52 Bromodichloromethane	83	9.370	9.371	(1.076)	400138	50.0000	52.4	
	53 cis-1,3-dichloropropene	75	10.113	10.114	(1.162)	486352	50.0000	54.8	
	54 1,4-Dioxane	88	9.613	9.614	(1.104)	127050	1000.00	1160	
$	55 Toluene-D8	98	10.320	10.322	(1.186)	1024973	50.0000	53.7	
	56 2-Chloroethylvinylether	63	10.049	10.050	(1.154)	200257	50.0000	50.7	
	57 Toluene	92	10.378	10.379	(1.192)	723142	50.0000	51.9	
	58 4-methyl-2-pentanone	43	10.828	10.829	(1.244)	1700805	250.000	266	
	59 Tetrachloroethene	164	10.821	10.822	(0.887)	262663	50.0000	50.5	
	60 trans-1,3-Dichloropropene	75	10.871	10.872	(1.249)	411885	50.0000	53.0	
	61 1,1,2-Trichloroethane	83	11.057	11.058	(1.270)	228506	50.0000	49.8	
	62 Dibromochloromethane	129	11.271	11.272	(0.924)	314494	50.0000	54.7	
	63 1,3-Dichloropropane	76	11.385	11.387	(0.934)	473373	50.0000	52.0	
	64 1,2-Dibromoethane	107	11.557	11.551	(1.328)	293478	50.0000	51.5	
	65 2-Hexanone	43	11.836	11.837	(0.971)	1313827	250.000	271	
*	66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	837594	50.0000		
	67 Chlorobenzene	112	12.215	12.216	(1.002)	852351	50.0000	49.8	
	152 1-Chlorohexane	91	12.186	12.187	(0.999)	469664	50.0000	50.0	
	68 Ethylbenzene	106	12.250	12.251	(1.005)	451030	50.0000	50.8	
	69 1,1,1,2-Tetrachloroethane	131	12.300	12.294	(1.009)	299653	50.0000	53.0	
	71 m+p-Xylenes	106	12.436	12.437	(1.020)	1157818	100.000	106	
	72 o-Xylene	106	13.008	13.009	(1.067)	586851	50.0000	54.8	
	73 Styrene	104	13.079	13.081	(1.073)	917510	50.0000	56.4	
	74 Bromoform	173	13.115	13.116	(1.076)	219440	50.0000	49.2	
	75 Isopropylbenzene	105	13.437	13.438	(0.866)	1481543	50.0000	52.6	
$	76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	440076	50.0000	53.5	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.938	(0.898)	163761	50.0000	51.9	
	78 trans-1,4-Dichloro-2-Butene	53	14.402	14.403	(0.928)	132477	50.0000	50.9	
	79 Bromobenzene	156	13.987	13.988	(0.901)	381136	50.0000	50.2	

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Report Date: 01-Dec-2014 07:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80 N-Propylbenzene	91	14.030	14.031	(0.904)	1813817	50.0000	51.4	
81 1,1,2,2-Tetrachloroethane	83	14.137	14.139	(0.911)	441026	50.0000	49.3	
82 1,3,5-Trimethylbenzene	105	14.323	14.317	(0.923)	1302789	50.0000	53.3	
83 2-Chlorotoluene	91	14.259	14.253	(0.919)	1121487	50.0000	51.5	
84 1,2,3-Trichloropropane	75	14.338	14.332	(0.924)	354316	50.0000	50.0	
85 4-Chlorotoluene	91	14.502	14.503	(0.935)	1158730	50.0000	51.3	
86 tert-Butylbenzene	119	14.795	14.796	(0.953)	1376373	50.0000	53.0	
87 Pentachloroethane	117	14.824	14.825	(0.955)	301315	50.0000	52.0	
88 1,2,4-Trimethylbenzene	105	14.902	14.903	(0.960)	1271287	50.0000	53.4	
89 P-Isopropyltoluene	119	15.295	15.297	(0.986)	1436989	50.0000	54.1	
90 1,3-Dichlorobenzene	146	15.403	15.404	(0.993)	763479	50.0000	49.3	
* 91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	470887	50.0000		
92 1,4-Dichlorobenzene	146	15.546	15.547	(1.002)	744790	50.0000	47.3	
93 N-Butylbenzene	91	15.967	15.968	(1.029)	1381691	50.0000	52.8	
94 sec-Butylbenzene	105	15.067	15.068	(0.971)	1752912	50.0000	51.9	
95 1,2-Dichlorobenzene	146	16.217	16.219	(1.045)	704154	50.0000	50.3	
96 1,2-Dibromo-3-Chloropropane	75	17.568	17.570	(1.132)	77856	50.0000	47.0	
97 1,3,5-Trichlorobenzene	180	17.626	17.627	(1.136)	590106	50.0000	50.6	
98 Hexachlorobutadiene	225	18.726	18.728	(1.207)	236792	50.0000	45.3	
99 1,2,4-Trichlorobenzene	180	18.762	18.763	(1.209)	421031	50.0000	51.5	
100 1,2,3-Trimethylbenzene	105	15.588	15.590	(1.005)	1324244	50.0000	51.7	
101 Naphthalene	128	19.355	19.349	(1.247)	1032041	50.0000	55.5	
102 1,2,3-Trichlorobenzene	180	19.684	19.685	(1.269)	334045	50.0000	51.5	
103 Methyl Acetate	43	4.981	4.975	(0.620)	296659	50.0000	47.6	
104 Methylcyclohexane	83	8.633	8.635	(1.074)	528005	50.0000	52.4	

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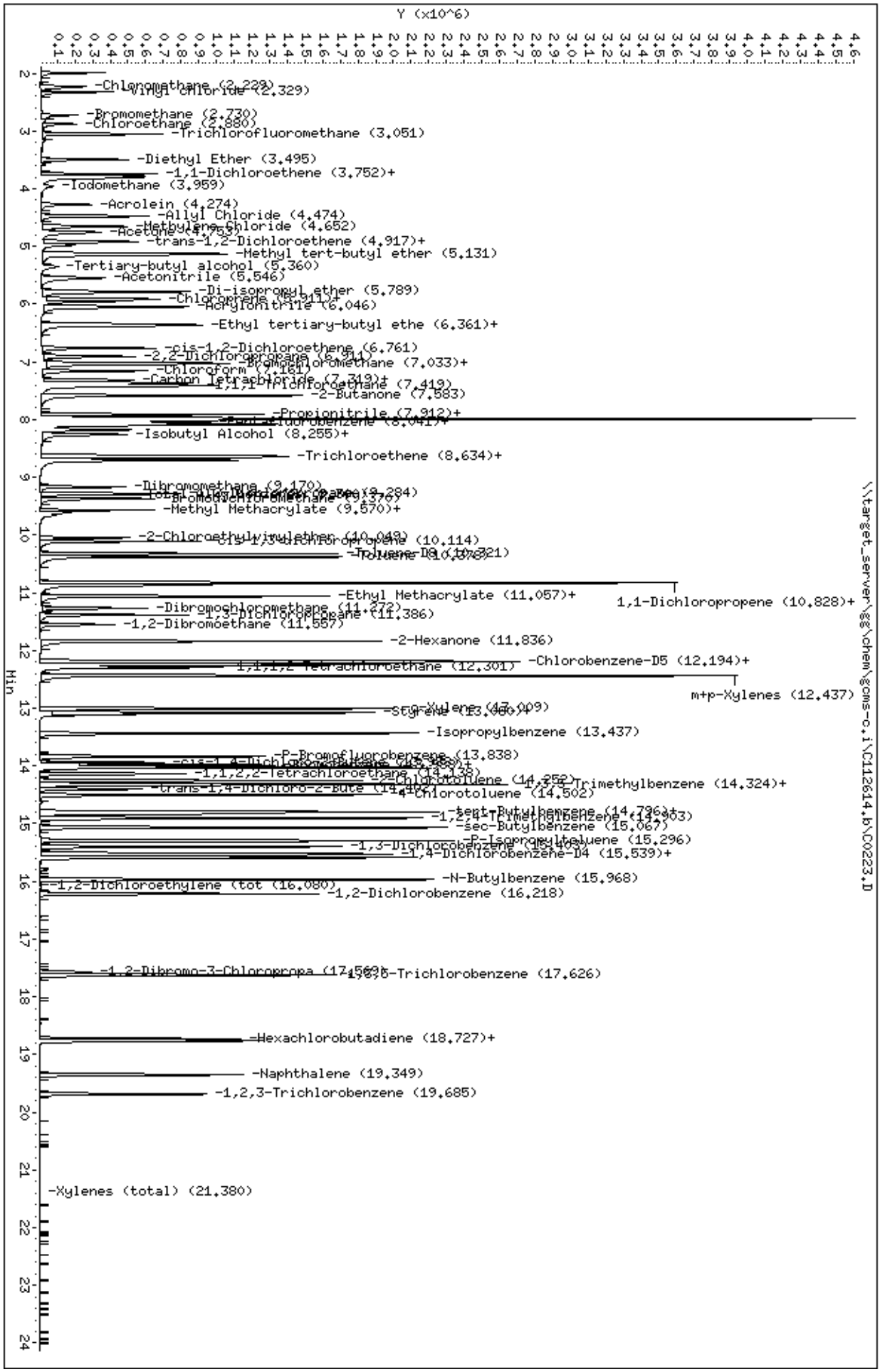
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18



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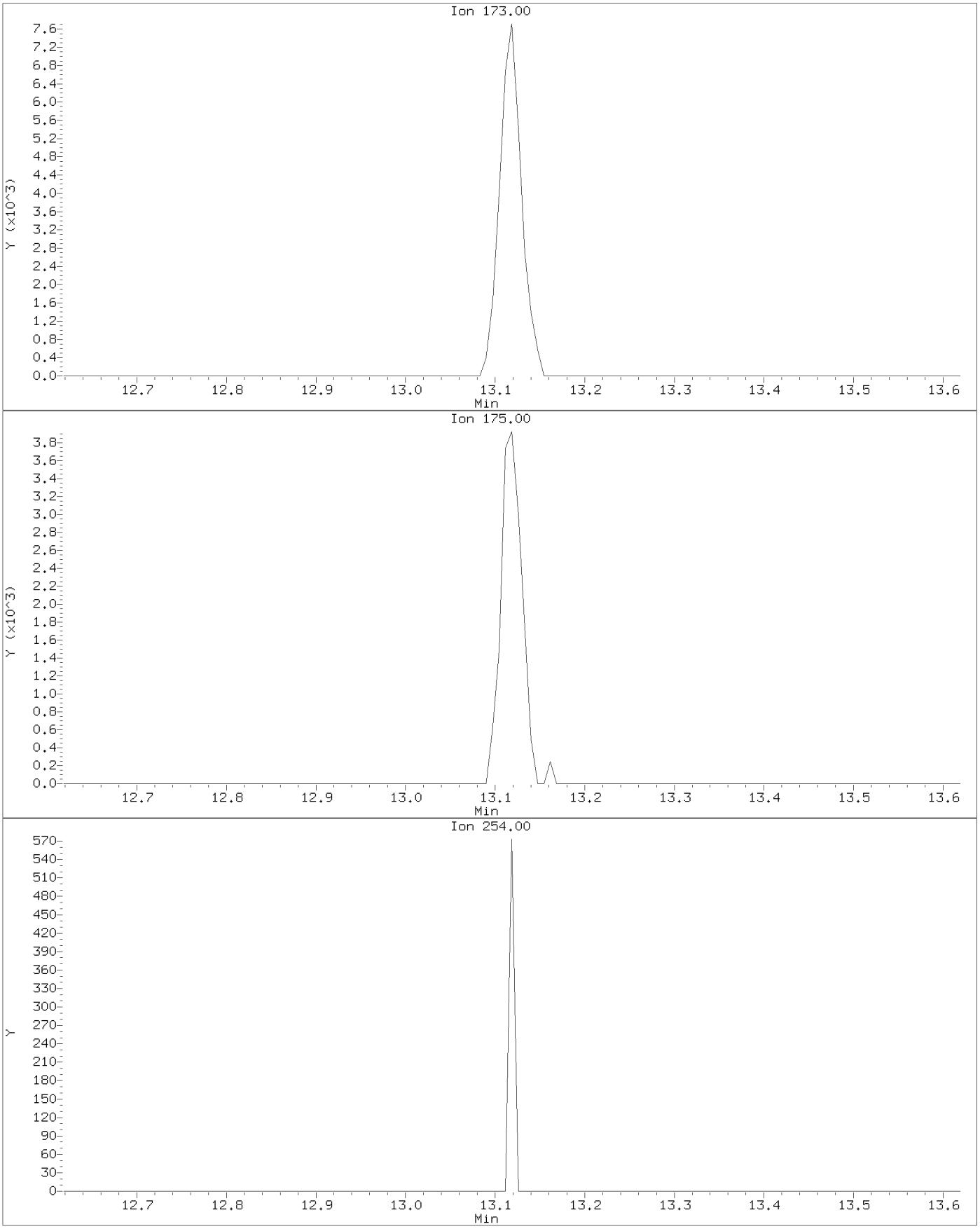
Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: Bromoform
CAS Number: 75-25-2

BEFORE MANUAL INTEGRATION



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Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: Bromoform
CAS Number: 75-25-2

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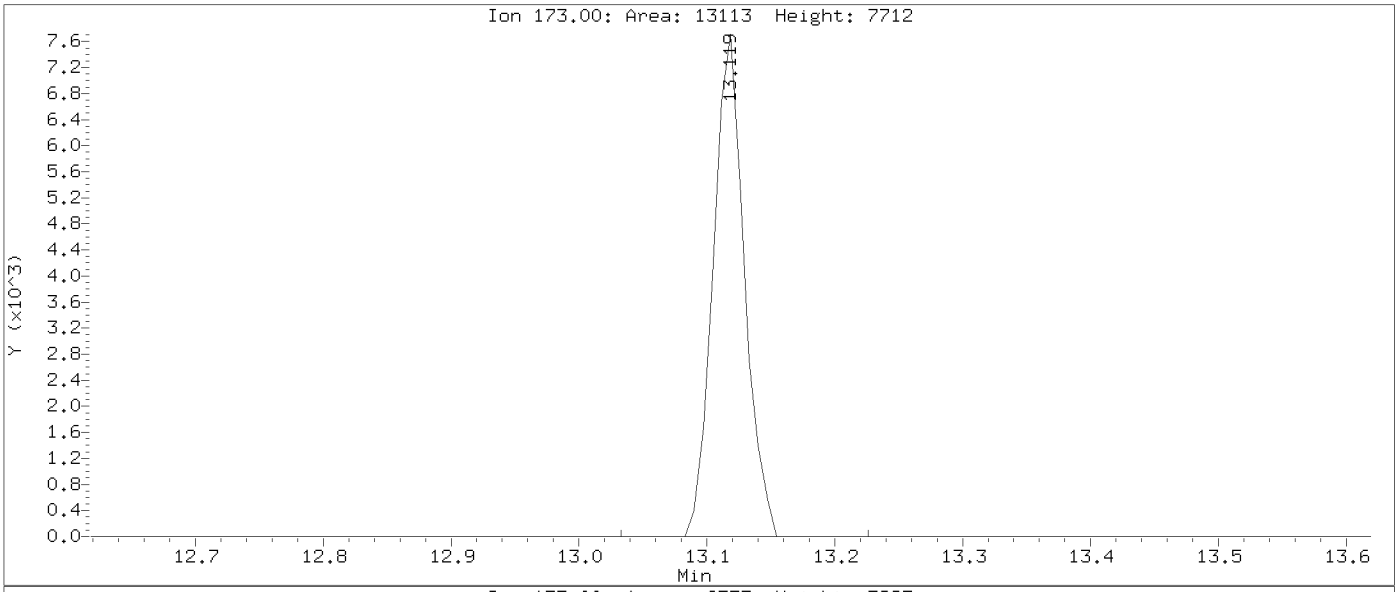

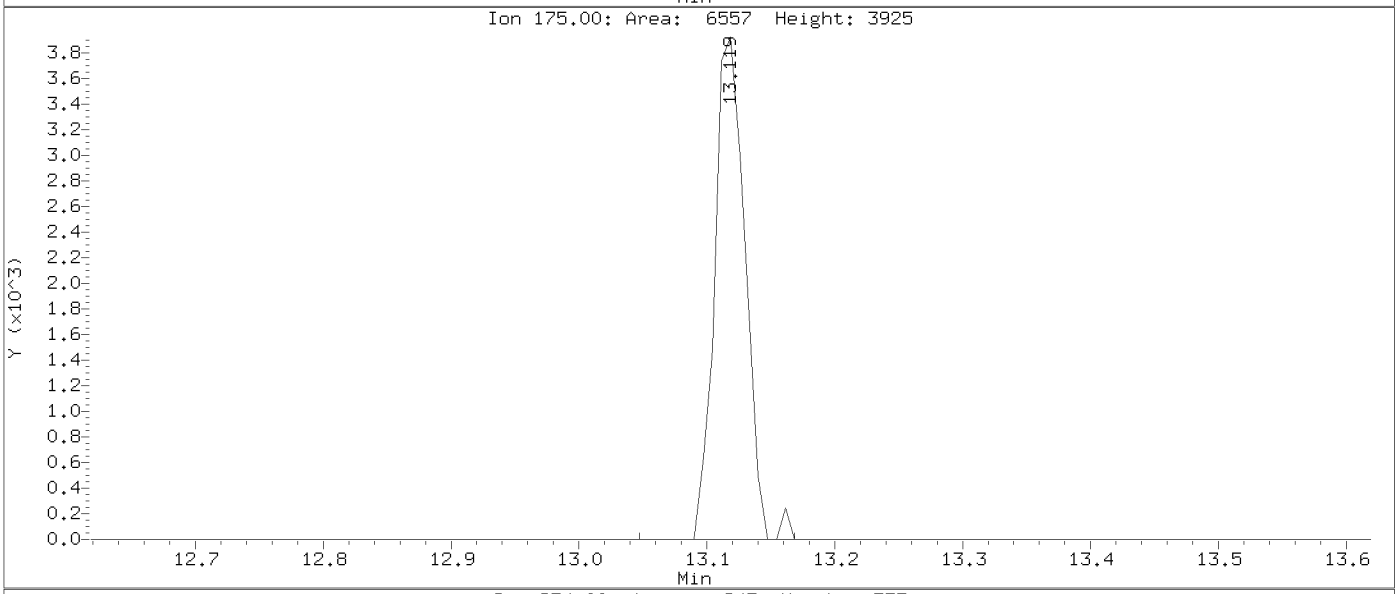

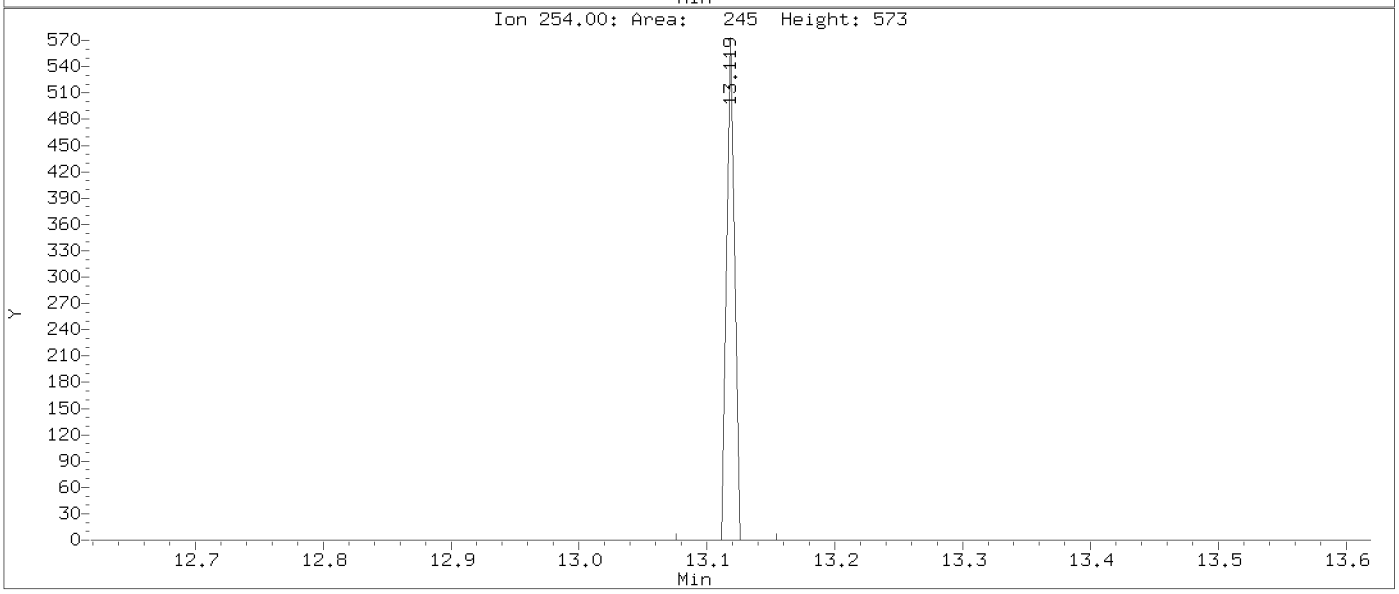

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Instrument: gcms-c.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

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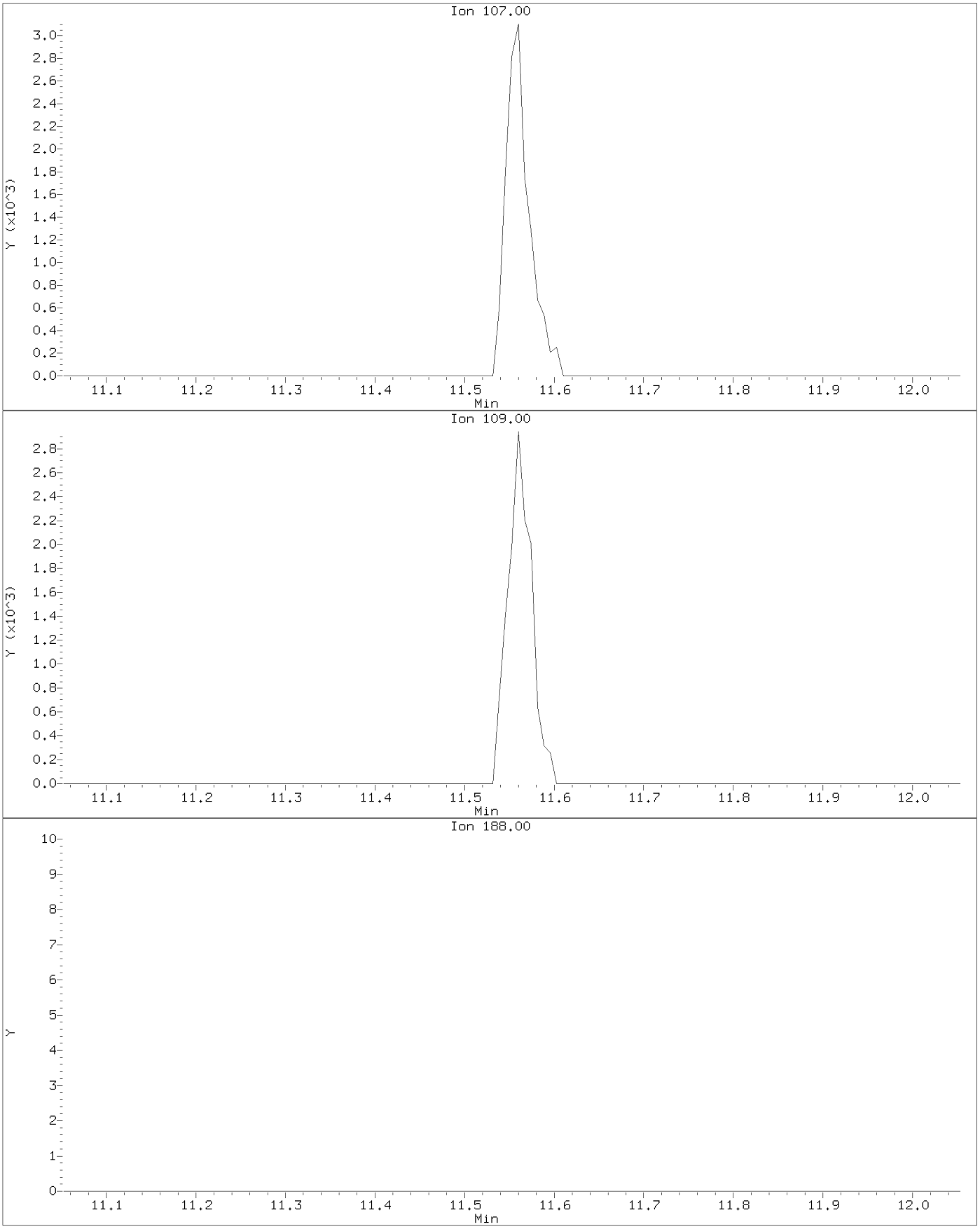

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Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

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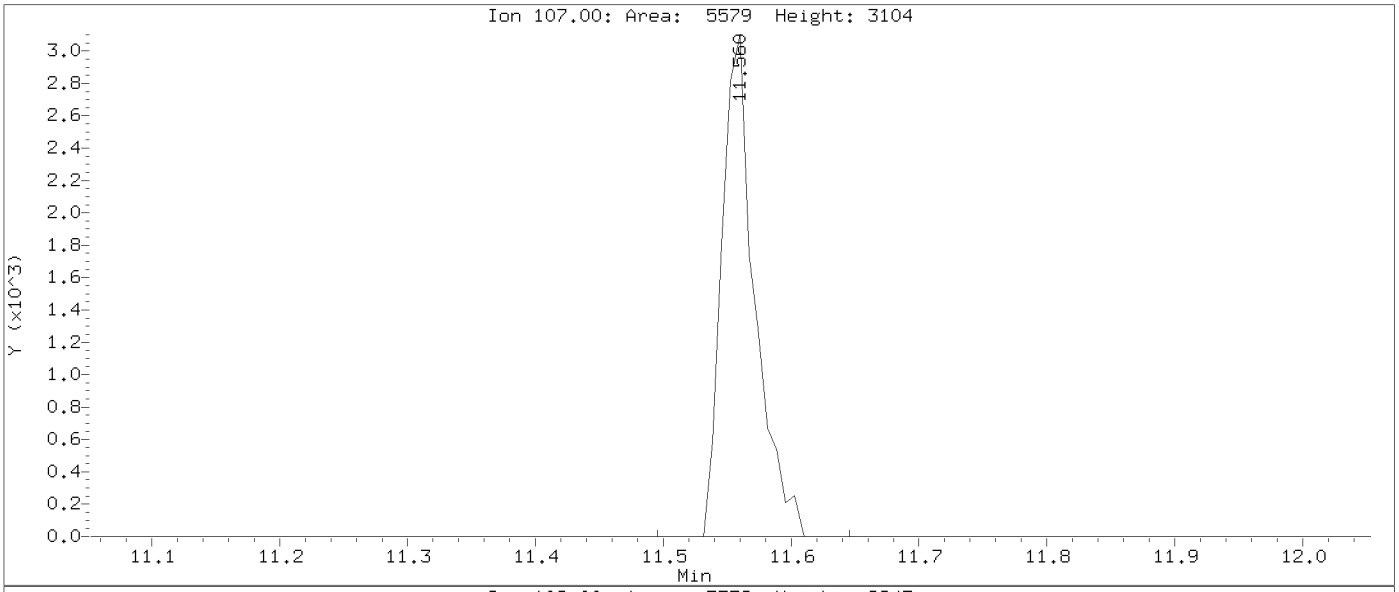

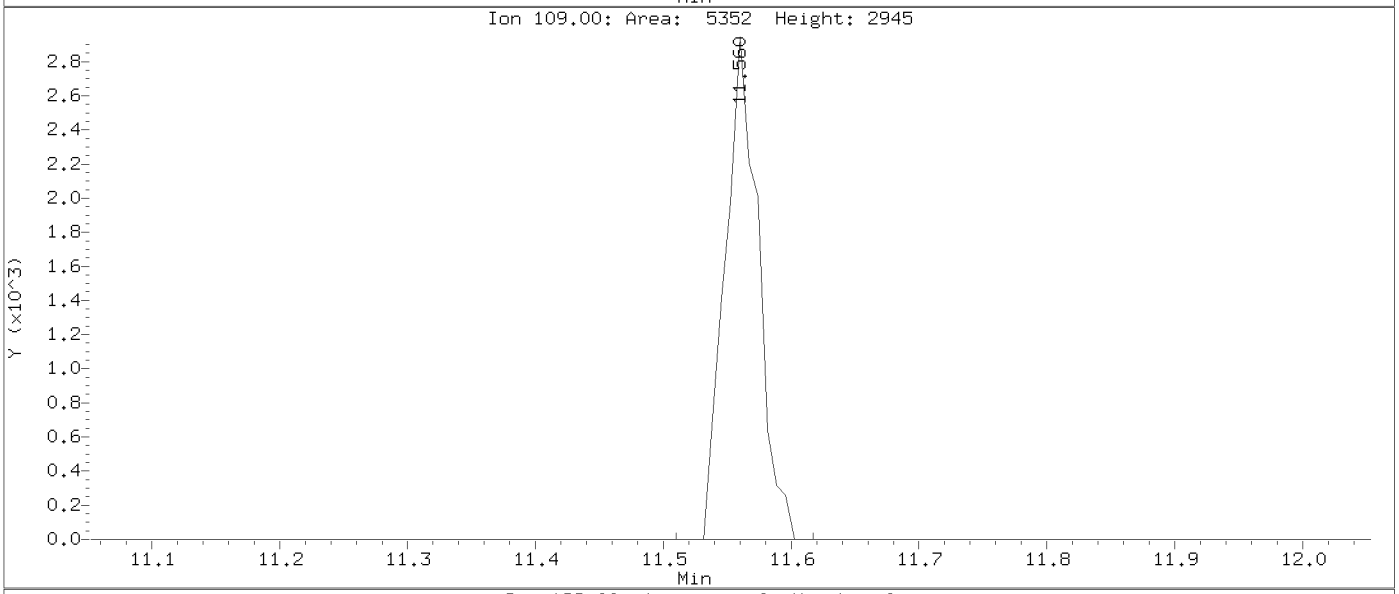

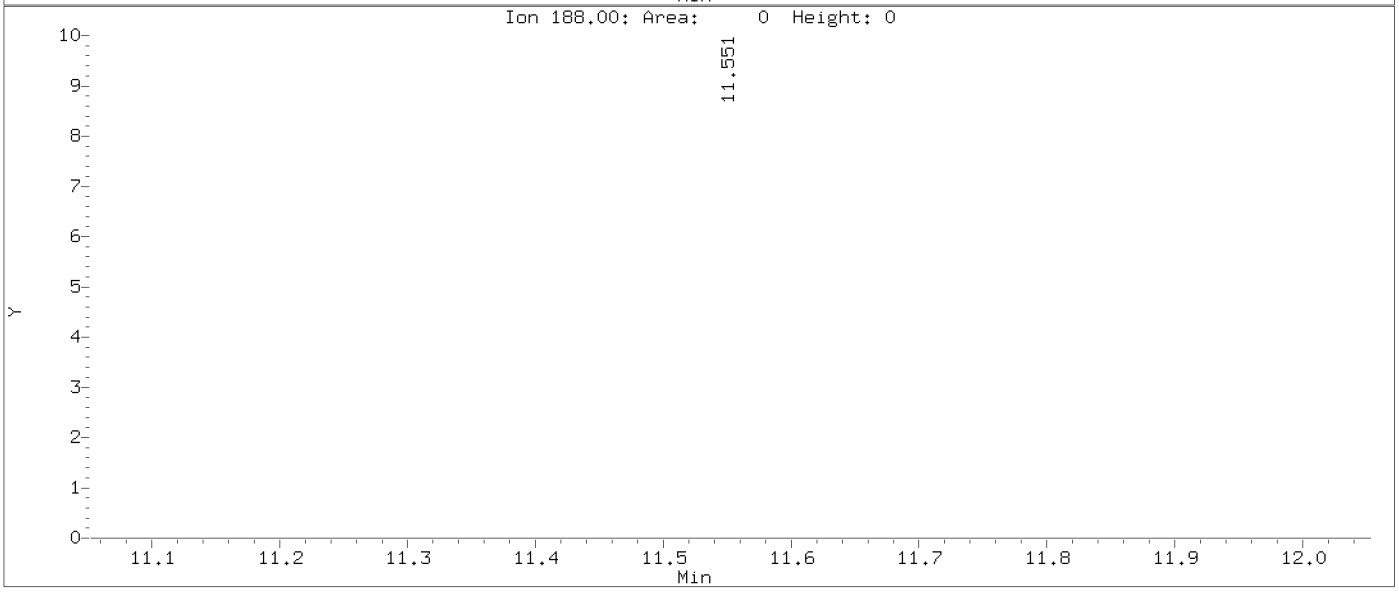

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Instrument: gcms-c.i
Client Sample ID:

Compound: Methyl Acetate
CAS Number: 79-20-9

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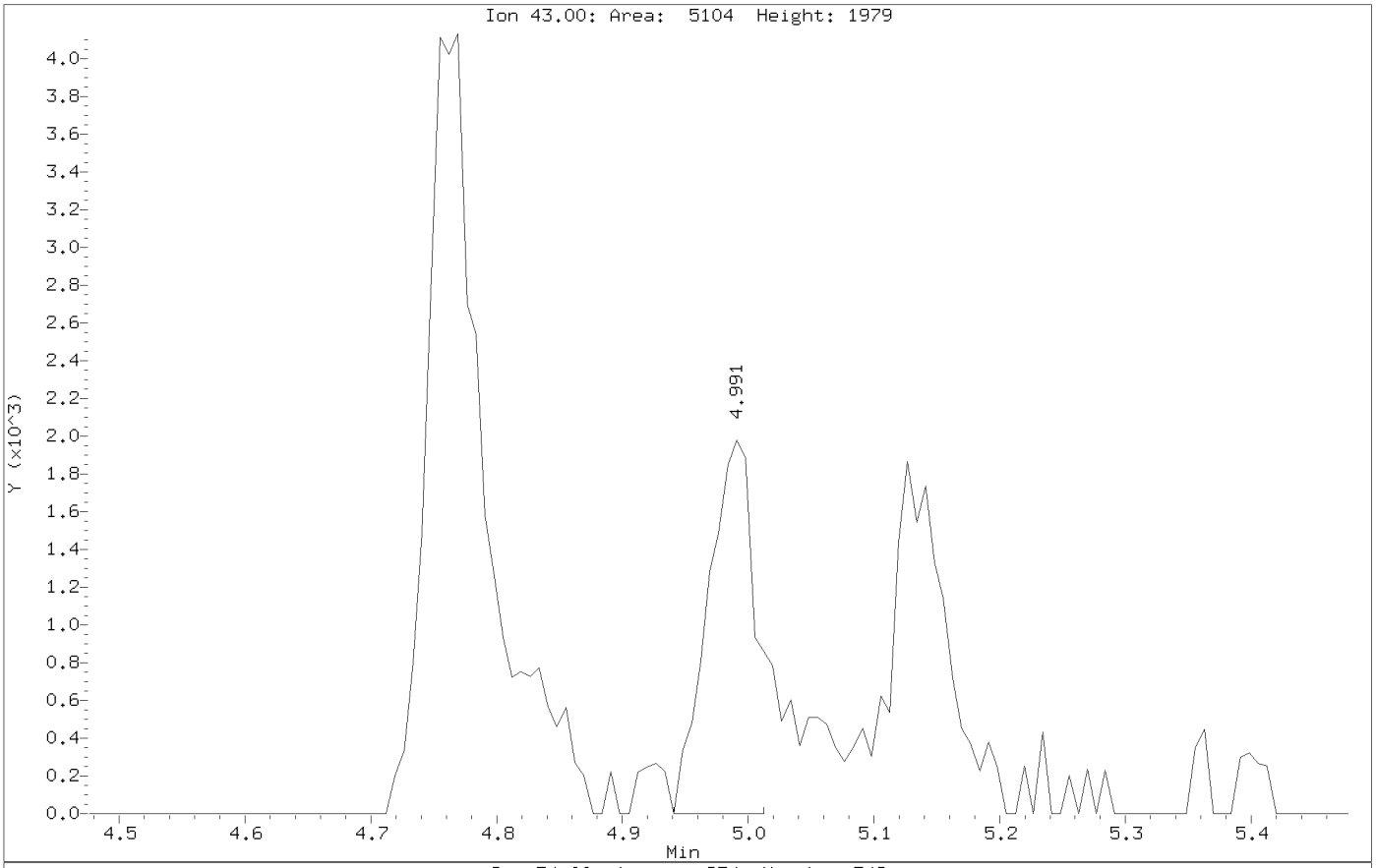

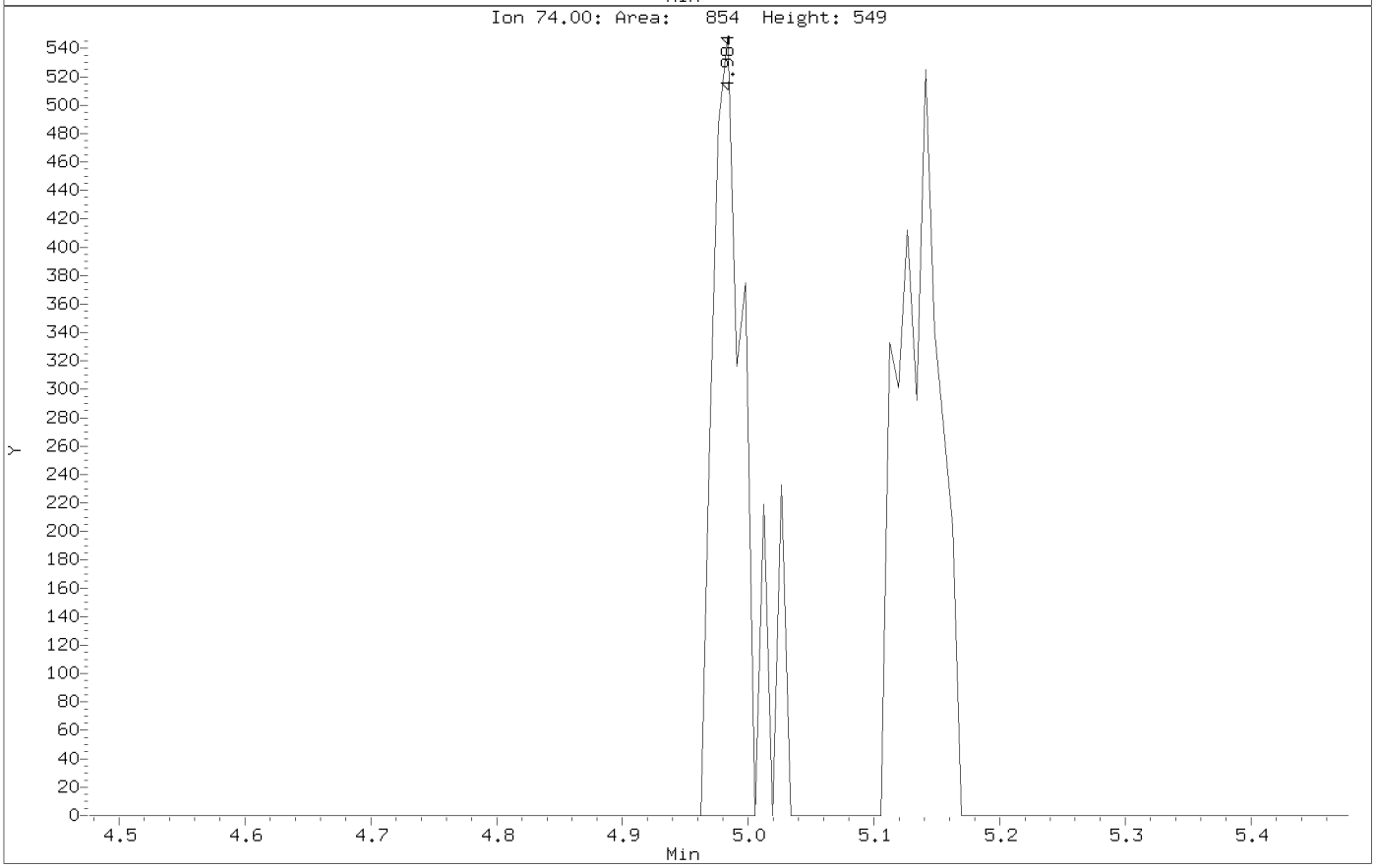

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Instrument: gcms-c.i
Client Sample ID:

Compound: Methyl Acetate
CAS Number: 79-20-9

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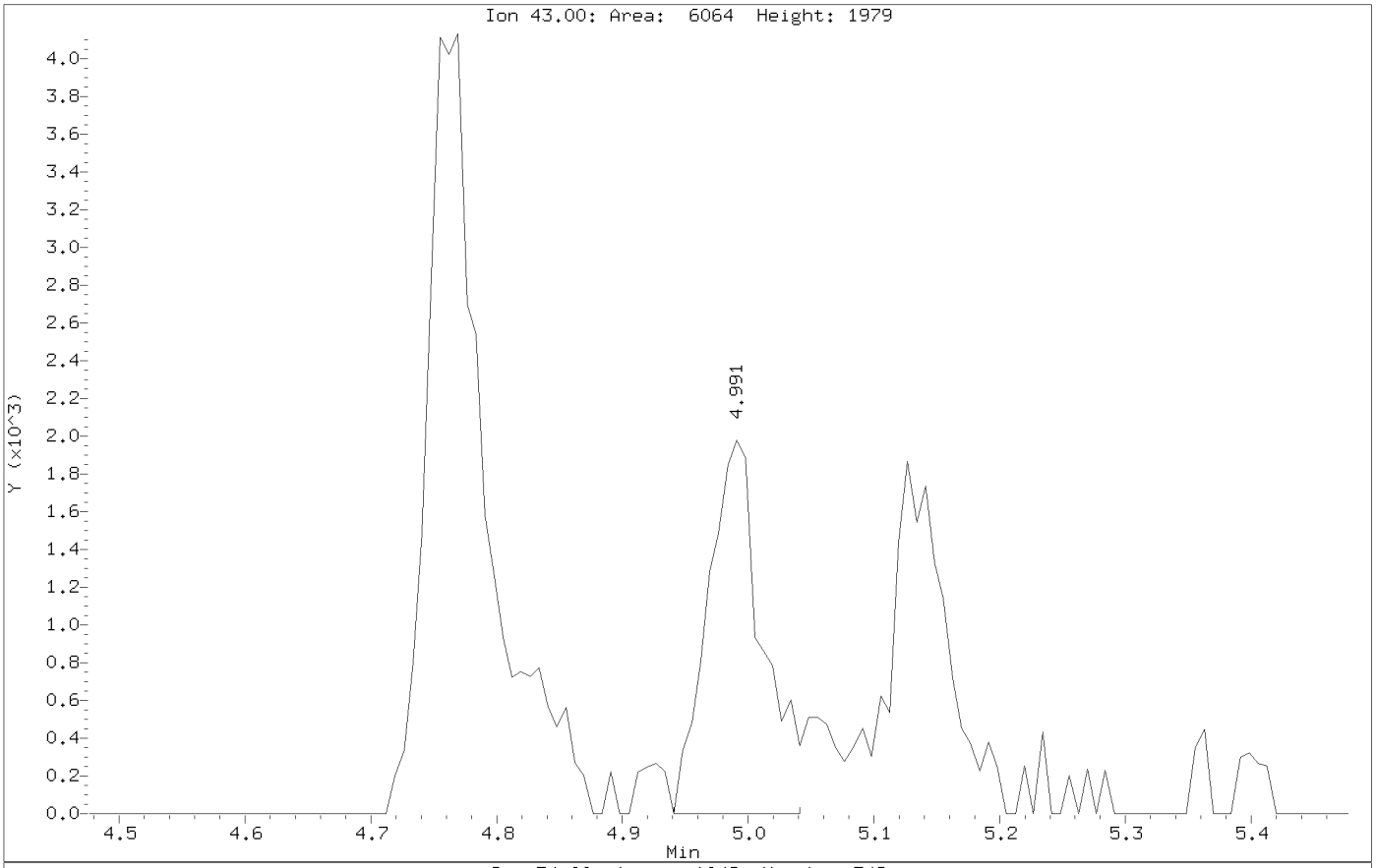

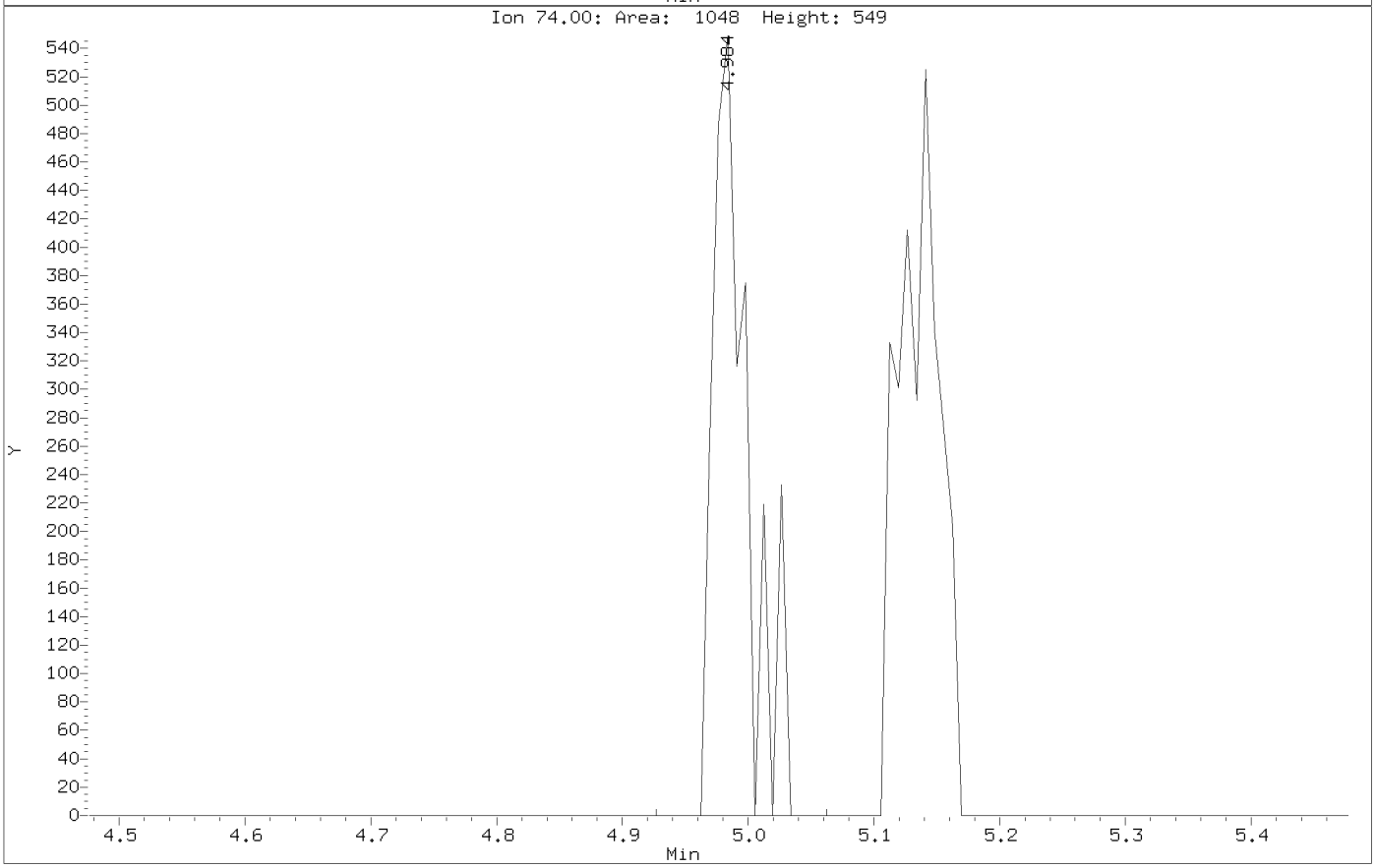

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Report Date: 03-Dec-2014 09:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
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Inj Date : 26-NOV-2014 15:57 MS Autotune Date: 03-APR-2014 08:54
Operator : DJP Inst ID: gcms-c.i
Smp Info : WG154861-7,TH0145
Misc Info : WG154861,WG154861-4,TH0145-1
Comment : SW846 5030
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Meth Date : 01-Dec-2014 07:52 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260APPIX-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.989	1.994	(0.247)	415465	57.9945	58.0	
2 Chloromethane	50	2.232	2.230	(0.278)	479336	53.1712	53.2	
3 Vinyl chloride	62	2.325	2.330	(0.289)	403578	52.3421	52.3	
4 Bromomethane	94	2.725	2.730	(0.339)	165165	49.9524	50.0	
5 Chloroethane	64	2.882	2.880	(0.358)	143702	43.9800	44.0	
6 Trichlorofluoromethane	101	3.054	3.059	(0.380)	562059	43.8032	43.8	
7 Diethyl Ether	59	3.497	3.488	(0.435)	263661	45.9582	46.0	
8 Tertiary-butyl alcohol	59	5.355	5.347	(0.666)	145268	225.856	226	
9 1,1-Dichloroethene	96	3.747	3.753	(0.466)	256308	50.2673	50.3	
10 Carbon Disulfide	76	3.783	3.788	(0.470)	976465	63.1586	63.2(R)	
11 Freon-113	151	3.811	3.817	(0.474)	172329	46.1836	46.2	
12 Iodomethane	142	3.954	3.967	(0.492)	171537	55.4657	55.5	
13 Acrolein	56	4.276	4.274	(0.532)	323564	244.723	245	
14 Methylene Chloride	84	4.655	4.653	(0.579)	327924	50.9846	51.0	
15 Acetone	43	4.762	4.753	(0.592)	138144	51.5798	51.6	
16 Isobutyl Alcohol	43	8.257	8.256	(1.027)	317501	887.143	887	
17 trans-1,2-Dichloroethene	96	4.919	4.925	(0.612)	283074	47.8233	47.8	
18 Allyl Chloride	41	4.476	4.482	(0.557)	482589	48.4370	48.4	
19 Methyl tert-butyl ether	73	5.134	5.132	(0.638)	1507025	108.282	108	
20 Acetonitrile	39	5.548	5.540	(0.690)	132867	479.947	480	
21 Di-isopropyl ether	45	5.791	5.790	(0.720)	1016697	51.0252	51.0	
22 Chloroprene	53	5.913	5.918	(0.735)	484669	50.6077	50.6	
23 Propionitrile	54	7.972	7.970	(0.991)	615837	460.172	460	
24 Methacrylonitrile	41	7.993	7.991	(0.994)	2253241	465.507	466	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

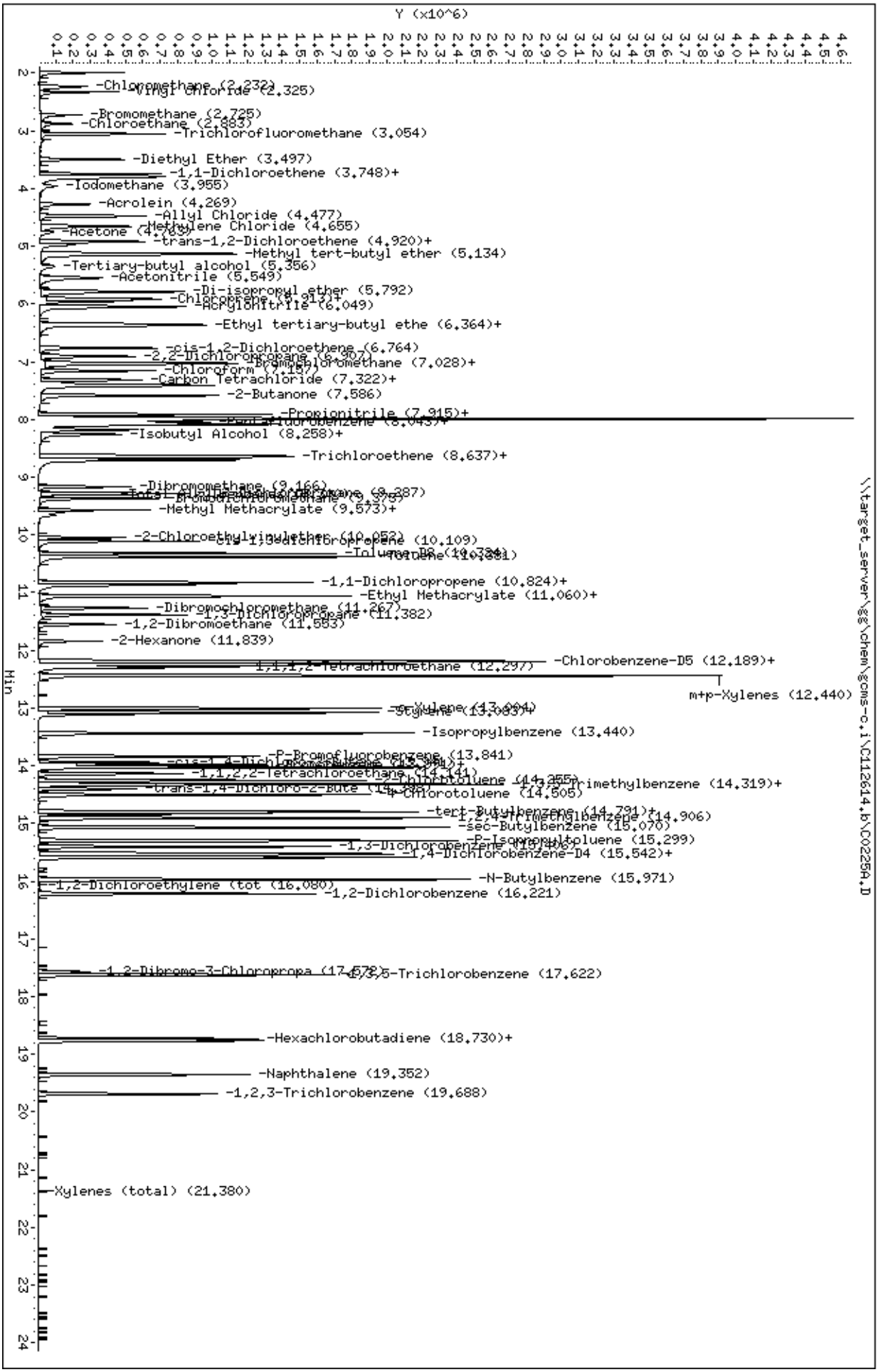
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.949	5.954	(0.740)	568514	51.5366	51.5	
	26	Acrylonitrile	52	6.049	6.047	(0.752)	670522	236.194	236	
	27	Ethyl tertiary-butyl ether	59	6.356	6.354	(0.790)	843128	52.2991	52.3	
	28	Vinyl Acetate	43	6.378	6.376	(0.732)	830962	56.6485	56.6	
	29	cis-1,2-Dichloroethene	96	6.763	6.762	(0.841)	324027	48.8052	48.8	
M	30	1,2-Dichloroethylene (total)	96				607101	96.6286	96.6	
	31	Methyl Methacrylate	41	9.573	9.571	(1.099)	310619	47.0808	47.1	
	32	2,2-Dichloropropane	77	6.906	6.912	(0.859)	394737	50.0850	50.1	
	33	Bromochloromethane	128	7.042	7.041	(0.876)	136036	45.5215	45.5	
	34	Chloroform	83	7.157	7.162	(0.890)	543909	48.6414	48.6	
	35	Carbon Tetrachloride	117	7.321	7.319	(0.841)	405446	55.3962	55.4	
	36	Tetrahydrofuran	42	7.371	7.362	(0.916)	113554	48.7436	48.7	
$	37	Dibromofluoromethane	113	7.407	7.405	(0.921)	280231	47.2224	47.2	
	38	1,1,1-Trichloroethane	97	7.414	7.419	(0.922)	474002	50.1426	50.1	
	39	1,1-Dichloropropene	75	10.866	10.872	(1.248)	441875	54.6416	54.6	
	40	2-Butanone	43	7.586	7.584	(0.943)	187089	50.3414	50.3	
	41	Benzene	78	7.914	7.913	(0.909)	1198167	51.7986	51.8	
*	42	Pentafluorobenzene	168	8.043	8.041	(1.000)	543804	50.0000		
	43	Cyclohexane	56	7.028	7.026	(0.874)	502456	51.7230	51.7	
	44	Ethyl Methacrylate	69	11.059	11.058	(1.270)	405882	47.6626	47.7	
$	45	1,2-Dichloroethane-D4	65	8.093	8.090	(1.006)	334917	44.5188	44.5	
	46	Tertiary-amyl methyl ether	73	8.086	8.084	(1.005)	719562	52.7900	52.8	
	47	1,2-Dichloroethane	62	8.179	8.177	(0.939)	407530	48.5634	48.6	
	48	Trichloroethene	95	8.651	8.656	(0.993)	298373	50.1761	50.2	
*	49	1,4-Difluorobenzene	114	8.708	8.706	(1.000)	862273	50.0000		
	50	Dibromomethane	93	9.165	9.164	(1.053)	192435	48.7342	48.7	
	51	1,2-Dichloropropane	63	9.287	9.285	(1.066)	306799	52.3106	52.3	
	52	Bromodichloromethane	83	9.373	9.371	(1.076)	430970	54.2154	54.2	
	53	cis-1,3-dichloropropene	75	10.109	10.114	(1.161)	480993	52.0515	52.0	
	54	1,4-Dioxane	88	9.616	9.614	(1.104)	109846	967.642	968	
$	55	Toluene-D8	98	10.323	10.322	(1.186)	1034200	52.0797	52.1	
	56	2-Chloroethylvinylether	63	10.052	10.050	(1.154)	193795	47.2070	47.2	
	57	Toluene	92	10.380	10.379	(1.192)	763282	52.6403	52.6	
	58	4-methyl-2-pentanone	43	10.831	10.829	(1.244)	358766	50.6145	50.6	
	59	Tetrachloroethene	164	10.824	10.822	(0.888)	272193	50.7929	50.8	
	60	trans-1,3-Dichloropropene	75	10.866	10.872	(1.248)	441875	54.6416	54.6	
	61	1,1,2-Trichloroethane	83	11.059	11.058	(1.270)	240698	50.4205	50.4	
	62	Dibromochloromethane	129	11.267	11.272	(0.924)	328760	55.5274	55.5	
	63	1,3-Dichloropropane	76	11.381	11.387	(0.934)	508122	54.1706	54.2	
	64	1,2-Dibromoethane	107	11.553	11.551	(1.327)	309252	52.1219	52.1	
	65	2-Hexanone	43	11.839	11.837	(0.971)	263372	48.8716	48.9	
*	66	Chlorobenzene-D5	117	12.189	12.194	(1.000)	862738	50.0000		
	67	Chlorobenzene	112	12.210	12.216	(1.002)	869167	49.2961	49.3	
	152	1-Chlorohexane	91	12.182	12.187	(0.999)	492501	50.9527	51.0	
	68	Ethylbenzene	106	12.246	12.251	(1.005)	475481	51.9972	52.0	
	69	1,1,1,2-Tetrachloroethane	131	12.296	12.294	(1.009)	315094	54.0792	54.1	
M	70	Xylenes (total)	106				1777937	159.129	159	
	71	m+p-Xylenes	106	12.439	12.437	(1.021)	1192115	106.049	106	
	72	o-Xylene	106	13.004	13.009	(1.067)	585822	53.0805	53.1	
	73	Styrene	104	13.082	13.081	(1.073)	965679	57.6448	57.6	
	74	Bromoform	173	13.118	13.116	(1.076)	225392	49.0174	49.0	
	75	Isopropylbenzene	105	13.440	13.438	(0.866)	1515555	51.9014	51.9	
$	76	P-Bromofluorobenzene	95	13.840	13.838	(1.589)	440366	51.3931	51.4	
	77	cis-1,4-Dichloro-2-Butene	53	13.940	13.938	(0.898)	156696	47.9089	47.9	

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Report Date: 03-Dec-2014 09:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.398	14.403	(0.928)	127109	47.0813	47.1	
	79 Bromobenzene	156	13.990	13.988	(0.901)	400174	50.7990	50.8	
	80 N-Propylbenzene	91	14.026	14.031	(0.904)	1858419	50.8136	50.8	
	81 1,1,2,2-Tetrachloroethane	83	14.140	14.139	(0.911)	461283	49.7440	49.7	
	82 1,3,5-Trimethylbenzene	105	14.319	14.317	(0.923)	1321018	52.1195	52.1	
	83 2-Chlorotoluene	91	14.255	14.253	(0.918)	1118218	49.5359	49.5	
	84 1,2,3-Trichloropropane	75	14.333	14.332	(0.924)	365056	49.6685	49.7	
	85 4-Chlorotoluene	91	14.505	14.503	(0.935)	1172816	50.0695	50.1	
	86 tert-Butylbenzene	119	14.798	14.796	(0.953)	1379981	51.2453	51.2	
	87 Pentachloroethane	117	14.826	14.825	(0.955)	295712	49.2326	49.2	
	88 1,2,4-Trimethylbenzene	105	14.905	14.903	(0.960)	1337488	54.2119	54.2	
	89 P-Isopropyltoluene	119	15.298	15.297	(0.986)	1544971	56.0868	56.1	
	90 1,3-Dichlorobenzene	146	15.405	15.404	(0.993)	776144	48.3029	48.3	
*	91 1,4-Dichlorobenzene-D4	152	15.520	15.518	(1.000)	488401	50.0000		
	92 1,4-Dichlorobenzene	146	15.541	15.547	(1.001)	779849	47.7871	47.8	
	93 N-Butylbenzene	91	15.970	15.968	(1.029)	1476059	54.3744	54.4	
	94 sec-Butylbenzene	105	15.069	15.068	(0.971)	1789868	51.0590	51.0	
	95 1,2-Dichlorobenzene	146	16.220	16.219	(1.045)	717237	49.3585	49.4	
	96 1,2-Dibromo-3-Chloropropane	75	17.564	17.570	(1.132)	83095	48.2780	48.3	
	97 1,3,5-Trichlorobenzene	180	17.621	17.627	(1.135)	586426	48.4538	48.4	
	98 Hexachlorobutadiene	225	18.729	18.728	(1.207)	265172	48.9381	48.9	
	99 1,2,4-Trichlorobenzene	180	18.765	18.763	(1.209)	448639	52.9184	52.9	
	100 1,2,3-Trimethylbenzene	105	15.584	15.590	(1.004)	1332869	50.2116	50.2	
	101 Naphthalene	128	19.351	19.349	(1.247)	1050544	54.4884	54.5	
	102 1,2,3-Trichlorobenzene	180	19.687	19.685	(1.269)	355660	52.9127	52.9	
	103 Methyl Acetate	43	4.976	4.975	(0.619)	307593	47.1974	47.2	
	104 Methylcyclohexane	83	8.629	8.635	(1.073)	531235	50.3779	50.4	
M	153 Total Alkylbenzenes	100				10707804	369.910	370	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.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Client ID: WG154861-LCS
Sample Info: WG154861-7,TH0145
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C112614.b\C0225A.D
Y (x10^6)
Min
-Chloromethane (2.232)
-Vinyl Chloride (2.325)
-Bromomethane (2.725)
-Chloroethane (2.883)
-Trichlorofluoromethane (3.054)
-Diethyl Ether (3.497)
-1,1-Dichloroethene (3.748)+
-Iodomethane (3.955)
-Acrolein (4.269)
-Allyl Chloride (4.477)
-Methylene Chloride (4.655)
-Acetone (4.763)
-trans-1,2-Dichloroethene (4.920)+
-Methyl tert-butyl ether (5.134)
-Tertiary-butyl alcohol (5.356)
-Acetonitrile (5.549)
-Di-isopropyl ether (5.792)
-Acrylonitrile (6.049)
-Ethyl tertiary-butyl ethe (6.364)+
-cis-1,2-Dichloroethene (6.764)
-2,2-Dichloropropane (6.907)
-Chloroform (7.157)
-Carbon Tetrachloride (7.322)+
-2-Butanone (7.586)
-Propionitrile (7.915)+
-Isobutyl Alcohol (8.258)+
-Trichloroethene (8.637)+
-Dibromomethane (9.166)
-Methyl Methacrylate (9.573)+
-2-Chloroethylvinylether (10.052)
-Toluene-D8 (10.334)
-1,1-Dichloropropene (10.824)+
-Ethyl Methacrylate (11.060)+
-Dibromochloromethane (11.267)
-1,3-Dichloropropane (11.382)
-1,2-Dibromoethane (11.553)
-2-Hexanone (11.839)
-Chlorobenzene-D5 (12.189)+
1,1,1,2-Tetrachloroethane (12.297)
m+p-Xylenes (12.440)
-Isopropylbenzene (13.440)
-P-Bromofluorobenzene (13.841)
-1,1,2,2-Tetrachloroethane (14.141)
-1,2,4-Trimethylbenzene (14.319)+
-4-Chlorotoluene (14.505)
-tert-Butylbenzene (14.791)+
-1,2,4-Trimethylbenzene (14.906)
-sec-Butylbenzene (15.070)
-P-Isopropyltoluene (15.299)
-1,4-Dichlorobenzene-D4 (15.542)+
-N-Butylbenzene (15.971)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.221)
-1,2,3,5-Trichlorobenzene (17.622)
-Hexachlorobutadiene (18.730)+
-Naphthalene (19.352)
-1,2,3-Trichlorobenzene (19.688)
-Xylenes (total) (21.380)

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: TH0532
Lab ID : WG155562-4
Analytical Date: 12/12/14 08:48
Lab File ID : C0483.D
Instrument ID: GCMS-C
Initial Calibration Date(s): 11/26/14 08:07 11/26/14 14:53
Column ID:

	Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1	Dichlorodifluoromethane	0.65868	0.59276	0.59276	0.010	-10.00741	20.00000	Averaged	
2	Chloromethane	50.00000	44.77056	0.74749	0.100	-10.45889	20.00000	Linear	
3	Vinyl chloride	0.70893	0.68405	0.68405	0.010	-3.50950	20.00000	Averaged	
4	Bromomethane	50.00000	40.24014	0.24366	0.010	-19.51973	20.00000	Linear	
5	Chloroethane	50.00000	45.66435	0.27364	0.010	-8.67129	20.00000	Linear	
6	Trichlorofluoromethane	1.17979	0.99849	0.99849	0.010	-15.36693	20.00000	Averaged	
9	1,1-Dichloroethene	0.46882	0.48229	0.48229	0.100	2.87362	20.00000	Averaged	
10	Carbon Disulfide	50.00000	51.49961	1.46819	0.010	2.99921	20.00000	Linear	
11	Freon-113	0.34308	0.30740	0.30740	0.010	-10.39929	20.00000	Averaged	
14	Methylene Chloride	50.00000	50.90341	0.60207	0.010	1.80682	20.00000	Linear	
15	Acetone	0.24625	0.24322	0.24322	0.010	-1.22965	20.00000	Averaged	
17	trans-1,2-Dichloroethene	0.54424	0.53550	0.53550	0.010	-1.60605	20.00000	Averaged	
19	Methyl tert-butyl ether	1.27965	1.29949	1.29949	0.010	1.55042	20.00000	Averaged	
25	1,1-Dichloroethane	1.01427	1.02182	1.02182	0.100	0.74475	20.00000	Averaged	
29	cis-1,2-Dichloroethene	0.61044	0.58581	0.58581	0.010	-4.03462	20.00000	Averaged	
30	1,2-Dichloroethylene (total	++++	1.12131	1.12131	0.010	++++	20.00000	Averaged	*
34	Chloroform	1.02813	1.00468	1.00468	0.010	-2.28043	20.00000	Averaged	
35	Carbon Tetrachloride	0.42440	0.46086	0.46086	0.010	8.58968	20.00000	Averaged	
38	1,1,1-Trichloroethane	0.86916	0.89549	0.89549	0.010	3.02872	20.00000	Averaged	
40	2-Butanone	0.34170	0.35511	0.35511	0.010	3.92420	20.00000	Averaged	
41	Benzene	1.34130	1.36129	1.36129	0.010	1.49068	20.00000	Averaged	
43	Cyclohexane	0.89319	0.89856	0.89856	0.010	0.60188	20.00000	Averaged	
47	1,2-Dichloroethane	0.48660	0.47763	0.47763	0.010	-1.84516	20.00000	Averaged	
48	Trichloroethene	0.34482	0.33445	0.33445	0.010	-3.00531	20.00000	Averaged	
51	1,2-Dichloropropane	0.34009	0.33825	0.33825	0.010	-0.53869	20.00000	Averaged	
52	Bromodichloromethane	0.46095	0.46977	0.46977	0.010	1.91495	20.00000	Averaged	
53	cis-1,3-dichloropropene	0.53583	0.55827	0.55827	0.010	4.18750	20.00000	Averaged	
57	Toluene	0.84080	0.86737	0.86737	0.010	3.16087	20.00000	Averaged	
58	4-methyl-2-pentanone	250	257	0.39584	0.010	2.66393	20.00000	Linear	
59	Tetrachloroethene	0.31057	0.30630	0.30630	0.010	-1.37623	20.00000	Averaged	
60	trans-1,3-Dichloropropene	0.46892	0.48418	0.48418	0.010	3.25475	20.00000	Averaged	
61	1,1,2-Trichloroethane	0.27682	0.27299	0.27299	0.010	-1.38116	20.00000	Averaged	
62	Dibromochloromethane	0.34313	0.35120	0.35120	0.010	2.35204	20.00000	Averaged	
64	1,2-Dibromoethane	0.34405	0.33974	0.33974	0.010	-1.25163	20.00000	Averaged	
65	2-Hexanone	250	256	0.29592	0.010	2.31382	20.00000	Linear	
67	Chlorobenzene	1.02184	0.98834	0.98834	0.300	-3.27854	20.00000	Averaged	
68	Ethylbenzene	0.52996	0.52536	0.52536	0.010	-0.86743	20.00000	Averaged	
70	Xylenes (total)	++++	0.66492	0.66492	0.010	++++	20.00000	Averaged	*
71	m+p-Xylenes	0.65149	0.67042	0.67042	0.010	2.90655	20.00000	Averaged	
72	o-Xylene	0.63962	0.65392	0.65392	0.010	2.23513	20.00000	Averaged	
73	Styrene	0.97088	1.03639	1.03639	0.010	6.74748	20.00000	Averaged	

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: TH0532
Lab ID : WG155562-4
Analytical Date: 12/12/14 08:48
Lab File ID : C0483.D
Instrument ID: GCMS-C
Initial Calibration Date(s): 11/26/14 08:07 11/26/14 14:53
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	50.00000	46.02880	0.24472	0.100	-7.94240	20.00000	Linear
75 Isopropylbenzene	2.98942	3.00408	3.00408	0.010	0.49043	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.94934	0.86338	0.86338	0.300	-9.05409	20.00000	Averaged
90 1,3-Dichlorobenzene	1.64499	1.51054	1.51054	0.010	-8.17307	20.00000	Averaged
92 1,4-Dichlorobenzene	1.67068	1.46681	1.46681	0.010	-12.20285	20.00000	Averaged
95 1,2-Dichlorobenzene	1.48763	1.37014	1.37014	0.010	-7.89773	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	50.00000	45.72556	0.16067	0.010	-8.54887	20.00000	Linear
99 1,2,4-Trichlorobenzene	0.86793	0.78155	0.78155	0.010	-9.95260	20.00000	Averaged
103 Methyl Acetate	0.59922	0.56660	0.56660	0.010	-5.44405	20.00000	Averaged
104 Methylcyclohexane	0.96956	0.93945	0.93945	0.010	-3.10495	20.00000	Averaged
37 Dibromofluoromethane	0.54563	0.50291	0.50291	0.010	-7.82915	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.69171	0.61014	0.61014	0.010	-11.79270	20.00000	Averaged
55 Toluene-D8	1.15149	1.13412	1.13412	0.010	-1.50858	20.00000	Averaged
76 P-Bromofluorobenzene	0.49686	0.48835	0.48835	0.010	-1.71367	20.00000	Averaged

*** = Compound out of QC criteria**

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Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0483.D
Report Date: 15-Dec-2014 16:16

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C121214.b\C0483.D
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Inj Date : 12-DEC-2014 08:48 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG155562-4,TH0532
Misc Info : WG155562,WG154861-4,TH0532-3
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C121214.b\C826A26.m
Meth Date : 15-Dec-2014 16:14 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.993	1.994	(0.248)	287425	50.0000	45.0	
2 Chloromethane	50	2.229	2.230	(0.277)	362450	50.0000	44.8	
3 Vinyl chloride	62	2.329	2.330	(0.290)	331689	50.0000	48.2	
4 Bromomethane	94	2.729	2.730	(0.339)	118148	50.0000	40.2	
5 Chloroethane	64	2.879	2.880	(0.358)	132683	50.0000	45.7	
6 Trichlorofluoromethane	101	3.051	3.059	(0.380)	484157	50.0000	42.3	
7 Diethyl Ether	59	3.494	3.488	(0.435)	222553	50.0000	43.5	
8 Tertiary-butyl alcohol	59	5.360	5.347	(0.667)	120045	250.000	210	
9 1,1-Dichloroethene	96	3.752	3.753	(0.467)	233857	50.0000	51.4	
10 Carbon Disulfide	76	3.787	3.788	(0.471)	711910	50.0000	51.5	
11 Freon-113	151	3.809	3.817	(0.474)	149057	50.0000	44.8	
12 Iodomethane	142	3.959	3.967	(0.492)	144145	50.0000	52.3	
13 Acrolein	56	4.273	4.274	(0.532)	271185	250.000	230	
14 Methylene Chloride	84	4.652	4.653	(0.579)	291938	50.0000	50.9	
15 Acetone	43	4.759	4.753	(0.592)	589683	250.000	247	
16 Isobutyl Alcohol	43	8.255	8.256	(1.027)	255033	1000.00	805	
17 trans-1,2-Dichloroethene	96	4.917	4.925	(0.612)	259656	50.0000	49.2	
18 Allyl Chloride	41	4.473	4.482	(0.556)	422435	50.0000	47.6	
19 Methyl tert-butyl ether	73	5.131	5.132	(0.638)	1260217	100.000	102	
20 Acetonitrile	39	5.546	5.540	(0.690)	114084	500.000	463	
21 Di-isopropyl ether	45	5.789	5.790	(0.720)	848033	50.0000	47.7	
22 Chloroprene	53	5.910	5.918	(0.735)	414755	50.0000	48.6	
23 Propionitrile	54	7.969	7.970	(0.991)	557811	500.000	467	
24 Methacrylonitrile	41	7.990	7.991	(0.994)	1964732	500.000	453	

Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0483.D
Report Date: 15-Dec-2014 16:16

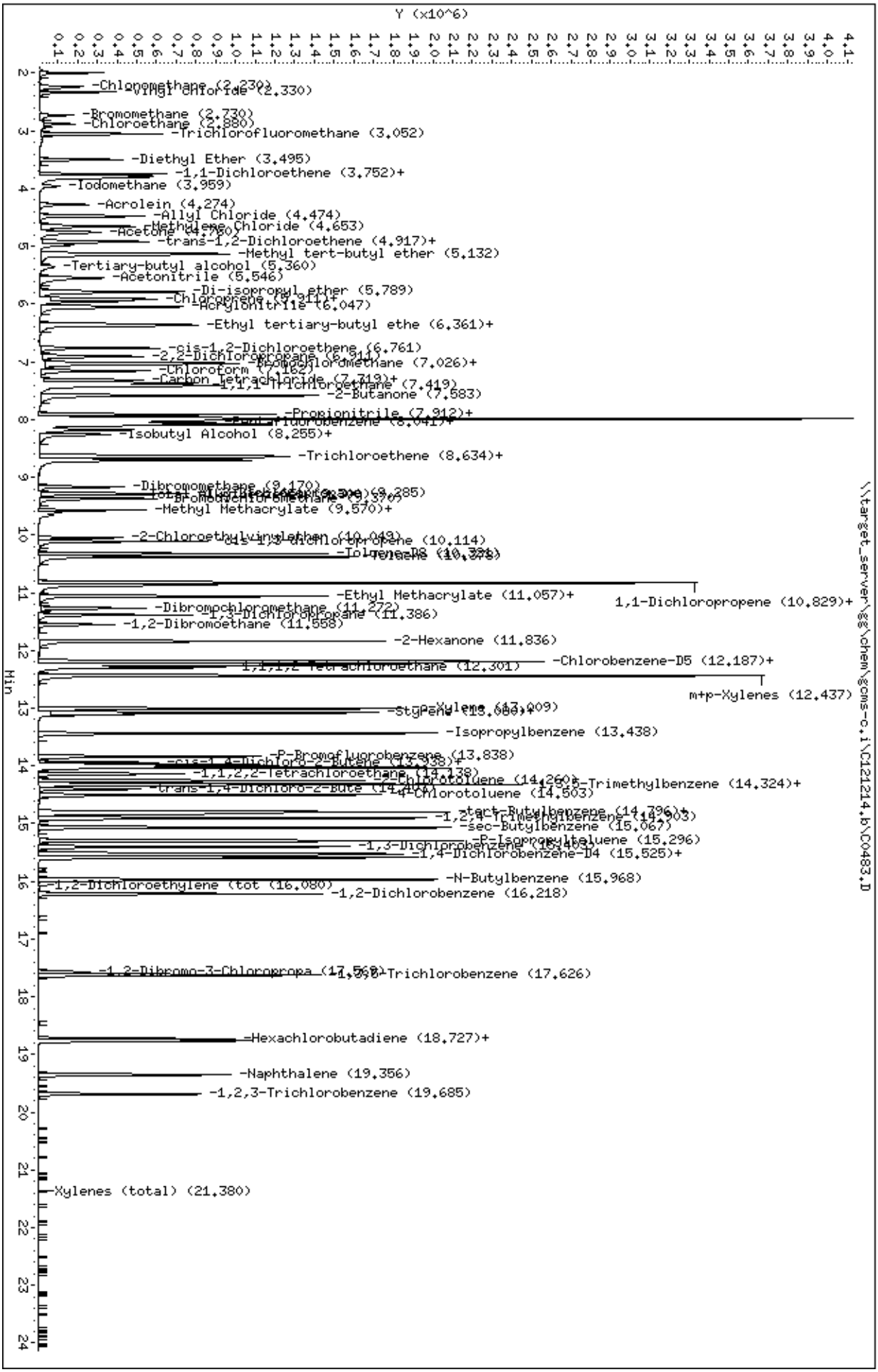
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.946	5.954	(0.740)	495470	50.0000	50.4	
	26 Acrylonitrile	52	6.046	6.047	(0.752)	579152	250.000	229	
	27 Ethyl tertiary-butyl ether	59	6.353	6.354	(0.790)	694731	50.0000	48.3	
	28 Vinyl Acetate	43	6.375	6.376	(0.732)	669298	50.0000	50.6	
	29 cis-1,2-Dichloroethene	96	6.761	6.762	(0.841)	284053	50.0000	48.0	
	31 Methyl Methacrylate	41	9.570	9.571	(1.099)	268376	50.0000	45.2	
	32 2,2-Dichloropropane	77	6.911	6.912	(0.860)	371585	50.0000	52.9	
	33 Bromochloromethane	128	7.040	7.041	(0.876)	119682	50.0000	44.9	
	34 Chloroform	83	7.161	7.162	(0.891)	487160	50.0000	48.8	
	35 Carbon Tetrachloride	117	7.318	7.319	(0.841)	358513	50.0000	54.3	
	36 Tetrahydrofuran	42	7.361	7.362	(0.916)	522581	250.000	252	
$	37 Dibromofluoromethane	113	7.404	7.405	(0.921)	243855	50.0000	46.1	
	38 1,1,1-Trichloroethane	97	7.418	7.419	(0.923)	434212	50.0000	51.5	
	39 1,1-Dichloropropene	75	10.871	10.872	(1.249)	376660	50.0000	51.6	
	40 2-Butanone	43	7.583	7.584	(0.943)	860953	250.000	260	
	41 Benzene	78	7.912	7.913	(0.909)	1058983	50.0000	50.7	
*	42 Pentafluorobenzene	168	8.040	8.041	(1.000)	484889	50.0000		
	43 Cyclohexane	56	7.025	7.026	(0.874)	435703	50.0000	50.3	
	44 Ethyl Methacrylate	69	11.064	11.058	(1.271)	344380	50.0000	44.9	
$	45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	295848	50.0000	44.1	
	46 Tertiary-amyl methyl ether	73	8.083	8.084	(1.005)	591375	50.0000	48.6	
	47 1,2-Dichloroethane	62	8.176	8.177	(0.939)	371557	50.0000	49.1	
	48 Trichloroethene	95	8.648	8.656	(0.993)	260180	50.0000	48.5	
*	49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	777926	50.0000		
	50 Dibromomethane	93	9.170	9.164	(1.053)	164252	50.0000	46.1	
	51 1,2-Dichloropropane	63	9.284	9.285	(1.067)	263137	50.0000	49.7	
	52 Bromodichloromethane	83	9.370	9.371	(1.076)	365448	50.0000	51.0	
	53 cis-1,3-dichloropropene	75	10.113	10.114	(1.162)	434295	50.0000	52.1	
	54 1,4-Dioxane	88	9.613	9.614	(1.104)	75045	1000.00	733	
$	55 Toluene-D8	98	10.321	10.322	(1.186)	882263	50.0000	49.2	
	56 2-Chloroethylvinylether	63	10.049	10.050	(1.154)	159526	50.0000	43.2	
	57 Toluene	92	10.378	10.379	(1.192)	674753	50.0000	51.6	
	58 4-methyl-2-pentanone	43	10.828	10.829	(1.244)	1539681	250.000	257	
	59 Tetrachloroethene	164	10.821	10.822	(0.887)	243448	50.0000	49.3	
	60 trans-1,3-Dichloropropene	75	10.871	10.872	(1.249)	376660	50.0000	51.6	
	61 1,1,2-Trichloroethane	83	11.057	11.058	(1.270)	212368	50.0000	49.3	
	62 Dibromochloromethane	129	11.271	11.272	(0.924)	279138	50.0000	51.2	
	63 1,3-Dichloropropane	76	11.386	11.387	(0.934)	428755	50.0000	49.6	
	64 1,2-Dibromoethane	107	11.557	11.551	(1.328)	264293	50.0000	49.4	
	65 2-Hexanone	43	11.836	11.837	(0.971)	1176007	250.000	256	
*	66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	794803	50.0000		
	67 Chlorobenzene	112	12.215	12.216	(1.002)	785533	50.0000	48.4	
	152 1-Chlorohexane	91	12.186	12.187	(0.999)	416045	50.0000	46.7	
	68 Ethylbenzene	106	12.250	12.251	(1.005)	417561	50.0000	49.6	
	69 1,1,1,2-Tetrachloroethane	131	12.301	12.294	(1.009)	273691	50.0000	51.0	
	71 m+p-Xylenes	106	12.436	12.437	(1.020)	1065705	100.000	103	
	72 o-Xylene	106	13.008	13.009	(1.067)	519734	50.0000	51.1	
	73 Styrene	104	13.080	13.081	(1.073)	823722	50.0000	53.4	
	74 Bromoform	173	13.115	13.116	(1.076)	194503	50.0000	46.0	
	75 Isopropylbenzene	105	13.437	13.438	(0.866)	1376495	50.0000	50.2	
$	76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	379897	50.0000	49.1	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.938	(0.898)	142792	50.0000	46.5	
	78 trans-1,4-Dichloro-2-Butene	53	14.402	14.403	(0.928)	119495	50.0000	47.2	
	79 Bromobenzene	156	13.987	13.988	(0.901)	341542	50.0000	46.2	

Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0483.D
Report Date: 15-Dec-2014 16:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	80 N-Propylbenzene	91	14.030	14.031	(0.904)	1691323	50.0000	49.3	
	81 1,1,2,2-Tetrachloroethane	83	14.138	14.139	(0.911)	395610	50.0000	45.5	
	82 1,3,5-Trimethylbenzene	105	14.323	14.317	(0.923)	1194157	50.0000	50.2	
	83 2-Chlorotoluene	91	14.252	14.253	(0.918)	1036742	50.0000	49.0	
	84 1,2,3-Trichloropropane	75	14.338	14.332	(0.924)	319833	50.0000	46.4	
	85 4-Chlorotoluene	91	14.502	14.503	(0.934)	1055008	50.0000	48.0	
	86 tert-Butylbenzene	119	14.795	14.796	(0.953)	1248769	50.0000	49.4	
	87 Pentachloroethane	117	14.824	14.825	(0.955)	265778	50.0000	47.2	
	88 1,2,4-Trimethylbenzene	105	14.902	14.903	(0.960)	1168075	50.0000	50.5	
	89 P-Isopropyltoluene	119	15.296	15.297	(0.985)	1315477	50.0000	50.9	
	90 1,3-Dichlorobenzene	146	15.403	15.404	(0.992)	692144	50.0000	45.9	
*	91 1,4-Dichlorobenzene-D4	152	15.524	15.518	(1.000)	458209	50.0000		
	92 1,4-Dichlorobenzene	146	15.546	15.547	(1.001)	672106	50.0000	43.9	
	93 N-Butylbenzene	91	15.975	15.968	(1.029)	1278820	50.0000	50.2	
	94 sec-Butylbenzene	105	15.067	15.068	(0.971)	1619429	50.0000	49.2	
	95 1,2-Dichlorobenzene	146	16.218	16.219	(1.045)	627810	50.0000	46.0	
	96 1,2-Dibromo-3-Chloropropane	75	17.569	17.570	(1.132)	73622	50.0000	45.7	
	97 1,3,5-Trichlorobenzene	180	17.626	17.627	(1.135)	508907	50.0000	44.8	
	98 Hexachlorobutadiene	225	18.727	18.728	(1.206)	208444	50.0000	41.0	
	99 1,2,4-Trichlorobenzene	180	18.762	18.763	(1.209)	358112	50.0000	45.0	
	100 1,2,3-Trimethylbenzene	105	15.589	15.590	(1.004)	1186501	50.0000	47.6	
	101 Naphthalene	128	19.356	19.349	(1.247)	862952	50.0000	47.6	
	102 1,2,3-Trichlorobenzene	180	19.692	19.685	(1.268)	284463	50.0000	45.1	
	103 Methyl Acetate	43	4.974	4.975	(0.619)	274737	50.0000	47.3	
	104 Methylcyclohexane	83	8.634	8.635	(1.074)	455531	50.0000	48.4	

Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0483.D
Date : 12-DEC-2014 08:48
Client ID: ontinuing Calibrati
Sample Info: WG155562-4,TH0532
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: TH0532
Lab ID : WG155629-4
Analytical Date: 12/13/14 08:39
Lab File ID : C0509.D
Instrument ID: GCMS-C
Initial Calibration Date(s): 11/26/14 08:07 11/26/14 14:53
Column ID:

	Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1	Dichlorodifluoromethane	0.65868	0.77410	0.77410	0.010	17.52248	20.00000	Averaged	
2	Chloromethane	50.00000	54.15447	0.89713	0.100	8.30894	20.00000	Linear	
3	Vinyl chloride	0.70893	0.78645	0.78645	0.010	10.93494	20.00000	Averaged	
4	Bromomethane	50.00000	47.36718	0.28773	0.010	-5.26564	20.00000	Linear	
5	Chloroethane	50.00000	53.91557	0.31960	0.010	7.83115	20.00000	Linear	
6	Trichlorofluoromethane	1.17979	1.16243	1.16243	0.010	-1.47164	20.00000	Averaged	
9	1,1-Dichloroethene	0.46882	0.47236	0.47236	0.100	0.75583	20.00000	Averaged	
10	Carbon Disulfide	50.00000	50.41525	1.43774	0.010	0.83051	20.00000	Linear	
11	Freon-113	0.34308	0.36176	0.36176	0.010	5.44330	20.00000	Averaged	
14	Methylene Chloride	50.00000	52.21111	0.61733	0.010	4.42221	20.00000	Linear	
15	Acetone	0.24625	0.23649	0.23649	0.010	-3.96475	20.00000	Averaged	
17	trans-1,2-Dichloroethene	0.54424	0.52030	0.52030	0.010	-4.39880	20.00000	Averaged	
19	Methyl tert-butyl ether	1.27965	1.29152	1.29152	0.010	0.92770	20.00000	Averaged	
25	1,1-Dichloroethane	1.01427	1.01049	1.01049	0.100	-0.37292	20.00000	Averaged	
29	cis-1,2-Dichloroethene	0.61044	0.58702	0.58702	0.010	-3.83586	20.00000	Averaged	
30	1,2-Dichloroethylene (total	++++	1.10732	1.10732	0.010	++++	20.00000	Averaged	*
34	Chloroform	1.02813	0.99496	0.99496	0.010	-3.22609	20.00000	Averaged	
35	Carbon Tetrachloride	0.42440	0.45082	0.45082	0.010	6.22369	20.00000	Averaged	
38	1,1,1-Trichloroethane	0.86916	0.90322	0.90322	0.010	3.91895	20.00000	Averaged	
40	2-Butanone	0.34170	0.35527	0.35527	0.010	3.96984	20.00000	Averaged	
41	Benzene	1.34130	1.34208	1.34208	0.010	0.05840	20.00000	Averaged	
43	Cyclohexane	0.89319	0.91214	0.91214	0.010	2.12162	20.00000	Averaged	
47	1,2-Dichloroethane	0.48660	0.48581	0.48581	0.010	-0.16236	20.00000	Averaged	
48	Trichloroethene	0.34482	0.33973	0.33973	0.010	-1.47366	20.00000	Averaged	
51	1,2-Dichloropropane	0.34009	0.33594	0.33594	0.010	-1.22020	20.00000	Averaged	
52	Bromodichloromethane	0.46095	0.47124	0.47124	0.010	2.23338	20.00000	Averaged	
53	cis-1,3-dichloropropene	0.53583	0.56528	0.56528	0.010	5.49449	20.00000	Averaged	
57	Toluene	0.84080	0.84626	0.84626	0.010	0.65002	20.00000	Averaged	
58	4-methyl-2-pentanone	250	259	0.39901	0.010	3.49794	20.00000	Linear	
59	Tetrachloroethene	0.31057	0.28611	0.28611	0.010	-7.87654	20.00000	Averaged	
60	trans-1,3-Dichloropropene	0.46892	0.48262	0.48262	0.010	2.92128	20.00000	Averaged	
61	1,1,2-Trichloroethane	0.27682	0.26873	0.26873	0.010	-2.92030	20.00000	Averaged	
62	Dibromochloromethane	0.34313	0.35163	0.35163	0.010	2.47682	20.00000	Averaged	
64	1,2-Dibromoethane	0.34405	0.32928	0.32928	0.010	-4.29224	20.00000	Averaged	
65	2-Hexanone	250	255	0.29448	0.010	1.80521	20.00000	Linear	
67	Chlorobenzene	1.02184	0.96004	0.96004	0.300	-6.04778	20.00000	Averaged	
68	Ethylbenzene	0.52996	0.50928	0.50928	0.010	-3.90202	20.00000	Averaged	
70	Xylenes (total)	++++	0.64044	0.64044	0.010	++++	20.00000	Averaged	*
71	m+p-Xylenes	0.65149	0.64143	0.64143	0.010	-1.54339	20.00000	Averaged	
72	o-Xylene	0.63962	0.63845	0.63845	0.010	-0.18331	20.00000	Averaged	
73	Styrene	0.97088	1.01944	1.01944	0.010	5.00239	20.00000	Averaged	

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Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: TH0532
Lab ID : WG155629-4
Analytical Date: 12/13/14 08:39
Lab File ID : C0509.D
Instrument ID: GCMS-C
Initial Calibration Date(s): 11/26/14 08:07 11/26/14 14:53
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	50.00000	43.04710	0.22822	0.100	-13.90579	20.00000	Linear
75 Isopropylbenzene	2.98942	2.95689	2.95689	0.010	-1.08817	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.94934	0.87784	0.87784	0.300	-7.53109	20.00000	Averaged
90 1,3-Dichlorobenzene	1.64499	1.48985	1.48985	0.010	-9.43091	20.00000	Averaged
92 1,4-Dichlorobenzene	1.67068	1.45381	1.45381	0.010	-12.98074	20.00000	Averaged
95 1,2-Dichlorobenzene	1.48763	1.37443	1.37443	0.010	-7.60915	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	50.00000	45.00468	0.15800	0.010	-9.99064	20.00000	Linear
99 1,2,4-Trichlorobenzene	0.86793	0.78110	0.78110	0.010	-10.00392	20.00000	Averaged
103 Methyl Acetate	0.59922	0.55199	0.55199	0.010	-7.88114	20.00000	Averaged
104 Methylcyclohexane	0.96956	1.00489	1.00489	0.010	3.64380	20.00000	Averaged
37 Dibromofluoromethane	0.54563	0.51222	0.51222	0.010	-6.12303	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.69171	0.64240	0.64240	0.010	-7.12752	20.00000	Averaged
55 Toluene-D8	1.15149	1.13470	1.13470	0.010	-1.45871	20.00000	Averaged
76 P-Bromofluorobenzene	0.49686	0.49315	0.49315	0.010	-0.74595	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0509.D
Report Date: 15-Dec-2014 16:38

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C121314.b\C0509.D
Lab Smp Id: WG155629-4 Client Smp ID: ontinuing Calibrati
Inj Date : 13-DEC-2014 08:39 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG155629-4,TH0532
Misc Info : WG155629,WG154861-4,TH0532-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C121314.b\C826A26.m
Meth Date : 15-Dec-2014 16:37 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.986	1.994	(0.247)	336428	50.0000	58.8	
2 Chloromethane	50	2.236	2.230	(0.278)	389898	50.0000	54.2	
3 Vinyl chloride	62	2.329	2.330	(0.290)	341797	50.0000	55.5	
4 Bromomethane	94	2.729	2.730	(0.339)	125051	50.0000	47.4	
5 Chloroethane	64	2.879	2.880	(0.358)	138899	50.0000	53.9	
6 Trichlorofluoromethane	101	3.051	3.059	(0.379)	505197	50.0000	49.3	
7 Diethyl Ether	59	3.494	3.488	(0.435)	204974	50.0000	44.7	
8 Tertiary-butyl alcohol	59	5.359	5.347	(0.667)	116518	250.000	227	
9 1,1-Dichloroethene	96	3.744	3.753	(0.466)	205291	50.0000	50.4	
10 Carbon Disulfide	76	3.780	3.788	(0.470)	624850	50.0000	50.4	
11 Freon-113	151	3.808	3.817	(0.474)	157222	50.0000	52.7	
12 Iodomethane	142	3.951	3.967	(0.491)	124015	50.0000	50.2	
13 Acrolein	56	4.273	4.274	(0.531)	253268	250.000	240	
14 Methylene Chloride	84	4.652	4.653	(0.579)	268296	50.0000	52.2	
15 Acetone	43	4.759	4.753	(0.592)	513897	250.000	240	
16 Isobutyl Alcohol	43	8.254	8.256	(1.027)	248752	1000.00	871	
17 trans-1,2-Dichloroethene	96	4.916	4.925	(0.611)	226124	50.0000	47.8	
18 Allyl Chloride	41	4.473	4.482	(0.556)	405394	50.0000	50.9	
19 Methyl tert-butyl ether	73	5.131	5.132	(0.638)	1122606	100.000	101	
20 Acetonitrile	39	5.545	5.540	(0.690)	111489	500.000	503	
21 Di-isopropyl ether	45	5.788	5.790	(0.720)	794722	50.0000	49.9	
22 Chloroprene	53	5.910	5.918	(0.735)	398825	50.0000	52.1	
23 Propionitrile	54	7.968	7.970	(0.991)	550134	500.000	514	
24 Methacrylonitrile	41	7.990	7.991	(0.994)	1938271	500.000	508	

Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0509.D
Report Date: 15-Dec-2014 16:38

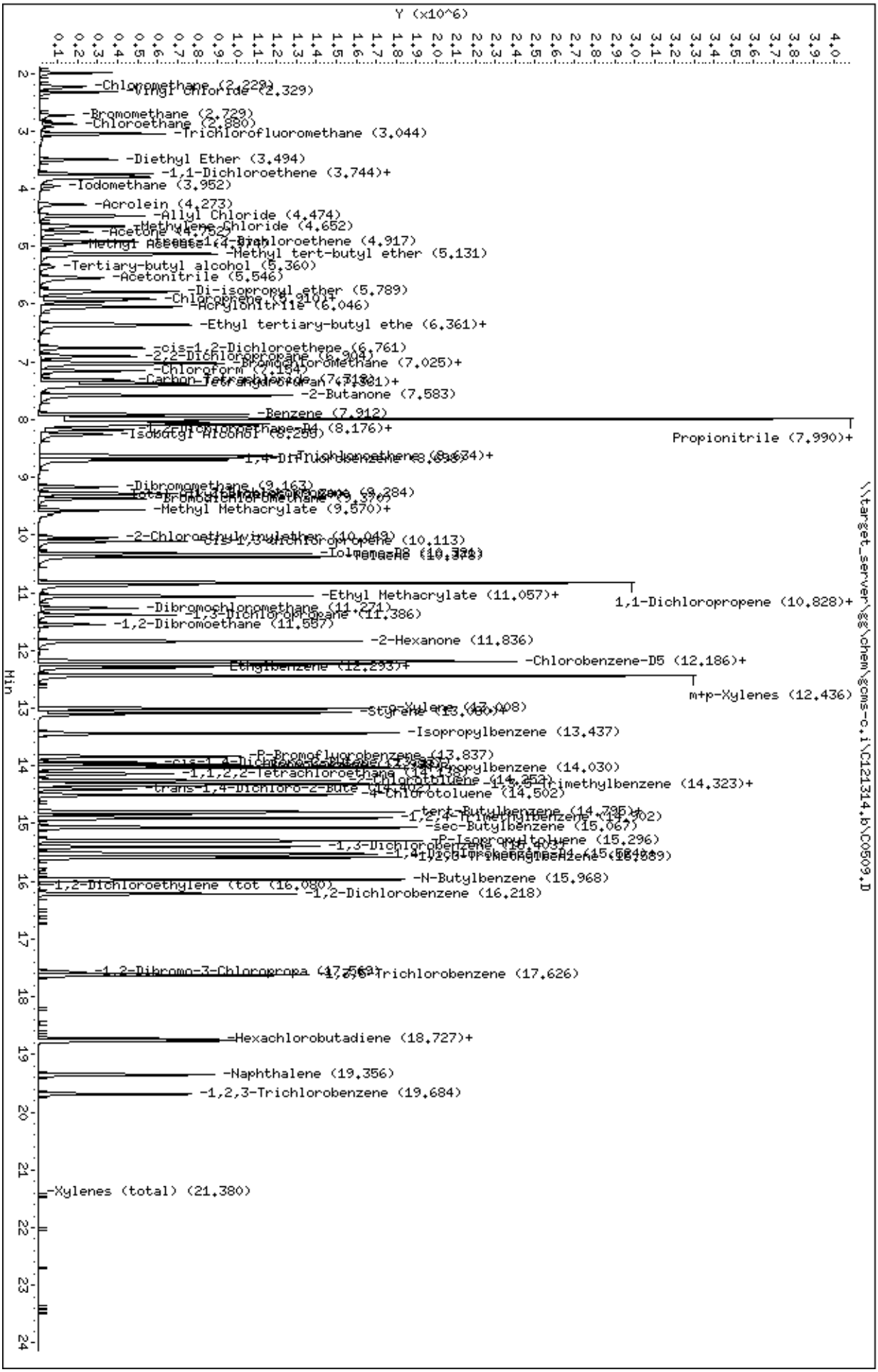
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.946	5.954	(0.740)	439163	50.0000	49.8	
	26 Acrylonitrile	52	6.046	6.047	(0.752)	563713	250.000	248	
	27 Ethyl tertiary-butyl ether	59	6.353	6.354	(0.790)	660452	50.0000	51.3	
	28 Vinyl Acetate	43	6.374	6.376	(0.732)	614938	50.0000	51.0	
	29 cis-1,2-Dichloroethene	96	6.760	6.762	(0.841)	255124	50.0000	48.1	
	31 Methyl Methacrylate	41	9.570	9.571	(1.099)	258011	50.0000	47.6	
	32 2,2-Dichloropropane	77	6.903	6.912	(0.859)	331646	50.0000	52.6	
	33 Bromochloromethane	128	7.039	7.041	(0.876)	108853	50.0000	45.6	
	34 Chloroform	83	7.154	7.162	(0.890)	432416	50.0000	48.4	
	35 Carbon Tetrachloride	117	7.318	7.319	(0.841)	319419	50.0000	53.1	
	36 Tetrahydrofuran	42	7.361	7.362	(0.916)	458926	250.000	246	
$	37 Dibromofluoromethane	113	7.404	7.405	(0.921)	222613	50.0000	46.9	
	38 1,1,1-Trichloroethane	97	7.411	7.419	(0.922)	392547	50.0000	52.0	
	39 1,1-Dichloropropene	75	10.870	10.872	(1.249)	341954	50.0000	51.5	
	40 2-Butanone	43	7.582	7.584	(0.943)	772011	250.000	260	
	41 Benzene	78	7.911	7.913	(0.909)	950910	50.0000	50.0	
*	42 Pentafluorobenzene	168	8.040	8.041	(1.000)	434606	50.0000		
	43 Cyclohexane	56	7.018	7.026	(0.873)	396420	50.0000	51.1	
	44 Ethyl Methacrylate	69	11.056	11.058	(1.270)	325493	50.0000	46.6	
$	45 1,2-Dichloroethane-D4	65	8.090	8.090	(1.006)	279193	50.0000	46.4	
	46 Tertiary-amyl methyl ether	73	8.083	8.084	(1.005)	567285	50.0000	52.1	
	47 1,2-Dichloroethane	62	8.176	8.177	(0.939)	344216	50.0000	49.9	
	48 Trichloroethene	95	8.647	8.656	(0.993)	240714	50.0000	49.3	
*	49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	708535	50.0000		
	50 Dibromomethane	93	9.162	9.164	(1.053)	147634	50.0000	45.5	
	51 1,2-Dichloropropane	63	9.284	9.285	(1.067)	238023	50.0000	49.4	
	52 Bromodichloromethane	83	9.369	9.371	(1.076)	333890	50.0000	51.1	
	53 cis-1,3-dichloropropene	75	10.113	10.114	(1.162)	400518	50.0000	52.7	
	54 1,4-Dioxane	88	9.612	9.614	(1.104)	73822	1000.00	791	
$	55 Toluene-D8	98	10.320	10.322	(1.186)	803972	50.0000	49.3	
	56 2-Chloroethylvinylether	63	10.048	10.050	(1.154)	148299	50.0000	44.0	
	57 Toluene	92	10.377	10.379	(1.192)	599607	50.0000	50.3	
	58 4-methyl-2-pentanone	43	10.828	10.829	(1.244)	1413549	250.000	259	
	59 Tetrachloroethene	164	10.820	10.822	(0.887)	210407	50.0000	46.1	
	60 trans-1,3-Dichloropropene	75	10.870	10.872	(1.249)	341954	50.0000	51.5	
	61 1,1,2-Trichloroethane	83	11.056	11.058	(1.270)	190406	50.0000	48.5	
	62 Dibromochloromethane	129	11.271	11.272	(0.924)	258591	50.0000	51.2	
	63 1,3-Dichloropropane	76	11.385	11.387	(0.934)	390456	50.0000	48.8	
	64 1,2-Dibromoethane	107	11.557	11.551	(1.328)	233306	50.0000	47.8	
	65 2-Hexanone	43	11.835	11.837	(0.971)	1082809	250.000	254	
*	66 Chlorobenzene-D5	117	12.193	12.194	(1.000)	735402	50.0000		
	67 Chlorobenzene	112	12.214	12.216	(1.002)	706015	50.0000	47.0	
	152 1-Chlorohexane	91	12.186	12.187	(0.999)	380584	50.0000	46.2	
	68 Ethylbenzene	106	12.250	12.251	(1.005)	374527	50.0000	48.0	
	69 1,1,1,2-Tetrachloroethane	131	12.300	12.294	(1.009)	247618	50.0000	49.8	
	71 m+p-Xylenes	106	12.436	12.437	(1.020)	943418	100.000	98.4	
	72 o-Xylene	106	13.008	13.009	(1.067)	469515	50.0000	49.9	
	73 Styrene	104	13.079	13.081	(1.073)	749700	50.0000	52.5	
	74 Bromoform	173	13.115	13.116	(1.076)	167836	50.0000	43.0	
	75 Isopropylbenzene	105	13.437	13.438	(0.866)	1221451	50.0000	49.4	
$	76 P-Bromofluorobenzene	95	13.837	13.838	(1.590)	349417	50.0000	49.6	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.938	(0.898)	138979	50.0000	50.2	
	78 trans-1,4-Dichloro-2-Butene	53	14.402	14.403	(0.928)	114042	50.0000	49.9	
	79 Bromobenzene	156	13.987	13.988	(0.901)	304045	50.0000	45.6	

Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0509.D
Report Date: 15-Dec-2014 16:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80 N-Propylbenzene	91	14.030	14.031	(0.904)	1526114	50.0000	49.3	
81 1,1,2,2-Tetrachloroethane	83	14.137	14.139	(0.911)	362625	50.0000	46.2	
82 1,3,5-Trimethylbenzene	105	14.316	14.317	(0.922)	1073065	50.0000	50.0	
83 2-Chlorotoluene	91	14.251	14.253	(0.918)	927283	50.0000	48.6	
84 1,2,3-Trichloropropane	75	14.337	14.332	(0.924)	297350	50.0000	47.8	
85 4-Chlorotoluene	91	14.502	14.503	(0.934)	947050	50.0000	47.8	
86 tert-Butylbenzene	119	14.795	14.796	(0.953)	1123768	50.0000	49.3	
87 Pentachloroethane	117	14.823	14.825	(0.955)	253243	50.0000	49.8	
88 1,2,4-Trimethylbenzene	105	14.902	14.903	(0.960)	1038892	50.0000	49.8	
89 P-Isopropyltoluene	119	15.295	15.297	(0.985)	1180217	50.0000	50.6	
90 1,3-Dichlorobenzene	146	15.402	15.404	(0.992)	615438	50.0000	45.3	
* 91 1,4-Dichlorobenzene-D4	152	15.524	15.518	(1.000)	413087	50.0000		
92 1,4-Dichlorobenzene	146	15.545	15.547	(1.001)	600552	50.0000	43.5	
93 N-Butylbenzene	91	15.967	15.968	(1.029)	1146745	50.0000	49.9	
94 sec-Butylbenzene	105	15.066	15.068	(0.971)	1447393	50.0000	48.8	
95 1,2-Dichlorobenzene	146	16.217	16.219	(1.045)	567760	50.0000	46.2	
96 1,2-Dibromo-3-Chloropropane	75	17.568	17.570	(1.132)	65268	50.0000	45.0	
97 1,3,5-Trichlorobenzene	180	17.625	17.627	(1.135)	467157	50.0000	45.6	
98 Hexachlorobutadiene	225	18.726	18.728	(1.206)	183594	50.0000	40.1	
99 1,2,4-Trichlorobenzene	180	18.762	18.763	(1.209)	322663	50.0000	45.0	
100 1,2,3-Trimethylbenzene	105	15.588	15.590	(1.004)	1121290	50.0000	49.9	
101 Naphthalene	128	19.355	19.349	(1.247)	789471	50.0000	48.3	
102 1,2,3-Trichlorobenzene	180	19.691	19.685	(1.268)	257507	50.0000	45.3	
103 Methyl Acetate	43	4.973	4.975	(0.619)	239900	50.0000	46.0	
104 Methylcyclohexane	83	8.626	8.635	(1.073)	436730	50.0000	51.8	

Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0509.D
Date : 13-DEC-2014 08:39
Client ID: ontinuing Calibrati
Sample Info: WG155629-4,TH0532
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\CB958.D

Date : 26-NOV-2014 06:54

Client ID:

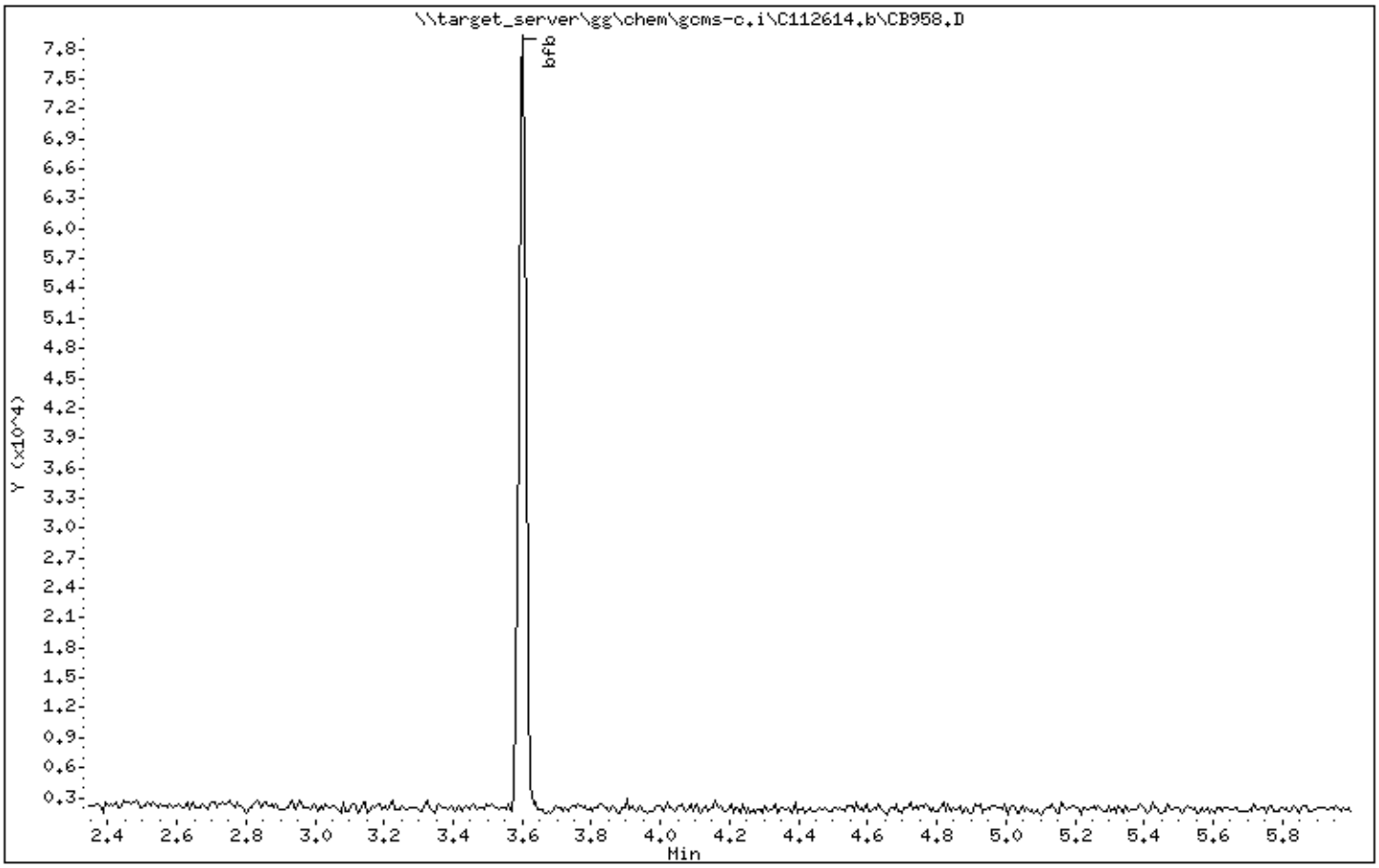
Instrument: gcms-c.i

Sample Info: WG154861-10,TH0532

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\CB958.D

Date : 26-NOV-2014 06:54

Client ID:

Instrument: gcms-c.i

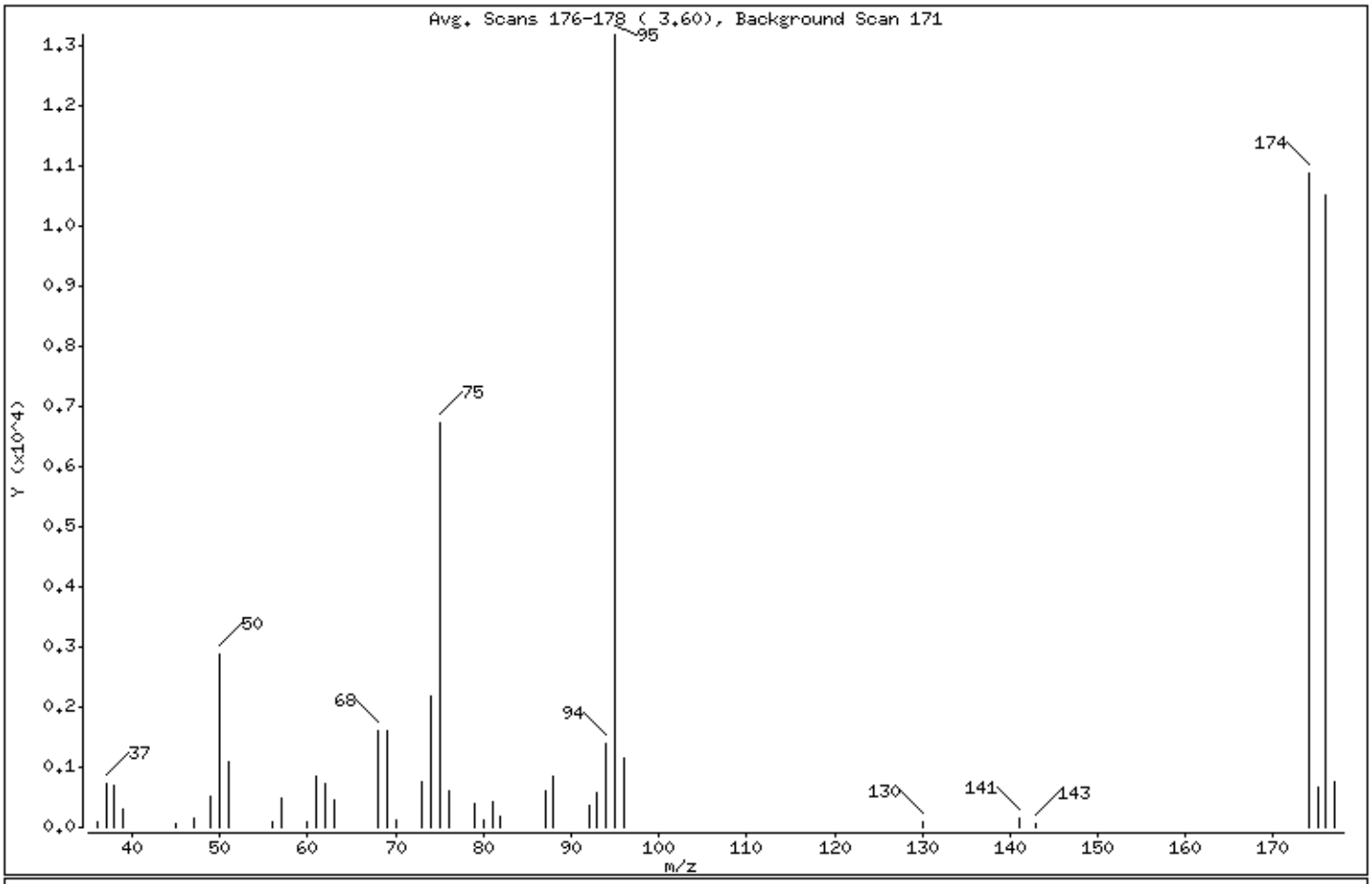
Sample Info: WG154861-10,TH0532

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.80
75	30.00 - 60.00% of mass 95	51.04
96	5.00 - 9.00% of mass 95	8.81
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.42
175	5.00 - 9.00% of mass 174	5.14 (6.23)
176	95.00 - 101.00% of mass 174	79.79 (96.81)
177	5.00 - 9.00% of mass 176	5.72 (7.17)

Data File: \\target_server\gg\chem\gcms-c.i\C112614.b\CB958.D

Date : 26-NOV-2014 06:54

Client ID:

Instrument: gcms-c.i

Sample Info: WG154861-10,TH0532

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

Data File: CB958.D
Spectrum: Avg. Scans 176-178 (3.60), Background Scan 171
Location of Maximum: 95.00
Number of points: 40

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	79	60.00	79	79.00	404	130.00	94
37.00	735	61.00	835	80.00	110	141.00	151
38.00	707	62.00	720	81.00	436	143.00	75
39.00	305	63.00	456	82.00	191	174.00	10863
45.00	69	68.00	1610	87.00	594	175.00	677
47.00	140	69.00	1594	88.00	838	176.00	10516
49.00	524	70.00	115	92.00	378	177.00	754
50.00	2873	73.00	765	93.00	569		
51.00	1084	74.00	2169	94.00	1390		
56.00	104	75.00	6727	95.00	13180		
57.00	499	76.00	594	96.00	1161		

Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\CB969.D

Date : 12-DEC-2014 08:22

Client ID:

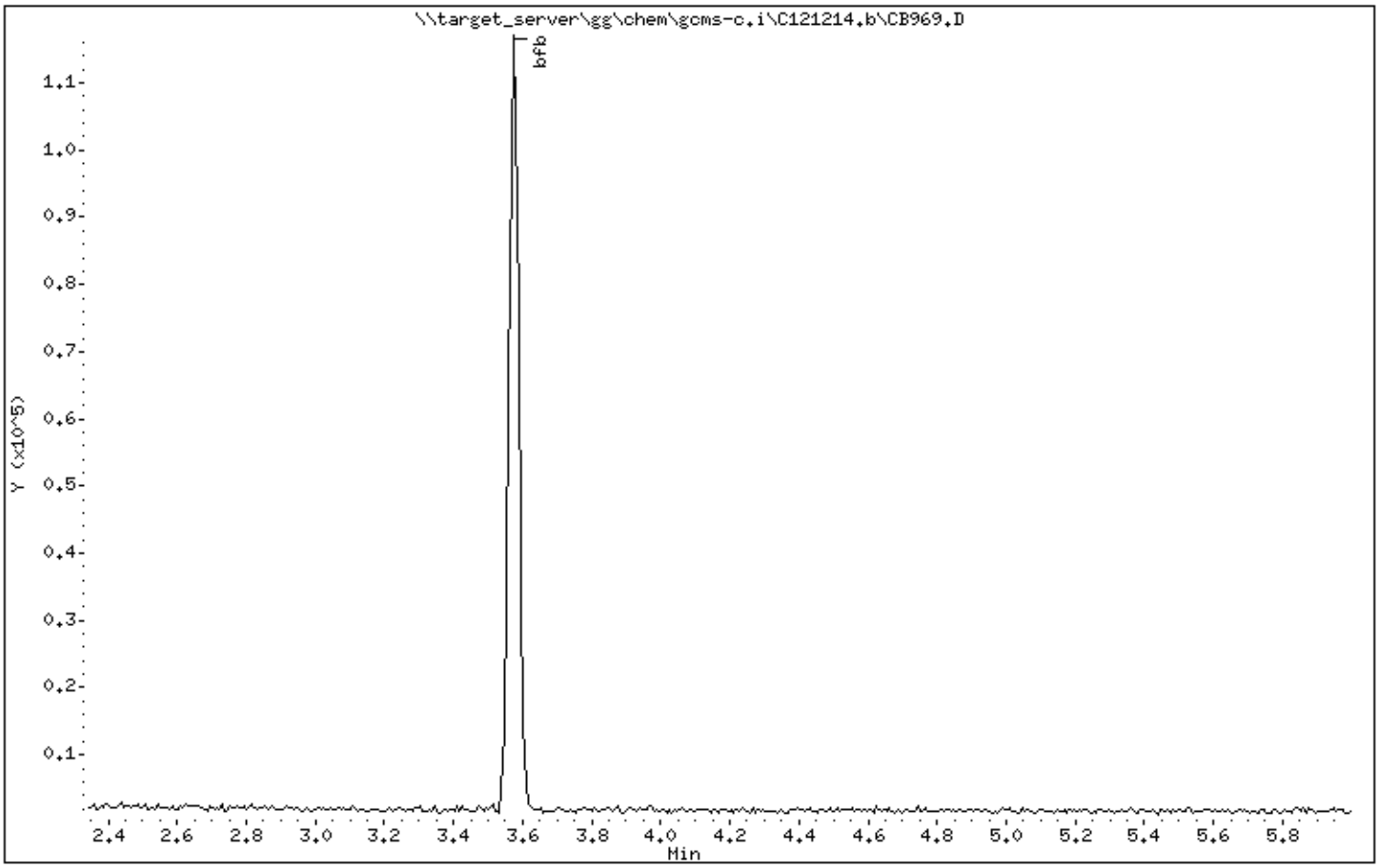
Instrument: gcms-c.i

Sample Info: WG155562-3,TH0532

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\CB969.D

Date : 12-DEC-2014 08:22

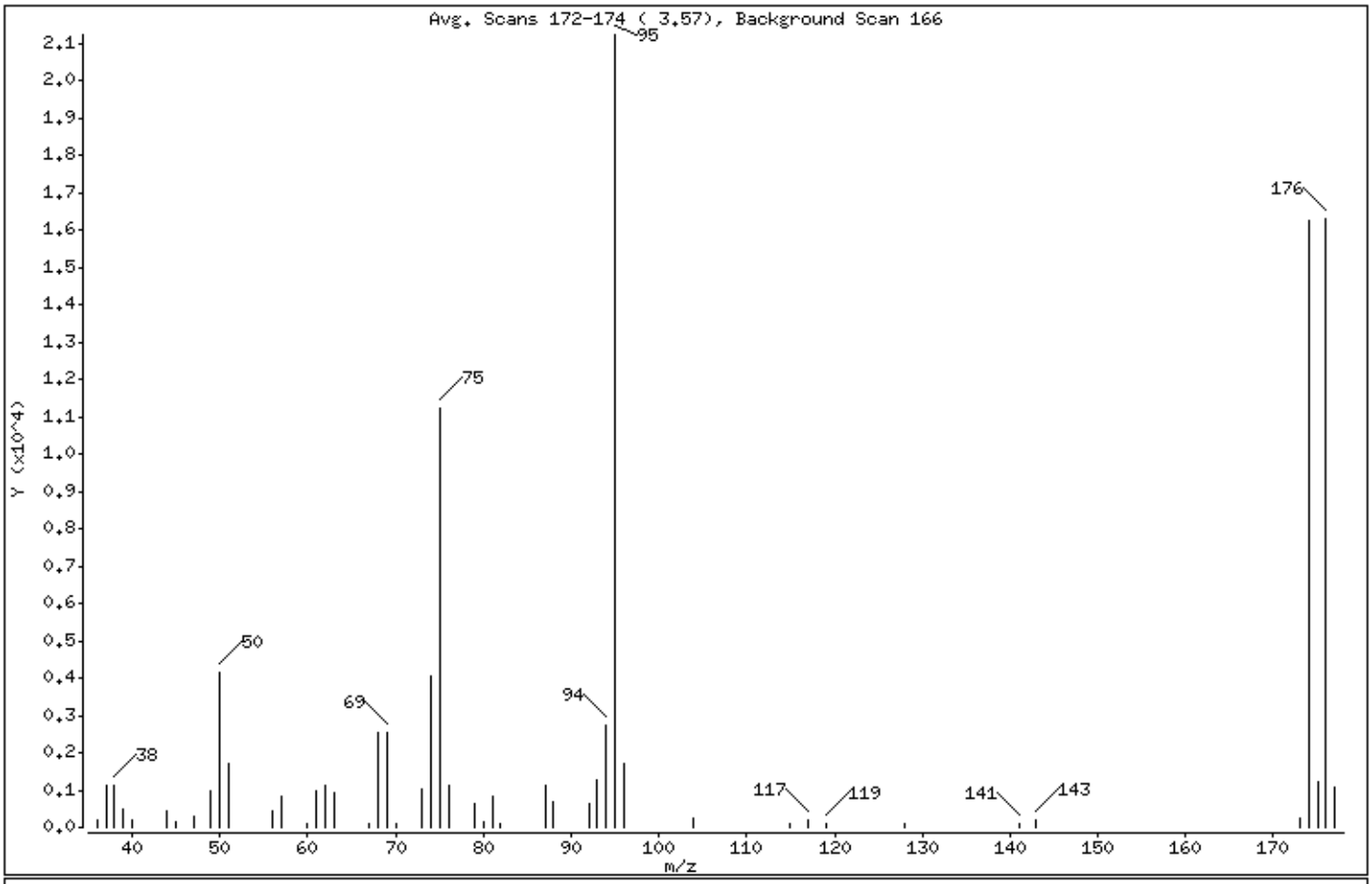
Client ID: Instrument: gcms-c.i

Sample Info: WG155562-3,TH0532

Operator: REC

Column phase: RTX-VMS Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.52
75	30.00 - 60.00% of mass 95	52.98
96	5.00 - 9.00% of mass 95	7.95
173	Less than 2.00% of mass 174	1.11 (1.45)
174	Greater than 50.00% of mass 95	76.56
175	5.00 - 9.00% of mass 174	5.85 (7.64)
176	95.00 - 101.00% of mass 174	76.80 (100.31)
177	5.00 - 9.00% of mass 176	4.97 (6.47)

Date : 12-DEC-2014 08:22

Client ID: Instrument: gcms-c.i

Sample Info: WG155562-3,TH0532

Operator: REC

Column phase: RTX-VMS Column diameter: 0.18

Data File: CB969.D
Spectrum: Avg. Scans 172-174 (3.57), Background Scan 166
Location of Maximum: 95.00
Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	215	60.00	77	80.00	165	119.00	94
37.00	1116	61.00	955	81.00	812	128.00	83
38.00	1119	62.00	1100	82.00	81	141.00	78
39.00	492	63.00	921	87.00	1121	143.00	183
40.00	193	67.00	87	88.00	700	173.00	235
44.00	429	68.00	2522	92.00	657	174.00	16261
45.00	151	69.00	2536	93.00	1269	175.00	1243
47.00	314	70.00	108	94.00	2711	176.00	16312
49.00	972	73.00	1045	95.00	21240	177.00	1056
50.00	4146	74.00	4062	96.00	1688		
51.00	1717	75.00	11254	104.00	230		
56.00	427	76.00	1128	115.00	84		
57.00	808	79.00	653	117.00	182		

Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\CB970.D

Date : 13-DEC-2014 08:13

Client ID:

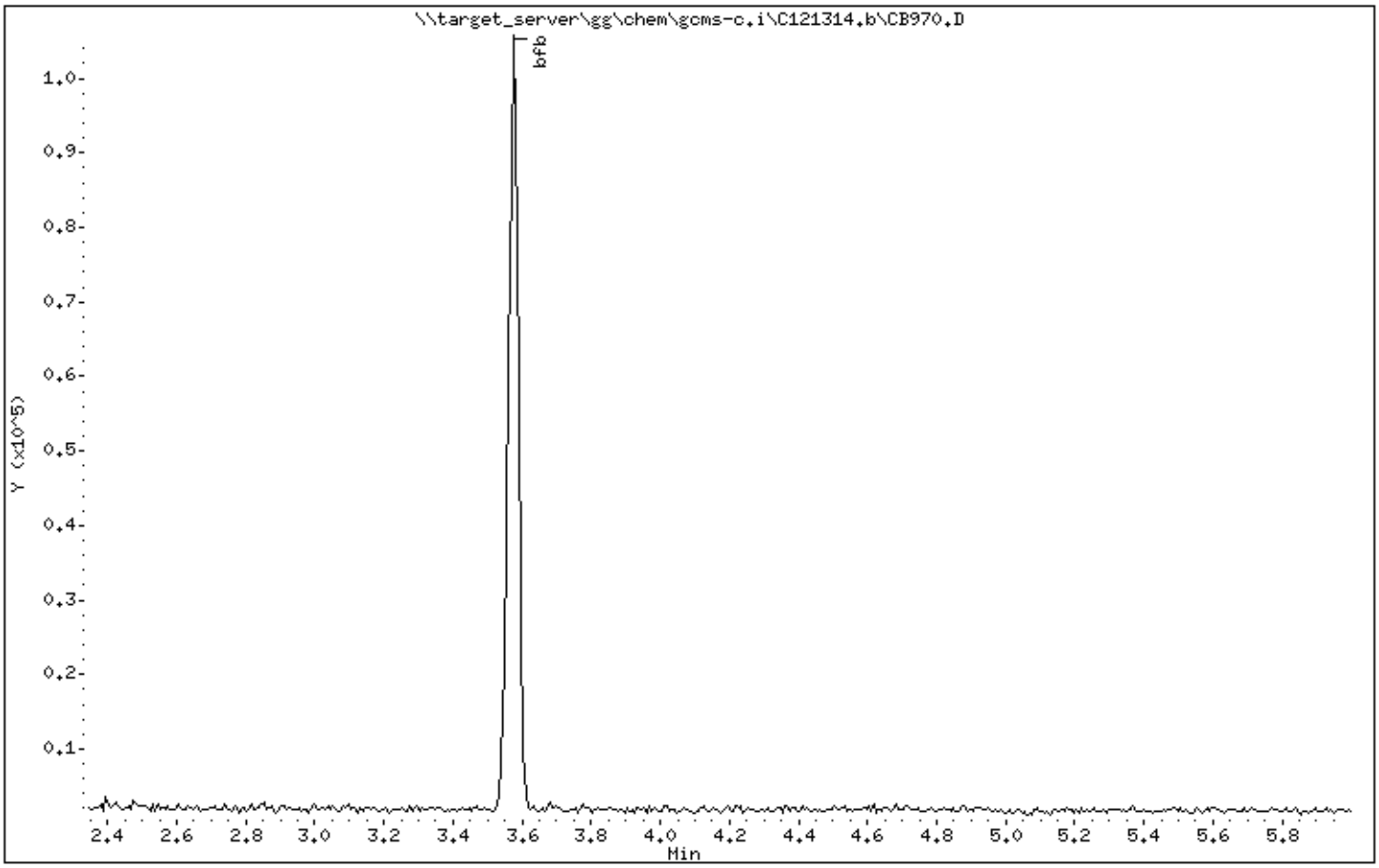
Instrument: gcms-c.i

Sample Info: WG155629-3,TH0532

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\CB970.D

Date : 13-DEC-2014 08:13

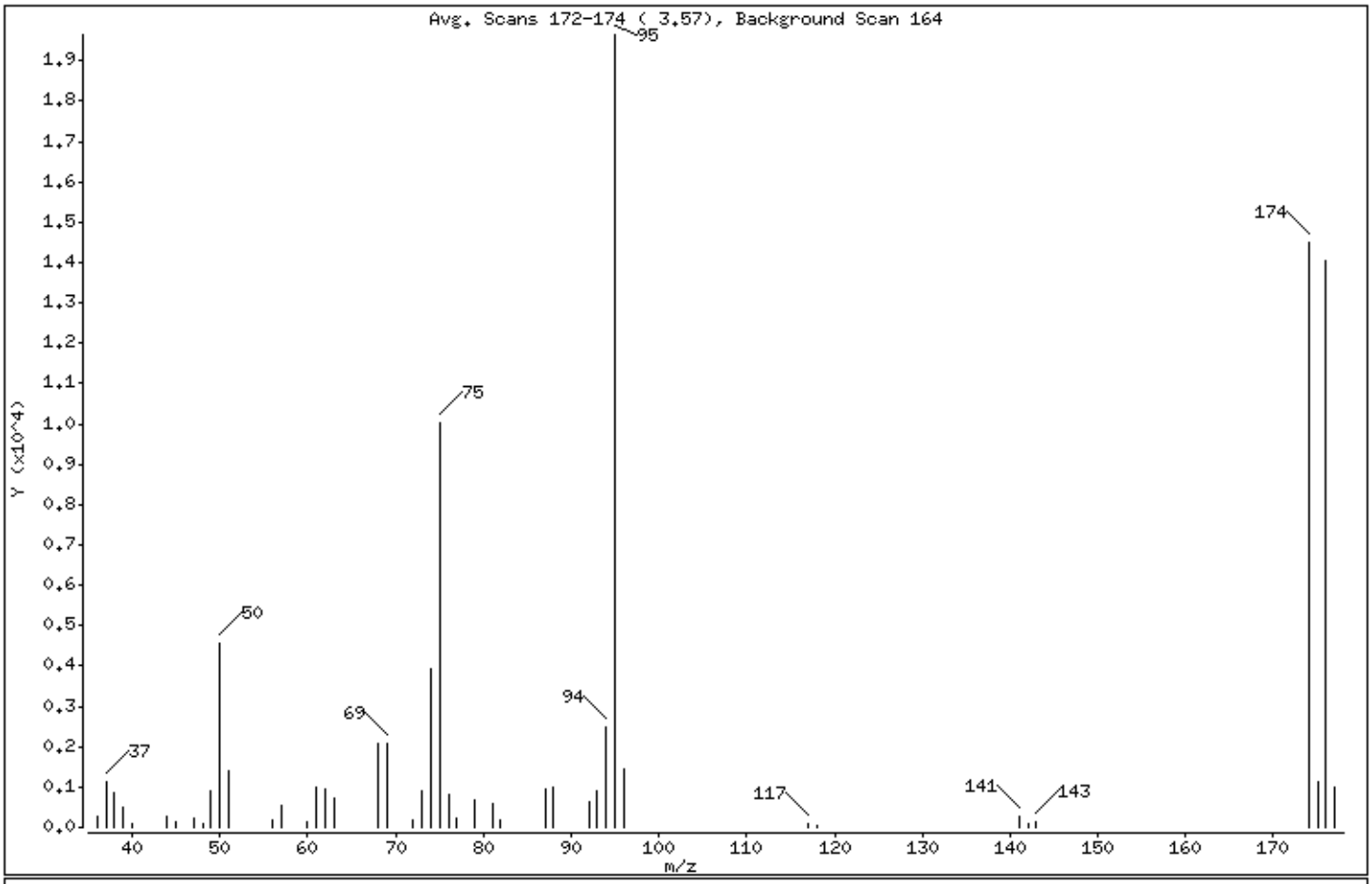
Client ID: Instrument: gcms-c.i

Sample Info: WG155629-3,TH0532

Operator: REC

Column phase: RTX-VMS Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.30
75	30.00 - 60.00% of mass 95	51.12
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	73.80
175	5.00 - 9.00% of mass 174	5.75 (7.79)
176	95.00 - 101.00% of mass 174	71.58 (96.99)
177	5.00 - 9.00% of mass 176	5.08 (7.10)

Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\CB970.D

Date : 13-DEC-2014 08:13

Client ID:

Instrument: gcms-c.i

Sample Info: WG155629-3,TH0532

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: CB970.D
Spectrum: Avg. Scans 172-174 (3.57), Background Scan 164
Location of Maximum: 95.00
Number of points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	254	56.00	195	76.00	834	117.00	110
37.00	1123	57.00	543	77.00	239	118.00	67
38.00	841	60.00	114	79.00	675	141.00	250
39.00	506	61.00	995	81.00	580	142.00	74
40.00	86	62.00	937	82.00	160	143.00	140
44.00	263	63.00	718	87.00	931	174.00	14500
45.00	134	68.00	2061	88.00	1013	175.00	1130
47.00	227	69.00	2100	92.00	637	176.00	14064
48.00	101	72.00	186	93.00	886	177.00	998
49.00	924	73.00	924	94.00	2462		
50.00	4578	74.00	3948	95.00	19648		
51.00	1382	75.00	10045	96.00	1454		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG155562-2
Client ID: Method Blank Sample
Project:
SDG: TH0532
Lab File ID: C0487.D

Sample Date:
Received Date:
Extract Date: 12-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155562

Analysis Date: 12-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50

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

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG155562-2
Client ID: Method Blank Sample
Project:
SDG: TH0532
Lab File ID: C0487.D

Sample Date:
Received Date:
Extract Date: 12-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155562

Analysis Date: 12-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		92.0	%					
Toluene-d8		96.8	%					
1,2-Dichloroethane-d4		98.4	%					
Dibromofluoromethane		99.0	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0487.D
Report Date: 15-Dec-2014 16:16

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C121214.b\C0487.D
Lab Smp Id: WG155562-2 Client Smp ID: WG155562-Blank
Inj Date : 12-DEC-2014 11:21 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG155562-2,TH0532
Misc Info : WG155562,WG154861-4,TH0532-3
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C121214.b\C826A26.m
Meth Date : 15-Dec-2014 16:14 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

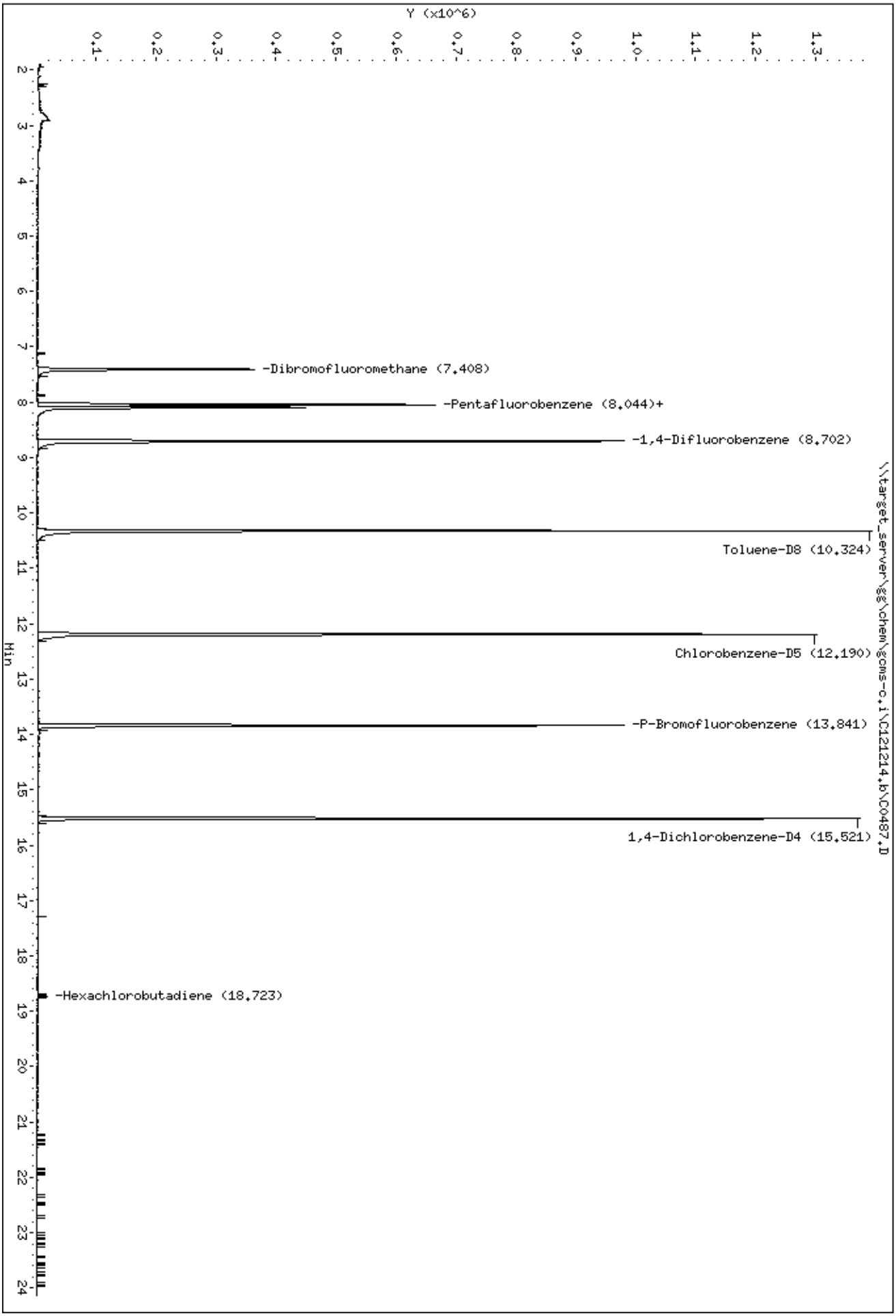
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.407	7.405	(0.921)	231490	49.4818	49.5	
* 42 Pentafluorobenzene	168	8.043	8.041	(1.000)	428707	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.094	8.090	(1.006)	291790	49.1992	49.2	
* 49 1,4-Difluorobenzene	114	8.701	8.706	(1.000)	731146	50.0000		
$ 55 Toluene-D8	98	10.324	10.322	(1.186)	814882	48.3949	48.4	
* 66 Chlorobenzene-D5	117	12.189	12.194	(1.000)	712489	50.0000		
$ 76 P-Bromofluorobenzene	95	13.840	13.838	(1.591)	334151	45.9911	46.0	
* 91 1,4-Dichlorobenzene-D4	152	15.520	15.518	(1.000)	372998	50.0000		
98 Hexachlorobutadiene	225	18.723	18.728	(1.206)	2539	0.61355	0.61(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Date : 12-DEC-2014 11:21
Client ID: WG155562-Blank
Sample Info: WG155562-2,TH0532
Instrument: gcms-c.i
\\target_server\gg\chem\gcms-c.i\C121214.b\C0487.D
Y (x10^6)
Min
-Dibromofluoromethane (7.408)
-Pentafluorobenzene (8.044)+
-1,4-Difluorobenzene (8.702)
Toluene-D8 (10.324)
Chlorobenzene-D5 (12.190)
-P-Bromofluorobenzene (13.841)
1,4-Dichlorobenzene-D4 (15.521)
-Hexachlorobutadiene (18.723)

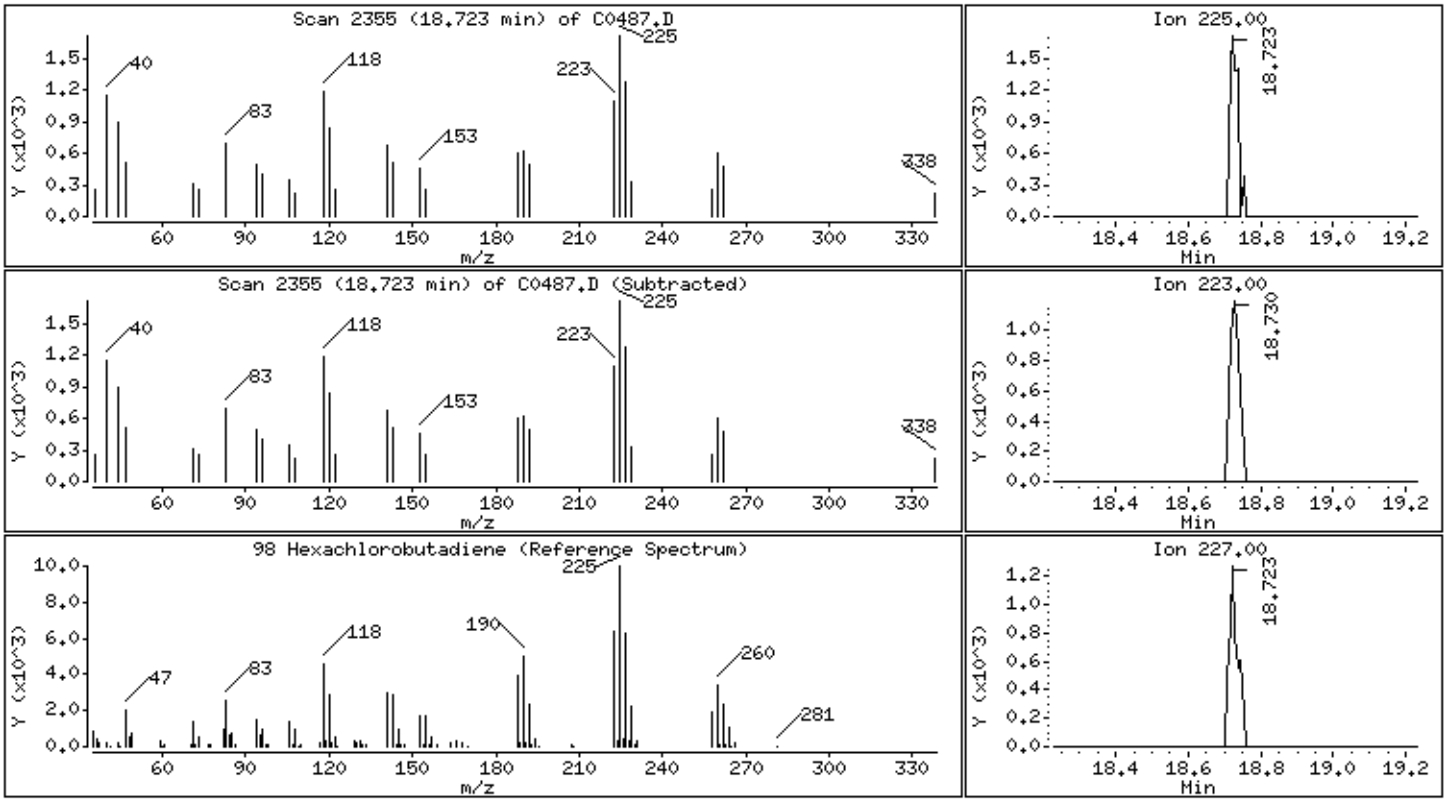
Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0487.D

Date : 12-DEC-2014 11:21

Client ID: WG155562-Blank Instrument: gcms-c.i

Sample Info: WG155562-2,TH0532

98 Hexachlorobutadiene Concentration: 0.61 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG155629-2
Client ID: Method Blank Sample
Project:
SDG: TH0532
Lab File ID: C0513.D

Sample Date:
Received Date:
Extract Date: 13-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155629

Analysis Date: 13-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG155629-2
Client ID: Method Blank Sample
Project:
SDG: TH0532
Lab File ID: C0513.D

Sample Date:
Received Date:
Extract Date: 13-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155629

Analysis Date: 13-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		94.4	%					
Toluene-d8		101.	%					
1,2-Dichloroethane-d4		107.	%					
Dibromofluoromethane		103.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0513.D
Report Date: 15-Dec-2014 16:38

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C121314.b\C0513.D
Lab Smp Id: WG155629-2 Client Smp ID: WG155629-Blank
Inj Date : 13-DEC-2014 11:12 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG155629-2,TH0532
Misc Info : WG155629,WG154861-4,TH0532-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C121314.b\C826A26.m
Meth Date : 15-Dec-2014 16:37 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

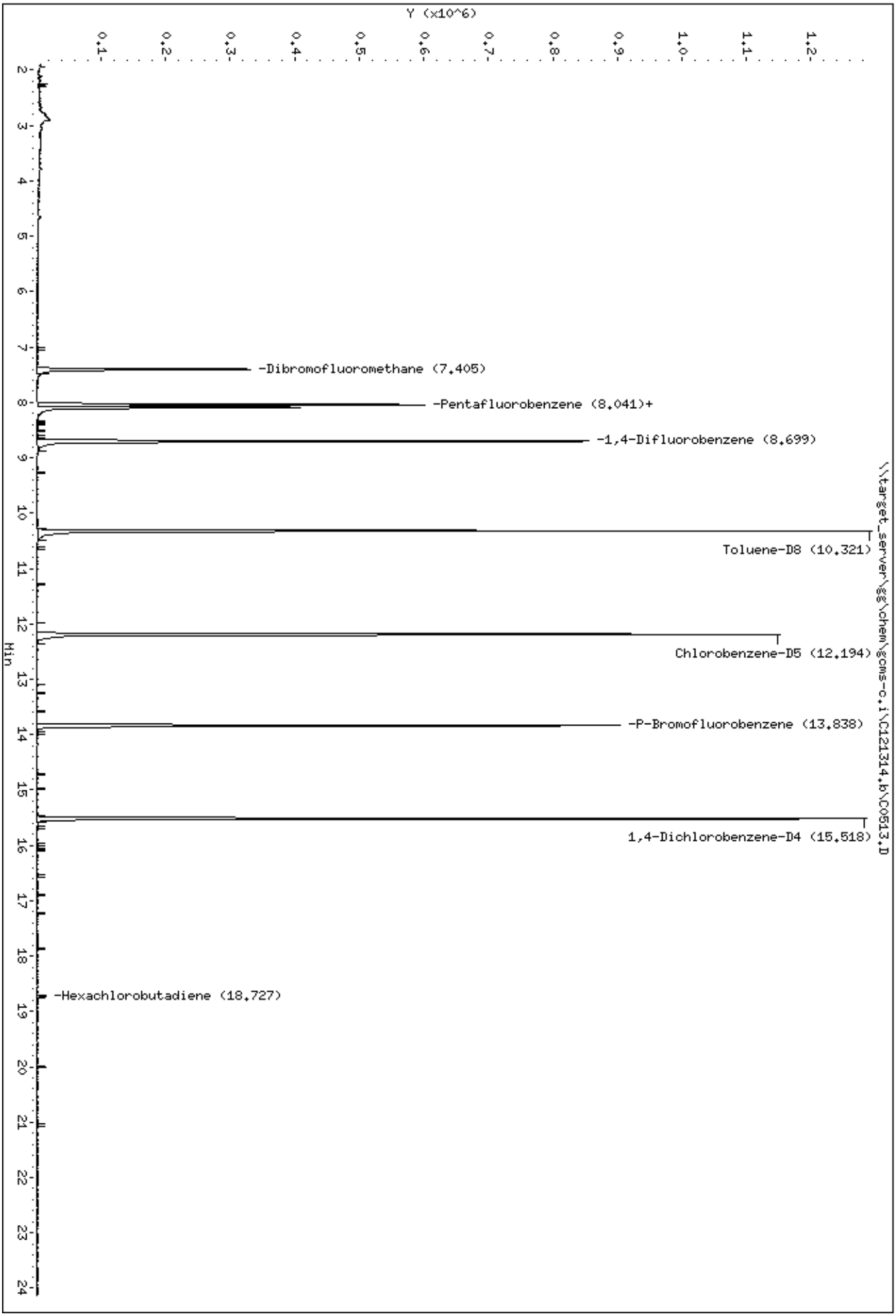
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.404	7.405	(0.921)	211346	51.5558	51.6	
* 42 Pentafluorobenzene	168	8.041	8.041	(1.000)	375656	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.091	8.090	(1.006)	277173	53.3346	53.3	
* 49 1,4-Difluorobenzene	114	8.705	8.706	(1.000)	640997	50.0000		
$ 55 Toluene-D8	98	10.321	10.322	(1.186)	746883	50.5947	50.6	
* 66 Chlorobenzene-D5	117	12.194	12.194	(1.000)	651304	50.0000		
$ 76 P-Bromofluorobenzene	95	13.838	13.838	(1.590)	300754	47.2162	47.2	
* 91 1,4-Dichlorobenzene-D4	152	15.517	15.518	(1.000)	342546	50.0000		
98 Hexachlorobutadiene	225	18.720	18.728	(1.206)	2930	0.77098	0.77(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Date : 13-DEC-2014 11:12
Client ID: WG155629-Blank
Sample Info: WG155629-2,TH0532
Instrument: gcms-c.i
\\target_server\gg\chem\gcms-c.i\C121314.b\C0513.D
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
-Dibromofluoromethane (7.405)
-Pentafluorobenzene (8.041)+
-1,4-Difluorobenzene (8.699)
Toluene-D8 (10.321)
Chlorobenzene-D5 (12.194)
-P-Bromofluorobenzene (13.838)
1,4-Dichlorobenzene-D4 (15.518)
-Hexachlorobutadiene (18.727)

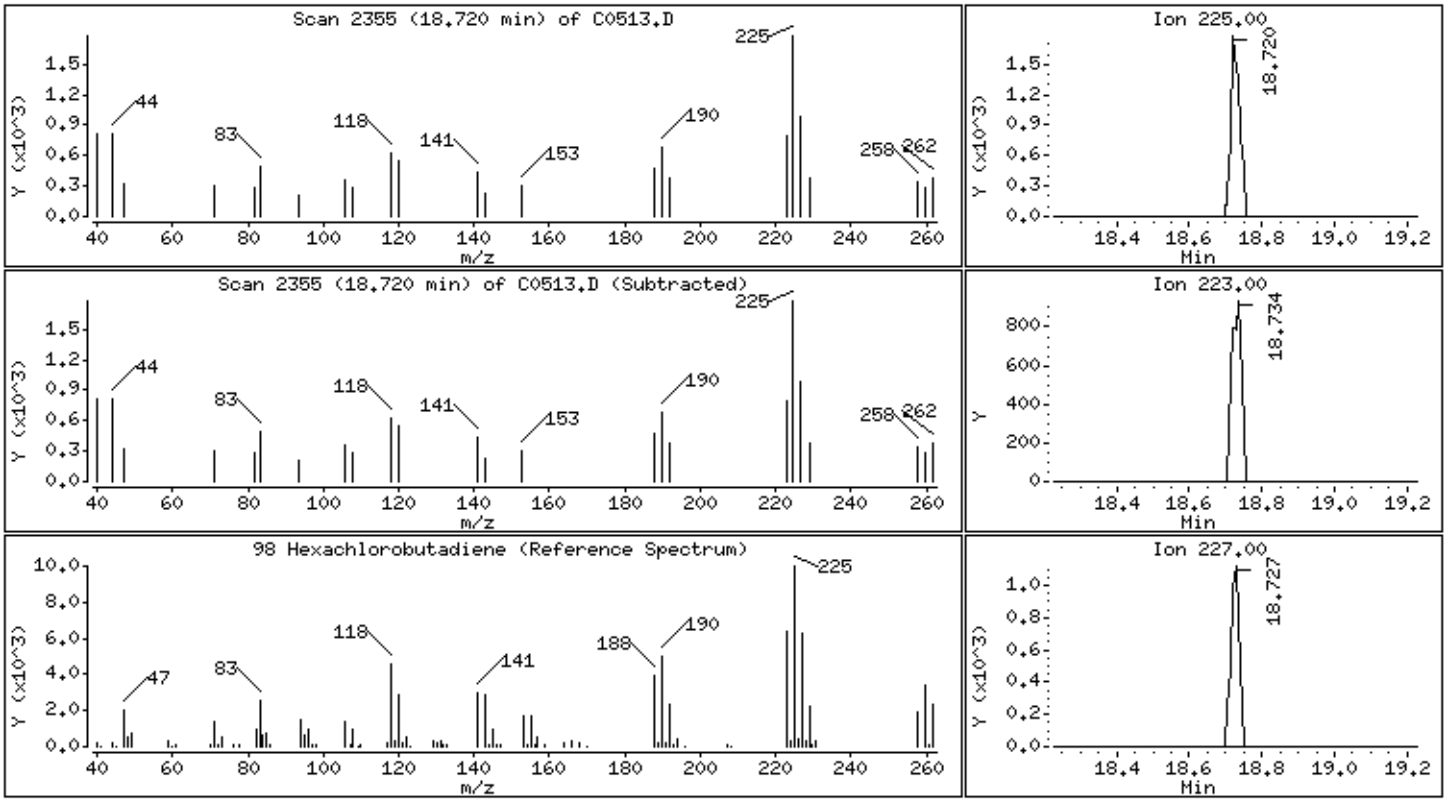
Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0513.D

Date : 13-DEC-2014 11:12

Client ID: WG155629-Blank Instrument: gcms-c.i

Sample Info: WG155629-2,TH0532

98 Hexachlorobutadiene Concentration: 0.77 ug/l



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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG155562-1
Client ID: LCS
Project:
SDG: TH0532
LCS File ID: C0484.D

Sample Date:
Received Date:
Extract Date: 12-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155562

Analysis Date: 12-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	114.	50.0	57.1	ug/L	30-155
Chloromethane	104.	50.0	51.9	ug/L	40-125
Vinyl Chloride	101.	50.0	50.3	ug/L	50-145
Bromomethane	92.6	50.0	46.3	ug/L	30-145
Chloroethane	89.8	50.0	44.9	ug/L	60-135
Trichlorofluoromethane	86.8	50.0	43.4	ug/L	60-145
1,1-Dichloroethene	96.0	50.0	48.0	ug/L	70-130
Carbon Disulfide	120.	50.0	59.9	ug/L	35-160
Freon-113	89.4	50.0	44.7	ug/L	73-126
Methylene Chloride	96.8	50.0	48.4	ug/L	55-140
Acetone	133.	50.0	66.4	ug/L	40-140
trans-1,2-Dichloroethene	96.2	50.0	48.1	ug/L	60-140
Methyl tert-butyl Ether	101.	100.	101.	ug/L	65-125
1,1-Dichloroethane	96.2	50.0	48.1	ug/L	70-135
cis-1,2-Dichloroethene	93.6	50.0	46.8	ug/L	70-125
Chloroform	95.0	50.0	47.5	ug/L	65-135
1,1,1-Trichloroethane	101.	50.0	50.7	ug/L	65-130
2-Butanone	114.	50.0	56.9	ug/L	30-150
Cyclohexane	101.	50.0	50.3	ug/L	71-133
Carbon Tetrachloride	105.	50.0	52.6	ug/L	65-140
Benzene	99.4	50.0	49.7	ug/L	80-120
1,2-Dichloroethane	93.4	50.0	46.7	ug/L	70-130
Trichloroethene	93.6	50.0	46.8	ug/L	70-125
1,2-Dichloropropane	100.	50.0	50.1	ug/L	75-125
Bromodichloromethane	103.	50.0	51.5	ug/L	75-120
cis-1,3-Dichloropropene	98.8	50.0	49.4	ug/L	70-130
Toluene	101.	50.0	50.3	ug/L	75-120
4-Methyl-2-Pentanone	97.2	50.0	48.6	ug/L	60-135
trans-1,3-Dichloropropene	103.	50.0	51.5	ug/L	55-140
1,1,2-Trichloroethane	95.2	50.0	47.6	ug/L	75-125
Tetrachloroethene	97.6	50.0	48.8	ug/L	45-150
Dibromochloromethane	102.	50.0	51.0	ug/L	60-135
2-Hexanone	98.4	50.0	49.2	ug/L	55-130
Chlorobenzene	92.4	50.0	46.2	ug/L	80-120
Ethylbenzene	98.4	50.0	49.2	ug/L	75-125

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG155562-1
Client ID: LCS
Project:
SDG: TH0532
LCS File ID: C0484.D

Sample Date:
Received Date:
Extract Date: 12-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155562

Analysis Date: 12-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Xylenes (total)	100.	150.	150.	ug/L	89-116
Styrene	108.	50.0	53.9	ug/L	65-135
Bromoform	90.8	50.0	45.4	ug/L	70-130
Isopropylbenzene	98.6	50.0	49.3	ug/L	75-125
1,1,2,2-Tetrachloroethane	91.6	50.0	45.8	ug/L	65-130
1,3-Dichlorobenzene	90.4	50.0	45.2	ug/L	75-125
1,4-Dichlorobenzene	90.0	50.0	45.0	ug/L	75-125
1,2-Dichlorobenzene	92.2	50.0	46.1	ug/L	70-120
1,2,4-Trichlorobenzene	98.0	50.0	49.0	ug/L	65-135
Methyl Acetate	95.2	50.0	47.6	ug/L	70-132
Methylcyclohexane	96.0	50.0	48.0	ug/L	73-125
o-Xylene	100.	50.0	50.2	ug/L	80-120
M+P-Xylenes	99.6	100.	99.6	ug/L	75-130
1,2-Dichloroethylene (Total)	94.8	100.	94.8	ug/L	84-121
1,2-Dibromoethane	96.6	50.0	48.3	ug/L	80-120
1,2-Dibromo-3-Chloropropane	96.0	50.0	48.0	ug/L	50-130
P-Bromofluorobenzene	96.1				75-120
Toluene-d8	97.0				85-120
1,2-Dichloroethane-d4	88.2				70-120
Dibromofluoromethane	92.5				85-115

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Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0484.D
Report Date: 15-Dec-2014 16:16

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C121214.b\C0484.D
Lab Smp Id: WG155562-1 Client Smp ID: WG155562-LCS
Inj Date : 12-DEC-2014 09:34 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG155562-1,TH0532
Misc Info : WG155562,WG154861-4,TH0532-3
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C121214.b\C826A26.m
Meth Date : 15-Dec-2014 16:14 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

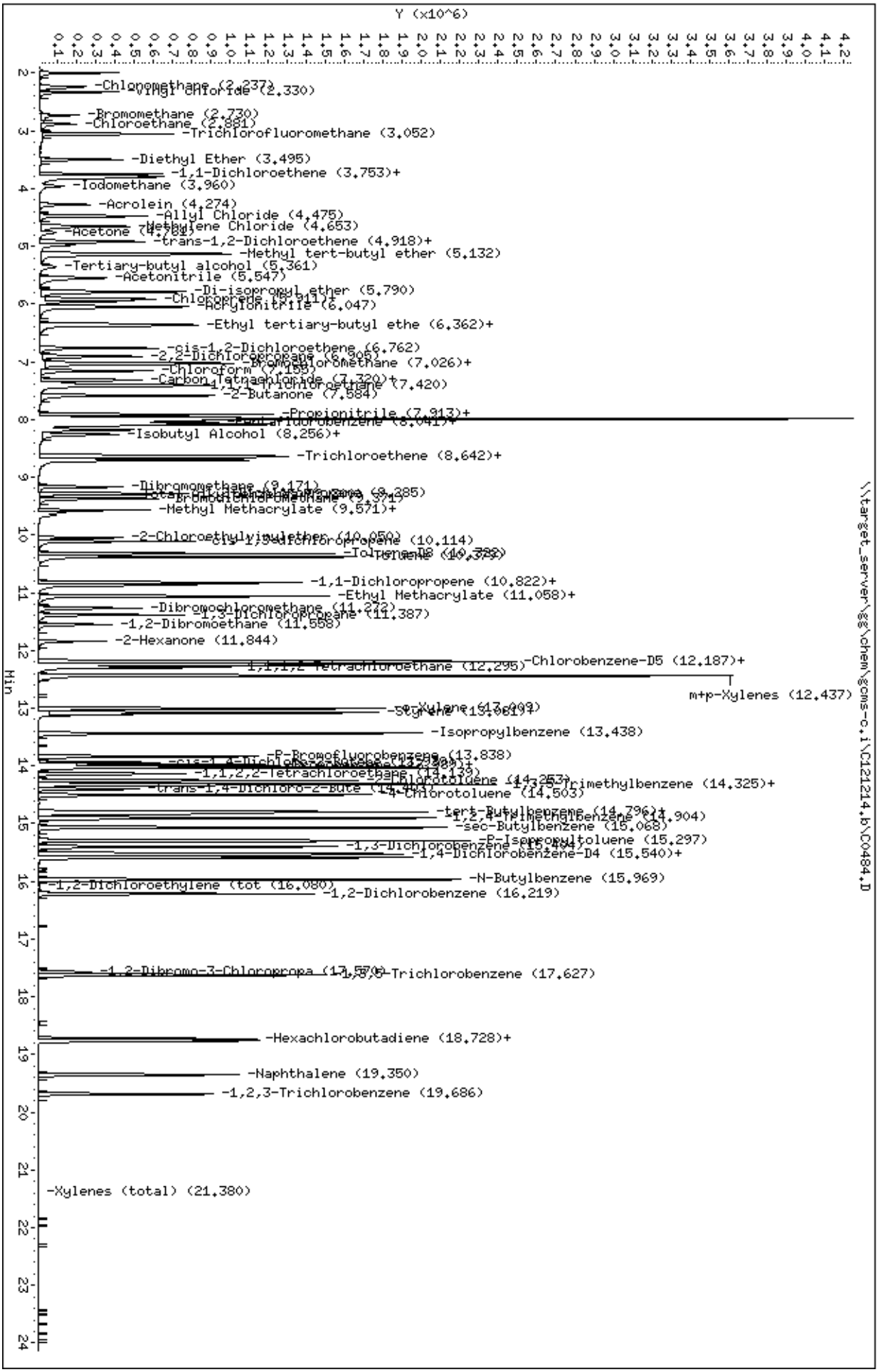
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.994	1.994	(0.248)	379697	57.1288	57.1	
2 Chloromethane	50	2.230	2.230	(0.277)	434180	51.8627	51.9	
3 Vinyl chloride	62	2.330	2.330	(0.290)	359758	50.2921	50.3	
4 Bromomethane	94	2.730	2.730	(0.340)	141843	46.3018	46.3	
5 Chloroethane	64	2.880	2.880	(0.358)	135816	44.8679	44.9	
6 Trichlorofluoromethane	101	3.052	3.059	(0.380)	516753	43.4083	43.4	
7 Diethyl Ether	59	3.495	3.488	(0.435)	232404	43.6643	43.7	
8 Tertiary-butyl alcohol	59	5.360	5.347	(0.667)	137990	230.888	231	
9 1,1-Dichloroethene	96	3.752	3.753	(0.467)	226962	47.9780	48.0	
10 Carbon Disulfide	76	3.788	3.788	(0.471)	860113	59.9255	59.9	
11 Freon-113	151	3.809	3.817	(0.474)	154829	44.7247	44.7	
12 Iodomethane	142	3.959	3.967	(0.492)	185783	64.7498	64.7	
13 Acrolein	56	4.274	4.274	(0.532)	284218	231.703	232	
14 Methylene Chloride	84	4.653	4.653	(0.579)	289221	48.4345	48.4	
15 Acetone	43	4.760	4.753	(0.592)	164978	66.3957	66.4	
16 Isobutyl Alcohol	43	8.255	8.256	(1.027)	281970	851.653	852	
17 trans-1,2-Dichloroethene	96	4.917	4.925	(0.612)	264059	48.0847	48.1	
18 Allyl Chloride	41	4.474	4.482	(0.556)	429420	46.4567	46.4	
19 Methyl tert-butyl ether	73	5.132	5.132	(0.638)	1300777	100.741	101	
20 Acetonitrile	39	5.546	5.540	(0.690)	119556	465.922	466	
21 Di-isopropyl ether	45	5.789	5.790	(0.720)	913090	49.3938	49.4	
22 Chloroprene	53	5.911	5.918	(0.735)	424378	47.7628	47.8	
23 Propionitrile	54	7.969	7.970	(0.991)	590085	475.263	475	
24 Methacrylonitrile	41	7.991	7.991	(0.994)	2036799	451.275	451	

Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0484.D
Report Date: 15-Dec-2014 16:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.954	5.954	(0.740)	492546	48.1269	48.1	
	26 Acrylonitrile	52	6.047	6.047	(0.752)	616591	234.109	234	
	27 Ethyl tertiary-butyl ether	59	6.354	6.354	(0.790)	734189	49.0879	49.1	
	28 Vinyl Acetate	43	6.375	6.376	(0.732)	697606	50.3902	50.4	
	29 cis-1,2-Dichloroethene	96	6.761	6.762	(0.841)	288044	46.7638	46.8	
M	30 1,2-Dichloroethylene (total)	96				552103	94.8485	94.8	
	31 Methyl Methacrylate	41	9.571	9.571	(1.099)	279345	44.9595	45.0	
	32 2,2-Dichloropropane	77	6.912	6.912	(0.860)	394708	53.9810	54.0	
	33 Bromochloromethane	128	7.040	7.041	(0.876)	121682	43.8889	43.9	
	34 Chloroform	83	7.155	7.162	(0.890)	492731	47.4958	47.5	
	35 Carbon Tetrachloride	117	7.319	7.319	(0.841)	363129	52.5699	52.6	
	36 Tetrahydrofuran	42	7.369	7.362	(0.916)	106220	49.1459	49.1	
$	37 Dibromofluoromethane	113	7.405	7.405	(0.921)	254650	46.2531	46.2	
	38 1,1,1-Trichloroethane	97	7.419	7.419	(0.923)	444540	50.6877	50.7	
	39 1,1-Dichloropropene	75	10.872	10.872	(1.249)	392843	51.4721	51.5	
	40 2-Butanone	43	7.591	7.584	(0.944)	196284	56.9282	56.9	
	41 Benzene	78	7.912	7.913	(0.909)	1085984	49.7454	49.7	
*	42 Pentafluorobenzene	168	8.041	8.041	(1.000)	504518	50.0000		
	43 Cyclohexane	56	7.026	7.026	(0.874)	453362	50.3033	50.3	
	44 Ethyl Methacrylate	69	11.057	11.058	(1.270)	350814	43.8141	43.8	
$	45 1,2-Dichloroethane-D4	65	8.091	8.090	(1.006)	307663	44.0805	44.1	
	46 Tertiary-amyl methyl ether	73	8.084	8.084	(1.005)	618687	48.9238	48.9	
	47 1,2-Dichloroethane	62	8.177	8.177	(0.939)	369830	46.6961	46.7	
	48 Trichloroethene	95	8.656	8.656	(0.994)	262817	46.8295	46.8	
*	49 1,4-Difluorobenzene	114	8.706	8.706	(1.000)	813797	50.0000		
	50 Dibromomethane	93	9.163	9.164	(1.053)	170381	45.7193	45.7	
	51 1,2-Dichloropropane	63	9.285	9.285	(1.067)	277280	50.0937	50.1	
	52 Bromodichloromethane	83	9.370	9.371	(1.076)	386151	51.4709	51.5	
	53 cis-1,3-dichloropropene	75	10.114	10.114	(1.162)	431041	49.4244	49.4	
	54 1,4-Dioxane	88	9.614	9.614	(1.104)	96364	899.444	899	
$	55 Toluene-D8	98	10.321	10.322	(1.186)	909283	48.5167	48.5	
	56 2-Chloroethylvinylether	63	10.050	10.050	(1.154)	170316	44.0387	44.0	
	57 Toluene	92	10.378	10.379	(1.192)	687999	50.2748	50.3	
	58 4-methyl-2-pentanone	43	10.829	10.829	(1.244)	326036	48.5800	48.6	
	59 Tetrachloroethene	164	10.822	10.822	(0.887)	248290	48.8544	48.8	
	60 trans-1,3-Dichloropropene	75	10.872	10.872	(1.249)	392843	51.4721	51.5	
	61 1,1,2-Trichloroethane	83	11.057	11.058	(1.270)	214592	47.6296	47.6	
	62 Dibromochloromethane	129	11.272	11.272	(0.924)	286702	51.0596	51.0	
	63 1,3-Dichloropropane	76	11.386	11.387	(0.934)	437660	49.1984	49.2	
	64 1,2-Dibromoethane	107	11.558	11.551	(1.328)	270352	48.2799	48.3	
	65 2-Hexanone	43	11.844	11.837	(0.971)	251417	49.2250	49.2	
*	66 Chlorobenzene-D5	117	12.194	12.194	(1.000)	818201	50.0000		
	67 Chlorobenzene	112	12.215	12.216	(1.002)	771931	46.1643	46.2	
	152 1-Chlorohexane	91	12.187	12.187	(0.999)	368578	40.2076	40.2	
	68 Ethylbenzene	106	12.251	12.251	(1.005)	426305	49.1571	49.2	
	69 1,1,1,2-Tetrachloroethane	131	12.294	12.294	(1.008)	281270	50.9018	50.9	
M	70 Xylenes (total)	106				1587786	149.850	150	
	71 m+p-Xylenes	106	12.437	12.437	(1.020)	1062129	99.6283	99.6	
	72 o-Xylene	106	13.009	13.009	(1.067)	525657	50.2216	50.2	
	73 Styrene	104	13.080	13.081	(1.073)	856803	53.9296	53.9	
	74 Bromoform	173	13.116	13.116	(1.076)	197482	45.4219	45.4	
	75 Isopropylbenzene	105	13.438	13.438	(0.866)	1369331	49.2729	49.3	
$	76 P-Bromofluorobenzene	95	13.838	13.838	(1.589)	388581	48.0508	48.0	
	77 cis-1,4-Dichloro-2-Butene	53	13.938	13.938	(0.898)	146313	47.0039	47.0	

Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0484.D
Report Date: 15-Dec-2014 16:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.403	14.403	(0.928)	120617	46.9433	46.9	
	79 Bromobenzene	156	13.988	13.988	(0.901)	355544	47.4233	47.4	
	80 N-Propylbenzene	91	14.031	14.031	(0.904)	1713111	49.2169	49.2	
	81 1,1,2,2-Tetrachloroethane	83	14.138	14.139	(0.911)	404051	45.7827	45.8	
	82 1,3,5-Trimethylbenzene	105	14.317	14.317	(0.923)	1191753	49.4049	49.4	
	83 2-Chlorotoluene	91	14.253	14.253	(0.918)	1012278	47.1180	47.1	
	84 1,2,3-Trichloropropane	75	14.331	14.332	(0.924)	334694	47.8478	47.8	
	85 4-Chlorotoluene	91	14.503	14.503	(0.935)	1061057	47.5965	47.6	
	86 tert-Butylbenzene	119	14.796	14.796	(0.953)	1242820	48.4933	48.5	
	87 Pentachloroethane	117	14.824	14.825	(0.955)	267939	46.8718	46.9	
	88 1,2,4-Trimethylbenzene	105	14.903	14.903	(0.960)	1203105	51.2390	51.2	
	89 P-Isopropyltoluene	119	15.296	15.297	(0.986)	1377023	52.5259	52.5	
	90 1,3-Dichlorobenzene	146	15.403	15.404	(0.993)	690641	45.1623	45.2	
*	91 1,4-Dichlorobenzene-D4	152	15.518	15.518	(1.000)	464819	50.0000		
	92 1,4-Dichlorobenzene	146	15.546	15.547	(1.002)	698293	44.9604	45.0	
	93 N-Butylbenzene	91	15.968	15.968	(1.029)	1357728	52.5528	52.6	
	94 sec-Butylbenzene	105	15.067	15.068	(0.971)	1634532	48.9934	49.0	
	95 1,2-Dichlorobenzene	146	16.218	16.219	(1.045)	638113	46.1413	46.1	
	96 1,2-Dibromo-3-Chloropropane	75	17.569	17.570	(1.132)	78675	48.0413	48.0	
	97 1,3,5-Trichlorobenzene	180	17.626	17.627	(1.136)	530635	46.0684	46.1	
	98 Hexachlorobutadiene	225	18.727	18.728	(1.207)	240230	46.5842	46.6	
	99 1,2,4-Trichlorobenzene	180	18.763	18.763	(1.209)	395136	48.9721	49.0	
	100 1,2,3-Trimethylbenzene	105	15.589	15.590	(1.005)	1196313	47.3537	47.4	
	101 Naphthalene	128	19.349	19.349	(1.247)	933859	50.8233	50.8	
	102 1,2,3-Trichlorobenzene	180	19.685	19.685	(1.269)	313506	49.0076	49.0	
	103 Methyl Acetate	43	4.974	4.975	(0.619)	287509	47.5509	47.6	
	104 Methylcyclohexane	83	8.634	8.635	(1.074)	469257	47.9656	48.0	
M	153 Total Alkylbenzenes	100				9720072	352.426	352	


Data File: \\target_server\gg\chem\gcms-c.i\C121214.b\C0484.D
Date : 12-DEC-2014 09:34
Client ID: WG155562-LCS
Sample Info: WG155562-1,TH0532
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C121214.b\C0484.D
Y (x10^6)
Min
-Chloromethane (2.237)
-Vinyl Chloride (2.330)
-Bromomethane (2.730)
-Chloroethane (2.881)
-Trichlorofluoromethane (3.052)
-Diethyl Ether (3.495)
-1,1-Dichloroethene (3.753)+
-Iodomethane (3.960)
-Acrolein (4.274)
-Allyl Chloride (4.475)
-Methylene Chloride (4.653)
-Acetone (4.781)
-trans-1,2-Dichloroethene (4.918)+
-Methyl tert-butyl ether (5.132)
-Tertiary-butyl alcohol (5.361)
-Acetonitrile (5.547)
-Di-isopropyl ether (5.790)
-Chloroprene (5.911)+
-Acrylonitrile (6.047)
-Ethyl tertiary-butyl ethe (6.362)+
-cis-1,2-Dichloroethene (6.762)
-2,2-Dichloropropane (6.905)
-Bromochloromethane (7.026)+
-Chloroform (7.155)
-Carbon tetrachloride (7.320)+
-1,1,1-Trichloroethane (7.420)
-2-Butanone (7.584)
-Propionitrile (7.913)+
-Pentafluorobenzene (8.041)+
-Isobutyl Alcohol (8.256)+
-Trichloroethene (8.642)+
-Dibromomethane (9.171)
-Bromodichloromethane (9.371)
-Methyl Methacrylate (9.571)+
-2-Chloroethylvinylether (10.050)
cis-1,3-dichloropropene (10.114)
-Toluene-D8 (10.322)
Toluene (10.375)
-1,1-Dichloropropene (10.822)+
-Ethyl Methacrylate (11.058)+
-Dibromochloromethane (11.272)
-1,3-Dichloropropane (11.387)
-1,2-Dibromoethane (11.558)
-2-Hexanone (11.844)
-Chlorobenzene-D5 (12.187)+
1,1,1,2-Tetrachloroethane (12.295)
m+p-Xylenes (12.437)
-o-Xylene (13.099)
-Styrene (13.0617)
-Isopropylbenzene (13.438)
-P-Bromofluorobenzene (13.838)
-1,1,2,2-Tetrachloroethane (14.139)
-2-Chlorotoluene (14.253)
-1,3,5-Trimethylbenzene (14.325)+
-trans-1,4-Dichloro-2-Bute
-4-Chlorotoluene (14.503)
-tert-Butylbenzene (14.796)+
-1,2,4-Trimethylbenzene (14.904)
-sec-Butylbenzene (15.068)
-P-Isopropyltoluene (15.297)
-1,3-Dichlorobenzene (15.464)
-1,4-Dichlorobenzene-D4 (15.540)+
-N-Butylbenzene (15.969)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.219)
-1,2-Dibromo-3-Chloropropa (17.570)
-1,3,5-Trichlorobenzene (17.627)
-Hexachlorobutadiene (18.728)+
-Naphthalene (19.350)
-1,2,3-Trichlorobenzene (19.686)
-Xylenes (total) (21.380)

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG155629-1
Client ID: LCS
Project:
SDG: TH0532
LCS File ID: C0510.D

Sample Date:
Received Date:
Extract Date: 13-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155629

Analysis Date: 13-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	95.8	50.0	47.9	ug/L	30-155
Chloromethane	98.0	50.0	49.0	ug/L	40-125
Vinyl Chloride	98.4	50.0	49.2	ug/L	50-145
Bromomethane	97.2	50.0	48.6	ug/L	30-145
Chloroethane	95.0	50.0	47.5	ug/L	60-135
Trichlorofluoromethane	87.6	50.0	43.8	ug/L	60-145
1,1-Dichloroethene	97.0	50.0	48.5	ug/L	70-130
Carbon Disulfide	120.	50.0	59.8	ug/L	35-160
Freon-113	105.	50.0	52.6	ug/L	73-126
Methylene Chloride	98.0	50.0	49.0	ug/L	55-140
Acetone	99.6	50.0	49.8	ug/L	40-140
trans-1,2-Dichloroethene	94.2	50.0	47.1	ug/L	60-140
Methyl tert-butyl Ether	106.	100.	106.	ug/L	65-125
1,1-Dichloroethane	99.2	50.0	49.6	ug/L	70-135
cis-1,2-Dichloroethene	93.8	50.0	46.9	ug/L	70-125
Chloroform	97.0	50.0	48.5	ug/L	65-135
1,1,1-Trichloroethane	102.	50.0	50.9	ug/L	65-130
2-Butanone	101.	50.0	50.3	ug/L	30-150
Cyclohexane	98.4	50.0	49.2	ug/L	71-133
Carbon Tetrachloride	106.	50.0	52.8	ug/L	65-140
Benzene	98.2	50.0	49.1	ug/L	80-120
1,2-Dichloroethane	97.0	50.0	48.5	ug/L	70-130
Trichloroethene	96.0	50.0	48.0	ug/L	70-125
1,2-Dichloropropane	98.8	50.0	49.4	ug/L	75-125
Bromodichloromethane	103.	50.0	51.6	ug/L	75-120
cis-1,3-Dichloropropene	99.8	50.0	49.9	ug/L	70-130
Toluene	99.6	50.0	49.8	ug/L	75-120
4-Methyl-2-Pentanone	95.0	50.0	47.5	ug/L	60-135
trans-1,3-Dichloropropene	103.	50.0	51.3	ug/L	55-140
1,1,2-Trichloroethane	97.8	50.0	48.9	ug/L	75-125
Tetrachloroethene	92.6	50.0	46.3	ug/L	45-150
Dibromochloromethane	104.	50.0	52.2	ug/L	60-135
2-Hexanone	91.6	50.0	45.8	ug/L	55-130
Chlorobenzene	92.8	50.0	46.4	ug/L	80-120
Ethylbenzene	97.8	50.0	48.9	ug/L	75-125

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG155629-1
Client ID: LCS
Project:
SDG: TH0532
LCS File ID: C0510.D

Sample Date:
Received Date:
Extract Date: 13-DEC-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG155629

Analysis Date: 13-DEC-14
Analyst: REC
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 15-DEC-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Xylenes (total)	99.3	150.	149.	ug/L	89-116
Styrene	108.	50.0	54.0	ug/L	65-135
Bromoform	90.8	50.0	45.4	ug/L	70-130
Isopropylbenzene	98.4	50.0	49.2	ug/L	75-125
1,1,2,2-Tetrachloroethane	93.6	50.0	46.8	ug/L	65-130
1,3-Dichlorobenzene	92.2	50.0	46.1	ug/L	75-125
1,4-Dichlorobenzene	89.6	50.0	44.8	ug/L	75-125
1,2-Dichlorobenzene	93.0	50.0	46.5	ug/L	70-120
1,2,4-Trichlorobenzene	97.4	50.0	48.7	ug/L	65-135
Methyl Acetate	96.4	50.0	48.2	ug/L	70-132
Methylcyclohexane	104.	50.0	52.1	ug/L	73-125
o-Xylene	100.	50.0	50.0	ug/L	80-120
M+P-Xylenes	99.3	100.	99.3	ug/L	75-130
1,2-Dichloroethylene (Total)	94.0	100.	94.0	ug/L	84-121
1,2-Dibromoethane	97.2	50.0	48.6	ug/L	80-120
1,2-Dibromo-3-Chloropropane	91.0	50.0	45.5	ug/L	50-130
P-Bromofluorobenzene	96.7				75-120
Toluene-d8	97.2				85-120
1,2-Dichloroethane-d4	90.4				70-120
Dibromofluoromethane	93.8				85-115

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Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0510.D
Report Date: 15-Dec-2014 16:38

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C121314.b\C0510.D
Lab Smp Id: WG155629-1 Client Smp ID: WG155629-LCS
Inj Date : 13-DEC-2014 09:21 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG155629-1,TH0532
Misc Info : WG155629,WG154861-4,TH0532-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C121314.b\C826A26.m
Meth Date : 15-Dec-2014 16:37 gcms-c.i Quant Type: ISTD
Cal Date : 26-NOV-2014 14:53 Cal File: C0223.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

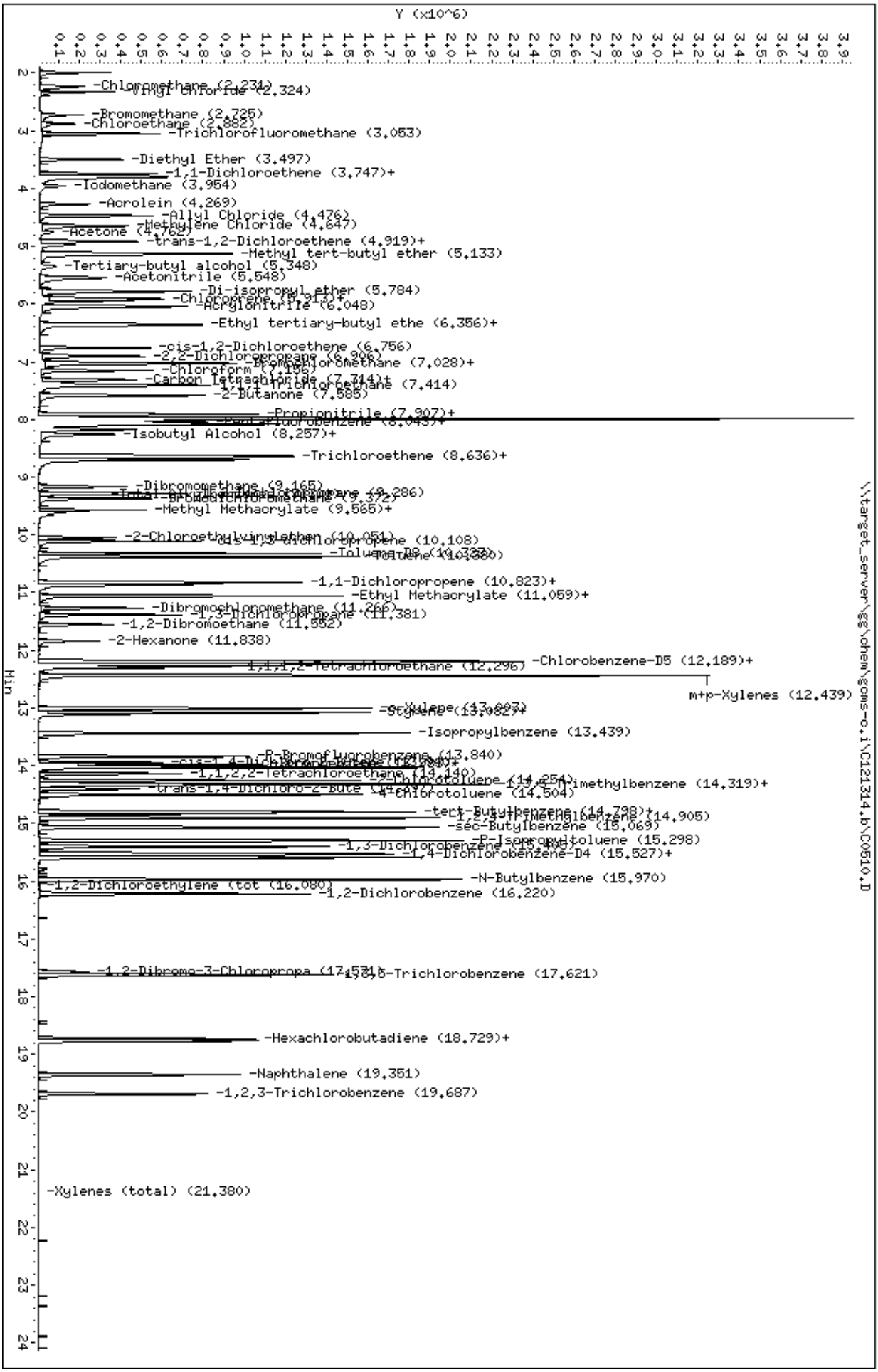
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.988	1.994	(0.247)	285278	47.8662	47.9	
2 Chloromethane	50	2.231	2.230	(0.277)	368962	49.0382	49.0	
3 Vinyl chloride	62	2.324	2.330	(0.289)	315463	49.1791	49.2	
4 Bromomethane	94	2.724	2.730	(0.339)	133617	48.5977	48.6	
5 Chloroethane	64	2.881	2.880	(0.358)	128432	47.5039	47.5	
6 Trichlorofluoromethane	101	3.046	3.059	(0.379)	467691	43.8118	43.8	
7 Diethyl Ether	59	3.496	3.488	(0.435)	214053	44.8484	44.8	
8 Tertiary-butyl alcohol	59	5.347	5.347	(0.665)	120407	225.076	225	
9 1,1-Dichloroethene	96	3.746	3.753	(0.466)	205607	48.4696	48.5	
10 Carbon Disulfide	76	3.782	3.788	(0.470)	770433	59.8587	59.8	
11 Freon-113	151	3.811	3.817	(0.474)	163358	52.6233	52.6	
12 Iodomethane	142	3.954	3.967	(0.492)	173035	67.2526	67.2	
13 Acrolein	56	4.268	4.274	(0.531)	262757	238.879	239	
14 Methylene Chloride	84	4.647	4.653	(0.578)	262509	49.0328	49.0	
15 Acetone	43	4.761	4.753	(0.592)	110889	49.7674	49.8	
16 Isobutyl Alcohol	43	8.257	8.256	(1.027)	257506	866.290	866	
17 trans-1,2-Dichloroethene	96	4.919	4.925	(0.612)	232013	47.1152	47.1	
18 Allyl Chloride	41	4.475	4.482	(0.556)	443438	53.4985	53.5	
19 Methyl tert-butyl ether	73	5.133	5.132	(0.638)	1223971	105.710	106	
20 Acetonitrile	39	5.540	5.540	(0.689)	116755	506.142	506	
21 Di-isopropyl ether	45	5.783	5.790	(0.719)	847651	51.1350	51.1	
22 Chloroprene	53	5.912	5.918	(0.735)	416631	52.2915	52.3	
23 Propionitrile	54	7.971	7.970	(0.991)	536913	482.243	482	
24 Methacrylonitrile	41	7.985	7.991	(0.993)	1946491	487.015	487	

Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0510.D
Report Date: 15-Dec-2014 16:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.948	5.954	(0.740)	454823	49.5594	49.6	
	26 Acrylonitrile	52	6.041	6.047	(0.751)	565014	239.234	239	
	27 Ethyl tertiary-butyl ether	59	6.348	6.354	(0.789)	713689	53.2130	53.2	
	28 Vinyl Acetate	43	6.370	6.376	(0.732)	662487	52.7014	52.7	
	29 cis-1,2-Dichloroethene	96	6.756	6.762	(0.840)	258846	46.8635	46.9	
M	30 1,2-Dichloroethylene (total)	96				490859	93.9787	94.0	
	31 Methyl Methacrylate	41	9.565	9.571	(1.099)	260836	46.1753	46.2	
	32 2,2-Dichloropropane	77	6.906	6.912	(0.859)	356327	54.3446	54.3	
	33 Bromochloromethane	128	7.041	7.041	(0.876)	108708	43.7253	43.7	
	34 Chloroform	83	7.156	7.162	(0.890)	451308	48.5133	48.5	
	35 Carbon Tetrachloride	117	7.313	7.319	(0.841)	331090	52.7874	52.8	
	36 Tetrahydrofuran	42	7.363	7.362	(0.916)	85648	44.1917	44.2	
$	37 Dibromofluoromethane	113	7.399	7.405	(0.920)	231623	46.9161	46.9	
	38 1,1,1-Trichloroethane	97	7.413	7.419	(0.922)	400659	50.9459	50.9	
	39 1,1-Dichloropropene	75	10.873	10.872	(1.250)	355376	51.2802	51.3	
	40 2-Butanone	43	7.585	7.584	(0.943)	155400	50.2616	50.3	
	41 Benzene	78	7.906	7.913	(0.909)	973307	49.1007	49.1	
*	42 Pentafluorobenzene	168	8.042	8.041	(1.000)	452412	50.0000		
	43 Cyclohexane	56	7.020	7.026	(0.873)	397747	49.2154	49.2	
	44 Ethyl Methacrylate	69	11.059	11.058	(1.271)	337950	46.3646	46.4	
$	45 1,2-Dichloroethane-D4	65	8.092	8.090	(1.006)	283056	45.2258	45.2	
	46 Tertiary-amyl methyl ether	73	8.078	8.084	(1.004)	600625	52.9657	53.0	
	47 1,2-Dichloroethane	62	8.178	8.177	(0.940)	349098	48.5439	48.5	
	48 Trichloroethene	95	8.650	8.656	(0.994)	244375	47.9548	48.0	
*	49 1,4-Difluorobenzene	114	8.700	8.706	(1.000)	738937	50.0000		
	50 Dibromomethane	93	9.164	9.164	(1.053)	158072	46.7134	46.7	
	51 1,2-Dichloropropane	63	9.286	9.285	(1.067)	248453	49.4330	49.4	
	52 Bromodichloromethane	83	9.372	9.371	(1.077)	351587	51.6114	51.6	
	53 cis-1,3-dichloropropene	75	10.108	10.114	(1.162)	395311	49.9195	49.9	
	54 1,4-Dioxane	88	9.615	9.614	(1.105)	86071	884.759	885	
$	55 Toluene-D8	98	10.322	10.322	(1.186)	827282	48.6133	48.6	
	56 2-Chloroethylvinylether	63	10.051	10.050	(1.155)	157881	44.9349	44.9	
	57 Toluene	92	10.380	10.379	(1.193)	619028	49.8174	49.8	
	58 4-methyl-2-pentanone	43	10.830	10.829	(1.245)	289919	47.4873	47.5	
	59 Tetrachloroethene	164	10.823	10.822	(0.888)	212791	46.3219	46.3	
	60 trans-1,3-Dichloropropene	75	10.873	10.872	(1.250)	355376	51.2802	51.3	
	61 1,1,2-Trichloroethane	83	11.059	11.058	(1.271)	200148	48.9241	48.9	
	62 Dibromochloromethane	129	11.266	11.272	(0.924)	265197	52.2521	52.2	
	63 1,3-Dichloropropane	76	11.380	11.387	(0.934)	404820	50.3460	50.3	
	64 1,2-Dibromoethane	107	11.552	11.551	(1.328)	246958	48.5700	48.6	
	65 2-Hexanone	43	11.838	11.837	(0.971)	212776	45.7764	45.8	
*	66 Chlorobenzene-D5	117	12.188	12.194	(1.000)	739557	50.0000		
	67 Chlorobenzene	112	12.209	12.216	(1.002)	701871	46.4380	46.4	
	152 1-Chlorohexane	91	12.181	12.187	(0.999)	341931	41.2673	41.3	
	68 Ethylbenzene	106	12.245	12.251	(1.005)	383038	48.8648	48.9	
	69 1,1,1,2-Tetrachloroethane	131	12.295	12.294	(1.009)	260297	52.1155	52.1	
M	70 Xylenes (total)	106				1430134	149.324	149	
	71 m+p-Xylenes	106	12.438	12.437	(1.021)	956554	99.2666	99.3	
	72 o-Xylene	106	13.003	13.009	(1.067)	473580	50.0576	50.0	
	73 Styrene	104	13.082	13.081	(1.073)	774961	53.9653	54.0	
	74 Bromoform	173	13.117	13.116	(1.076)	178448	45.4091	45.4	
	75 Isopropylbenzene	105	13.439	13.438	(0.866)	1241517	49.2395	49.2	
$	76 P-Bromofluorobenzene	95	13.839	13.838	(1.591)	355022	48.3485	48.3	
	77 cis-1,4-Dichloro-2-Butene	53	13.939	13.938	(0.898)	138036	48.8770	48.9	

Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0510.D
Report Date: 15-Dec-2014 16:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.397	14.403	(0.928)	113554	48.7111	48.7	
	79 Bromobenzene	156	13.989	13.988	(0.901)	317077	46.6148	46.6	
	80 N-Propylbenzene	91	14.025	14.031	(0.904)	1564812	49.5509	49.6	
	81 1,1,2,2-Tetrachloroethane	83	14.139	14.139	(0.911)	374867	46.8170	46.8	
	82 1,3,5-Trimethylbenzene	105	14.318	14.317	(0.923)	1085255	49.5880	49.6	
	83 2-Chlorotoluene	91	14.254	14.253	(0.918)	935242	47.9812	48.0	
	84 1,2,3-Trichloropropane	75	14.332	14.332	(0.924)	301252	47.4685	47.5	
	85 4-Chlorotoluene	91	14.504	14.503	(0.935)	975947	48.2529	48.2	
	86 tert-Butylbenzene	119	14.797	14.796	(0.953)	1139578	49.0093	49.0	
	87 Pentachloroethane	117	14.826	14.825	(0.955)	253585	48.8945	48.9	
	88 1,2,4-Trimethylbenzene	105	14.904	14.903	(0.960)	1116440	52.4075	52.4	
	89 P-Isopropyltoluene	119	15.297	15.297	(0.986)	1264950	53.1823	53.2	
	90 1,3-Dichlorobenzene	146	15.405	15.404	(0.993)	639874	46.1189	46.1	
*	91 1,4-Dichlorobenzene-D4	152	15.519	15.518	(1.000)	421719	50.0000		
	92 1,4-Dichlorobenzene	146	15.548	15.547	(1.002)	632079	44.8564	44.8	
	93 N-Butylbenzene	91	15.969	15.968	(1.029)	1252604	53.4389	53.4	
	94 sec-Butylbenzene	105	15.069	15.068	(0.971)	1495032	49.3918	49.4	
	95 1,2-Dichlorobenzene	146	16.220	16.219	(1.045)	582960	46.4613	46.5	
	96 1,2-Dibromo-3-Chloropropane	75	17.570	17.570	(1.132)	67456	45.5318	45.5	
	97 1,3,5-Trichlorobenzene	180	17.621	17.627	(1.135)	492515	47.1289	47.1	
	98 Hexachlorobutadiene	225	18.728	18.728	(1.207)	216512	46.2759	46.3	
	99 1,2,4-Trichlorobenzene	180	18.764	18.763	(1.209)	356590	48.7115	48.7	
	100 1,2,3-Trimethylbenzene	105	15.583	15.590	(1.004)	1132571	49.4124	49.4	
	101 Naphthalene	128	19.350	19.349	(1.247)	824885	49.4525	49.4	
	102 1,2,3-Trichlorobenzene	180	19.686	19.685	(1.269)	276097	47.5707	47.6	
	103 Methyl Acetate	43	4.976	4.975	(0.619)	261340	48.2010	48.2	
	104 Methylcyclohexane	83	8.628	8.635	(1.073)	457499	52.1497	52.1	
M	153 Total Alkylbenzenes	100				8918671	356.569	356	


Data File: \\target_server\gg\chem\gcms-c.i\C121314.b\C0510.D
Date : 13-DEC-2014 09:21
Client ID: WG155629-LCS
Sample Info: WG155629-1,TH0532
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C121314.b\C0510.D
Y (x10^6)
Min
-Chloromethane (2.231)
-Vinyl Chloride (2.324)
-Bromomethane (2.725)
-Chloroethane (2.882)
-Trichlorofluoromethane (3.053)
-Diethyl Ether (3.497)
-1,1-Dichloroethene (3.747)+
-Iodomethane (3.954)
-Acrolein (4.269)
-Allyl Chloride (4.476)
-Methylene Chloride (4.647)
-Acetone (4.762)
-trans-1,2-Dichloroethene (4.919)+
-Methyl tert-butyl ether (5.133)
-Tertiary-butyl alcohol (5.348)
-Acetonitrile (5.548)
-Di-isopropyl ether (5.784)
-Acrylonitrile (6.048)
-Ethyl tertiary-butyl ethe (6.356)+
-cis-1,2-Dichloroethene (6.756)
-2,2-Dichloropropane (6.906)
-Bromochloromethane (7.028)+
-Chloroform (7.156)
-Carbon Tetrachloride (7.314)+
-1,1,1-Trichloroethane (7.414)
-2-Butanone (7.585)
-Propionitrile (7.907)+
-Isobutyl Alcohol (8.257)+
-Trichloroethene (8.636)+
-Dibromomethane (9.165)
-Methyl Methacrylate (9.565)+
-2-Chloroethylvinylether (10.051)
-1,1-Dichloropropene (10.823)+
-Ethyl Methacrylate (11.059)+
-Dibromochloromethane (11.266)
-1,2-Dibromoethane (11.552)
-2-Hexanone (11.838)
-Chlorobenzene-D5 (12.189)+
m+p-Xylenes (12.439)
-Isopropylbenzene (13.439)
-1,1,2,2-Tetrachloroethane (14.140)
-1,2,4-Trimethylbenzene (14.319)+
-tert-Butylbenzene (14.798)+
-sec-Butylbenzene (15.069)
-1,3-Dichlorobenzene (15.298)
-1,4-Dichlorobenzene-D4 (15.527)+
-N-Butylbenzene (15.970)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.220)
-1,2,4-Trichlorobenzene (17.621)
-Hexachlorobutadiene (18.729)+
-Naphthalene (19.351)
-1,2,3-Trichlorobenzene (19.687)
-Xylenes (total) (21.380)

Logbooks and Supporting Documents

GCMS-C INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 112614 654

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50ng BFB -10	CB958A	1	-1	V0260BA0							Y	DJP		W6135069-7 624
VSTD050	C0211	1	1	C8260925							N			New mixes
020* W6155069-3	C0212A	1	2	C8260926							Y			W6154861-3
005* -2	C0213A	1	3								Y			-2
001	C0214	1	4								N			
200* -6	C0215A	1	5								Y			↑ bias -6
100	C0216	1	6								Y			
50B	C0217	1	7								Y			
Rinse	C0218	1	8								N			
VSTD001B	C0219	1	9								N			
VSTD001C* -1	C0220A	1	10								Y			-1
D	21	1	11								N			
VSTD100B* -5	22A	1	12								Y			-5
050C* -4	23A	1	13								Y			-4
LCS	24	1	14								N			
LCSB W6154861-8	25	1	15								Y			IND(A) -7
VBLKA	26	1	16								N			
B	27	1	17								N			
C	28	1	18								N			
D -9	29	1	19								Y			
SH9958-11 A	30	1	20		X				X		Y		LZ	18:41
-1 A	C0231	1	21		X				X		Y		LZ	OOC 21 minutes 19:15
Rinse	32	1	22								N		Z	
Rinse	33	1	23								N		Z	

12/01/14 REC

STANDARD	CODE
BFB	V9612
CAL. STD.	V9627 V9624
LCS/MS MIX	V9625
EXTRAS MIX	V9628

STANDARD	CODE
IS MIX	V9621
SS MIX	V9622

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

VOA-002 - Revision 1 - 11/06/2009

QAMS554

Katahdin Analytical Services 0000134

GCMS-C INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 12/12/14 8:22

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	CB969	1	-1	VOABF8A0							Y	REC		
VSTD050C12A -4	C0483	1	1	C826A26							Y			
LCSA WG155562-1	84	1	2								Y			
VBLKA	85	1	3								N			
VBLKB	86	1	4								N			
VBLKC -2	87	1	5								Y			hexa < PQL
TH0485-4 A	88	1	6		X				X		Y		<2	
TH0532-3	89	1	7								Y		<2	
TH0474-15 A	90	1	8								Y		<2	
TH0530-12 A	91	1	9								Y		<2	
1 -13 A	92	1	10								Y		<2	
TH0485-1 A	93	1	11								Y		<2	
-2 A	94	1	12								Y		<2	
-3 A	95	1	13								Y		<2	DL 1:10
-5 A	96	1	14								Y		<2	DL 1:10
-6 A	97	1	15								Y		<2	DL 1:20
-7 A	98	1	16								Y		<2	DL 1:20
TH0532-1 A+B	99	1	17								N		<2	Decanted A+B into RAGO:
1 -2DL A+B+C	C0500	4	18								Y		<2	10 mL → 40 mL Decanted HNO3
WG155562-5	01	1	19								Y		<2	TH0391-35 mg Calc PQL
1 -6	02	1	20								Y		<2	1 -35 mg
Rinse	03	1	21								N			19:25
Rinse	04	1	22								N			
CP@500/HCl	05	1	23								N			In HCl Preservative
CP@500/HCl	06	1	24								N			
Rinse	07	1	25								N		2	

STANDARD	CODE
BFB	V9643
CAL. STD.	V9634 V9641
LCS/MS MIX	V9638
EXTRAS MIX	V9678

STANDARD	CODE
IS MIX	V9635
SS MIX	V9639

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

GCMS-C INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 12/13/14 8:12

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	CB970	1	-1	VOA8FBAQ							Y	REC	7	
VSTD050C13A -4	C0509	1	1	C826A26							Y			
LCSA W6155629-1	10	1	2								Y			
VBLKA	11	1	3								N			
VBLKB	12	1	4								N			
VBLKC -2	13	1	5								Y			hexaCPAZ
TH0534-7 A	14	1	6		X				X		Y		<2	
TH0532-1 C	15	1	7								Y		<2	Decanted C vial
TH0485-3 DL B	16	10	8								Y		<2	4mL→40mL
-5DL B	17	10	9								Y		<2	↓
-6DL B	18	20	10								Y		<2	2mL→40mL
-7DL B	19	20	11								Y		<2	↓
TH0534-1 A	20	1	12								Y		<2	
-2 A	21	1	13								Y		<2	
-3 A	22	1	14								Y		<2	
-4 A	23	1	15								Y		<2	
-5 A	24	1	16								Y		<2	DL1:40
-6 A	25	1	17								Y		<2	DL1:40
-4MS -5 B	26	1	18								Y		<2	
-4MSD -6 C	27	1	19								Y		<2	19:11
Rinse	28	1	20								N		Z	
Rinse	29	1	21								N			
Rinse	30	1	22								N		Z	
Rinse	31	1	23								N			
														12/15/14 REC

STANDARD	CODE
BFB	V9643
CAL. STD.	V9634 V9646
LCS/MS MIX	V9630
EXTRAS MIX	V9645

STANDARD	CODE
IS MIX	V9635
SS MIX	V9639

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

VOA-002 - Revision 1 - 11/06/2009

QAMS560

Katahdin Analytical Services 0000136

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Blank Sample Summary Report

TOC in Soil

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG155863	SW846 9060A Mod.	17-DEC-14	N/A	U 300 ug/gdrywt	400 ug/gdrywt	300

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG155606	SM2540	15-DEC-14	12-DEC-14	U 1 %	1 %	N/A

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

TOC In Soil

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG155863-2	LCS	WG155863	17-DEC-14	N/A	ug/gdrywt	400000.000	390000	98	80-120	

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG155606-2	LCS	WG155606	15-DEC-14	12-DEC-14	%	90	90.	100	80-120	

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ANALYTICAL SERVICES

Cert No E87604

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
WG155606-4	TH0532-5	WG155606	15-DEC-14	%	80.	80.	1	20
WG155606-3	TH0532-4	WG155606	15-DEC-14	%	81.	84.	3	20

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Cert No E87604

Quality Control Report

Matrix Spike Sample Summary Report

TOC In Soil

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG155863-4	MSD	TH0532-4	WG155863	17-DEC-14	ug/gdrywt	24079.36	6800	27000	83	75 - 125
WG155863-3	MS	TH0532-4	WG155863	17-DEC-14	ug/gdrywt	24281.2	6800	26000	80	75 - 125

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES – INORGANIC 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 specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

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 Limit of Quantitation (LOQ)(previously called 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.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ 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.

H1 - pH H2 - DO H3 - sulfide H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Dana Miller
EnSafe
5724 Summer Trees Drive
Memphis,TN 38134

Lab Sample ID: TH0532-4
Report Date: 09-JAN-15
Client PO: 16518
Project: Navy Clean WE15-03-0
SDG: TH0532

Sample Description	Matrix	Date Sampled	Date Received
153-112014-423-425	SL	20-NOV-14 12:30:00	12-DEC-14

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
TOC In Soil	6800 ug/gdrywt	620	130	460	SW846 9060A Mod.	WG155863	17-DEC-14 15:56:07	N/A	N/A	
Total Solids	81. %	1		N/A	SM2540G	WG155606	15-DEC-14 10:24:16	SM2540G	12-DEC-14	

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Dana Miller
EnSafe
5724 Summer Trees Drive
Memphis,TN 38134

Lab Sample ID: TH0532-5
Report Date: 09-JAN-15
Client PO: 16518
Project: Navy Clean WE15-03-0
SDG: TH0532

Sample Description	Matrix	Date Sampled	Date Received
PB153-SOIL-D-112014	SL	20-NOV-14 00:00:00	12-DEC-14

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
TOC In Soil	2800 ug/gdrywt	620	130	460	SW846 9060A Mod.	WG155863	17-DEC-14 16:34:57	N/A	N/A	
Total Solids	80. %	1		N/A	SM2540G	WG155606	15-DEC-14 10:24:34	SM2540G	12-DEC-14	

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Raw Data Section

WET CHEMISTRY BATCH REPORT
Dec 19 2014, 11:33 am
Batch: WG155861

Parameter: Toc In Soil(1)

Date Analyzed: 17-DEC-14

Analyst Initials: CB

Prep Date: N/A

Prep Method: N/A

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
TH0504-1	SAMP	SW846 9060A	256.7mg		1	7427.24898	7400 ug/gdrywt	99.	400	170	780		
TH0504-2	SAMP	SW846 9060A	202.9mg		1	23508.83877	24000 ug/gdrywt	97.	400	220	1000		
TH0504-3	SAMP	SW846 9060A	212.2mg		1	1040.06054	1000 ug/gdrywt	98.	400	200	960		
TH0504-4	SAMP	SW846 9060A	246.6mg		1	3245.2491	3200 ug/gdrywt	99.	400	170	820		
TH0504-5	SAMP	SW846 9060A	246.1mg		1	12453.41324	12000 ug/gdrywt	96.	400	180	840		
WG155861-1	MBLANK	SW846 9060A	500mg		1	0	U300 ug/gdrywt	NA	400	85.	400		
WG155861-2	LCS	SW846 9060A	40mg		1	390275	390000 ug/gdrywt	NA	400	85.	400		98

Comments:

WG155861-1 TH0504-1
WG155861-2 TH0504-1

Entered by: CLB Date: 12-19-14 Accepted by: [signature] Date: 12/22/14

WET CHEMISTRY BATCH REPORT
Dec 19 2014, 11:33 am
Batch: WG155861

Parameter: Toc In Soil(2)

Date Analyzed: 17-DEC-14

Analyst Initials: CB

Prep Date: N/A

Prep Method: N/A

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
TH0504-1	SAMP	SW846 9060A	256.7mg		1	6966.00172	7000 ug/gdrywt	99.	400	170	790		
TH0504-2	SAMP	SW846 9060A	202.9mg		1	22002.3586	22000 ug/gdrywt	97.	400	200	960		
TH0504-3	SAMP	SW846 9060A	212.2mg		1	1035.47656	1000 ug/gdrywt	98.	400	200	920		
TH0504-4	SAMP	SW846 9060A	246.6mg		1	3349.42514	3300 ug/gdrywt	99.	400	170	780		
TH0504-5	SAMP	SW846 9060A	246.1mg		1	12611.31219	13000 ug/gdrywt	96.	400	170	800		

Comments:

WG155861-1 TH0504-1
WG155861-2 TH0504-1

Entered by: CLB Date: 12-19-14 Accepted by: [signature] Date: 12/22/14

WET CHEMISTRY BATCH REPORT
Dec 19 2014, 11:33 am
Batch: WG155861

Parameter: Toc In Soil(Avg)

Date Analyzed: 19-DEC-14

Analyst Initials: CB

Prep Date: 17-DEC-14

Prep Method: N/A

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
TH0504-1	SAMP	SW846 9060A	256.7mg		1	7196.62535	7200 ug/gdrywt	99.	400	170	780		
TH0504-2	SAMP	SW846 9060A	202.9mg		1	22755.59868	23000 ug/gdrywt	97.	400	220	1000		
TH0504-3	SAMP	SW846 9060A	212.2mg		1	1037.76855	1000 ug/gdrywt	98.	400	200	960		
TH0504-4	SAMP	SW846 9060A	246.6mg		1	3297.33712	3300 ug/gdrywt	99.	400	170	820		
TH0504-5	SAMP	SW846 9060A	246.1mg		1	12532.36272	12000 ug/gdrywt	96.	400	180	840		

Comments:

WG155861-1 TH0504-1
WG155861-2 TH0504-1

Entered by: CLB Date: 12-19-14 Accepted by: [signature] Date: 12/22/14

WET CHEMISTRY BATCH REPORT
Dec 19 2014, 11:22 am
Batch: WG155862

Parameter: Carbon, Percent

Date Analyzed: 17-DEC-14

Analyst Initials: CB

Prep Date: N/A

Prep Method: N/A

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
TH0419-1	SAMP	SW846 9060A	50.1mg	0.10000g	1	8195	30. %	55.	.1	0.046	0.18		
WG155862-1	MBLANK	SW846 9060A	500mg	0.10000g	1	0	U0.10 %	NA	.1	0.025	0.10		
WG155862-2	LCS	SW846 9060A	40mg	0.10000g	1	15611	39. %	NA	.1	0.025	0.10		98
WG155862-3	DUP	SW846 9060A	52.5mg	0.10000g	1	7724	27. %	NA	.1	0.046	0.18	10	

Comments:

WG155862-1 TH0419-1
WG155862-2 TH0419-1
WG155862-3 TH0419-1

Entered by: CLB Date: 12-19-14 Accepted by: [signature] Date: 12/22/14

WET CHEMISTRY BATCH REPORT
Dec 19 2014, 12:20 pm
Batch: WG155863

Parameter: TOC In Soil

Date Analyzed: 17-DEC-14

Analyst Initials: CB

Prep Date: N/A

Prep Method: N/A

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
TH0532-4	SAMP	SW846 9060A	398.9mg	200.00ug	1	6804.91583	6800 ug/gdrywt	81.	400	84.768	400		
TH0532-5	SAMP	SW846 9060A	402.9mg	200.00ug	1	2847.1544	2800 ug/gdrywt	80.	400	84.768	400		
WG155863-1	MBLANK	SW846 9060A	500mg	200.00ug	1	0	U300 ug/gdrywt	NA	400	85.	400		
WG155863-2	LCS	SW846 9060A	40mg	200.00ug	1	390275	390000 ug/gdrywt	NA	400	85.	400		98
WG155863-3	MS	SW846 9060A	202.8mg	200.00ug	1	26126.5769	26000 ug/gdrywt	NA	400	100	490		80
WG155863-4	MSD	SW846 9060A	204.5mg	200.00ug	1	26728.08588	27000 ug/gdrywt	NA	400	100	490		83

Comments:

TH0532-4	MS/MSD, VPB153-Soil-112014-423-425
TH0532-5	VPB153-Soil-D-112014
WG155863-1	TH0532-4
WG155863-2	TH0532-4
WG155863-3	TH0532-4
WG155863-4	TH0532-4

Entered by: CLB Date: 12-19-14 Accepted by: [signature] Date: 12/22/14

	Sample Name	Dilution	Result	Comment	Date / Time
1	CCV	1.000	SSM-TC:15115 ug		12/17/2014 1:11:59 PM
2	CCB	1.000	SSM-TC:0.000 ug		12/17/2014 1:18:29 PM
3	LCS	1.000	SSM-TC:15611 ug		12/17/2014 1:27:36 PM
4	TH0504-1	1.000	SSM-TC:1893 ug		12/17/2014 1:40:38 PM
5	TH0504-1	1.000	SSM-TC:1754 ug		12/17/2014 1:49:05 PM
6	TH0504-3	1.000	SSM-TC:217.6 ug		12/17/2014 1:59:58 PM
7	TH0504-3	1.000	SSM-TC:224.4 ug		12/17/2014 2:08:36 PM
8	TH0504-4	1.000	SSM-TC:793.3 ug		12/17/2014 2:16:19 PM
9	TH0504-4	1.000	SSM-TC:852.3 ug		12/17/2014 2:24:32 PM
10	TH0504-5	1.000	SSM-TC:2960 ug		12/17/2014 2:37:25 PM
11	TH0504-5	1.000	SSM-TC:3151 ug		12/17/2014 2:47:35 PM
12	TH0504-2	1.000	SSM-TC:4634 ug		12/17/2014 2:56:05 PM
13	CCV	1.000	SSM-TC:15333 ug		12/17/2014 3:05:10 PM
14	CCB	1.000	SSM-TC:0.000 ug		12/17/2014 3:12:14 PM
15	TH0504-2	1.000	SSM-TC:4585 ug		12/17/2014 3:21:28 PM
16	TH0419-1	1.000	SSM-TC:8195 ug		12/17/2014 3:32:02 PM
17	TH0419-1 DUP	1.000	SSM-TC:7724 ug		12/17/2014 3:46:23 PM
18	TH0532-4	1.000	SSM-TC:2205 ug		12/17/2014 3:56:07 PM
19	TH0532-4 MS	1.000	SSM-TC:4304 ug		12/17/2014 4:08:51 PM
20	TH0532-5 MSD	1.000	SSM-TC:4440 ug		12/17/2014 4:25:30 PM
21	TH0532-5	1.000	SSM-TC:921.4 ug		12/17/2014 4:34:57 PM
22	NUTRIENT	1.000	SSM-TC:1200 ug		12/17/2014 4:41:59 PM
23	NUTRIENT	1.000	SSM-TC:1208 ug		12/17/2014 4:49:57 PM
24	CCV	1.000	SSM-TC:15125 ug		12/17/2014 4:58:38 PM
25	CCB	1.000	SSM-TC:0.000 ug		12/17/2014 5:05:01 PM
26					
27					
28					
29					
30					

Nutrients in soil

	Meas. Conc (mg/Kg)	Cert. Value	Accept. Limits
Ref#1	5990	5290	2580-7990
Ref#2	5850	↓	↓

ERA
A Waters Company

Reference Materials

▪ Certificate of Analysis ▪

Product: Nutrients in Soil
Catalog Number: 542
Lot No. D085-542
Certificate Issue Date: April 23, 2014
Expiration Date: October 31, 2017
Revision Number: Original

SWL3732

CERTIFICATION

Parameter	Total Concentration	Certified Value[1]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Ammonia as N	401	404	8.86	245 - 563	174 - 634
Total Kjeldahl Nitrogen	895	881	14.5	543 - 1220	458 - 1300
Total Organic Carbon (TOC)	5290	5290	19.7	2580 - 7990	1400 - 9170
Total Phosphorus	780	879	9.56	447 - 1310	207 - 1550

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Ammonia as N	404	404	100	54	-	-
Total Kjeldahl Nitrogen	881	881	100	45	-	-
Total Organic Carbon (TOC)	5290	5290	100	25	-	-
Total Phosphorus	879	879	100	65	-	-

ACCREDITED ACCREDITED

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eragc.com

R302451 W6155861 R302456 W6155863 R302449 W6155862 %

Katahdin Analytical Services, Inc.

Carbon Analysis of Solid Samples - Shimadzu TOC-V_{CPH} / SSM-5000A

Analysis Type and Method (Check One)

- ✓ Total Carbon (SW846 9060M)
- ✓ Total Organic Carbon (SW846 9060)
- ____ Total Organic Carbon (Lloyd Kahn)
- ____ Total Inorganic Carbon (SW846 9060M)
- ____ Other (Specify): Nutrients in Soil Lot SWL3732

Spiking Information	
LCS Spike Source ID / Compound:	W12684 (TU: 16,000)
CCV Spike Source ID / Compound:	W12683
MS Spike Source ID / Compound:	W12684 (TU: 4,000)

Calibration Information	
Calibration Date:	11-13-14
Calibration Analyst:	CLB

KATAHDIN Sample Number	Sample Wt. (mg)	Sample Type * (Circle One)		~~Spike Added~~ % Recovery (mg)
CCV		Wet	(Dry)	94.47%
CCB		Wet	(Dry)	
LCS		Wet	(Dry)	97.57%
TH0504 - 1	256.7	Wet	Dry	
- 1	253.6	Wet	Dry	
- 3	212.2	Wet	Dry	
- 3	219.8	Wet	Dry	
- 4	246.6	Wet	Dry	
- 4	256.7	Wet	Dry	
- 5	246.1	Wet	Dry	
- 5	258.7	Wet	Dry	
- 2	202.9	Wet	Dry	
CCV		Wet	(Dry)	95.83%
CCB		Wet	Dry	
TH0504 - 2	214.5	Wet	Dry	
TH0419 - 1	50.1	Wet	Dry	
- 1 DUP	52.5	Wet	Dry	
TH0532 - 4	398.9	Wet	Dry	
- 4 MS	202.8	Wet	Dry	
- 4 MSD	204.5	Wet	Dry	
- 5	402.9	Wet	Dry	
Nutrient in Soil	200.4	Wet	Dry	113.19%

* "Wet" = field-moist sample (as received). "Dry" = oven-dried sample.

Analyst: CLB	Analysis Date: 12-17-14
Reviewer: [signature]	Review Date: 12/22/14

Katahdin Analytical Services, Inc.

Carbon Analysis of Solid Samples - Shimadzu TOC-V_{CPH} / SSM-5000A

Analysis Type and Method (Check One)

_____Total Carbon (SW846 9060M)

_____Total Organic Carbon (SW846 9060)

_____Total Organic Carbon (Lloyd Kahn)

_____Total Inorganic Carbon (SW846 9060M)

_____Other (Specify):

Spiking Information	
LCS Spike Source ID / Compound:	SEE
CCV Spike Source ID / Compound:	LAST
MS Spike Source ID / Compound:	PAGE

Calibration Information	
Calibration Date:	
Calibration Analyst:	

KATAHDIN Sample Number	Sample Wt. (mg)	Sample Type * (Circle One)	~~Spike Added~~ % Recovery (mg)
Nutrient in Soil	206.5	Wet (Dry)	110.58
CCV		Wet (Dry)	94.53%
CCB		Wet (Dry)	
		Wet Dry	
		Wet Dry	
		Wet Dry	
		Wet Dry	
		Wet Dry	
		Wet Dry	
		Wet Dry	
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		Wet Dry	
		Wet Dry	
		Wet Dry	

* "Wet" = field-moist sample (as received). "Dry" = oven-dried sample.

Analyst: CLB	Analysis Date: 12-17-14
Reviewer:	Review Date:

Instr.Information

System	SSM-5000A
Detector	Combustion
Catalyst	Regular Sensitivity
Cell Length	short

Sample

Sample Name:	CCV
Sample ID:	<Untitled>
Origin:	tc method SOILS.met
Chk. Result	

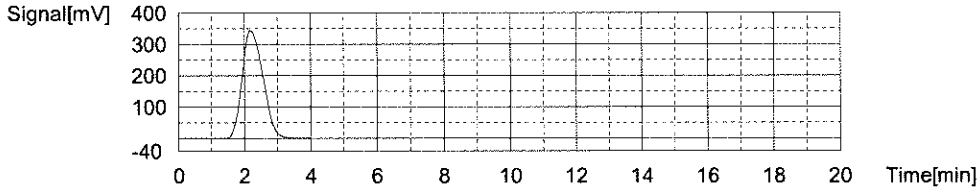
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:15115 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	1523	1523	15115ug	15115ug	40.00mg	40uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 1:11:59 PM

Mean Area	1523
Mean CNV	1523
Mean Conc.	15115ug



Sample

Sample Name:	CCB
Sample ID:	<Untitled>
Origin:	tc method SOILS.met
Chk. Result	

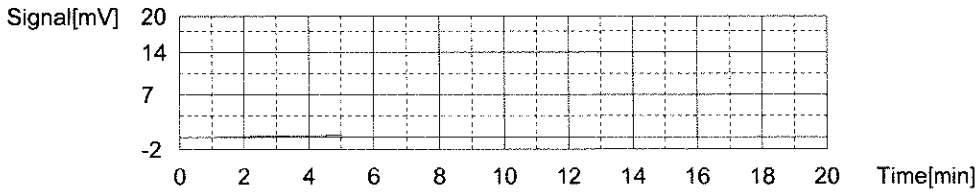
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:0.000 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	0.000	0.000	0.000ug	0.000ug	500.0mg	500uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 1:18:29 PM

Mean Area	0.000
Mean CNV	0.000
Mean Conc.	0.000ug



Sample

Sample Name: LCS
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

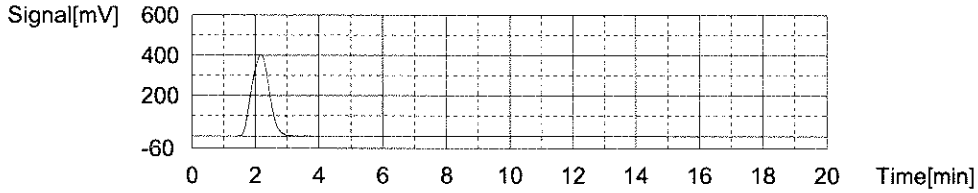
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:15611 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	1573	1573	15611ug	15611ug	40.00mg	40uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 1:27:36 PM

Mean Area 1573
Mean CNV 1573
Mean Conc. 15611ug



Sample

Sample Name: TH0504-1
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

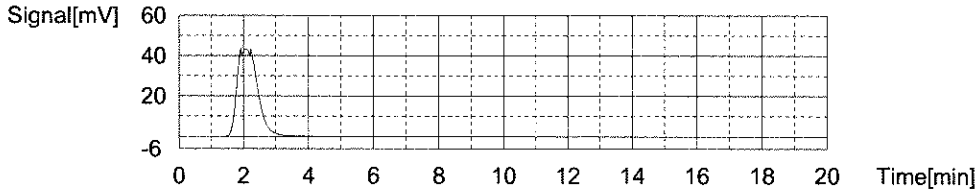
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:1893 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	190.7	190.7	1893ug	1893ug	256.7mg	256uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 1:40:38 PM

Mean Area 190.7
Mean CNV 190.7
Mean Conc. 1893ug



Sample

Sample Name: TH0504-1
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

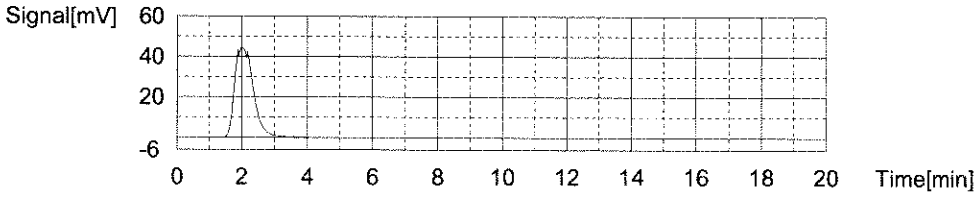
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:1754 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	176.7	176.7	1754ug	1754ug	253.6mg	253uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 1:49:05 PM

Mean Area 176.7
Mean CNV 176.7
Mean Conc. 1754ug



Sample

Sample Name: TH0504-3
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

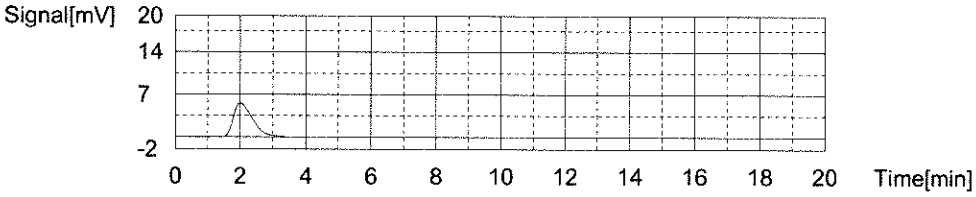
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:217.6 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	21.93	21.93	217.6ug	217.6ug	212.2mg	212uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 1:59:58 PM

Mean Area 21.93
Mean CNV 21.93
Mean Conc. 217.6ug



Sample

Sample Name: TH0504-3
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

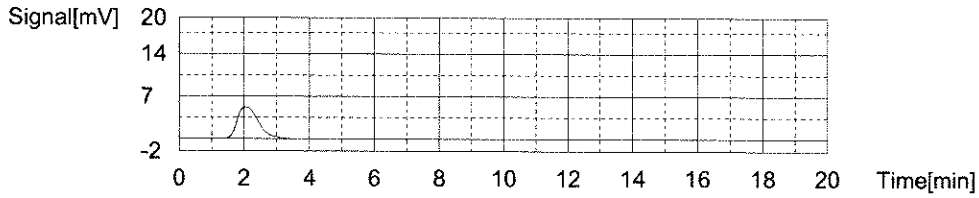
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:224.4 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	22.61	22.61	224.4ug	224.4ug	219.8mg	219uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 2:08:36 PM

Mean Area 22.61
Mean CNV 22.61
Mean Conc. 224.4ug



Sample

Sample Name: TH0504-4
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

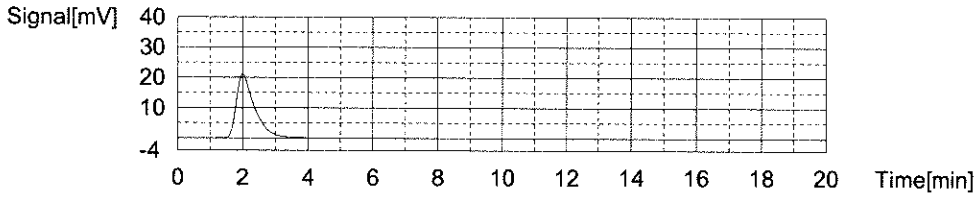
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:793.3 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	79.93	79.93	793.3ug	793.3ug	246.6mg	246uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 2:16:19 PM

Mean Area 79.93
Mean CNV 79.93
Mean Conc. 793.3ug



Sample

Sample Name: TH0504-4
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

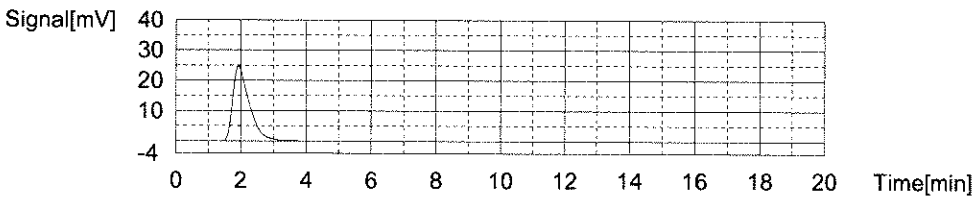
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:852.3 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	85.88	85.88	852.3ug	852.3ug	256.7mg	256uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 2:24:32 PM

Mean Area 85.88
Mean CNV 85.88
Mean Conc. 852.3ug



Sample

Sample Name: TH0504-5
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

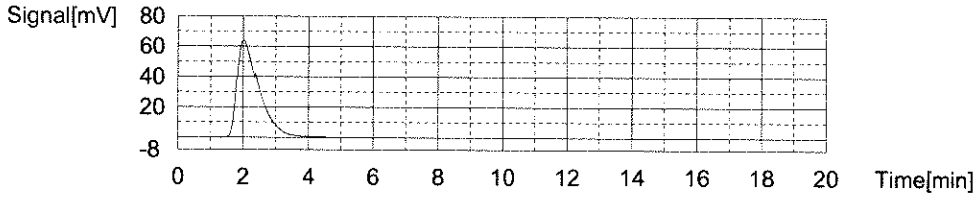
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:2960 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	298.3	298.3	2960ug	2960ug	246.1mg	246uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 2:37:25 PM

Mean Area 298.3
Mean CNV 298.3
Mean Conc. 2960ug



Sample

Sample Name: TH0504-5
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

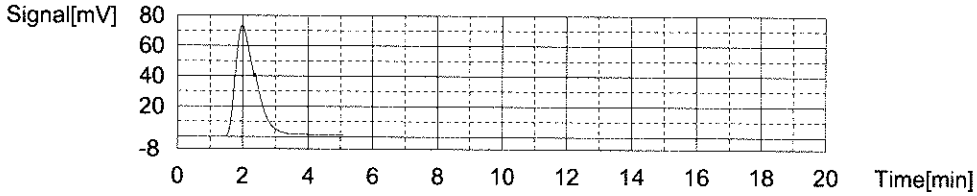
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:3151 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	317.5	317.5	3151ug	3151ug	258.7mg	258uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 2:47:35 PM

Mean Area 317.5
Mean CNV 317.5
Mean Conc. 3151ug



Sample

Sample Name: TH0504-2
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

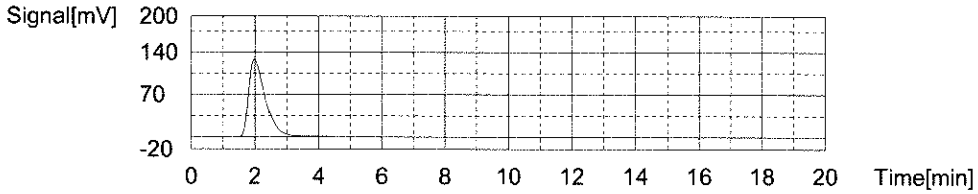
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:4634 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	466.9	466.9	4634ug	4634ug	202.9mg	202uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 2:56:05 PM

Mean Area 466.9
Mean CNV 466.9
Mean Conc. 4634ug



Sample

Sample Name: CCV
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

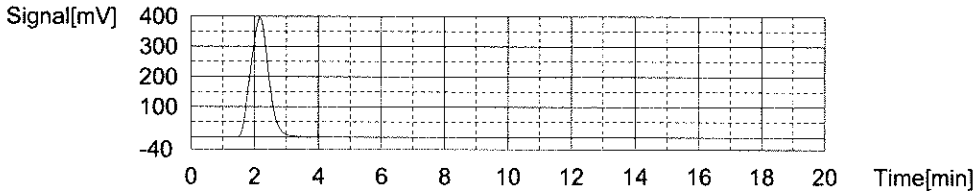
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:15333 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	1545	1545	15333ug	15333ug	40.00mg	40uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 3:05:10 PM

Mean Area 1545
Mean CNV 1545
Mean Conc. 15333ug



Sample

Sample Name: CCB
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

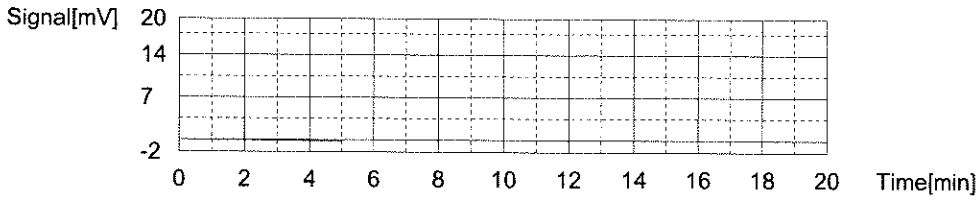
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:0.000 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	0.000	0.000	0.000ug	0.000ug	500.0mg	500uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 3:12:14 PM

Mean Area 0.000
Mean CNV 0.000
Mean Conc. 0.000ug



Sample

Sample Name: TH0504-2
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

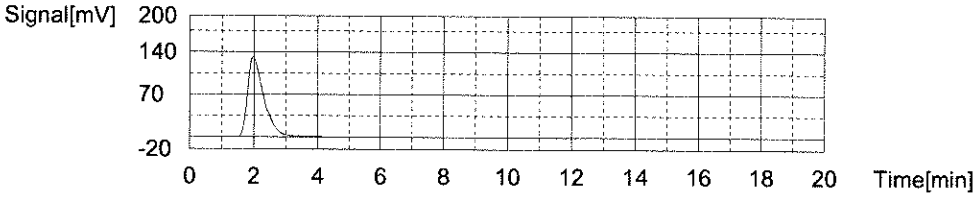
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:4585 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	462.0	462.0	4585ug	4585ug	214.5mg	214uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 3:21:28 PM

Mean Area 462.0
Mean CNV 462.0
Mean Conc. 4585ug



Sample

Sample Name: TH0419-1
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

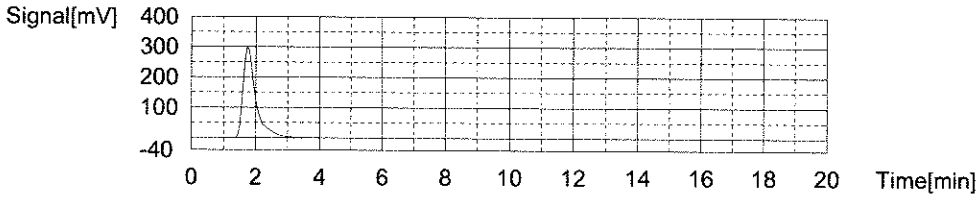
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:8195 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	825.7	825.7	8195ug	8195ug	50.10mg	50uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 3:32:02 PM

Mean Area 825.7
Mean CNV 825.7
Mean Conc. 8195ug



Sample

Sample Name: TH0419-1 DUP
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

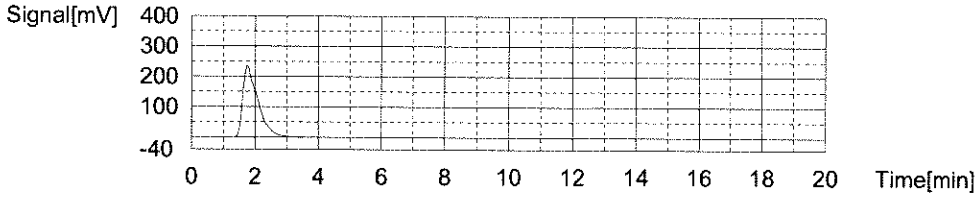
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:7724 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	778.3	778.3	7724ug	7724ug	52.50mg	52uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 3:46:23 PM

Mean Area 778.3
Mean CNV 778.3
Mean Conc. 7724ug



Sample

Sample Name: TH0532-4
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

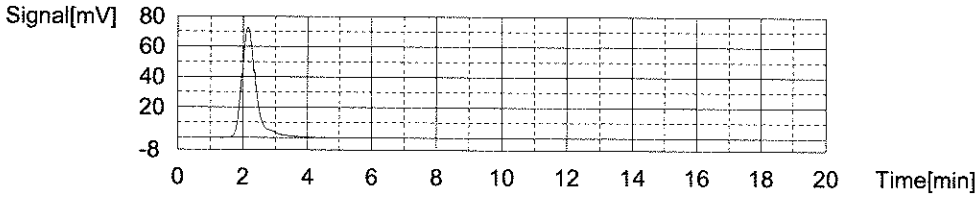
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:2205 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	222.2	222.2	2205ug	2205ug	398.9mg	398uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 3:56:07 PM

Mean Area 222.2
Mean CNV 222.2
Mean Conc. 2205ug



Sample

Sample Name: TH0532-4 MS
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

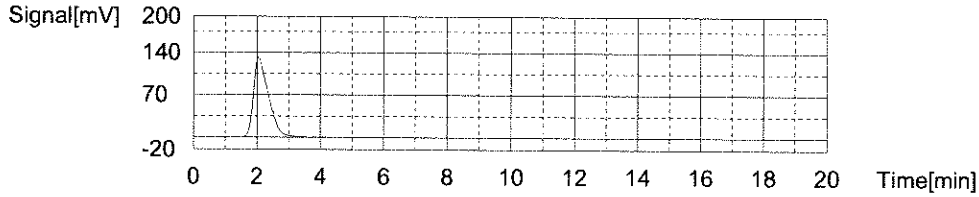
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:4304 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	433.7	433.7	4304ug	4304ug	202.8mg	202uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 4:08:51 PM

Mean Area 433.7
Mean CNV 433.7
Mean Conc. 4304ug



Sample

Sample Name: TH0532-5 MSD
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

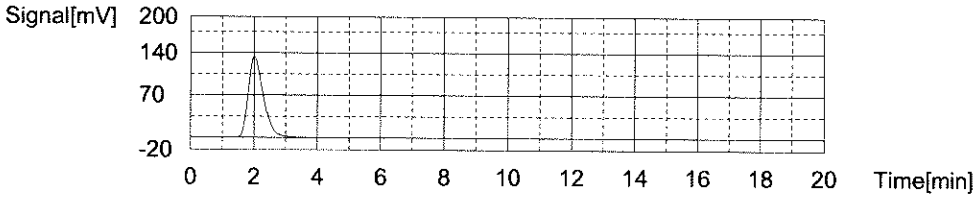
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:4440 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	447.4	447.4	4440ug	4440ug	204.5mg	204uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 4:25:30 PM

Mean Area 447.4
Mean CNV 447.4
Mean Conc. 4440ug



Sample

Sample Name: TH0532-5
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

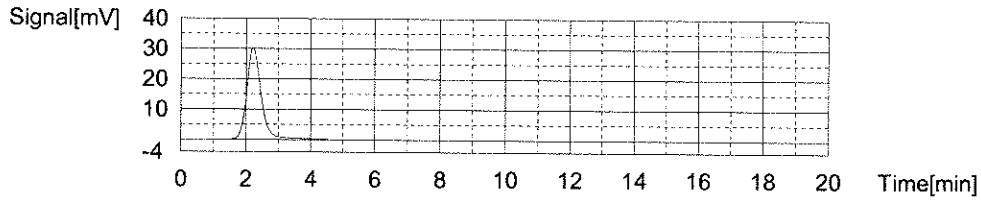
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:921.4 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	92.84	92.84	921.4ug	921.4ug	402.9mg	402uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 4:34:57 PM

Mean Area 92.84
Mean CNV 92.84
Mean Conc. 921.4ug



Sample

Sample Name: NUTRIENT
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

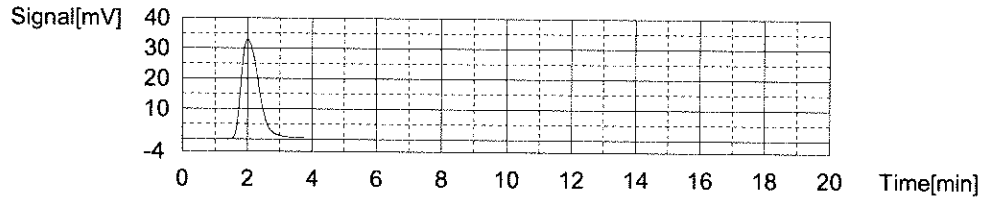
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:1200 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	120.9	120.9	1200ug	1200ug	200.4mg	200uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 4:41:59 PM

Mean Area 120.9
Mean CNV 120.9
Mean Conc. 1200ug



Sample

Sample Name: NUTRIENT
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

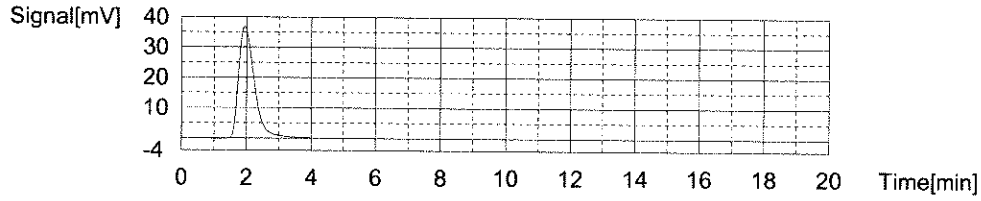
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:1208 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	121.7	121.7	1208ug	1208ug	206.5mg	206uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 4:49:57 PM

Mean Area 121.7
Mean CNV 121.7
Mean Conc. 1208ug



Sample

Sample Name: CCV
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

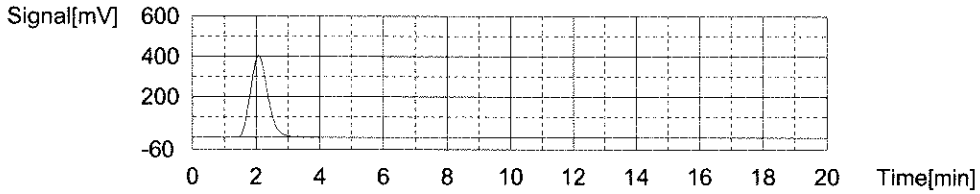
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:15125 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	1524	1524	15125ug	15125ug	40.00mg	40uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 4:58:38 PM

Mean Area 1524
Mean CNV 1524
Mean Conc. 15125ug



Sample

Sample Name: CCB
Sample ID: <Untitled>
Origin: tc method SOILS.met
Chk. Result

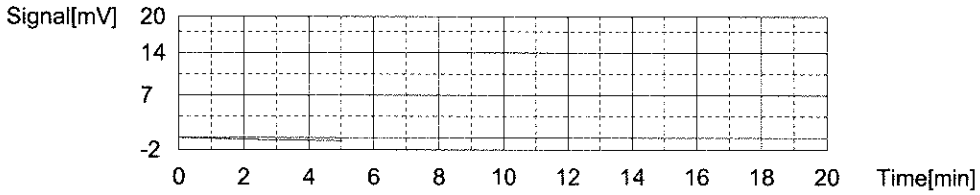
Type	Anal.	Dil.	Density	Result
Unknown	SSM-TC	1.000	1.000mg/uL	SSM-TC:0.000 ug

1. Det

Anal.: SSM-TC

No.	Area	CNV	Abs C	Conc.	Weight	Volume	Ex.	Cal. Curve	Date / Time
1	0.000	0.000	0.000ug	0.000ug	500.0mg	500uL		toc sl curve 11-10-14.2014_11_10_12_35_59.cal	12/17/2014 5:05:01 PM

Mean Area 0.000
Mean CNV 0.000
Mean Conc. 0.000ug



Instr.Information

System	SSM-5000A
Detector	Combustion
Catalyst	Regular Sensitivity
Cell Length	short

Cal. Curve

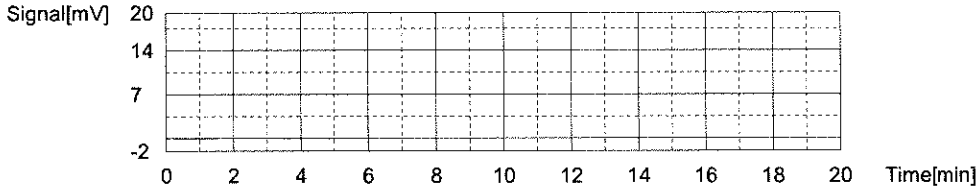
Sample Name:	Untitled
Sample ID:	Untitled
Cal. Curve:	tc sl curve 11-13-14.2014_11_13_10_35_53.cal

Type	Anal.	Density
Standard	SSM-TC	

AbsC: 0.000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	0.000	0.000	0.000ug	0.000mg	*******		11/13/2014 10:49:02 AM

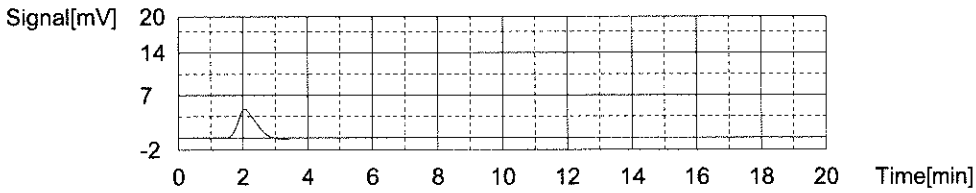
Mean Area 0.000
Mean CNV 0.000



AbsC: 200.0ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	19.04	19.04	200.0ug	0.5000mg	*******		11/13/2014 10:55:45 AM

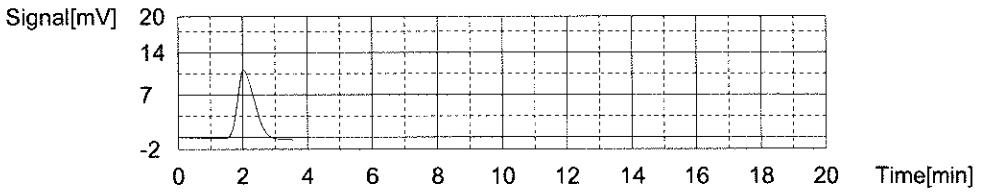
Mean Area 19.04
Mean CNV 19.04



AbsC: 400.0ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	41.38	41.38	400.0ug	1.000mg	*******		11/13/2014 11:02:31 AM

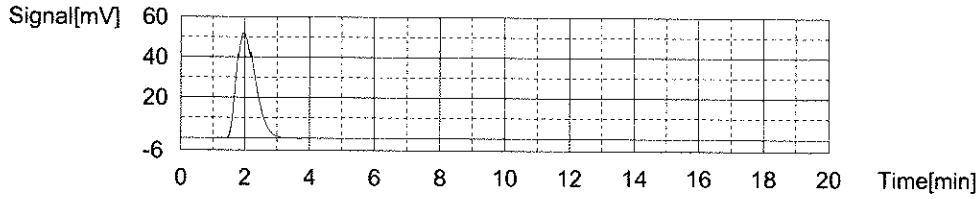
Mean Area 41.38
Mean CNV 41.38



AbsC: 2000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	215.0	215.0	2000ug	5.000mg	*******		11/13/2014 11:09:30 AM

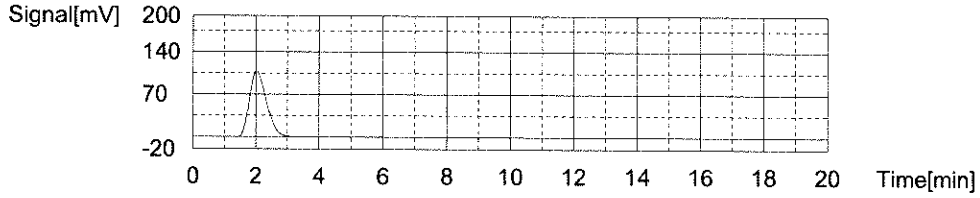
Mean Area 215.0
Mean CNV 215.0



AbsC: 4000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	405.8	405.8	4000ug	10.00mg	*******		11/13/2014 11:16:55 AM

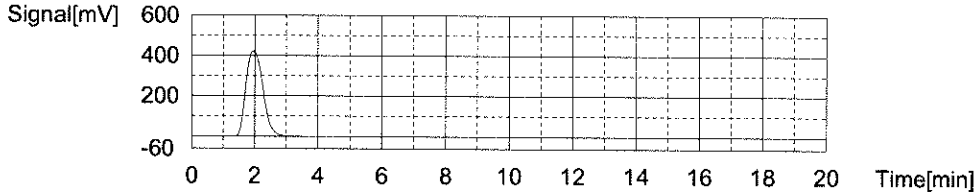
Mean Area 405.8
Mean CNV 405.8



AbsC: 16000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	1584	1584	16000ug	40.00mg	*******		11/13/2014 11:25:46 AM

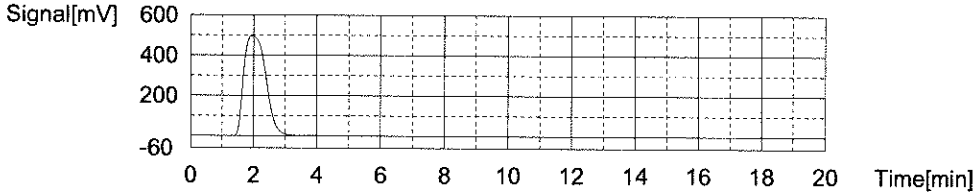
Mean Area 1584
Mean CNV 1584



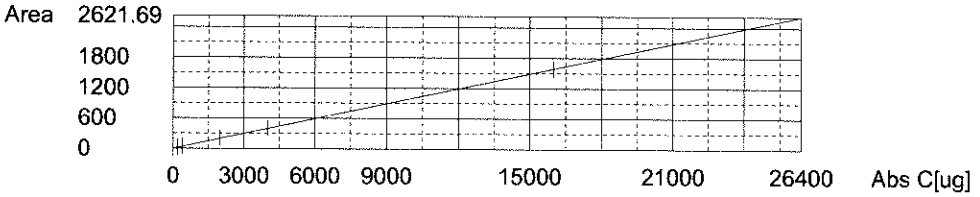
AbsC: 24000ug

No.	Area	CNV	Abs C	Weight	Rem.	Ex.	Date / Time
1	2392	2392	24000ug	60.00mg	*******		11/13/2014 11:38:17 AM

Mean Area 2392
Mean CNV 2392



Slope: 0.09931
Intercept 0.000
r^2 0.999940



TOTAL SOLIDS BATCH REPORT
Dec 15 2014, 10:29 am
Batch: WG155606

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
TH0331-1	SL	SAMP	WG155606	12-DEC-14	1.3252 g	7.0703 g	7.0136 g	AZ	15-DEC-14	99.0130	99. %		
TH0331-2	SL	SAMP	WG155606	12-DEC-14	1.3338 g	8.6071 g	8.5314 g	AZ	15-DEC-14	98.9590	99. %		
TH0331-3	SL	SAMP	WG155606	12-DEC-14	1.3179 g	8.116 g	8.0541 g	AZ	15-DEC-14	99.0890	99. %		
TH0425-1	SL	SAMP	WG155606	12-DEC-14	1.3275 g	3.7393 g	3.1518 g	AZ	15-DEC-14	75.6410	76. %		
TH0425-2	SL	SAMP	WG155606	12-DEC-14	1.3275 g	3.7393 g	3.1518 g	AZ	15-DEC-14	75.6410	76. %		
TH0504-1	SL	SAMP	WG155606	12-DEC-14	1.3232 g	8.322 g	8.2722 g	AZ	15-DEC-14	99.2880	99. %		
TH0504-2	SL	SAMP	WG155606	12-DEC-14	1.3108 g	5.6861 g	5.5614 g	AZ	15-DEC-14	97.1500	97. %		
TH0504-3	SL	SAMP	WG155606	12-DEC-14	1.3358 g	5.415 g	5.3577 g	AZ	15-DEC-14	98.5950	98. %		
TH0504-4	SL	SAMP	WG155606	12-DEC-14	1.3268 g	7.9319 g	7.8743 g	AZ	15-DEC-14	99.1280	99. %		
TH0504-5	SL	SAMP	WG155606	12-DEC-14	1.3362 g	7.1278 g	6.9298 g	AZ	15-DEC-14	96.5810	96. %		
TH0530-1	SL	SAMP	WG155606	12-DEC-14	1.3424 g	10.5256 g	8.1387 g	AZ	15-DEC-14	74.0080	74. %		
TH0530-2	SL	SAMP	WG155606	12-DEC-14	1.3407 g	9.9383 g	7.1151 g	AZ	15-DEC-14	67.1630	67. %		
TH0530-3	SL	SAMP	WG155606	12-DEC-14	1.3374 g	12.1065 g	8.7713 g	AZ	15-DEC-14	69.0300	69. %		
TH0530-4	SL	SAMP	WG155606	12-DEC-14	1.3277 g	13.4249 g	9.5139 g	AZ	15-DEC-14	67.6700	68. %		
TH0530-6	SL	SAMP	WG155606	12-DEC-14	1.3381 g	17.0813 g	14.4452 g	AZ	15-DEC-14	83.2560	83. %		
TH0530-7	SL	SAMP	WG155606	12-DEC-14	1.3258 g	15.0934 g	10.0506 g	AZ	15-DEC-14	63.3720	63. %		
TH0530-8	SL	SAMP	WG155606	12-DEC-14	1.3143 g	10.8674 g	8.0577 g	AZ	15-DEC-14	70.5890	70. %		
TH0530-9	SL	SAMP	WG155606	12-DEC-14	1.3325 g	12.3453 g	8.8249 g	AZ	15-DEC-14	68.0340	68. %		
TH0532-4	SL	SAMP	WG155606	12-DEC-14	1.3316 g	26.6117 g	21.8669 g	AZ	15-DEC-14	81.2310	81. %		
TH0532-5	SL	SAMP	WG155606	12-DEC-14	1.3417 g	23.148 g	18.8571 g	AZ	15-DEC-14	80.3230	80. %		
TH0565-1	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-10	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-11	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-12	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-13	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-14	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-15	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-16	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-2	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-3	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-4	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-5	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-6	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-7	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-8	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
TH0565-9	SL	SAMP	WG155606	12-DEC-14	1 g	5 g	5 g	AZ	15-DEC-14	100.0000	100 %		
WG155606-1	SL	MBLANK	WG155606	12-DEC-14	1.3271 g	1.8243 g	1.3267 g	AZ	15-DEC-14	-0.0800	1 %		
WG155606-2	SL	LCS	WG155606	12-DEC-14	1.3204 g	6.3168 g	5.8245 g	AZ	15-DEC-14	90.1470	90. %	100	
WG155606-3	SL	DUP	WG155606	12-DEC-14	1.2941 g	18.1261 g	15.389 g	AZ	15-DEC-14	83.7390	84. %		3
WG155606-4	SL	DUP	WG155606	12-DEC-14	1.3138 g	20.3895 g	16.5379 g	AZ	15-DEC-14	79.8090	80. %		1

Comments:

TH0530-5	MS/MSD
TH0532-4	MS/MSD, VPB153-Soil-112014-423-425
TH0532-5	VPB153-Soil-D-112014
TH0565-1	HMC Admin Bldg Lot #1007A
TH0565-10	HMC Admin Bldg Lot #1011B
TH0565-11	HMC Admin Bldg Lot #1012A

Entered by: _____ Date: 12-15-14 Accepted by: _____ Date: 12/15/14

Katahdin Analytical Services 0000170

TOTAL SOLIDS BATCH REPORT
Dec 15 2014, 10:29 am
Batch: WG155606

TH0565-12	HMC Admin Bldg Lot #1012B
TH0565-13	HMC Admin Bldg Lot #1013A
TH0565-14	HMC Admin Bldg Lot #1013B
TH0565-15	HMC Lab-Ch. House Lot #1014A
TH0565-16	HMC Lab-Ch. House Lot #1014B
TH0565-2	HMC Admin Bldg Lot #1007B
TH0565-3	HMC Admin Bldg Lot #1008A
TH0565-4	HMC Admin Bldg Lot #1008B
TH0565-5	HMC Admin Bldg Lot #1009A
TH0565-6	HMC Admin Bldg Lot #1009B
TH0565-7	HMC Admin Bldg Lot #1010A
TH0565-8	HMC Admin Bldg Lot #1010B
TH0565-9	HMC Admin Bldg Lot #1011A
WG155606-1	TH0532-4
WG155606-2	TH0532-4
WG155606-3	TH0532-4
WG155606-4	TH0532-5

Entered by: AB Date: 12-15-14 Accepted by: [illegible] Date: 12/15/14

WG155606 R301737

KATAHDIN ANALYTICAL SERVICES, INC.

TOTAL SOLIDS: ASTM D2216 - PQL: 0.10%				TOTAL VOLATILE SOLIDS: SM2540 G / E160.4 - PQL 0.10%	
ANALYST IN:	AB	TS ANALYST OUT:	AB	TVS ANALYST OUT:	Balance Calibrated?
DATE IN:	12-12-14	TS DATE OUT:	12-15-14	TVS DATE OUT:	Y / N
TIME IN:	17:09	TS TIME OUT:	9:07	TVS TIME OUT:	In: Y
TEMP IN:	102°C	TS TEMP OUT:	103°C	TVS TEMP OUT:	Out (TS): Y
Oven ID:	107N0042	Muffle Oven ID:	030807 (assigned)	BALANCE ID: OHAUS - SN: 112401631	Out (TVS):

SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
Blank	21					
LCS	22					
TH0331-1	1					
-2	2					
-3	3					
TH0425-1/2	4					
TH0504-1	5					
-2	6					
-3	7					
-4	8					
-5	9					
TH0530-1	10					
-2	~~10~~ 11					
-3	12					
-4	13					
-5	14	Sample Spilled after Drying.				
-6	15					
-7	16					
-8	17					
-9	18					
TH0532-4	19					
TH0532-5	20					
TH0532-4 Dup	23					
TH0532-5 Dup	24					

CHECKED BY: [illegible] DATE: 12/15/14

TH0565-1 → 16 TS=100%
TH0425-2 use TS from TH0425-1

WL-009 - Revision 3 - 06/04/2014

QAWL748