AECOM ENVIRONMENT
NAVY CLEAN WE15
NWIRP BETHPAGE, NY
SG5943

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

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SAMPLE DATA PACKAGE

0000001

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
AECOM ENVIRONMENT
NAVY CLEAN WE15 NWIRP BETHPAGE, NY
SG5943

Sample Receipt

The following samples were received on August 09, 2013 and were logged in under Katahdin Analytical Services work order number SG5943 for a hardcopy due date of August 28, 2013.

KATAHDIN Sample No.	AECOM Sample Identification
SG5943-1	TT102D2-GW-080813
SG5943-2	TRIP BLANK

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

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

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

Subcontracted Data

Analyses for volatiles by Method EPA 524.2 were performed by a subcontracted laboratory. Please refer to the sections of the data package titled Subcontracted Data.

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
090413

Leslie Dimond
Quality Assurance Officer

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC23413 **Client:** RESOLUTION CONSULTANTS **Immediate Client Services Action Required:** No

Date / Time Received: 8/9/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: NWIRP BETHPAGE **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

000003

SG5943

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

PEP FA Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC23413

Client / Reporting Information

Company Name: Resolution Consultants
Street Address: 100 Red Schoolhouse Rd.
City / State / Zip: Chestnut Ridge, NY 10977
Project Contact / E-mail: Eleanor Vivaudou evivaudou@resolutionconsultants.com
Phone # / Fax #: 845-426-4950
Sampler(s) Name(s) / Phone #: Michael Zosel 631-561-1346

Project Information

Project Name: NWIKP Bethpage
Street:
City: Bethpage
Project #: 60266526
Client PO#:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention: PO#: 60 266526 FI, WT

Requested Analysis (see TEST CODE sheet)

VOC Method 524

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH Vial #	Collected: Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Ascorbic	LAB USE ONLY
-1	TT102D2-GW-080913		8-8-13	12:00	MZ	GW	3	X									
-2	TripBlank		3-15-13	14:45	-	-	2	X									
																	2K3

Data Deliverable Information

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULL T1 (Level 3+4)
- CT RCP
- MA MCP
- NYASP Category A
- NYASP Category B
- State Forms
- EDD Format
- Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Turnaround Time (Business days) — Approved By (Accutest PM) / Date:

- Std. 10 Business Days
- Std. 5 Business Days (By Contract only)
- 5 Day *RUSH*
- 3 Day *EMERGENCY*
- 2 Day *EMERGENCY*
- 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Labtalk

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Michael Zosel	8-8-13 1300	1 Fedex	2 Fedex	8/9/13 9:30	2
3		3	4		4
5		5	Custody Seal # ☐ Intact ☐ Not Intact	Preserved where applicable ☐	On Ice ☒ Cooler Temp. 2.0°

0000004

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 12, 2013
10:43 AM

Login Number: SG5943

Account: METCAL001
AECOM Environment

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

NoWeb

Quote/Incoming: AECOM-BETHPAGE

Primary Report Address:
Rick Purdy
AECOM
701 Edgewater Drive

Wakefield,MA 01880
richard.purdy@aecom.com

Primary Invoice Address:
Keith Wright
AECOM Environment (Navy Clean)
4840 Cox Road

Glen Allen,VA 23060

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. Must use soxhlet for PCB extraction.
CHECK NO.	:	
CLIENT PO#	:	60266526 ATS-3(WE15); MSA:12S15180LA12
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	
COOLER TEMPERATURE	:	
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	JO
PM	:	JO
PROJECT NAME	:	Navy Clean WE15 NWIRP Bethpage, NY
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send HC and CD to Rick.
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SG5943-1	TT102D2-GW-080813	08-AUG-13 12:00	09-AUG-13			28-AUG-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E524.2-VOA-SUB	22-AUG-13	40mL Vial+HCl		subbed directly to Accutest-Work order MC23413

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SG5943-2	TRIP BLANK	08-AUG-13 00:00	09-AUG-13			28-AUG-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E524.2-VOA-SUB	22-AUG-13	40mL Vial+HCl		subbed directly to Accutest-Work order MC23413

Total Samples: **2** ***Total Analyses:*** **2**

QP
08.12.13

0000005

SUBCONTRACTED DATA

EPA METHOD 524.2

New England ACCUTEST LABORATORIES

08/30/13

Technical Report for

Katahdin Analytical Services

RCNYCR: NWIRP Bethpage, NY

60265526

Accutest Job Number: MC23413

Sampling Dates: 03/15/13 - 08/08/13

Report to:

Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
jobrin@katahdinlab.com

ATTN: Jennifer Obrin

Total number of pages in report: **90**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) ISO 17025:2005 (L2235)

Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

Katahdin Analytical Services

Job No: MC23413

RCNYCR: NWIRP Bethpage, NY
Project No: 60265526

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC23413-1	08/08/13	12:00	MZ	08/09/13	AQ	Ground Water	TT102D2-GW-080813
MC23413-2	03/15/13	14:45	MZ	08/09/13	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Katahdin Analytical Services	**Job No**	MC23413
Site:	RCNYCR: NWIRP Bethpage, NY	**Report Date**	8/30/2013 10:43:24 AM

1 Sample(s) and 1 Trip Blank(s) were collected on between 03/15/2013 and 08/08/2013 and were received at Accutest on 08/09/2013 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of MC23413. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 524.2 REV 4.1

Matrix AQ **Batch ID:** MST1082

- All method blanks for this batch meet method specific criteria.
- Sample(s) MC23507-1DUP were used as the QC samples indicated.
- MST1082-BSD for 1,4-Dioxane: Outside control limits. Associated samples are non-detect for this compound.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC23413).

Summary of Hits

Job Number: MC23413
Account: Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY
Collected: 03/15/13 thru 08/08/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
MC23413-1	**TT102D2-GW-080813**					
No hits reported in this sample.						
MC23413-2	**TRIP BLANK**					
Methylene chloride		1.2	0.50	0.25	ug/l	EPA 524.2 REV 4.1

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID: TT102D2-GW-080813
Lab Sample ID: MC23413-1
Matrix: AQ - Ground Water
Method: EPA 524.2 REV 4.1
Project: RCNYCR: NWIRP Bethpage, NY

Date Sampled: 08/08/13
Date Received: 08/09/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T31081.D	1	08/15/13	JM	n/a	n/a	MST1082
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	0.50 U	5.0	0.50	ug/l	
78-93-3	2-Butanone	0.25 U	0.50	0.25	ug/l	
71-43-2	Benzene	0.25 U	0.50	0.25	ug/l	
108-86-1	Bromobenzene	0.25 U	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	0.25 U	0.50	0.25	ug/l	
75-27-4	Bromodichloromethane	0.25 U	0.50	0.25	ug/l	
75-25-2	Bromoform	0.25 U	0.50	0.25	ug/l	
74-83-9	Bromomethane	0.50 U	0.50	0.50	ug/l	
104-51-8	n-Butylbenzene	0.25 U	0.50	0.25	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	0.50	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.25 U	0.50	0.25	ug/l	
75-15-0	Carbon disulfide	0.25 U	0.50	0.25	ug/l	
108-90-7	Chlorobenzene	0.25 U	0.50	0.25	ug/l	
75-00-3	Chloroethane	0.50 U	0.50	0.50	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	ug/l	
74-87-3	Chloromethane	0.50 U	0.50	0.50	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	0.50	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.25 U	0.50	0.25	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	0.50	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	ug/l	
563-58-6	1,1-Dichloropropene	0.25 U	0.50	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	0.50	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.25 U	0.50	0.25	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.25 U	0.50	0.25	ug/l	
594-20-7	2,2-Dichloropropane	0.25 U	0.50	0.25	ug/l	
124-48-1	Dibromochloromethane	0.25 U	0.50	0.25	ug/l	
74-95-3	Dibromomethane	0.25 U	0.50	0.25	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	0.50	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.25 U	0.50	0.25	ug/l	

U = Not detected LOD - Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TT102D2-GW-080813
Lab Sample ID: MC23413-1
Matrix: AQ - Ground Water
Method: EPA 524.2 REV 4.1
Project: RCNYCR: NWIRP Bethpage, NY

Date Sampled: 08/08/13
Date Received: 08/09/13
Percent Solids: n/a

VOA List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
541-73-1	m-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	0.50	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	0.50	0.25	ug/l	
123-91-1	1,4-Dioxane	25 U	25	25	ug/l	
100-41-4	Ethylbenzene	0.25 U	0.50	0.25	ug/l	
87-68-3	Hexachlorobutadiene	0.25 U	0.50	0.25	ug/l	
591-78-6	2-Hexanone	0.50 U	0.50	0.50	ug/l	
98-82-8	Isopropylbenzene	0.25 U	0.50	0.25	ug/l	
99-87-6	p-Isopropyltoluene	0.25 U	0.50	0.25	ug/l	
75-09-2	Methylene chloride	0.25 U	0.50	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.25 U	0.50	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone	0.50 U	0.50	0.50	ug/l	
91-20-3	Naphthalene	0.25 U	0.50	0.25	ug/l	
103-65-1	n-Propylbenzene	0.25 U	0.50	0.25	ug/l	
100-42-5	Styrene	0.25 U	0.50	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.25 U	0.50	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	0.25 U	0.50	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.25 U	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.25 U	0.50	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.25 U	0.50	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	0.25 U	0.50	0.25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.25 U	0.50	0.25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.25 U	0.50	0.25	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.25 U	0.50	0.25	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	ug/l	
108-88-3	Toluene	0.25 U	0.50	0.25	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	ug/l	
75-69-4	Trichlorofluoromethane	0.25 U	0.50	0.25	ug/l	
75-01-4	Vinyl chloride	0.25 U	0.50	0.25	ug/l	
	m,p-Xylene	0.50 U	0.50	0.50	ug/l	
95-47-6	o-Xylene	0.25 U	0.50	0.25	ug/l	
1330-20-7	Xylenes (total)	0.25 U	0.50	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	96%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

U = Not detected LOD - Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: MC23413-2
Matrix: AQ - Trip Blank Water
Method: EPA 524.2 REV 4.1
Project: RCNYCR: NWIRP Bethpage, NY

Date Sampled: 03/15/13
Date Received: 08/09/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T31067.D	1	08/15/13	JM	n/a	n/a	MST1082
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	0.50 U	5.0	0.50	ug/l	
78-93-3	2-Butanone	0.25 U	0.50	0.25	ug/l	
71-43-2	Benzene	0.25 U	0.50	0.25	ug/l	
108-86-1	Bromobenzene	0.25 U	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	0.25 U	0.50	0.25	ug/l	
75-27-4	Bromodichloromethane	0.25 U	0.50	0.25	ug/l	
75-25-2	Bromoform	0.25 U	0.50	0.25	ug/l	
74-83-9	Bromomethane	0.50 U	0.50	0.50	ug/l	
104-51-8	n-Butylbenzene	0.25 U	0.50	0.25	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	0.50	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.25 U	0.50	0.25	ug/l	
75-15-0	Carbon disulfide	0.25 U	0.50	0.25	ug/l	
108-90-7	Chlorobenzene	0.25 U	0.50	0.25	ug/l	
75-00-3	Chloroethane	0.50 U	0.50	0.50	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	ug/l	
74-87-3	Chloromethane	0.50 U	0.50	0.50	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	0.50	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.25 U	0.50	0.25	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	0.50	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.25 U	0.50	0.25	ug/l	
563-58-6	1,1-Dichloropropene	0.25 U	0.50	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	0.50	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.25 U	0.50	0.25	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.25 U	0.50	0.25	ug/l	
594-20-7	2,2-Dichloropropane	0.25 U	0.50	0.25	ug/l	
124-48-1	Dibromochloromethane	0.25 U	0.50	0.25	ug/l	
74-95-3	Dibromomethane	0.25 U	0.50	0.25	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	0.50	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.25 U	0.50	0.25	ug/l	

U = Not detected LOD - Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: MC23413-2
Matrix: AQ - Trip Blank Water
Method: EPA 524.2 REV 4.1
Project: RCNYCR: NWIRP Bethpage, NY

Date Sampled: 03/15/13
Date Received: 08/09/13
Percent Solids: n/a

VOA List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
541-73-1	m-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	0.50	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	0.50	0.25	ug/l	
123-91-1	1,4-Dioxane	25 U	25	25	ug/l	
100-41-4	Ethylbenzene	0.25 U	0.50	0.25	ug/l	
87-68-3	Hexachlorobutadiene	0.25 U	0.50	0.25	ug/l	
591-78-6	2-Hexanone	0.50 U	0.50	0.50	ug/l	
98-82-8	Isopropylbenzene	0.25 U	0.50	0.25	ug/l	
99-87-6	p-Isopropyltoluene	0.25 U	0.50	0.25	ug/l	
75-09-2	Methylene chloride	1.2	0.50	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.25 U	0.50	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone	0.50 U	0.50	0.50	ug/l	
91-20-3	Naphthalene	0.25 U	0.50	0.25	ug/l	
103-65-1	n-Propylbenzene	0.25 U	0.50	0.25	ug/l	
100-42-5	Styrene	0.25 U	0.50	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.25 U	0.50	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	0.25 U	0.50	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.25 U	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.25 U	0.50	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.25 U	0.50	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	0.25 U	0.50	0.25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.25 U	0.50	0.25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.25 U	0.50	0.25	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.25 U	0.50	0.25	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	ug/l	
108-88-3	Toluene	0.25 U	0.50	0.25	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	ug/l	
75-69-4	Trichlorofluoromethane	0.25 U	0.50	0.25	ug/l	
75-01-4	Vinyl chloride	0.25 U	0.50	0.25	ug/l	
	m,p-Xylene	0.50 U	0.50	0.50	ug/l	
95-47-6	o-Xylene	0.25 U	0.50	0.25	ug/l	
1330-20-7	Xylenes (total)	0.25 U	0.50	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	95%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

U = Not detected LOD - Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED EX Tracking #:
Accutest Quote #:
Bottle Order Control #:
Accutest Job #: MC23413

Client / Reporting Information

Company Name: Resolution Consultants
Street Address: 100 Red Schoolhouse Rd.
City: Chestnut Ridge State: NY Zip: 10977
Project Contact: Eleanor Vivadou E-mail: evivadou@RAGGroup.com
Phone #: 845-425-4440 Fax #:
Sampler(s) Name(s): Michael Zobel Phone #: 631-561-1346

Project Information

Project Name: NWJAP Bethpage
Street:
City: Bethpage
Project #: 60266526
Client PO#:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
PO#: 60 266526 FI, WI
Attention:

Requested Analysis (see TEST CODE sheet)

VOC method 524

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OL - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NaOH, ZnAc	DI Water	NaHSO4	Encore	Ascorbate	LAB USE ONLY
-1	TP102D2-GW-080813		8-8-13	12:00	MZ	GW	3	X									2K3
-2	Trip Blank		3-15-13	14:45	-	-	2	X									

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- Std. 10 Business Days
- Std. 5 Business Days (By Contract only)
- 5 Day RUSH
- 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Labtrack

Data Deliverable Information

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULLT1 (Level 3+4)
- CT RCP
- MA MCP
- NYASP Category A
- NYASP Category B
- State Forms
- EDD Format
- Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		8-8-13 1300	Fedex	Fedex	8/9/13 9:30	
2	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3						
4	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.
5						2.0°

MC23413: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC23413 **Client:** RESOLUTION CONSULTANTS **Immediate Client Services Action Required:** No

Date / Time Received: 8/9/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: NWIRP BETHPAGE **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control -Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC23413: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Katahdin Analytical Services

Job No: MC23413

RCNYCR: NWIRP Bethpage, NY
Project No: 60265526

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC23413-1 Collected: 08-AUG-13 12:00 By: MZ TT102D2-GW-080813			Received: 09-AUG-13 By:			
MC23413-1	EPA 524.2 REV 4.1	15-AUG-13 19:47	JM			V524STD
MC23413-2 Collected: 15-MAR-13 14:45 By: MZ TRIP BLANK			Received: 09-AUG-13 By:			
MC23413-2	EPA 524.2 REV 4.1	15-AUG-13 13:34	JM			V524STD

Accutest Internal Chain of Custody

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY
Received: 08/09/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC23413-1.1	VOC Ref #2	Jaime Maslowski	08/15/13 12:27	Retrieve from Storage
MC23413-1.1	Jaime Maslowski	GCMST	08/15/13 12:27	Load on Instrument
MC23413-1.1	GCMST	Jaime Maslowski	08/19/13 14:50	Unload from Instrument
MC23413-1.1	Jaime Maslowski	VOC Ref #2	08/19/13 14:50	Return to Storage
MC23413-2.1	VOC Ref #2	Jaime Maslowski	08/15/13 12:27	Retrieve from Storage
MC23413-2.1	Jaime Maslowski	GCMST	08/15/13 12:27	Load on Instrument
MC23413-2.1	GCMST	Jaime Maslowski	08/19/13 14:50	Unload from Instrument
MC23413-2.1	Jaime Maslowski	VOC Ref #2	08/19/13 14:50	Return to Storage

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1082-MB	T31066.D	1	08/15/13	JM	n/a	n/a	MST1082

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC23413-1, MC23413-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	0.43	ug/l	
78-93-3	2-Butanone	ND	0.50	0.12	ug/l	
71-43-2	Benzene	ND	0.50	0.064	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.11	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.11	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.068	ug/l	
75-25-2	Bromoform	ND	0.50	0.11	ug/l	
74-83-9	Bromomethane	ND	0.50	0.28	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.081	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.099	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.078	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.079	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.072	ug/l	
75-00-3	Chloroethane	ND	0.50	0.25	ug/l	
67-66-3	Chloroform	ND	0.50	0.093	ug/l	
74-87-3	Chloromethane	ND	0.50	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.10	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.079	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.12	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.079	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.18	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.094	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.39	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.095	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.11	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.094	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.11	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.11	ug/l	
74-95-3	Dibromomethane	ND	0.50	0.067	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.095	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.083	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.081	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	

Method Blank Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1082-MB	T31066.D	1	08/15/13	JM	n/a	n/a	MST1082

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC23413-1, MC23413-2

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.077	ug/l	
123-91-1	1,4-Dioxane	ND	25	12	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.063	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.50	0.087	ug/l	
591-78-6	2-Hexanone	ND	0.50	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.078	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.084	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.21	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.077	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.32	ug/l	
91-20-3	Naphthalene	ND	0.50	0.063	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.097	ug/l	
100-42-5	Styrene	ND	0.50	0.066	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.063	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.11	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.11	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.11	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.087	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.083	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.087	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.11	ug/l	
108-88-3	Toluene	ND	0.50	0.096	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.14	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.10	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries		Limits
2199-69-1	1,2-Dichlorobenzene-d4	96%	70-130%

Method Blank Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1082-MB	T31066.D	1	08/15/13	JM	n/a	n/a	MST1082

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC23413-1, MC23413-2

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1082-BS	T31063.D	1	08/15/13	JM	n/a	n/a	MST1082
MST1082-BSD	T31064.D	1	08/15/13	JM	n/a	n/a	MST1082

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC23413-1, MC23413-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	5	5.6	112	5.5	110	2	70-130/30
78-93-3	2-Butanone	5	5.8	116	5.7	114	2	70-130/30
71-43-2	Benzene	5	5.4	108	5.4	108	0	70-130/30
108-86-1	Bromobenzene	5	5.2	104	5.3	106	2	70-130/30
74-97-5	Bromochloromethane	5	5.4	108	5.1	102	6	70-130/30
75-27-4	Bromodichloromethane	5	5.4	108	5.4	108	0	70-130/30
75-25-2	Bromoform	5	5.6	112	6.0	120	7	70-130/30
74-83-9	Bromomethane	5	6.3	126	6.2	124	2	70-130/30
104-51-8	n-Butylbenzene	5	5.2	104	4.9	98	6	70-130/30
135-98-8	sec-Butylbenzene	5	4.9	98	4.8	96	2	70-130/30
98-06-6	tert-Butylbenzene	5	4.8	96	4.8	96	0	70-130/30
75-15-0	Carbon disulfide	5	6.1	122	6.1	122	0	70-130/30
108-90-7	Chlorobenzene	5	5.0	100	4.9	98	2	70-130/30
75-00-3	Chloroethane	5	6.3	126	6.0	120	5	70-130/30
67-66-3	Chloroform	5	5.4	108	5.3	106	2	70-130/30
74-87-3	Chloromethane	5	6.4	128	6.4	128	0	70-130/30
95-49-8	o-Chlorotoluene	5	4.7	94	4.8	96	2	70-130/30
106-43-4	p-Chlorotoluene	5	5.1	102	5.0	100	2	70-130/30
56-23-5	Carbon tetrachloride	5	5.3	106	5.3	106	0	70-130/30
75-34-3	1,1-Dichloroethane	5	5.5	110	5.4	108	2	70-130/30
75-35-4	1,1-Dichloroethylene	5	6.0	120	5.4	108	11	70-130/30
563-58-6	1,1-Dichloropropene	5	5.2	104	5.3	106	2	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	5	5.6	112	5.7	114	2	70-130/30
106-93-4	1,2-Dibromoethane	5	5.2	104	5.3	106	2	70-130/30
107-06-2	1,2-Dichloroethane	5	5.3	106	5.3	106	0	70-130/30
78-87-5	1,2-Dichloropropane	5	5.3	106	5.4	108	2	70-130/30
142-28-9	1,3-Dichloropropane	5	5.2	104	5.3	106	2	70-130/30
594-20-7	2,2-Dichloropropane	5	5.1	102	5.3	106	4	70-130/30
124-48-1	Dibromochloromethane	5	5.5	110	5.4	108	2	70-130/30
74-95-3	Dibromomethane	5	4.9	98	5.1	102	4	70-130/30
75-71-8	Dichlorodifluoromethane	5	6.2	124	6.4	128	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	5	4.9	98	5.1	102	4	70-130/30
541-73-1	m-Dichlorobenzene	5	5.0	100	4.8	96	4	70-130/30
95-50-1	o-Dichlorobenzene	5	4.9	98	4.8	96	2	70-130/30
106-46-7	p-Dichlorobenzene	5	5.3	106	5.3	106	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	5	5.3	106	5.3	106	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1082-BS	T31063.D	1	08/15/13	JM	n/a	n/a	MST1082
MST1082-BSD	T31064.D	1	08/15/13	JM	n/a	n/a	MST1082

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC23413-1, MC23413-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	5	4.9	98	5.1	102	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	5	5.4	108	5.3	106	2	70-130/30
123-91-1	1,4-Dioxane	25	29.9	120	34.7	139* [a]	15	70-130/30
100-41-4	Ethylbenzene	5	5.2	104	5.1	102	2	70-130/30
87-68-3	Hexachlorobutadiene	5	5.9	118	6.3	126	7	70-130/30
591-78-6	2-Hexanone	5	4.7	94	4.7	94	0	70-130/30
98-82-8	Isopropylbenzene	5	4.9	98	4.9	98	0	70-130/30
99-87-6	p-Isopropyltoluene	5	5.3	106	5.2	104	2	70-130/30
75-09-2	Methylene chloride	5	5.3	106	5.4	108	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	5	5.2	104	5.1	102	2	70-130/30
108-10-1	4-Methyl-2-pentanone	5	5.8	116	5.8	116	0	70-130/30
91-20-3	Naphthalene	5	5.2	104	5.1	102	2	70-130/30
103-65-1	n-Propylbenzene	5	4.9	98	4.9	98	0	70-130/30
100-42-5	Styrene	5	4.8	96	5.0	100	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	5	5.3	106	5.4	108	2	70-130/30
71-55-6	1,1,1-Trichloroethane	5	5.5	110	5.2	104	6	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	5	5.2	104	5.2	104	0	70-130/30
79-00-5	1,1,2-Trichloroethane	5	5.1	102	5.1	102	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	5	5.6	112	5.8	116	4	70-130/30
96-18-4	1,2,3-Trichloropropane	5	5.2	104	5.3	106	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	5	5.4	108	5.4	108	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	5	5.0	100	5.0	100	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	5	5.0	100	4.9	98	2	70-130/30
127-18-4	Tetrachloroethylene	5	5.3	106	5.2	104	2	70-130/30
108-88-3	Toluene	5	5.3	106	5.3	106	0	70-130/30
79-01-6	Trichloroethylene	5	5.2	104	5.0	100	4	70-130/30
75-69-4	Trichlorofluoromethane	5	5.5	110	5.6	112	2	70-130/30
75-01-4	Vinyl chloride	5	5.2	104	4.9	98	6	70-130/30
	m,p-Xylene	10	10.0	100	9.9	99	1	70-130/30
95-47-6	o-Xylene	5	4.8	96	4.6	92	4	70-130/30
1330-20-7	Xylenes (total)	15	14.9	99	14.5	97	3	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2199-69-1	1,2-Dichlorobenzene-d4	106%	103%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1082-BS	T31063.D	1	08/15/13	JM	n/a	n/a	MST1082
MST1082-BSD	T31064.D	1	08/15/13	JM	n/a	n/a	MST1082

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC23413-1, MC23413-2

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	108%	108%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC23507-1DUP	T31070.D	1	08/15/13	JM	n/a	n/a	MST1082
MC23507-1	T31069.D	1	08/15/13	JM	n/a	n/a	MST1082

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC23413-1, MC23413-2

CAS No.	Compound	MC23507-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	30
78-93-3	2-Butanone	ND		ND		nc	30
71-43-2	Benzene	ND		ND		nc	30
108-86-1	Bromobenzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	30
75-15-0	Carbon disulfide	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	0.36		0.42	J	15	30
95-49-8	o-Chlorotoluene	ND		ND		nc	30
106-43-4	p-Chlorotoluene	ND		ND		nc	30
56-23-5	Carbon tetrachloride	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethylene	ND		ND		nc	30
563-58-6	1,1-Dichloropropene	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
594-20-7	2,2-Dichloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
74-95-3	Dibromomethane	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
541-73-1	m-Dichlorobenzene	ND		ND		nc	30
95-50-1	o-Dichlorobenzene	ND		ND		nc	30
106-46-7	p-Dichlorobenzene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC23507-1DUP	T31070.D	1	08/15/13	JM	n/a	n/a	MST1082
MC23507-1	T31069.D	1	08/15/13	JM	n/a	n/a	MST1082

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC23413-1, MC23413-2

CAS No.	Compound	MC23507-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
123-91-1	1,4-Dioxane	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	30
87-68-3	Hexachlorobutadiene	ND		ND		nc	30
591-78-6	2-Hexanone	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	30
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone	ND		ND		nc	30
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	30
100-42-5	Styrene	ND		ND		nc	30
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	30
127-18-4	Tetrachloroethylene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	30
79-01-6	Trichloroethylene	ND		ND		nc	30
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	30
95-47-6	o-Xylene	ND		ND		nc	30
1330-20-7	Xylenes (total)	ND		ND		nc	30

CAS No.	Surrogate Recoveries	DUP	MC23507-1	Limits
2199-69-1	1,2-Dichlorobenzene-d4	98%	91%	70-130%

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC23507-1DUP	T31070.D	1	08/15/13	JM	n/a	n/a	MST1082
MC23507-1	T31069.D	1	08/15/13	JM	n/a	n/a	MST1082

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC23413-1, MC23413-2

CAS No.	Surrogate Recoveries	DUP	MC23507-1	Limits
460-00-4	4-Bromofluorobenzene	97%	92%	70-130%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-BFB
Lab File ID: T30576.D
Instrument ID: GCMST
Injection Date: 07/10/13
Injection Time: 08:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	3514	18.1		Pass
75	30.0 - 80.0% of mass 95	9164	47.1		Pass
95	Base peak, 100% relative abundance	19456	100.0		Pass
96	5.0 - 9.0% of mass 95	1292	6.64		Pass
173	Less than 2.0% of mass 174	260	1.34	(1.64) [a]	Pass
174	50.0 - 150.0% of mass 95	15870	81.6		Pass
175	5.0 - 9.0% of mass 174	1382	7.10	(8.71) [a]	Pass
176	95.0 - 101.0% of mass 174	15319	78.7	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	1039	5.34	(6.78) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MST1065-IC1065	T30577.D	07/10/13	09:23	00:26	Initial cal 0.5
MST1065-IC1065	T30578.D	07/10/13	09:50	00:53	Initial cal 1
MST1065-IC1065	T30579.D	07/10/13	10:17	01:20	Initial cal 2
MST1065-ICC1065	T30580.D	07/10/13	10:43	01:46	Initial cal 5
MST1065-IC1065	T30581.D	07/10/13	11:11	02:14	Initial cal 10
MST1065-IC1065	T30582.D	07/10/13	11:38	02:41	Initial cal 20
MST1065-IC1065	T30583.D	07/10/13	12:07	03:10	Initial cal 40
MST1065-IC1065	T30584.D	07/10/13	12:34	03:37	Initial cal 80
MST1065-ICV1065	T30589.D	07/10/13	15:03	06:06	Initial cal verification 20
MST1065-CC1065	T30589.D	07/10/13	15:03	06:06	Continuing cal 20
MST1065-BS	T30589.D	07/10/13	15:03	06:06	Blank Spike
MST1065-MB	T30591.D	07/10/13	15:57	07:00	Method Blank
ZZZZZZ	T30592.D	07/10/13	16:23	07:26	(unrelated sample)
ZZZZZZ	T30593.D	07/10/13	16:50	07:53	(unrelated sample)
MC22402-3	T30594.D	07/10/13	17:17	08:20	(used for QC only; not part of job MC23413)
MC22402-3DUP	T30595.D	07/10/13	17:44	08:47	Duplicate
ZZZZZZ	T30596.D	07/10/13	18:11	09:14	(unrelated sample)
ZZZZZZ	T30597.D	07/10/13	18:37	09:40	(unrelated sample)
ZZZZZZ	T30598.D	07/10/13	19:04	10:07	(unrelated sample)
ZZZZZZ	T30599.D	07/10/13	19:31	10:34	(unrelated sample)
ZZZZZZ	T30600.D	07/10/13	19:58	11:01	(unrelated sample)
ZZZZZZ	T30601.D	07/10/13	20:25	11:28	(unrelated sample)
ZZZZZZ	T30602.D	07/10/13	20:52	11:55	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1082-BFB
Lab File ID: T31063.D
Instrument ID: GCMST
Injection Date: 08/15/13
Injection Time: 11:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6365	23.3		Pass
75	30.0 - 80.0% of mass 95	13451	49.3		Pass
95	Base peak, 100% relative abundance	27280	100.0		Pass
96	5.0 - 9.0% of mass 95	1912	7.01		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	21064	77.2		Pass
175	5.0 - 9.0% of mass 174	1829	6.70	(8.68) [a]	Pass
176	95.0 - 101.0% of mass 174	20528	75.2	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	1442	5.29	(7.02) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MST1082-CC1065	T31063.D	08/15/13	11:46	00:00	Continuing cal 5
MST1082-BS	T31063.D	08/15/13	11:46	00:00	Blank Spike
MST1082-BSD	T31064.D	08/15/13	12:13	00:27	Blank Spike Duplicate
MST1082-MB	T31066.D	08/15/13	13:07	01:21	Method Blank
MC23413-2	T31067.D	08/15/13	13:34	01:48	TRIP BLANK
ZZZZZZ	T31068.D	08/15/13	14:01	02:15	(unrelated sample)
MC23507-1	T31069.D	08/15/13	14:27	02:41	(used for QC only; not part of job MC23413)
MC23507-1DUP	T31070.D	08/15/13	14:54	03:08	Duplicate
ZZZZZZ	T31071.D	08/15/13	15:21	03:35	(unrelated sample)
ZZZZZZ	T31072.D	08/15/13	15:48	04:02	(unrelated sample)
ZZZZZZ	T31073.D	08/15/13	16:14	04:28	(unrelated sample)
ZZZZZZ	T31074.D	08/15/13	16:41	04:55	(unrelated sample)
ZZZZZZ	T31075.D	08/15/13	17:08	05:22	(unrelated sample)
ZZZZZZ	T31076.D	08/15/13	17:34	05:48	(unrelated sample)
ZZZZZZ	T31077.D	08/15/13	18:01	06:15	(unrelated sample)
ZZZZZZ	T31078.D	08/15/13	18:27	06:41	(unrelated sample)
ZZZZZZ	T31079.D	08/15/13	18:54	07:08	(unrelated sample)
ZZZZZZ	T31080.D	08/15/13	19:21	07:35	(unrelated sample)
MC23413-1	T31081.D	08/15/13	19:47	08:01	TT102D2-GW-080813

Volatile Internal Standard/Surrogate Area Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Check Std:	MST1082-CC1065	**Injection Date:**	08/15/13
Lab File ID:	T31063.D	**Injection Time:**	11:46
Instrument ID:	GCMST	**Method:**	EPA 524.2 REV 4.1

	IS 1 AREA	RT	Surr 2 AREA	RT	Surr 3 AREA	RT
Initial Cal [a]	111431	9.54	35923	15.84	37392	14.11
Previous Check [b]	166066	9.54	55771	15.84	59784	14.11
Check Std [c]	165778	9.53	58315	15.83	62149	14.10
Upper Limit [d]	331556	10.03	116630	16.33	124298	14.60
Lower Limit [e]	82889	9.03	29158	15.33	31075	13.60

Lab Sample ID	IS 1 AREA	RT	Surr 2 AREA	RT	Surr 3 AREA	RT
MST1082-BS	165778	9.53	58315	15.83	62149	14.10
MST1082-BSD	163483	9.53	55685	15.83	61139	14.10
MST1082-MB	153137	9.53	48767	15.83	50075	14.10
MC23413-2	155567	9.53	49163	15.83	53017	14.10
ZZZZZZ	154879	9.53	49422	15.83	52945	14.11
MC23507-1	153657	9.53	46299	15.83	49291	14.11
MC23507-1DUP	153799	9.53	49786	15.83	51603	14.10
ZZZZZZ	159176	9.54	50669	15.83	53642	14.10
ZZZZZZ	165608	9.54	53597	15.83	56531	14.11
ZZZZZZ	149304	9.53	47883	15.83	50451	14.10
ZZZZZZ	159502	9.53	50854	15.83	55150	14.10
ZZZZZZ	157034	9.54	51044	15.83	53123	14.11
ZZZZZZ	155108	9.54	49629	15.83	52355	14.11
ZZZZZZ	158327	9.54	50780	15.83	52704	14.11
ZZZZZZ	154877	9.53	51647	15.83	53460	14.11
ZZZZZZ	149405	9.54	47091	15.83	49429	14.10
ZZZZZZ	153491	9.53	49888	15.83	51424	14.11
MC23413-1	153649	9.53	48711	15.83	50781	14.10

IS 1 = Fluorobenzene
Surr 2 = 1,2-Dichlorobenzene-d4
Surr 3 = 4-Bromofluorobenzene

(a) Initial Cal is: MST1065-ICC1065 T30580.D 07/10/13 10:43
(b) Previous Check is: MST1081-CC1065 T31037.D 08/14/13 13:23
(c) Check Std Limit = -30% of previous check area; -50% of initial cal area.
(d) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(e) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Method: EPA 524.2 REV 4.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
MC23413-1	T31081.D	96.0	95.0
MC23413-2	T31067.D	95.0	98.0
MC23507-1DUP	T31070.D	98.0	97.0
MST1082-BS	T31063.D	106.0	108.0
MST1082-BSD	T31064.D	103.0	108.0
MST1082-MB	T31066.D	96.0	94.0

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichlorobenzene-d4	70-130%
S2 = 4-Bromofluorobenzene	70-130%

Initial Calibration Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICC1065
Lab FileID: T30580.D

Response Factor Report MST

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524
Last Update : Wed Jul 10 14:20:00 2013
Response via : Initial Calibration

Calibration Files
10 =T30581.D 2 =T30579.D 1 =T30578.D 0.5 =T30577.D
20 =T30582.D 80 =T30584.D 40 =T30583.D 5 =T30580.D

Compound	10	2	1	0.5	20	80	40	5	Avg	%RSD
1) I fluorobenzene	----------	----------	ISTD	----------	----------	----------	----------	----------		
2) dichlorodifl	0.183	0.225	0.205	0.232	0.190	0.153	0.182	0.213	0.198	13.07
3) chloromethan	0.295	0.366	0.385	0.403	0.291	0.247	0.281	0.329	0.325	17.02
4) vinyl chlori	0.323	0.374	0.348	0.591	0.339	0.297	0.321	0.349	0.368	25.27
	---- Linear regression ---- Coefficient = 0.9982									
	Response Ratio = 0.06106 + 0.29860 *A									
5) bromomethane	0.170	0.189	0.211	0.292	0.169	0.144	0.160	0.181	0.189	24.29
	---- Linear regression ---- Coefficient = 0.9957									
	Response Ratio = 0.01571 + 0.15109 *A									
6) Ethanol	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.001	0.002	82.89
	---- Linear regression ---- Coefficient = 0.9932									
	Response Ratio = 0.01985 + 0.00128 *A									
7) chloroethane	0.144	0.166	0.144	0.173	0.137	0.121	0.147	0.165	0.150	11.58
8) acetone	0.020				0.019	0.019	0.022	0.012	0.018	19.49
9) ethyl ether	0.142	0.139	0.157	0.147	0.146	0.133	0.146	0.149	0.145	4.98
10) trichloroflu	0.366	0.395	0.364	0.409	0.378	0.322	0.366	0.392	0.374	7.12
11) 1,1-dichloro	0.194	0.234	0.261	0.397	0.202	0.181	0.198	0.217	0.235	29.73
	---- Linear regression ---- Coefficient = 0.9980									
	Response Ratio = 0.03893 + 0.18202 *A									
12) methylene ch	0.237	0.271	0.309	0.316	0.247	0.220	0.243	0.261	0.263	12.97
13) tertiary but	0.012	0.010	0.011	0.014	0.010	0.010	0.011	0.011	0.011	13.16
14) carbon disul	0.598	0.672	0.660	0.708	0.646	0.593	0.645	0.668	0.649	5.90
15) trans-1,2-di	0.215	0.265	0.328	0.407	0.235	0.210	0.228	0.255	0.268	25.28
	---- Linear regression ---- Coefficient = 0.9983									
	Response Ratio = 0.04143 + 0.21104 *A									
16) Methyl tert	0.456	0.479	0.511	0.581	0.468	0.426	0.469	0.482	0.484	9.50
17) 1,1-dichloro	0.402	0.435	0.460	0.525	0.427	0.379	0.414	0.451	0.437	10.10
18) 2-butanone	0.634	0.668	0.674	0.706	0.676	0.625	0.677	0.681	0.668	3.89
19) di-isopropyl	0.689	0.703	0.753	0.820	0.729	0.671	0.731	0.728	0.728	6.24
20) tert-butyl e	0.615	0.616	0.647	0.780	0.637	0.598	0.646	0.635	0.647	8.76
21) 2,2-dichloro	0.298	0.349	0.361	0.415	0.316	0.297	0.319	0.338	0.337	11.65
22) cis-1,2-dich	0.236	0.282	0.317	0.360	0.255	0.230	0.248	0.282	0.276	16.02
23) tetrahydrofu	0.032	0.021	0.026	0.047	0.031	0.032	0.035	0.031	0.032	23.63
	---- Linear regression ---- Coefficient = 0.9972									
	Response Ratio = 0.00003 + 0.03243 *A									
24) bromochlorom	0.110	0.113	0.109	0.129	0.114	0.105	0.114	0.111	0.113	6.33
25) chloroform	0.399	0.437	0.451	0.518	0.419	0.385	0.415	0.441	0.433	9.38
26) 1,1,1-trichl	0.335	0.382	0.364	0.407	0.357	0.331	0.355	0.364	0.362	6.77
27) carbon tetra	0.268	0.305	0.292	0.306	0.293	0.276	0.290	0.298	0.291	4.62
28) 1,1-dichloro	0.280	0.312	0.310	0.387	0.305	0.281	0.302	0.309	0.311	10.68

Initial Calibration Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICC1065
Lab FileID: T30580.D

29)	benzene	0.839	0.912	0.940	1.029	0.896	0.821	0.890	0.944	0.909	7.14
30)	1,2-dichloro	0.276	0.279	0.310	0.342	0.282	0.255	0.279	0.293	0.290	9.12
31)	tert-amyl me	0.490	0.557	0.605	0.682	0.490	0.465	0.500	0.530	0.540	13.47
32)	trichloroeth	0.233	0.259	0.281	0.279	0.246	0.229	0.246	0.269	0.255	7.82
33)	1,2-dichloro	0.227	0.253	0.255	0.287	0.245	0.226	0.240	0.254	0.248	7.76
34)	dibromometha	0.120	0.127	0.129	0.136	0.127	0.115	0.128	0.129	0.126	4.84
35)	bromodichlor	0.274	0.263	0.287	0.318	0.294	0.279	0.291	0.290	0.287	5.60
36)	1,4-dioxane	0.000				0.001	0.001	0.001	0.000	0.001	43.23

---- Linear regression ---- Coefficient = 0.9958
Response Ratio = -0.00411 + 0.00108 *A

37)	cis-1,3-dich	0.331	0.347	0.344	0.398	0.354	0.339	0.361	0.343	0.352	5.90
38)	4-methyl-2-p	0.119	0.116	0.110	0.064	0.126	0.123	0.132	0.116	0.113	18.57
39)	toluene	0.497	0.546	0.552	0.603	0.542	0.507	0.532	0.543	0.540	5.93
40)	trans-1,3-di	0.255	0.244	0.284	0.288	0.271	0.261	0.272	0.269	0.268	5.48
41)	4-bromofluor	0.366	0.337	0.314	0.333	0.377	0.364	0.356	0.336	0.348	6.11
42)	1,1,2-Trichl	0.155	0.157	0.170	0.172	0.158	0.144	0.157	0.165	0.160	5.66
43)	tetrachloroe	0.226	0.266	0.260	0.264	0.242	0.229	0.242	0.257	0.248	6.30
44)	1,3-dichloro	0.276	0.279	0.268	0.300	0.283	0.262	0.279	0.297	0.280	4.57
45)	2-hexanone	0.107	0.092	0.063	0.024	0.116	0.118	0.127	0.106	0.094	36.76

---- Linear regression ---- Coefficient = 0.9983
Response Ratio = -0.00880 + 0.12010 *A

46)	dibromochlor	0.172	0.165	0.188	0.166	0.192	0.189	0.198	0.186	0.182	6.88
47)	1,2-dibromoe	0.154	0.145	0.175	0.134	0.161	0.145	0.157	0.158	0.154	7.92
48)	chlorobenzen	0.625	0.671	0.641	0.774	0.658	0.611	0.651	0.673	0.663	7.49
49)	1,1,1,2-tetr	0.195	0.195	0.209	0.214	0.207	0.202	0.212	0.207	0.205	3.47
50)	ethylbenzene	0.977	1.083	1.107	1.128	1.056	1.006	1.070	1.065	1.062	4.68
51)	m,p-xylene	0.395	0.416	0.402	0.439	0.427	0.412	0.431	0.427	0.419	3.62
52)	o-xylene	0.404	0.393	0.432	0.494	0.424	0.423	0.433	0.425	0.428	6.98
53)	styrene	0.556	0.567	0.586	0.647	0.632	0.630	0.649	0.617	0.610	5.89
54)	bromoform	0.099	0.095	0.092	0.093	0.109	0.114	0.118	0.101	0.103	9.80
55)	isopropylben	0.987	1.057	1.103	1.195	1.099	1.082	1.115	1.060	1.087	5.43
56)	bromobenzene	0.241	0.264	0.258	0.312	0.265	0.255	0.266	0.265	0.266	7.69
57)	1,1,2,2-tetr	0.176	0.173	0.175	0.181	0.176	0.176	0.185	0.176	0.177	2.19
58)	1,2,3-trichl	0.180	0.171	0.179	0.196	0.186	0.187	0.194	0.176	0.184	4.73
59)	n-propylbenz	1.151	1.258	1.235	1.362	1.303	1.305	1.331	1.275	1.277	5.09
60)	2-chlorotolu	0.247	0.270	0.271	0.297	0.274	0.272	0.285	0.265	0.273	5.26
61)	4-chlorotolu	0.741	0.752	0.814	0.876	0.811	0.801	0.815	0.799	0.801	5.19
62)	1,3,5-trimet	0.818	0.803	0.857	0.981	0.919	0.948	0.962	0.885	0.897	7.45
63)	tert-butylbe	0.670	0.745	0.674	0.781	0.758	0.748	0.776	0.724	0.734	5.77
64)	1,2,4-trimet	0.806	0.791	0.821	0.922	0.920	0.941	0.943	0.855	0.875	7.28
65)	sec-butylben	1.008	1.086	1.084	1.149	1.174	1.220	1.225	1.111	1.132	6.57
66)	1,3-dichloro	0.485	0.499	0.520	0.566	0.534	0.545	0.548	0.513	0.526	5.13
67)	4-isopropylt	0.741	0.781	0.740	0.803	0.877	0.954	0.929	0.786	0.826	10.06
68)	1,4-dichloro	0.458	0.478	0.478	0.501	0.514	0.535	0.534	0.493	0.499	5.52
69)	1,2-dichloro	0.438	0.440	0.496	0.504	0.479	0.479	0.486	0.472	0.474	5.03
70)	1,2-dichloro	0.333	0.315	0.311	0.314	0.350	0.365	0.345	0.322	0.332	5.93
71)	n-butylbenze	0.718	0.763	0.706	0.828	0.864	0.964	0.919	0.776	0.817	11.45
72)	1,2-dibromo-	0.025	0.023	0.027	0.027	0.024	0.024	0.025	0.028	0.025	7.07
73)	1,3,5-Trichl	0.305	0.315	0.355	0.341	0.351	0.360	0.366	0.342	0.342	6.31
74)	1,2,4-trichl	0.236	0.228	0.253	0.291	0.269	0.271	0.274	0.253	0.259	8.00
75)	hexachlorobu	0.154	0.177	0.188	0.212	0.174	0.181	0.181	0.159	0.178	9.97
76)	naphthalene	0.306	0.310	0.283	0.378	0.332	0.356	0.358	0.312	0.329	9.77
77)	1,2,3-trichl	0.171	0.187	0.198	0.215	0.194	0.203	0.206	0.182	0.194	7.24

(#) = Out of Range ### Number of calibration levels exceeded format ###

T130710D.M Wed Jul 10 15:28:24 2013

Initial Calibration Verification

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICV1065
Lab FileID: T30589.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\130710\T30589.D Vial: 14
Acq On : 10 Jul 2013 3:03 pm Operator: jaimem
Sample : cc1065-20 Inst : MST
Misc : MS29369,MST1065,,,,5,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524
Last Update : Wed Jul 10 14:20:00 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	fluorobenzene	1.000	1.000	0.0	103	0.00	9.54
2	T	dichlorodifluoromethane	0.198	0.181	8.6	98	0.00	3.89
3	P	chloromethane	0.325	0.282	13.2	99	0.00	4.14
			Amount	Calc.	%Drift			
4	T	vinyl chloride	20.000	20.382	-1.9	97	0.00	4.38
5	T	bromomethane	20.000	21.254	-6.3	100	0.00	4.87
6		Ethanol	2000.000	1799.983	10.0	97	0.00	5.03
			AvgRF	CCRF	%Dev			
7	T	chloroethane	0.150	0.142	5.3	106	0.00	5.03
8		acetone	0.018	0.021	-16.7	111	0.02	5.82
9		ethyl ether	0.145	0.153	-5.5	107	0.01	5.93
10	T	trichlorofluoromethane	0.374	0.376	-0.5	102	0.00	5.68
			Amount	Calc.	%Drift			
11	T	1,1-dichloroethene	20.000	21.132	-5.7	103	0.00	6.26
			AvgRF	CCRF	%Dev			
12	T	methylene chloride	0.263	0.249	5.3	104	0.00	6.42
13	T	tertiary butyl alcohol	0.011	0.010	9.1	103	0.00	6.26
14		carbon disulfide	0.649	0.684	-5.4	108	0.00	6.70
			Amount	Calc.	%Drift			
15	T	trans-1,2-dichloroethene	20.000	19.985	0.1	97	0.01	7.13
			AvgRF	CCRF	%Dev			
16	T	Methyl tert butyl ether	0.484	0.476	1.7	104	0.00	7.22
17	P	1,1-dichloroethane	0.437	0.415	5.0	100	0.00	7.38
18		2-butanone	0.668	0.672	-0.6	102	0.00	7.79
19		di-isopropyl ether	0.728	0.736	-1.1	103	0.00	7.80
20		tert-butyl ethyl ether	0.647	0.604	6.6	97	0.00	8.20
21	T	2,2-dichloropropane	0.337	0.312	7.4	101	0.00	8.25
22	T	cis-1,2-dichloroethene	0.276	0.241	12.7	97	0.00	7.96
			Amount	Calc.	%Drift			
23		tetrahydrofuran	20.000	22.053	-10.3	117	0.00	8.50
			AvgRF	CCRF	%Dev			
24	T	bromochloromethane	0.113	0.108	4.4	97	0.00	8.13
25	T	chloroform	0.433	0.414	4.4	101	0.00	8.17
26	T	1,1,1-trichloroethane	0.362	0.340	6.1	98	0.00	8.94

Initial Calibration Verification

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICV1065
Lab FileID: T30589.D

27	T	carbon tetrachloride	0.291	0.278	4.5	97	0.00	9.31
28	T	1,1-dichloropropene	0.311	0.291	6.4	98	0.00	9.11
29	T	benzene	0.909	0.866	4.7	99	0.00	9.34
30	T	1,2-dichloroethane	0.290	0.273	5.9	99	0.00	8.83
31		tert-amyl methyl ether	0.540	0.481	10.9	101	0.00	9.47
32	T	trichloroethene	0.255	0.233	8.6	97	0.00	9.98
33	T	1,2-dichloropropane	0.248	0.231	6.9	96	0.00	9.94
34	T	dibromomethane	0.126	0.121	4.0	97	0.00	9.92
35	T	bromodichloromethane	0.287	0.291	-1.4	102	0.00	10.03
			Amount	Calc.	%Drift			
36		1,4-dioxane	100.000	88.224	11.8	91	0.02	10.14
			AvgRF	CCRF	%Dev			
37	T	cis-1,3-dichloropropene	0.352	0.329	6.5	95	0.00	10.66
38		4-methyl-2-pentanone	0.113	0.127	-12.4	104	0.00	10.76
39	T	toluene	0.540	0.511	5.4	97	0.00	11.46
40	T	trans-1,3-dichloropropene	0.268	0.275	-2.6	104	0.00	11.09
41	S	4-bromofluorobenzene (S)	0.348	0.357	-2.6	97	0.00	14.11
42	T	1,1,2-Trichloroethane	0.160	0.152	5.0	99	0.00	11.26
43	T	tetrachloroethene	0.248	0.230	7.3	97	0.00	12.21
44	T	1,3-dichloropropane	0.280	0.264	5.7	96	0.00	11.51
			Amount	Calc.	%Drift			
45		2-hexanone	20.000	21.520	-7.6	112	0.00	11.63
			AvgRF	CCRF	%Dev			
46	T	dibromochloromethane	0.182	0.190	-4.4	101	0.00	11.80
47	T	1,2-dibromoethane	0.154	0.153	0.6	98	0.00	12.06
48	P	chlorobenzene	0.663	0.599	9.7	93	0.00	12.90
49	T	1,1,1,2-tetrachloroethane	0.205	0.207	-1.0	102	0.00	12.82
50	T	ethylbenzene	1.062	0.996	6.2	97	0.00	13.08
51	T	m,p-xylene	0.419	0.399	4.8	96	0.00	13.27
52	T	o-xylene	0.428	0.398	7.0	96	0.00	13.69
53	T	styrene	0.610	0.598	2.0	97	0.00	13.61
54	P	bromoform	0.103	0.106	-2.9	100	0.00	13.43
55	T	isopropylbenzene	1.087	1.006	7.5	94	0.00	14.06
56	T	bromobenzene	0.266	0.255	4.1	99	0.00	14.34
57	P	1,1,2,2-tetrachloroethane	0.177	0.176	0.6	103	0.00	13.69
58	T	1,2,3-trichloropropane	0.184	0.180	2.2	99	0.00	13.84
59	T	n-propylbenzene	1.277	1.169	8.5	92	0.00	14.51
60	T	2-chlorotoluene	0.273	0.249	8.8	93	0.00	14.62
61	T	4-chlorotoluene	0.801	0.750	6.4	95	0.00	14.70
62	T	1,3,5-trimethylbenzene	0.897	0.853	4.9	95	0.00	14.79
63	T	tert-butylbenzene	0.734	0.675	8.0	91	0.00	15.10
64	T	1,2,4-trimethylbenzene	0.875	0.842	3.8	94	0.00	15.20
65	T	sec-butylbenzene	1.132	1.047	7.5	91	0.00	15.32
66	T	1,3-dichlorobenzene	0.526	0.494	6.1	95	0.00	15.43
67	T	4-isopropyltoluene	0.826	0.854	-3.4	100	0.00	15.50
68	T	1,4-dichlorobenzene	0.499	0.499	0.0	100	0.00	15.49
69	T	1,2-dichlorobenzene	0.474	0.437	7.8	94	0.00	15.86
70	S	1,2-dichlorobenzene-d4 (S	0.332	0.359	-8.1	105	0.00	15.84
71	T	n-butylbenzene	0.817	0.795	2.7	94	0.00	15.92
72	T	1,2-dibromo-3-chloropropa	0.025	0.023	8.0	98	0.00	16.34
73		1,3,5-Trichlorobenzene	0.342	0.318	7.0	93	0.00	17.17
74	T	1,2,4-trichlorobenzene	0.259	0.248	4.2	95	0.00	17.74
75	T	hexachlorobutadiene	0.178	0.164	7.9	96	0.00	18.05
76	T	naphthalene	0.329	0.311	5.5	96	0.00	18.02
77	T	1,2,3-trichlorobenzene	0.194	0.181	6.7	96	0.00	18.24

Initial Calibration Verification

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICV1065
Lab FileID: T30589.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0

T30582.D T130710D.M Wed Jul 10 15:30:21 2013

Continuing Calibration Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1082-CC1065
Lab FileID: T31063.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\130815\T31063.D Vial: 3
Acq On : 15 Aug 2013 11:46 am Operator: jaimem
Sample : cc1065-5 Inst : MST
Misc : MS29661,MST1082,,,,5,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524
Last Update : Wed Jul 24 13:51:42 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	fluorobenzene	1.000	1.000	0.0	149	0.00	9.53
2	T	dichlorodifluoromethane	0.198	0.245	-23.7	171	0.00	3.89
3	P	chloromethane	0.325	0.416	-28.0	188	0.00	4.13
		----------	Amount	Calc.	%Drift	----------		
4	T	vinyl chloride	5.000	5.241	-4.8	159	0.00	4.37
5	T	bromomethane	5.000	6.254	-25.1	168	0.00	4.86
6		Ethanol	500.000	628.855	-25.8	203	0.00	5.02
		----------	AvgRF	CCRF	%Dev	----------		
7	T	chloroethane	0.150	0.189	-26.0	170	0.00	5.02
8		acetone	0.018	0.021	-16.7	253#	0.00	5.81
9		ethyl ether	0.145	0.173	-19.3	173	0.00	5.91
10	T	trichlorofluoromethane	0.374	0.413	-10.4	157	0.00	5.66
		----------	Amount	Calc.	%Drift	----------		
11	T	1,1-dichloroethene	5.000	6.003	-20.1	176	-0.01	6.25
		----------	AvgRF	CCRF	%Dev	----------		
12	T	methylene chloride	0.263	0.277	-5.3	158	0.00	6.41
13	T	tertiary butyl alcohol	0.011	0.012	-9.1	168	0.00	6.25
14		carbon disulfide	0.649	0.793	-22.2	177	0.00	6.68
		----------	Amount	Calc.	%Drift	----------		
15	T	trans-1,2-dichloroethene	5.000	5.319	-6.4	155	0.00	7.11
		----------	AvgRF	CCRF	%Dev	----------		
16	T	Methyl tert butyl ether	0.484	0.499	-3.1	154	0.00	7.21
17	P	1,1-dichloroethane	0.437	0.484	-10.8	160	0.00	7.37
18		2-butanone	0.668	0.776	-16.2	170	0.00	7.78
19		di-isopropyl ether	0.728	0.874	-20.1	179	0.00	7.79
20		tert-butyl ethyl ether	0.647	0.687	-6.2	161	0.00	8.19
21	T	2,2-dichloropropane	0.337	0.344	-2.1	151	0.00	8.24
22	T	cis-1,2-dichloroethene	0.276	0.272	1.4	144	0.00	7.95
		----------	Amount	Calc.	%Drift	----------		
23		tetrahydrofuran	5.000	6.194	-23.9	196	0.00	8.49
		----------	AvgRF	CCRF	%Dev	----------		
24	T	bromochloromethane	0.113	0.121	-7.1	164	0.00	8.12
25	T	chloroform	0.433	0.465	-7.4	157	0.00	8.16
26	T	1,1,1-trichloroethane	0.362	0.395	-9.1	162	0.00	8.93

Continuing Calibration Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1082-CC1065
Lab FileID: T31063.D

27	T	carbon tetrachloride	0.291	0.307	-5.5	153	0.00	9.30
28	T	1,1-dichloropropene	0.311	0.321	-3.2	155	0.00	9.11
29	T	benzene	0.909	0.974	-7.2	154	0.00	9.33
30	T	1,2-dichloroethane	0.290	0.308	-6.2	156	0.00	8.82
31		tert-amyl methyl ether	0.540	0.540	0.0	152	0.00	9.46
32	T	trichloroethene	0.255	0.264	-3.5	146	0.00	9.97
33	T	1,2-dichloropropane	0.248	0.265	-6.9	155	0.00	9.93
34	T	dibromomethane	0.126	0.124	1.6	144	0.00	9.90
35	T	bromodichloromethane	0.287	0.307	-7.0	157	0.00	10.02
			Amount	Calc.	%Drift			
36		1,4-dioxane	25.000	29.888	-19.6	211	0.00	10.12
			AvgRF	CCRF	%Dev			
37	T	cis-1,3-dichloropropene	0.352	0.348	1.1	151	0.00	10.66
38		4-methyl-2-pentanone	0.113	0.132	-16.8	170	0.00	10.75
39	T	toluene	0.540	0.569	-5.4	156	0.00	11.44
40	T	trans-1,3-dichloropropene	0.268	0.290	-8.2	160	0.00	11.08
41	S	4-bromofluorobenzene (S)	0.348	0.375	-7.8	166	0.00	14.10
42	T	1,1,2-Trichloroethane	0.160	0.163	-1.9	147	0.00	11.26
43	T	tetrachloroethene	0.248	0.261	-5.2	151	0.00	12.20
44	T	1,3-dichloropropane	0.280	0.290	-3.6	145	0.00	11.50
			Amount	Calc.	%Drift			
45		2-hexanone	5.000	4.729	5.4	147	0.00	11.63
			AvgRF	CCRF	%Dev			
46	T	dibromochloromethane	0.182	0.198	-8.8	159	0.00	11.79
47	T	1,2-dibromoethane	0.154	0.158	-2.6	149	0.00	12.04
48	P	chlorobenzene	0.663	0.658	0.8	145	-0.01	12.89
49	T	1,1,1,2-tetrachloroethane	0.205	0.219	-6.8	157	0.00	12.81
50	T	ethylbenzene	1.062	1.112	-4.7	155	0.00	13.07
51	T	m,p-xylene	0.419	0.420	-0.2	146	0.00	13.26
52	T	o-xylene	0.428	0.415	3.0	145	0.00	13.67
53	T	styrene	0.610	0.590	3.3	142	0.00	13.60
54	P	bromoform	0.103	0.116	-12.6	171	0.00	13.42
55	T	isopropylbenzene	1.087	1.055	2.9	148	0.00	14.04
56	T	bromobenzene	0.266	0.276	-3.8	155	0.00	14.33
57	P	1,1,2,2-tetrachloroethane	0.177	0.183	-3.4	155	0.00	13.68
58	T	1,2,3-trichloropropane	0.184	0.190	-3.3	161	0.00	13.83
59	T	n-propylbenzene	1.277	1.247	2.3	145	0.00	14.50
60	T	2-chlorotoluene	0.273	0.258	5.5	145	0.00	14.62
61	T	4-chlorotoluene	0.801	0.824	-2.9	153	0.00	14.69
62	T	1,3,5-trimethylbenzene	0.897	0.902	-0.6	152	0.00	14.78
63	T	tert-butylbenzene	0.734	0.712	3.0	146	0.00	15.09
64	T	1,2,4-trimethylbenzene	0.875	0.877	-0.2	153	0.00	15.20
65	T	sec-butylbenzene	1.132	1.107	2.2	148	0.00	15.31
66	T	1,3-dichlorobenzene	0.526	0.522	0.8	151	0.00	15.41
67	T	4-isopropyltoluene	0.826	0.875	-5.9	166	0.00	15.49
68	T	1,4-dichlorobenzene	0.499	0.530	-6.2	160	0.00	15.48
69	T	1,2-dichlorobenzene	0.474	0.462	2.5	146	0.00	15.85
70	S	1,2-dichlorobenzene-d4 (S	0.332	0.352	-6.0	162	0.00	15.83
71	T	n-butylbenzene	0.817	0.846	-3.5	162	0.00	15.91
72	T	1,2-dibromo-3-chloropropa	0.025	0.028	-12.0	151	0.00	16.34
73		1,3,5-Trichlorobenzene	0.342	0.391	-14.3	170	0.00	17.16
74	T	1,2,4-trichlorobenzene	0.259	0.281	-8.5	165	0.00	17.73
75	T	hexachlorobutadiene	0.178	0.209	-17.4	195	0.00	18.04
76	T	naphthalene	0.329	0.340	-3.3	162	0.00	18.01
77	T	1,2,3-trichlorobenzene	0.194	0.216	-11.3	177	0.00	18.23

Continuing Calibration Summary

Job Number: MC23413
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1082-CC1065
Lab FileID: T31063.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T30580.D T130710D.M Fri Aug 16 08:48:00 2013

New England ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31081.D
Acq On : 15 Aug 2013 7:47 pm
Operator : jaimem
Sample : mc23413-1
Misc : MS29668,MST1082,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 08:57:52 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

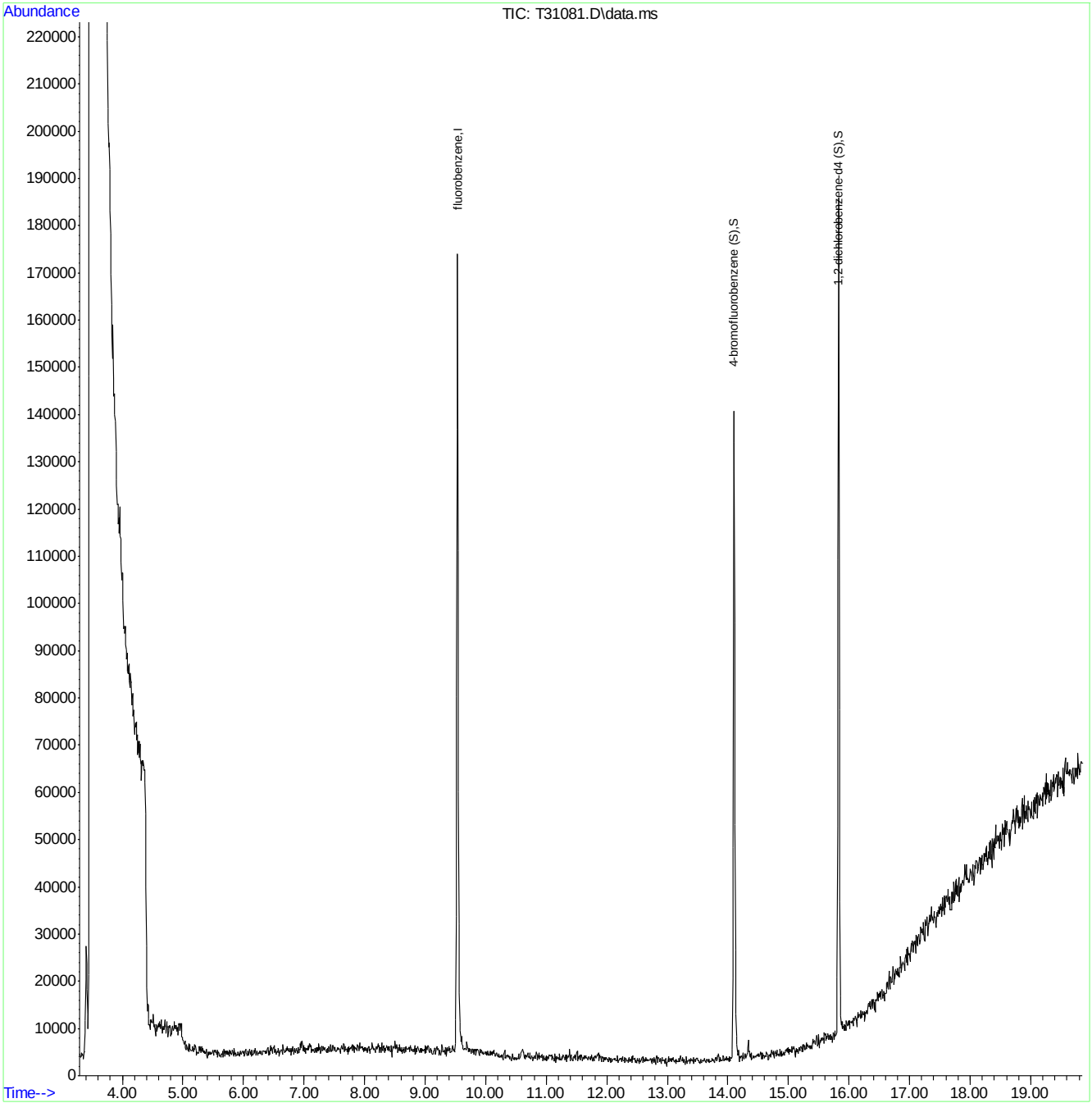
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	9.531	96	153649	5.00	ug/L	0.00
System Monitoring Compounds						
41) 4-bromofluorobenzene (S)	14.099	95	50781	4.75	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 95.00%			
70) 1,2-dichlorobenzene-d4...	15.830	152	48711	4.78	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 95.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31081.D
Acq On : 15 Aug 2013 7:47 pm
Operator : jaimem
Sample : mc23413-1
Misc : MS29668,MST1082,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 08:57:52 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
08/16/13 09:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31067.D
Acq On : 15 Aug 2013 1:34 pm
Operator : jaimem
Sample : mc23413-2
Misc : MS29668,MST1082,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 16 08:50:45 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	9.532	96	155567	5.00	ug/L	0.00
System Monitoring Compounds						
41) 4-bromofluorobenzene (S)	14.099	95	53017	4.90	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 98.00%			
70) 1,2-dichlorobenzene-d4...	15.830	152	49163	4.76	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 95.20%			
Target Compounds						Qvalue
3) chloromethane	4.129	50	3538m	0.35	ug/L	
12) methylene chloride	6.406	84	9753	1.19	ug/L	# 70

(#) = qualifier out of range (m) = manual integration (+) = signals summed

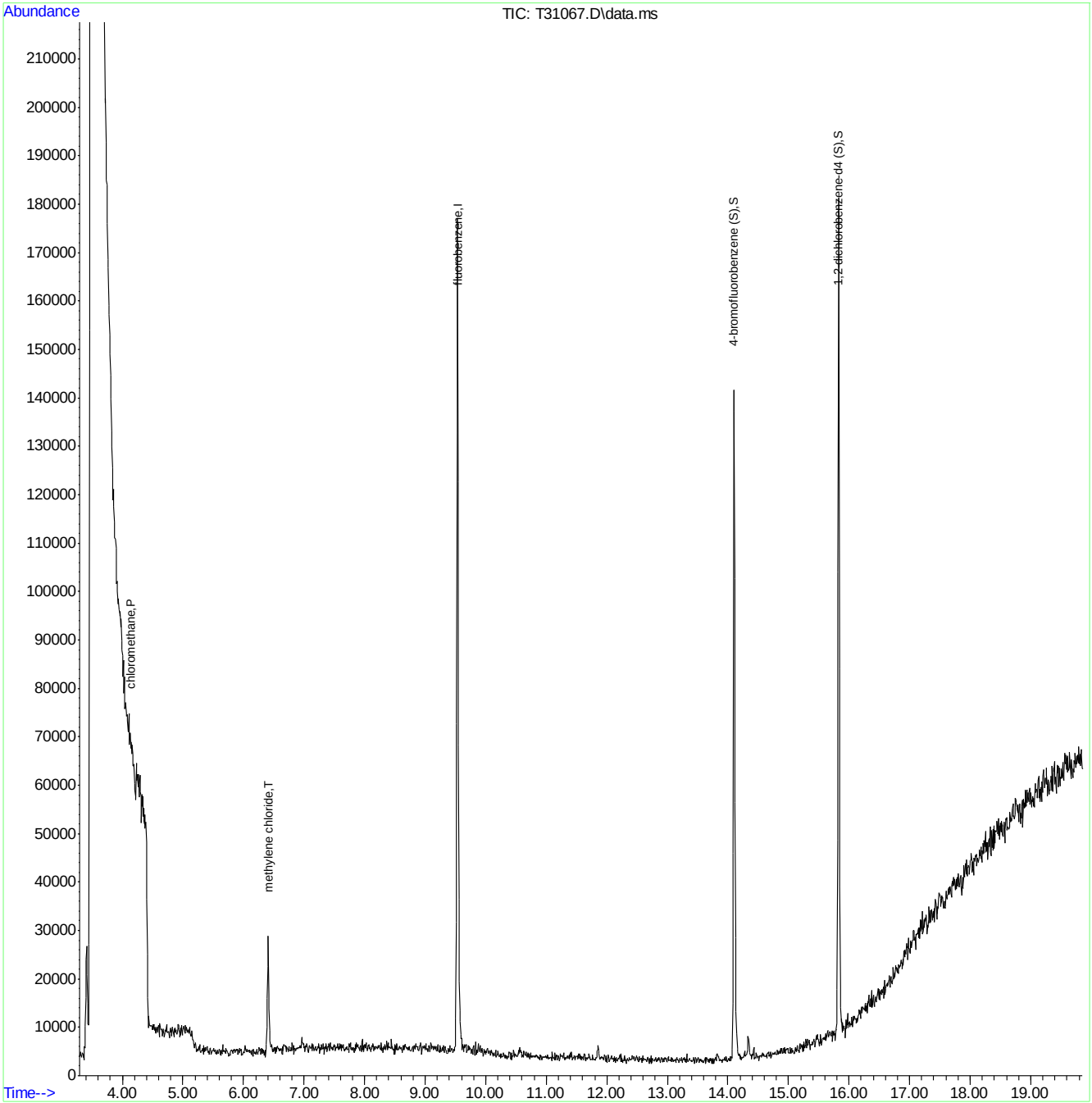
7.1.2

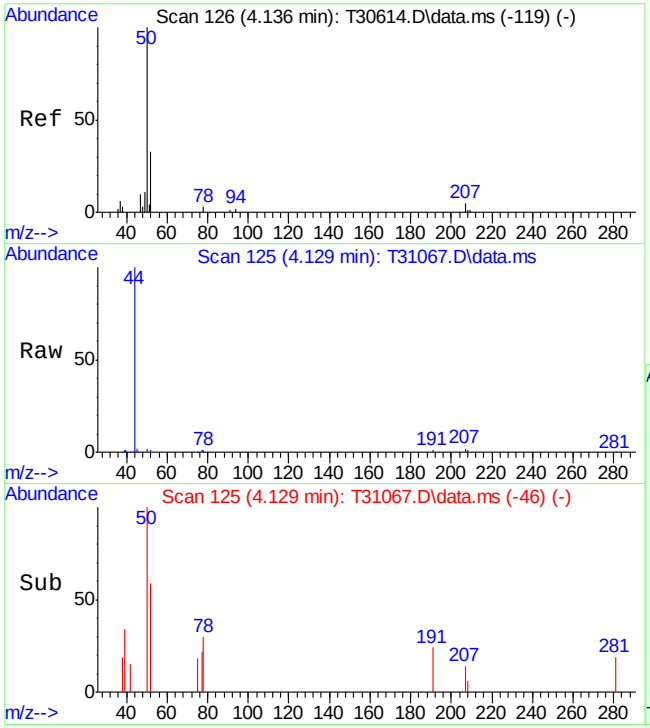
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31067.D
Acq On : 15 Aug 2013 1:34 pm
Operator : jaimem
Sample : mc23413-2
Misc : MS29668,MST1082,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 16 08:50:45 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

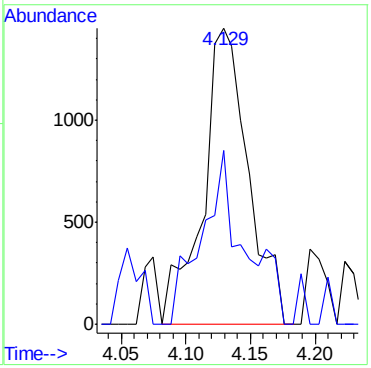


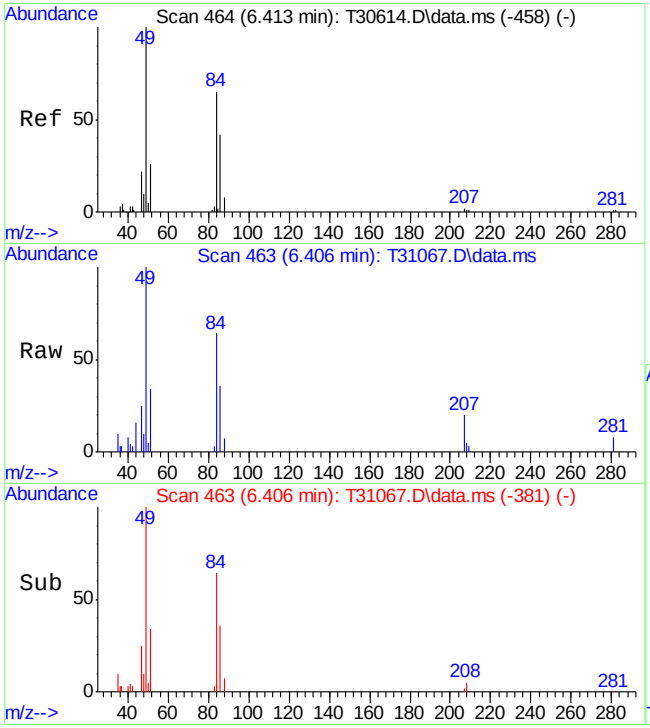


#3
chloromethane
Concen: 0.35 ug/L m
RT: 4.129 min Scan# 125
Delta R.T. -0.000 min
Lab File: T31067.D
Acq: 15 Aug 2013 1:34 pm

Tgt Ion: 50 Resp: 3538

Ion	Ratio	Lower	Upper
50	100		
52	58.6	12.4	52.4#

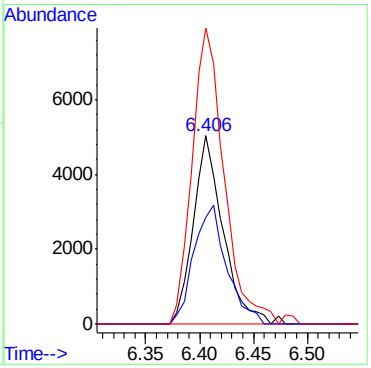




#12
methylene chloride
Concen: 1.19 ug/L
RT: 6.406 min Scan# 463
Delta R.T. -0.006 min
Lab File: T31067.D
Acq: 15 Aug 2013 1:34 pm

Tgt Ion: 84 Resp: 9753

Ion	Ratio	Lower	Upper
84	100		
86	56.7	42.9	82.9
49	157.4	194.6	234.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31066.D
Acq On : 15 Aug 2013 1:07 pm
Operator : jaimem
Sample : mb
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 08:49:54 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

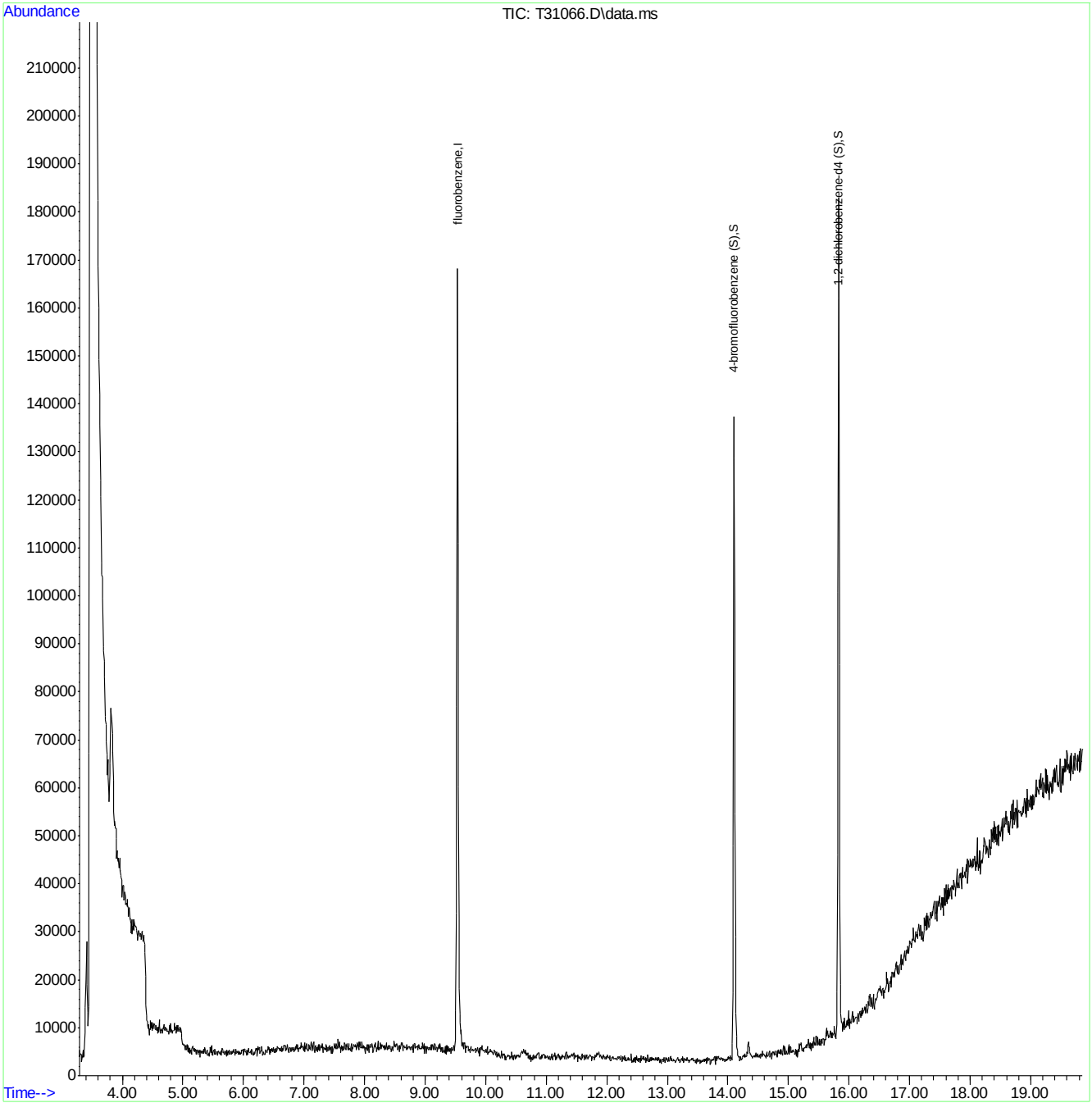
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	9.531	96	153137	5.00	ug/L	0.00
System Monitoring Compounds						
41) 4-bromofluorobenzene (S)	14.099	95	50075	4.70	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 94.00%			
70) 1,2-dichlorobenzene-d4...	15.830	152	48767	4.80	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31066.D
Acq On : 15 Aug 2013 1:07 pm
Operator : jaimem
Sample : mb
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 08:49:54 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration



Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
08/16/13 09:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31063.D
Acq On : 15 Aug 2013 11:46 am
Operator : jaimem
Sample : bs
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 12:18:38 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.531	96	165778	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.099	95	62149	5.39	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 107.80%				
70) 1,2-dichlorobenzene-d4...	15.830	152	58315	5.30	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 106.00%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.886	85	40545m	6.18	ug/L		
3) chloromethane	4.129	50	68986m	6.41	ug/L		
4) vinyl chloride	4.371	62	62010	5.24	ug/L		94
5) bromomethane	4.863	96	33934	6.25	ug/L		94
6) Ethanol	5.025	45	29981m	628.85	ug/L		
7) chloroethane	5.025	64	31311	6.31	ug/L		96
8) acetone	5.806	58	3431	5.65	ug/L		91
9) ethyl ether	5.914	59	28675	5.97	ug/L		77
10) trichlorofluoromethane	5.665	101	68487	5.52	ug/L		97
11) 1,1-dichloroethene	6.251	96	42683	6.00	ug/L	#	71
12) methylene chloride	6.406	84	45939	5.27	ug/L	#	70
13) tertiary butyl alcohol	6.251	59	19890	54.05	ug/L		92
14) carbon disulfide	6.682	76	131457	6.11	ug/L		100
15) trans-1,2-dichloroethene	7.113	96	44088	5.32	ug/L	#	71
16) Methyl tert butyl ether	7.207	73	82659	5.15	ug/L		76
17) 1,1-dichloroethane	7.369	63	80196	5.54	ug/L		93
18) 2-butanone	7.780	43	128667	5.81	ug/L	#	93
19) di-isopropyl ether	7.787	45	144890	6.00	ug/L		94
20) tert-butyl ethyl ether	8.191	59	113850	5.31	ug/L		88
21) 2,2-dichloropropane	8.245	77	56945	5.10	ug/L		96
22) cis-1,2-dichloroethene	7.948	96	45166	4.93	ug/L	#	75
23) tetrahydrofuran	8.494	42	6665	6.19	ug/L		95
24) bromochloromethane	8.117	128	20141	5.37	ug/L	#	50
25) chloroform	8.157	83	77132	5.37	ug/L		98
26) 1,1,1-trichloroethane	8.925	97	65444	5.46	ug/L		88
27) carbon tetrachloride	9.296	117	50850	5.27	ug/L		99
28) 1,1-dichloropropene	9.107	75	53295	5.17	ug/L		96
29) benzene	9.329	78	161447	5.36	ug/L		98
30) 1,2-dichloroethane	8.824	62	51023	5.32	ug/L		95
31) tert-amyl methyl ether	9.457	73	89565	5.00	ug/L		82
32) trichloroethene	9.969	95	43808	5.18	ug/L		98
33) 1,2-dichloropropane	9.929	63	43917	5.33	ug/L		99
34) dibromomethane	9.902	93	20583	4.92	ug/L		93
35) bromodichloromethane	10.023	83	50930	5.35	ug/L		99
36) 1,4-dioxane	10.124	88	390m	29.89	ug/L		
37) cis-1,3-dichloropropene	10.656	75	57684	4.94	ug/L		96
38) 4-methyl-2-pentanone	10.751	43	21910	5.84	ug/L		90
39) toluene	11.444	92	94256	5.26	ug/L		100
40) trans-1,3-dichloropropene	11.081	75	48008	5.40	ug/L		100
42) 1,1,2-Trichloroethane	11.256	97	27077	5.11	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31063.D
Acq On : 15 Aug 2013 11:46 am
Operator : jaimem
Sample : bs
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 12:18:38 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

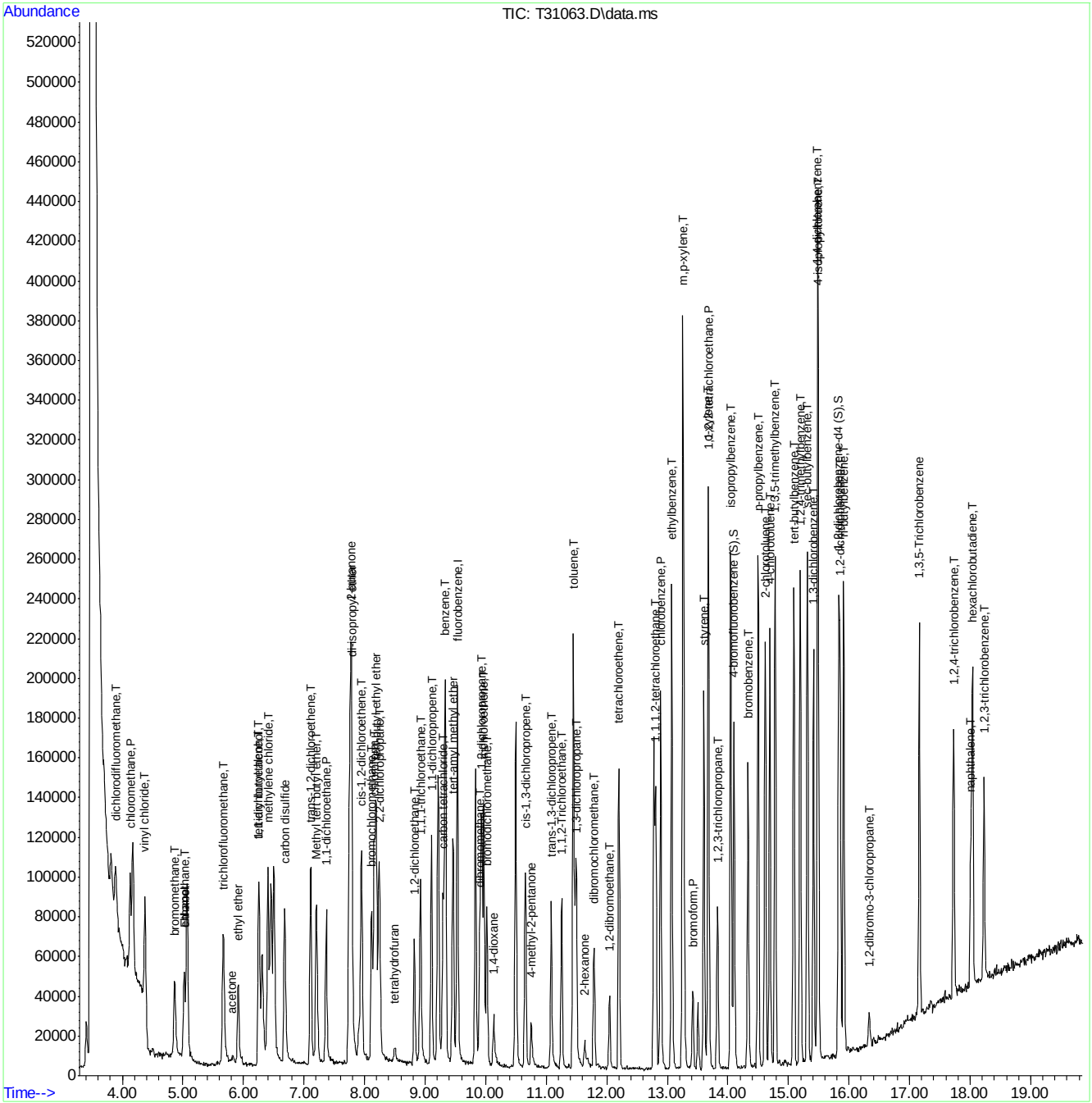
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.199	166	43275	5.26	ug/L	96
44) 1,3-dichloropropane	11.498	76	48104	5.17	ug/L	97
45) 2-hexanone	11.633	43	17374	4.73	ug/L	94
46) dibromochloromethane	11.788	129	32902	5.46	ug/L	99
47) 1,2-dibromoethane	12.044	107	26248	5.15	ug/L	90
48) chlorobenzene	12.886	112	109091	4.96	ug/L	99
49) 1,1,1,2-tetrachloroethane	12.805	131	36239	5.33	ug/L	96
50) ethylbenzene	13.068	91	184383	5.24	ug/L	98
51) m,p-xylene	13.263	106	139259	10.04	ug/L	98
52) o-xylene	13.674	106	68755	4.84	ug/L	93
53) styrene	13.600	104	97740	4.83	ug/L	91
54) bromoform	13.418	173	19169	5.64	ug/L	99
55) isopropylbenzene	14.045	105	174933	4.85	ug/L	99
56) bromobenzene	14.334	156	45775	5.20	ug/L	90
57) 1,1,2,2-tetrachloroethane	13.681	83	30330	5.17	ug/L	93
58) 1,2,3-trichloropropane	13.829	75	31570	5.18	ug/L	97
59) n-propylbenzene	14.496	91	206672	4.88	ug/L	99
60) 2-chlorotoluene	14.617	126	42785	4.73	ug/L	98
61) 4-chlorotoluene	14.691	91	136606	5.14	ug/L	97
62) 1,3,5-trimethylbenzene	14.779	105	149522	5.03	ug/L	97
63) tert-butylbenzene	15.089	119	118060	4.85	ug/L	96
64) 1,2,4-trimethylbenzene	15.197	105	145339	5.01	ug/L	98
65) sec-butylbenzene	15.311	105	183598	4.89	ug/L	99
66) 1,3-dichlorobenzene	15.412	146	86532	4.96	ug/L	100
67) 4-isopropyltoluene	15.486	119	145044	5.29	ug/L	97
68) 1,4-dichlorobenzene	15.480	146	87824	5.31	ug/L	97
69) 1,2-dichlorobenzene	15.850	146	76548	4.87	ug/L	97
71) n-butylbenzene	15.911	91	140214	5.17	ug/L	99
72) 1,2-dibromo-3-chloropr...	16.335	75	4645	5.57	ug/L	88
73) 1,3,5-Trichlorobenzene	17.164	180	64856	5.72	ug/L	99
74) 1,2,4-trichlorobenzene	17.729	180	46609	5.42	ug/L	99
75) hexachlorobutadiene	18.039	225	34653	5.87	ug/L	87
76) naphthalene	18.012	128	56378	5.16	ug/L	100
77) 1,2,3-trichlorobenzene	18.228	180	35866	5.57	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31063.D
Acq On : 15 Aug 2013 11:46 am
Operator : jaimem
Sample : bs
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 12:18:38 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
08/16/13 09:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31064.D
Acq On : 15 Aug 2013 12:13 pm
Operator : jaimem
Sample : bsd
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 16 08:49:16 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.532	96	163483	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.099	95	61139	5.38	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 107.60%				
70) 1,2-dichlorobenzene-d4...	15.830	152	55685	5.13	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 102.60%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.886	85	41220m	6.37	ug/L		
3) chloromethane	4.129	50	67896	6.40	ug/L		96
4) vinyl chloride	4.371	62	57438	4.86	ug/L		100
5) bromomethane	4.863	96	33257	6.21	ug/L		96
6) Ethanol	5.018	45	29823	635.00	ug/L		98
7) chloroethane	5.025	64	29189	5.96	ug/L		94
8) acetone	5.806	58	3271	5.46	ug/L		97
9) ethyl ether	5.914	59	27251	5.76	ug/L	#	67
10) trichlorofluoromethane	5.672	101	68346	5.59	ug/L		98
11) 1,1-dichloroethene	6.258	96	38642	5.42	ug/L	#	68
12) methylene chloride	6.406	84	46289	5.38	ug/L	#	70
13) tertiary butyl alcohol	6.258	59	19233	53.00	ug/L		98
14) carbon disulfide	6.682	76	128758	6.07	ug/L		100
15) trans-1,2-dichloroethene	7.113	96	43091	5.26	ug/L	#	66
16) Methyl tert butyl ether	7.207	73	81227	5.13	ug/L		79
17) 1,1-dichloroethane	7.362	63	77499	5.43	ug/L		96
18) 2-butanone	7.780	43	124751	5.71	ug/L	#	93
19) di-isopropyl ether	7.787	45	140988	5.92	ug/L		94
20) tert-butyl ethyl ether	8.191	59	110339	5.22	ug/L		87
21) 2,2-dichloropropane	8.245	77	57791	5.25	ug/L		98
22) cis-1,2-dichloroethene	7.948	96	46361	5.13	ug/L	#	75
23) tetrahydrofuran	8.501	42	6939	6.54	ug/L		86
24) bromochloromethane	8.117	128	18920	5.12	ug/L	#	68
25) chloroform	8.157	83	75071	5.30	ug/L		97
26) 1,1,1-trichloroethane	8.925	97	61793	5.22	ug/L		92
27) carbon tetrachloride	9.296	117	50531	5.32	ug/L		93
28) 1,1-dichloropropene	9.100	75	53877	5.30	ug/L		95
29) benzene	9.329	78	160302	5.39	ug/L		100
30) 1,2-dichloroethane	8.824	62	49777	5.26	ug/L		90
31) tert-amyl methyl ether	9.457	73	92122	5.22	ug/L		78
32) trichloroethene	9.963	95	41647	4.99	ug/L		92
33) 1,2-dichloropropane	9.929	63	43834	5.40	ug/L		93
34) dibromomethane	9.902	93	21093	5.11	ug/L		96
35) bromodichloromethane	10.023	83	50484	5.38	ug/L		96
36) 1,4-dioxane	10.124	88	554m	34.68	ug/L		
37) cis-1,3-dichloropropene	10.656	75	58456	5.08	ug/L		98
38) 4-methyl-2-pentanone	10.751	43	21646	5.85	ug/L		89
39) toluene	11.451	92	93223	5.28	ug/L		90
40) trans-1,3-dichloropropene	11.081	75	46623	5.32	ug/L		96
42) 1,1,2-Trichloroethane	11.256	97	26515	5.07	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31064.D
Acq On : 15 Aug 2013 12:13 pm
Operator : jaimem
Sample : bsd
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 16 08:49:16 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

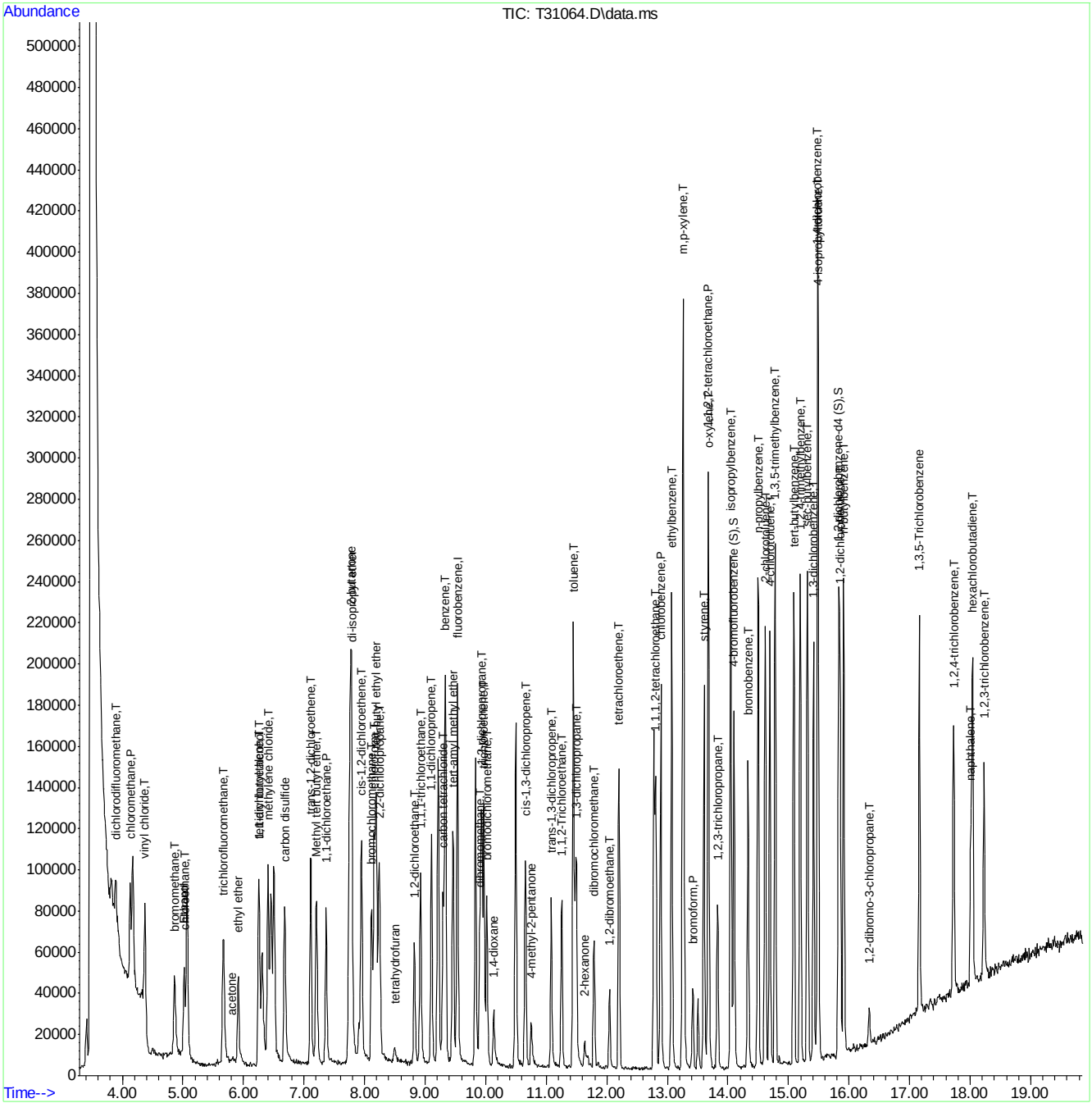
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) tetrachloroethene	12.199	166	41861	5.16	ug/L		93
44) 1,3-dichloropropane	11.499	76	48927	5.34	ug/L		99
45) 2-hexanone	11.633	43	17047	4.71	ug/L		95
46) dibromochloromethane	11.788	129	32368	5.45	ug/L		94
47) 1,2-dibromoethane	12.044	107	26706	5.32	ug/L		99
48) chlorobenzene	12.893	112	106321	4.90	ug/L		98
49) 1,1,1,2-tetrachloroethane	12.805	131	36193	5.39	ug/L		95
50) ethylbenzene	13.068	91	178311	5.14	ug/L		97
51) m,p-xylene	13.263	106	135489	9.90	ug/L		97
52) o-xylene	13.681	106	64943	4.64	ug/L		100
53) styrene	13.607	104	99801	5.00	ug/L		100
54) bromoform	13.418	173	19978	5.96	ug/L		96
55) isopropylbenzene	14.045	105	174536	4.91	ug/L		100
56) bromobenzene	14.335	156	46114	5.31	ug/L	#	86
57) 1,1,2,2-tetrachloroethane	13.674	83	29918	5.17	ug/L		92
58) 1,2,3-trichloropropane	13.829	75	31552	5.25	ug/L		100
59) n-propylbenzene	14.496	91	202675	4.85	ug/L		100
60) 2-chlorotoluene	14.617	126	42890	4.81	ug/L		96
61) 4-chlorotoluene	14.692	91	131573	5.02	ug/L		98
62) 1,3,5-trimethylbenzene	14.779	105	143550	4.90	ug/L		98
63) tert-butylbenzene	15.089	119	115005	4.79	ug/L		98
64) 1,2,4-trimethylbenzene	15.197	105	142348	4.98	ug/L		97
65) sec-butylbenzene	15.311	105	178775	4.83	ug/L		98
66) 1,3-dichlorobenzene	15.412	146	83072	4.83	ug/L		98
67) 4-isopropyltoluene	15.486	119	140599	5.20	ug/L		99
68) 1,4-dichlorobenzene	15.480	146	86750	5.32	ug/L		98
69) 1,2-dichlorobenzene	15.850	146	73964	4.77	ug/L		95
71) n-butylbenzene	15.911	91	131425	4.92	ug/L		97
72) 1,2-dibromo-3-chloropr...	16.335	75	4695	5.71	ug/L		91
73) 1,3,5-Trichlorobenzene	17.164	180	64978	5.81	ug/L		97
74) 1,2,4-trichlorobenzene	17.730	180	45731	5.39	ug/L		90
75) hexachlorobutadiene	18.040	225	36484	6.26	ug/L		93
76) naphthalene	18.013	128	55155	5.12	ug/L		100
77) 1,2,3-trichlorobenzene	18.228	180	36902	5.81	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31064.D
Acq On : 15 Aug 2013 12:13 pm
Operator : jaimem
Sample : bsd
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 16 08:49:16 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31070.D
Acq On : 15 Aug 2013 2:54 pm
Operator : jaimem
Sample : mc23507-1dup
Misc : MS29668,MST1082,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 16 08:52:07 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

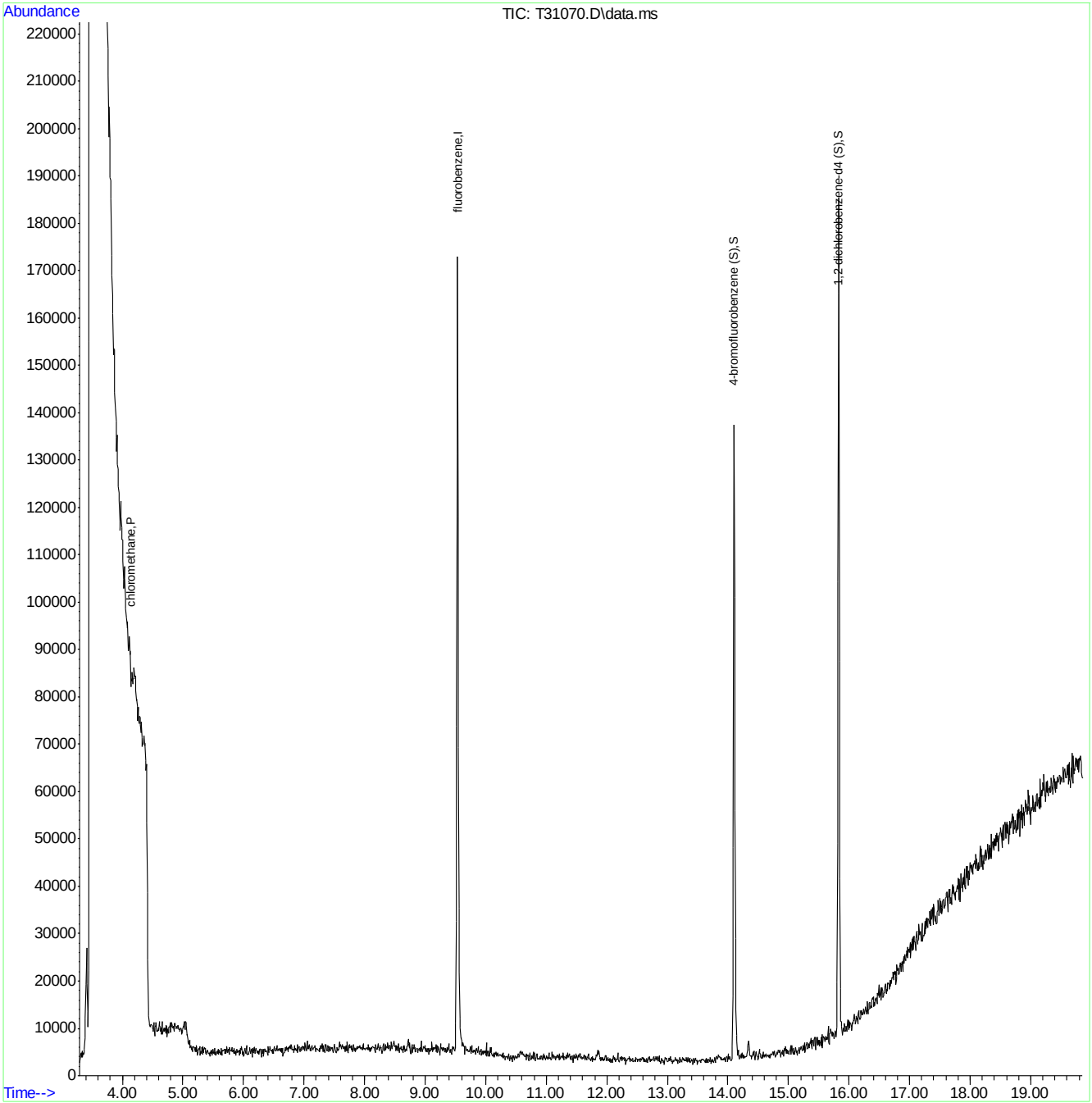
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	9.532	96	153799	5.00	ug/L	0.00
System Monitoring Compounds						
41) 4-bromofluorobenzene (S)	14.099	95	51603	4.83	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 96.60%			
70) 1,2-dichlorobenzene-d4...	15.830	152	49786	4.88	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 97.60%			
Target Compounds						Qvalue
3) chloromethane	4.129	50	4152	0.42	ug/L	84

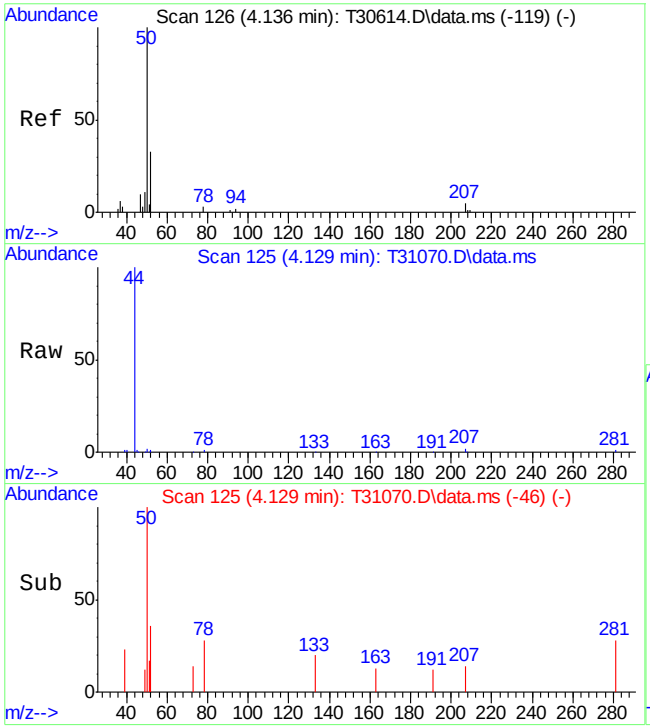
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31070.D
Acq On : 15 Aug 2013 2:54 pm
Operator : jaimem
Sample : mc23507-1dup
Misc : MS29668,MST1082,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 16 08:52:07 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

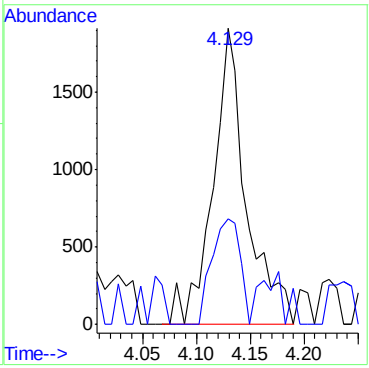




#3
chloromethane
Concen: 0.42 ug/L
RT: 4.129 min Scan# 125
Delta R.T. -0.000 min
Lab File: T31070.D
Acq: 15 Aug 2013 2:54 pm

Tgt Ion: 50 Resp: 4152

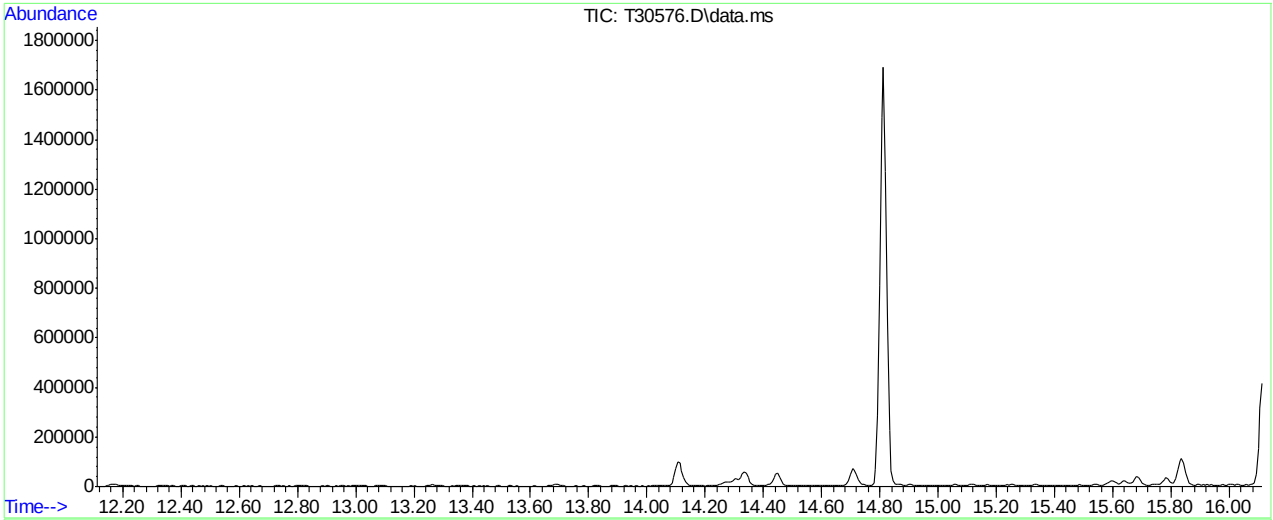
Ion	Ratio	Lower	Upper
50	100		
52	23.6	12.4	52.4



SW-846 Method 8260

Data File : C:\msdchem\1\DATA\130710\T30576.D Vial: 1
Acq On : 10 Jul 2013 8:57 am Operator: jaimem
Sample : bfb Inst : MST
Misc : MS29369,MST1065,,,,5,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524



Spectrum Information: Scan 1607

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	3514	PASS
75	95	30	80	47.1	9164	PASS
95	95	100	100	100.0	19456	PASS
96	95	5	9	6.6	1292	PASS
173	174	0.00	2	1.6	260	PASS
174	95	50	150	81.6	15870	PASS
175	174	5	9	8.7	1382	PASS
176	174	95	101	96.5	15319	PASS
177	176	5	9	6.8	1039	PASS

T30576.D T130710D.M Wed Jul 10 13:42:10 2013

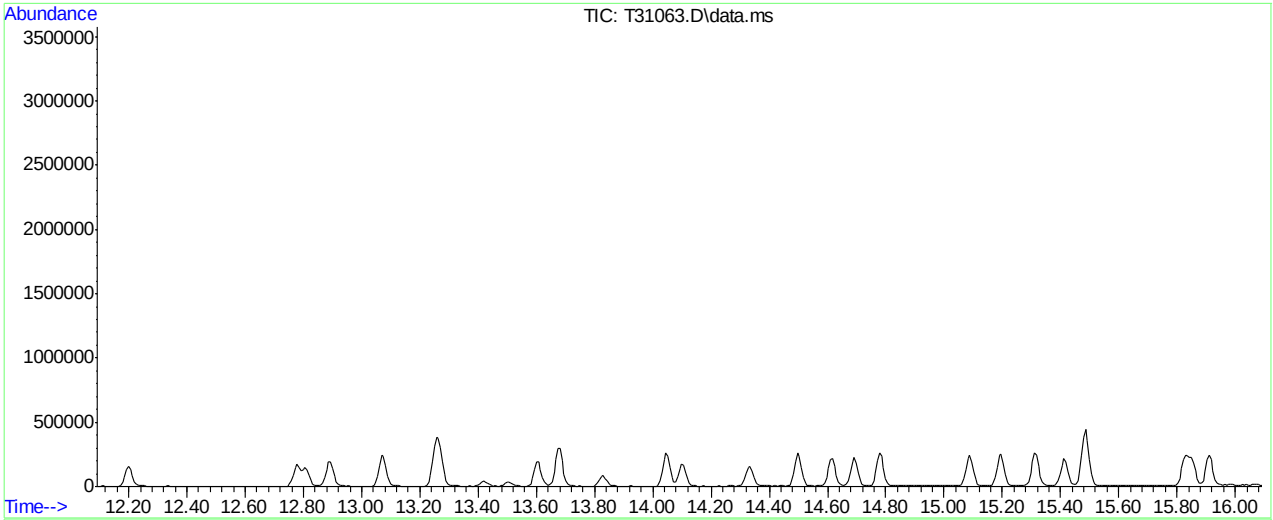
Scan 1607 (14.112 min): T30576.D\data.ms
bfb

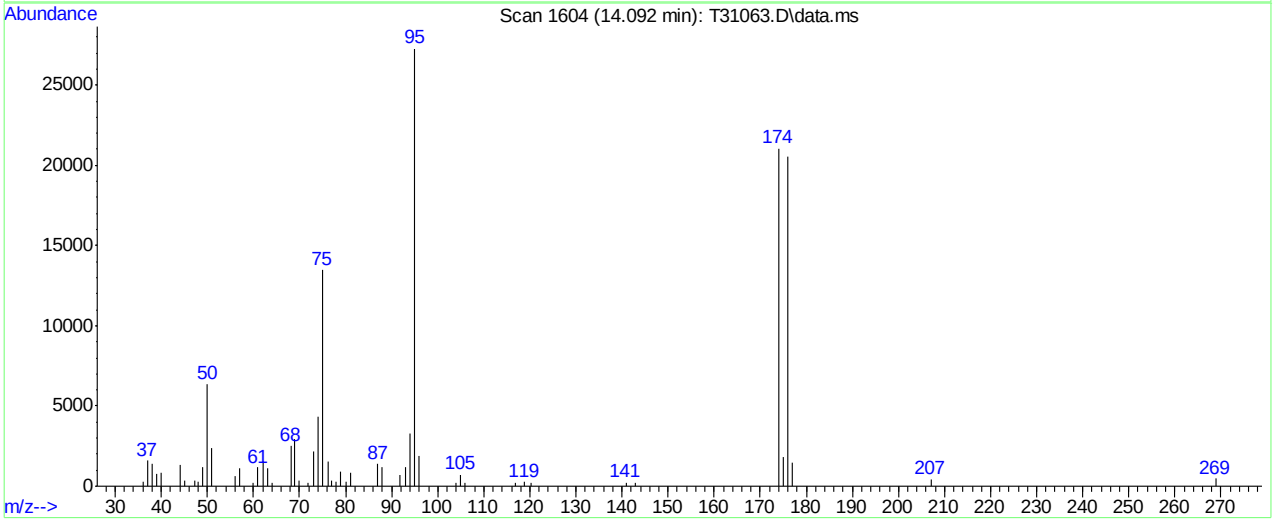
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	1051	61.10	1075	80.90	821	116.90	219
38.10	911	62.10	928	82.10	265	146.70	224
39.00	588	62.90	880	87.00	792	173.10	260
40.00	578	68.00	1472	88.10	1022	173.90	15870
44.00	975	69.00	1897	90.90	255	174.90	1382
44.90	201	73.10	1470	92.00	547	175.90	15319
47.10	288	74.00	2801	93.00	1236	176.90	1039
48.90	798	75.00	9164	94.00	1853	207.20	386
50.00	3514	76.10	1086	95.00	19456		
51.00	1259	78.90	727	96.10	1292		
56.90	540	80.00	207	103.80	209		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\130815\T31063.D Vial: 3
Acq On : 15 Aug 2013 11:46 am Operator: jaimem
Sample : bfb Inst : MST
Misc : MS29661,MST1082,,,,5,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524





Spectrum Information: Scan 1604

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	6365	PASS
75	95	30	80	49.3	13451	PASS
95	95	100	100	100.0	27280	PASS
96	95	5	9	7.0	1912	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	77.2	21064	PASS
175	174	5	9	8.7	1829	PASS
176	174	95	101	97.5	20528	PASS
177	176	5	9	7.0	1442	PASS

T31063.D T130710D.M Fri Aug 16 08:47:40 2013

Scan 1604 (14.092 min): T31063.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	285	51.00	2358	71.90	207	87.90	1207
37.00	1589	56.00	652	73.00	2148	91.80	732
38.10	1424	57.00	1090	74.00	4338	93.00	1163
39.10	797	59.90	229	75.00	13451	94.00	3314
40.00	834	61.00	1167	76.10	1546	95.00	27280
44.00	1329	62.10	1547	77.00	365	96.00	1912
45.10	385	63.00	1134	77.90	252	103.90	204
47.20	317	64.10	214	79.00	911	105.00	730
48.00	263	68.10	2486	80.00	308	105.80	214
49.00	1168	69.00	2938	81.00	851	116.90	239
50.00	6365	70.00	371	87.00	1387	118.90	265

Scan 1604 (14.092 min): T31063.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.30	225						
140.90	245						
142.90	232						
174.00	21064						
174.90	1829						
176.00	20528						
177.00	1442						
207.00	441						
268.90	489						

Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30577.D
Acq On : 10 Jul 2013 9:23 am
Operator : jaimem
Sample : ic1065-0.5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 13:35:55 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:34:17 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	110814	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.106	95	36898	4.76	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 95.20%				
70) 1,2-dichlorobenzene-d4...	15.830	152	34748	4.69	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 93.80%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.886	85	2566	0.60	ug/L		69
3) chloromethane	4.129	50	4466	0.64	ug/L		99
4) vinyl chloride	4.365	62	6544m	0.88	ug/L		
5) bromomethane	4.870	96	3232	0.84	ug/L		98
6) Ethanol	5.032	45	5985	214.32	ug/L		76
7) chloroethane	5.025	64	1917	0.59	ug/L		100
9) ethyl ether	5.914	59	1628	0.51	ug/L	#	52
10) trichlorofluoromethane	5.665	101	4535	0.55	ug/L		91
11) 1,1-dichloroethene	6.258	96	4400	0.94	ug/L	#	42
12) methylene chloride	6.413	84	3502	0.62	ug/L	#	44
13) tertiary butyl alcohol	6.278	59	1597	6.78	ug/L		98
14) carbon disulfide	6.682	76	7843	0.55	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	4515	0.82	ug/L	#	52
16) Methyl tert butyl ether	7.214	73	6440	0.62	ug/L		82
17) 1,1-dichloroethane	7.362	63	5815	0.62	ug/L		85
18) 2-butanone	7.787	43	7820	0.53	ug/L	#	97
19) di-isopropyl ether	7.794	45	9086	0.57	ug/L		95
20) tert-butyl ethyl ether	8.191	59	8647	0.62	ug/L		88
21) 2,2-dichloropropane	8.245	77	4602	0.64	ug/L		93
22) cis-1,2-dichloroethene	7.955	96	3985	0.68	ug/L	#	82
23) tetrahydrofuran	8.501	42	523	0.79	ug/L	#	49
24) bromochloromethane	8.130	128	1429	0.58	ug/L	#	31
25) chloroform	8.157	83	5741	0.62	ug/L		88
26) 1,1,1-trichloroethane	8.925	97	4506	0.57	ug/L	#	76
27) carbon tetrachloride	9.303	117	3395	0.53	ug/L		97
28) 1,1-dichloropropene	9.114	75	4285	0.64	ug/L		97
29) benzene	9.336	78	11398	0.58	ug/L		82
30) 1,2-dichloroethane	8.831	62	3791	0.61	ug/L		82
31) tert-amyl methyl ether	9.464	73	7558	0.66	ug/L	#	72
32) trichloroethene	9.969	95	3095	0.55	ug/L		93
33) 1,2-dichloropropane	9.929	63	3177	0.59	ug/L		93
34) dibromomethane	9.909	93	1503	0.54	ug/L		86
35) bromodichloromethane	10.023	83	3522	0.56	ug/L		89
37) cis-1,3-dichloropropene	10.657	75	4414	0.58	ug/L		90
38) 4-methyl-2-pentanone	10.758	43	707	0.27	ug/L	#	37
39) toluene	11.451	92	6680	0.57	ug/L		87
40) trans-1,3-dichloropropene	11.094	75	3194	0.54	ug/L		81
42) 1,1,2-Trichloroethane	11.263	97	1910	0.55	ug/L	#	63
43) tetrachloroethene	12.213	166	2921	0.54	ug/L		84
44) 1,3-dichloropropane	11.505	76	3322	0.54	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30577.D
Acq On : 10 Jul 2013 9:23 am
Operator : jaimem
Sample : ic1065-0.5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 13:35:55 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:34:17 2013
Response via : Initial Calibration

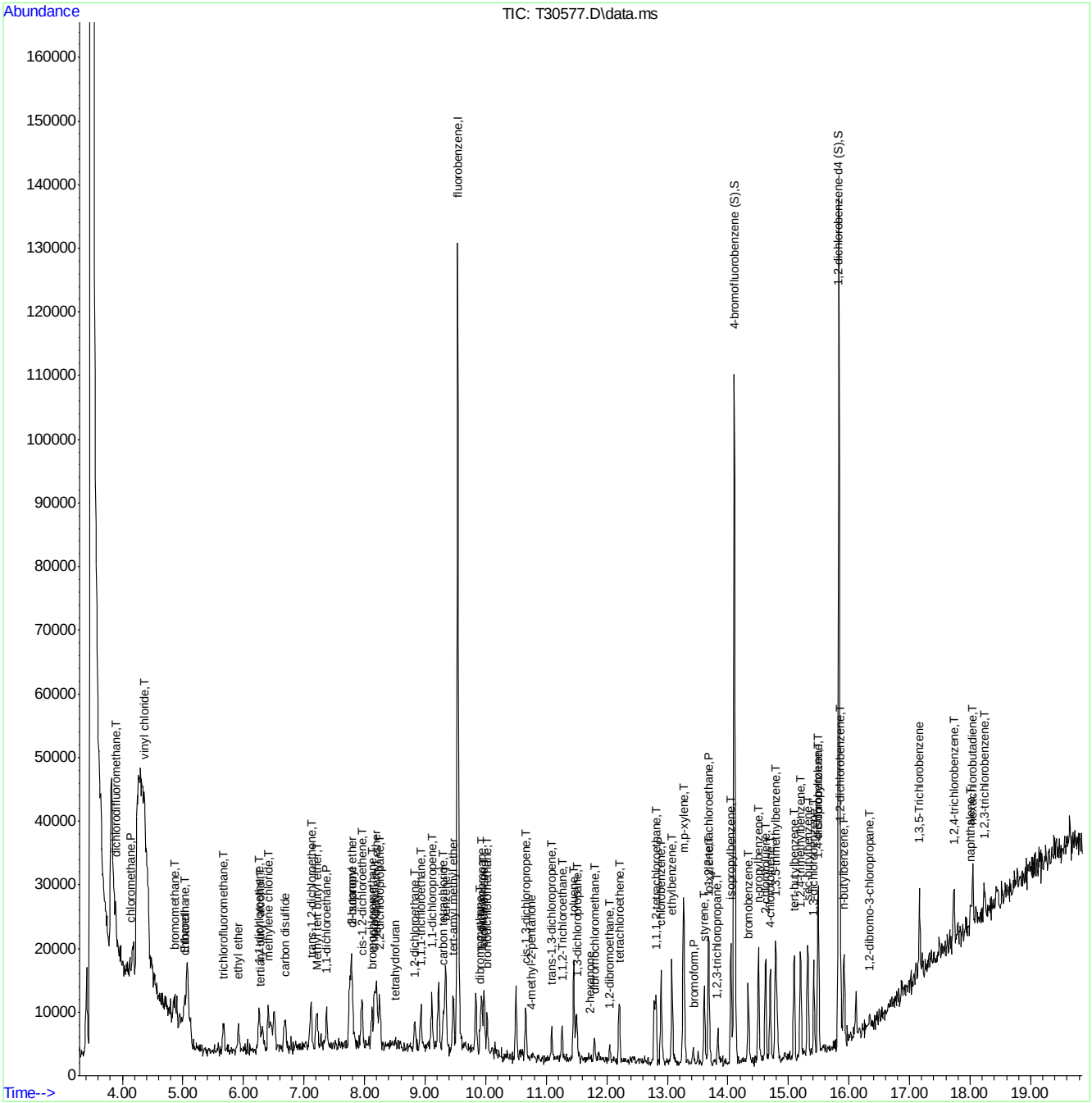
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 2-hexanone	11.721	43	261m	0.11	ug/L		
46) dibromochloromethane	11.795	129	1835	0.45	ug/L	#	54
47) 1,2-dibromoethane	12.051	107	1490	0.43	ug/L	#	71
48) chlorobenzene	12.900	112	8579	0.60	ug/L		92
49) 1,1,1,2-tetrachloroethane	12.812	131	2366	0.52	ug/L	#	68
50) ethylbenzene	13.075	91	12504	0.54	ug/L		91
51) m,p-xylene	13.270	106	9727	1.06	ug/L		92
52) o-xylene	13.681	106	5472	0.59	ug/L	#	71
53) styrene	13.607	104	7167	0.53	ug/L		93
54) bromoform	13.432	173	1029	0.45	ug/L		99
55) isopropylbenzene	14.052	105	13241	0.56	ug/L		99
56) bromobenzene	14.335	156	3453	0.60	ug/L		92
57) 1,1,2,2-tetrachloroethane	13.688	83	2010	0.51	ug/L		91
58) 1,2,3-trichloropropane	13.823	75	2174	0.54	ug/L		94
59) n-propylbenzene	14.503	91	15090	0.54	ug/L		89
60) 2-chlorotoluene	14.624	126	3286m	0.55	ug/L		
61) 4-chlorotoluene	14.698	91	9706	0.55	ug/L		99
62) 1,3,5-trimethylbenzene	14.786	105	10871	0.55	ug/L		98
63) tert-butylbenzene	15.096	119	8656	0.54	ug/L		81
64) 1,2,4-trimethylbenzene	15.197	105	10221	0.53	ug/L		97
65) sec-butylbenzene	15.318	105	12728	0.51	ug/L		86
66) 1,3-dichlorobenzene	15.419	146	6268	0.54	ug/L		93
67) 4-isopropyltoluene	15.493	119	8898	0.48	ug/L		92
68) 1,4-dichlorobenzene	15.486	146	5556	0.50	ug/L		91
69) 1,2-dichlorobenzene	15.857	146	5582	0.54	ug/L		89
71) n-butylbenzene	15.918	91	9179	0.51	ug/L		85
72) 1,2-dibromo-3-chloropr...	16.335	75	297m	0.54	ug/L		
73) 1,3,5-Trichlorobenzene	17.164	180	3779	0.50	ug/L	#	75
74) 1,2,4-trichlorobenzene	17.736	180	3223	0.57	ug/L		97
75) hexachlorobutadiene	18.040	225	2344	0.61	ug/L		82
76) naphthalene	18.013	128	4194	0.59	ug/L		100
77) 1,2,3-trichlorobenzene	18.235	180	2381	0.56	ug/L		84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30577.D
Acq On : 10 Jul 2013 9:23 am
Operator : jaimem
Sample : ic1065-0.5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 13:35:55 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:34:17 2013
Response via : Initial Calibration



T130710D.M Wed Jul 10 13:42:19 2013 Page: 3

Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30578.D
Acq On : 10 Jul 2013 9:50 am
Operator : jaimem
Sample : ic1065-1
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 13:33:52 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:32:50 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	110938	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.106	95	34781	4.41	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 88.20%				
70) 1,2-dichlorobenzene-d4...	15.830	152	34537	4.60	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	4548	1.07	ug/L		97
3) chloromethane	4.129	50	8544	1.28	ug/L		83
4) vinyl chloride	4.378	62	7720	1.04	ug/L		99
5) bromomethane	4.863	96	4675	1.25	ug/L		81
6) Ethanol	5.025	45	2021	69.10	ug/L		85
7) chloroethane	5.032	64	3193	0.98	ug/L		88
9) ethyl ether	5.921	59	3482	1.10	ug/L	#	53
10) trichlorofluoromethane	5.672	101	8081	0.98	ug/L		96
11) 1,1-dichloroethene	6.264	96	5785	1.28	ug/L	#	60
12) methylene chloride	6.406	84	6866	1.25	ug/L	#	60
13) tertiary butyl alcohol	6.264	59	2351	9.97	ug/L		98
14) carbon disulfide	6.689	76	14637	1.04	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	7274	1.40	ug/L	#	42
16) Methyl tert butyl ether	7.214	73	11328	1.10	ug/L		81
17) 1,1-dichloroethane	7.369	63	10210	1.10	ug/L		97
18) 2-butanone	7.787	43	14964	1.02	ug/L	#	95
19) di-isopropyl ether	7.787	45	16701	1.06	ug/L		93
20) tert-butyl ethyl ether	8.198	59	14346	1.04	ug/L		82
21) 2,2-dichloropropane	8.245	77	8005	1.13	ug/L		94
22) cis-1,2-dichloroethene	7.955	96	7043	1.24	ug/L	#	58
23) tetrahydrofuran	8.508	42	586m	0.87	ug/L		
24) bromochloromethane	8.117	128	2408	0.98	ug/L	#	54
25) chloroform	8.164	83	10017	1.08	ug/L		90
26) 1,1,1-trichloroethane	8.932	97	8072	1.03	ug/L	#	86
27) carbon tetrachloride	9.309	117	6471	1.01	ug/L		100
28) 1,1-dichloropropene	9.107	75	6887	1.04	ug/L		90
29) benzene	9.343	78	20850	1.06	ug/L		91
30) 1,2-dichloroethane	8.824	62	6888	1.12	ug/L		82
31) tert-amyl methyl ether	9.464	73	13432m	1.20	ug/L		
32) trichloroethene	9.976	95	6235	1.14	ug/L		94
33) 1,2-dichloropropane	9.936	63	5649	1.06	ug/L		93
34) dibromomethane	9.909	93	2863	1.04	ug/L	#	82
35) bromodichloromethane	10.030	83	6370	1.02	ug/L		87
37) cis-1,3-dichloropropene	10.663	75	7627	0.99	ug/L		92
38) 4-methyl-2-pentanone	10.771	43	2448	0.91	ug/L	#	37
39) toluene	11.458	92	12248	1.05	ug/L		94
40) trans-1,3-dichloropropene	11.094	75	6307	1.08	ug/L		89
42) 1,1,2-Trichloroethane	11.256	97	3780	1.09	ug/L	#	81
43) tetrachloroethene	12.206	166	5758	1.06	ug/L		90
44) 1,3-dichloropropane	11.499	76	5950	0.96	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30578.D
Acq On : 10 Jul 2013 9:50 am
Operator : jaimem
Sample : ic1065-1
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 13:33:52 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:32:50 2013
Response via : Initial Calibration

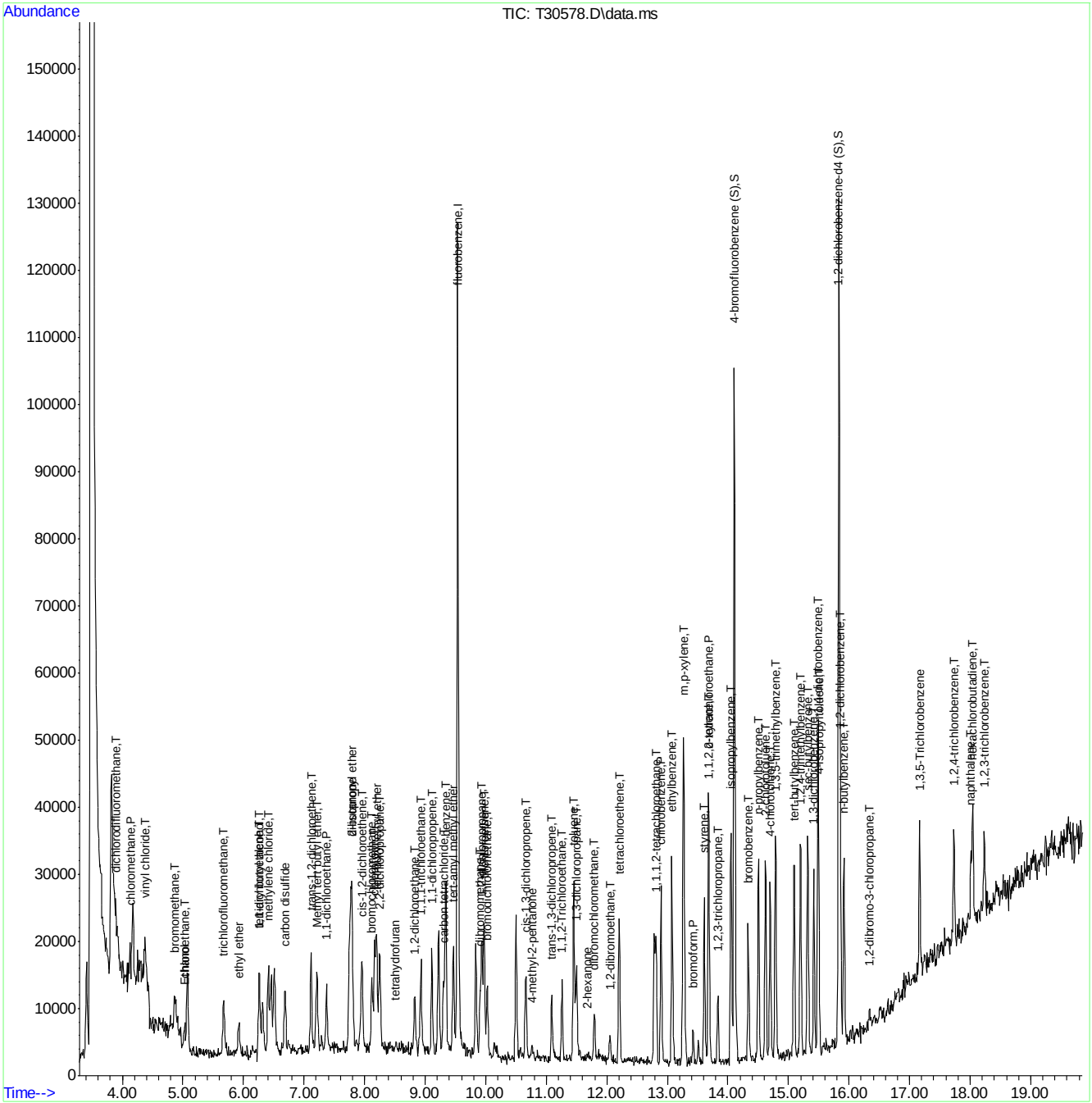
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
45) 2-hexanone	11.674	43	1403m	0.57 ug/L	
46) dibromochloromethane	11.788	129	4178	1.03 ug/L	94
47) 1,2-dibromoethane	12.058	107	3875	1.14 ug/L	80
48) chlorobenzene	12.900	112	14225	0.99 ug/L	97
49) 1,1,1,2-tetrachloroethane	12.812	131	4642	1.03 ug/L	97
50) ethylbenzene	13.075	91	24562	1.06 ug/L	98
51) m,p-xylene	13.270	106	17846	1.92 ug/L	89
52) o-xylene	13.681	106	9578	1.04 ug/L	91
53) styrene	13.607	104	13011	0.96 ug/L	92
54) bromoform	13.425	173	2032	0.86 ug/L	86
55) isopropylbenzene	14.052	105	24472	1.03 ug/L	97
56) bromobenzene	14.341	156	5732	1.00 ug/L	89
57) 1,1,2,2-tetrachloroethane	13.688	83	3879	0.99 ug/L	78
58) 1,2,3-trichloropropane	13.836	75	3980	0.98 ug/L	99
59) n-propylbenzene	14.503	91	27410	0.97 ug/L	98
60) 2-chlorotoluene	14.617	126	6023	1.01 ug/L	99
61) 4-chlorotoluene	14.698	91	18051	1.03 ug/L	92
62) 1,3,5-trimethylbenzene	14.786	105	19011	0.96 ug/L	94
63) tert-butylbenzene	15.089	119	14965	0.92 ug/L	95
64) 1,2,4-trimethylbenzene	15.204	105	18225	0.94 ug/L	94
65) sec-butylbenzene	15.318	105	24042	0.95 ug/L	91
66) 1,3-dichlorobenzene	15.419	146	11541	1.00 ug/L	88
67) 4-isopropyltoluene	15.500	119	16408	0.88 ug/L	93
68) 1,4-dichlorobenzene	15.486	146	10609	0.95 ug/L	95
69) 1,2-dichlorobenzene	15.857	146	10999	1.06 ug/L	89
71) n-butylbenzene	15.918	91	15655	0.85 ug/L	100
72) 1,2-dibromo-3-chloropr...	16.335	75	600	1.10 ug/L #	76
73) 1,3,5-Trichlorobenzene	17.171	180	7870	1.04 ug/L	97
74) 1,2,4-trichlorobenzene	17.730	180	5608	0.99 ug/L	95
75) hexachlorobutadiene	18.040	225	4172	1.10 ug/L	95
76) naphthalene	18.013	128	6289	0.86 ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	4400	1.04 ug/L	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30578.D
Acq On : 10 Jul 2013 9:50 am
Operator : jaimem
Sample : ic1065-1
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 13:33:52 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:32:50 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30579.D
Acq On : 10 Jul 2013 10:17 am
Operator : jaimem
Sample : ic1065-2
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 13:31:50 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:31:41 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	113948	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	38345	4.68	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 93.60%				
70) 1,2-dichlorobenzene-d4...	15.830	152	35942	4.60	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	10268	2.45	ug/L		93
3) chloromethane	4.129	50	16662	2.53	ug/L		95
4) vinyl chloride	4.378	62	17041	2.30	ug/L		92
5) bromomethane	4.863	96	8624	2.30	ug/L		96
6) Ethanol	5.025	45	5713	188.32	ug/L		99
7) chloroethane	5.018	64	7564	2.32	ug/L		92
9) ethyl ether	5.921	59	6321	1.94	ug/L	#	68
10) trichlorofluoromethane	5.678	101	18019	2.17	ug/L		99
11) 1,1-dichloroethene	6.258	96	10644	2.35	ug/L	#	62
12) methylene chloride	6.413	84	12340	2.24	ug/L	#	52
13) tertiary butyl alcohol	6.264	59	4713	19.35	ug/L		98
14) carbon disulfide	6.682	76	30652	2.14	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	12090	2.32	ug/L	#	70
16) Methyl tert butyl ether	7.207	73	21842	2.08	ug/L		79
17) 1,1-dichloroethane	7.376	63	19828	2.10	ug/L		93
18) 2-butanone	7.787	43	30446	2.03	ug/L	#	100
19) di-isopropyl ether	7.787	45	32055	1.98	ug/L		87
20) tert-butyl ethyl ether	8.198	59	28086	1.97	ug/L		85
21) 2,2-dichloropropane	8.252	77	15894	2.22	ug/L		95
22) cis-1,2-dichloroethene	7.955	96	12837	2.25	ug/L	#	69
23) tetrahydrofuran	8.501	42	955	1.31	ug/L	#	49
24) bromochloromethane	8.117	128	5168	2.05	ug/L	#	56
25) chloroform	8.164	83	19908	2.12	ug/L		99
26) 1,1,1-trichloroethane	8.925	97	17427	2.20	ug/L		84
27) carbon tetrachloride	9.296	117	13896	2.14	ug/L		96
28) 1,1-dichloropropene	9.107	75	14216	2.11	ug/L		90
29) benzene	9.336	78	41554	2.08	ug/L		99
30) 1,2-dichloroethane	8.831	62	12700	2.01	ug/L		82
31) tert-amyl methyl ether	9.464	73	25380	2.25	ug/L	#	76
32) trichloroethene	9.969	95	11784	2.11	ug/L		98
33) 1,2-dichloropropane	9.936	63	11544	2.12	ug/L		94
34) dibromomethane	9.909	93	5769	2.05	ug/L		89
35) bromodichloromethane	10.023	83	12009	1.85	ug/L		96
37) cis-1,3-dichloropropene	10.663	75	15797	2.01	ug/L		100
38) 4-methyl-2-pentanone	10.764	43	5278	1.88	ug/L		79
39) toluene	11.451	92	24884	2.08	ug/L		96
40) trans-1,3-dichloropropene	11.088	75	11114	1.84	ug/L		88
42) 1,1,2-Trichloroethane	11.256	97	7159	2.02	ug/L		91
43) tetrachloroethene	12.206	166	12142	2.23	ug/L		99
44) 1,3-dichloropropane	11.505	76	12734	2.00	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30579.D
Acq On : 10 Jul 2013 10:17 am
Operator : jaimem
Sample : ic1065-2
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 13:31:50 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:31:41 2013
Response via : Initial Calibration

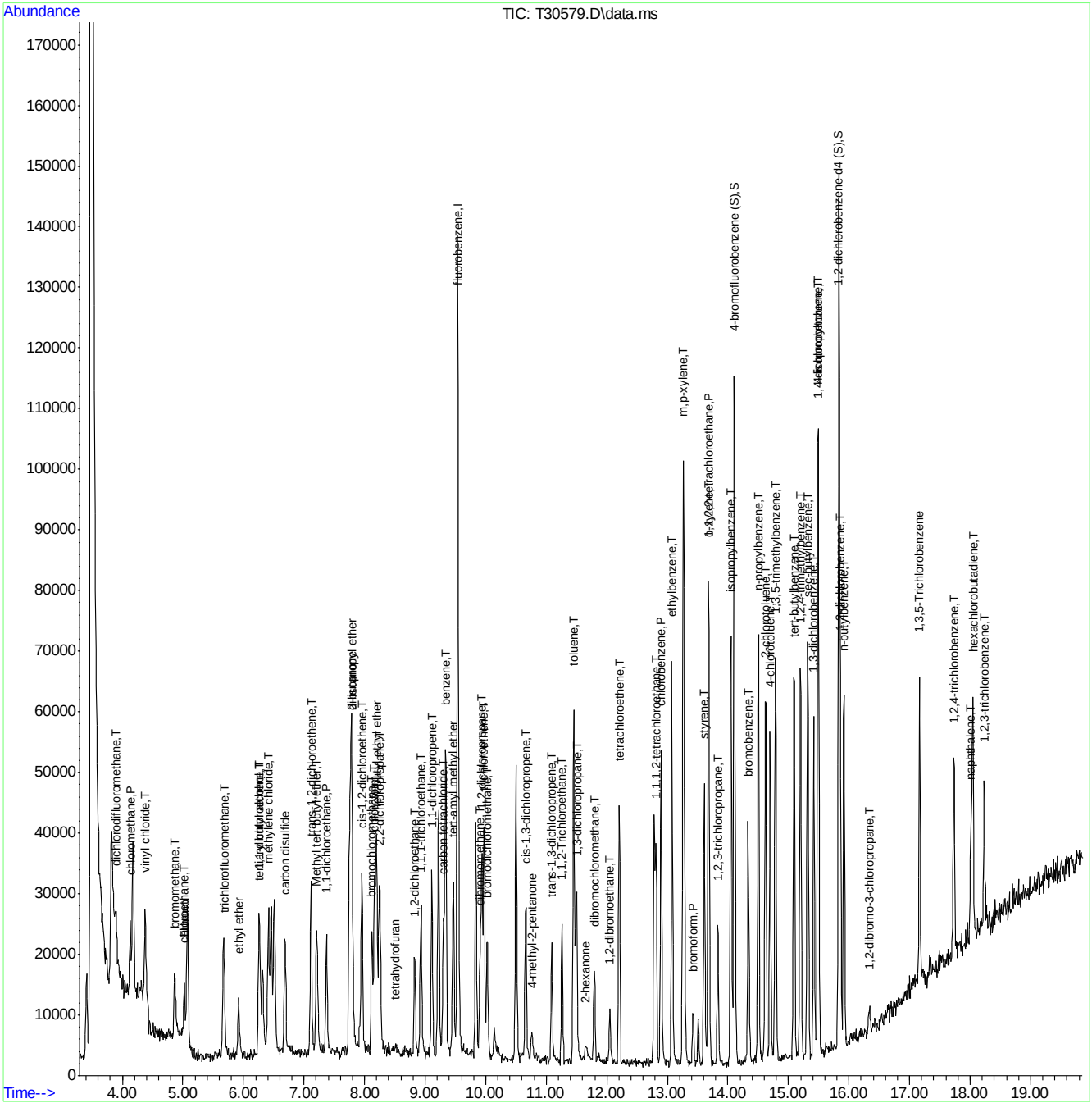
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 2-hexanone	11.647	43	4187	1.60	ug/L		74
46) dibromochloromethane	11.795	129	7509	1.76	ug/L		93
47) 1,2-dibromoethane	12.051	107	6622	1.88	ug/L		90
48) chlorobenzene	12.893	112	30606	2.09	ug/L		98
49) 1,1,1,2-tetrachloroethane	12.812	131	8893	1.91	ug/L		92
50) ethylbenzene	13.075	91	49346	2.09	ug/L		95
51) m,p-xylene	13.263	106	37912	3.98	ug/L		93
52) o-xylene	13.681	106	17898	1.86	ug/L	#	79
53) styrene	13.614	104	25845	1.84	ug/L		93
54) bromoform	13.425	173	4320	1.75	ug/L		89
55) isopropylbenzene	14.052	105	48179	1.98	ug/L		97
56) bromobenzene	14.335	156	12026	2.04	ug/L		92
57) 1,1,2,2-tetrachloroethane	13.681	83	7870	1.94	ug/L		96
58) 1,2,3-trichloropropane	13.829	75	7783	1.85	ug/L		93
59) n-propylbenzene	14.503	91	57326	1.98	ug/L		98
60) 2-chlorotoluene	14.624	126	12296	2.01	ug/L		97
61) 4-chlorotoluene	14.698	91	34273	1.90	ug/L		98
62) 1,3,5-trimethylbenzene	14.786	105	36599	1.77	ug/L		89
63) tert-butylbenzene	15.096	119	33951	2.03	ug/L		94
64) 1,2,4-trimethylbenzene	15.197	105	36037	1.77	ug/L		99
65) sec-butylbenzene	15.318	105	49477	1.89	ug/L		94
66) 1,3-dichlorobenzene	15.419	146	22728	1.90	ug/L		96
67) 4-isopropyltoluene	15.493	119	35592	1.82	ug/L		93
68) 1,4-dichlorobenzene	15.486	146	21806	1.89	ug/L		98
69) 1,2-dichlorobenzene	15.857	146	20063	1.87	ug/L		91
71) n-butylbenzene	15.918	91	34773	1.80	ug/L		95
72) 1,2-dibromo-3-chloropr...	16.335	75	1032	1.81	ug/L	#	80
73) 1,3,5-Trichlorobenzene	17.164	180	14338	1.82	ug/L		93
74) 1,2,4-trichlorobenzene	17.736	180	10407	1.75	ug/L		86
75) hexachlorobutadiene	18.046	225	8051	2.08	ug/L		97
76) naphthalene	18.013	128	14138	1.86	ug/L		100
77) 1,2,3-trichlorobenzene	18.228	180	8524	1.96	ug/L		85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30579.D
Acq On : 10 Jul 2013 10:17 am
Operator : jaimem
Sample : ic1065-2
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 13:31:50 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:31:41 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30580.D
Acq On : 10 Jul 2013 10:43 am
Operator : jaimem
Sample : icc1065-5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 13:31:33 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:30:12 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	111431	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	37392	4.59	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 91.80%				
70) 1,2-dichlorobenzene-d4...	15.837	152	35923	4.63	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 92.60%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.900	85	23698	6.00	ug/L		100
3) chloromethane	4.136	50	36644	5.90	ug/L		99
4) vinyl chloride	4.378	62	38878	5.45	ug/L		94
5) bromomethane	4.870	96	20195	5.65	ug/L		91
6) Ethanol	5.031	45	14792	498.25	ug/L		97
7) chloroethane	5.025	64	18386	6.00	ug/L		100
8) acetone	5.820	58	1358m	3.07	ug/L		
9) ethyl ether	5.921	59	16618	5.26	ug/L	#	69
10) trichlorofluoromethane	5.671	101	43727	5.48	ug/L		90
11) 1,1-dichloroethene	6.264	96	24202	5.61	ug/L	#	61
12) methylene chloride	6.412	84	29118	5.51	ug/L	#	62
13) tertiary butyl alcohol	6.257	59	11828	49.58	ug/L		98
14) carbon disulfide	6.689	76	74446	5.38	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	28387	5.74	ug/L	#	61
16) Methyl tert butyl ether	7.214	73	53685	5.30	ug/L		81
17) 1,1-dichloroethane	7.369	63	50204	5.55	ug/L		91
18) 2-butanone	7.787	43	75901	5.21	ug/L	#	95
19) di-isopropyl ether	7.793	45	81121	5.16	ug/L		89
20) tert-butyl ethyl ether	8.198	59	70760	5.09	ug/L		86
21) 2,2-dichloropropane	8.245	77	37713	5.51	ug/L		98
22) cis-1,2-dichloroethene	7.955	96	31472	5.83	ug/L	#	71
23) tetrahydrofuran	8.501	42	3407	4.71	ug/L		78
24) bromochloromethane	8.123	128	12318	4.99	ug/L	#	64
25) chloroform	8.164	83	49132	5.45	ug/L		98
26) 1,1,1-trichloroethane	8.932	97	40518	5.28	ug/L		88
27) carbon tetrachloride	9.302	117	33152	5.29	ug/L		96
28) 1,1-dichloropropene	9.114	75	34457	5.30	ug/L		94
29) benzene	9.336	78	105148	5.47	ug/L		100
30) 1,2-dichloroethane	8.824	62	32672	5.37	ug/L		89
31) tert-amyl methyl ether	9.471	73	59022	5.45	ug/L	#	78
32) trichloroethene	9.969	95	29943	5.63	ug/L		95
33) 1,2-dichloropropane	9.936	63	28300	5.41	ug/L		94
34) dibromomethane	9.909	93	14325	5.25	ug/L		97
35) bromodichloromethane	10.023	83	32352	5.10	ug/L		100
36) 1,4-dioxane	10.138	88	185m	9.74	ug/L		
37) cis-1,3-dichloropropene	10.656	75	38190	4.95	ug/L		96
38) 4-methyl-2-pentanone	10.757	43	12911	4.64	ug/L		95
39) toluene	11.451	92	60510	5.23	ug/L		93
40) trans-1,3-dichloropropene	11.087	75	30021	5.09	ug/L		97
42) 1,1,2-Trichloroethane	11.256	97	18388	5.37	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30580.D
Acq On : 10 Jul 2013 10:43 am
Operator : jaimem
Sample : icc1065-5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 13:31:33 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:30:12 2013
Response via : Initial Calibration

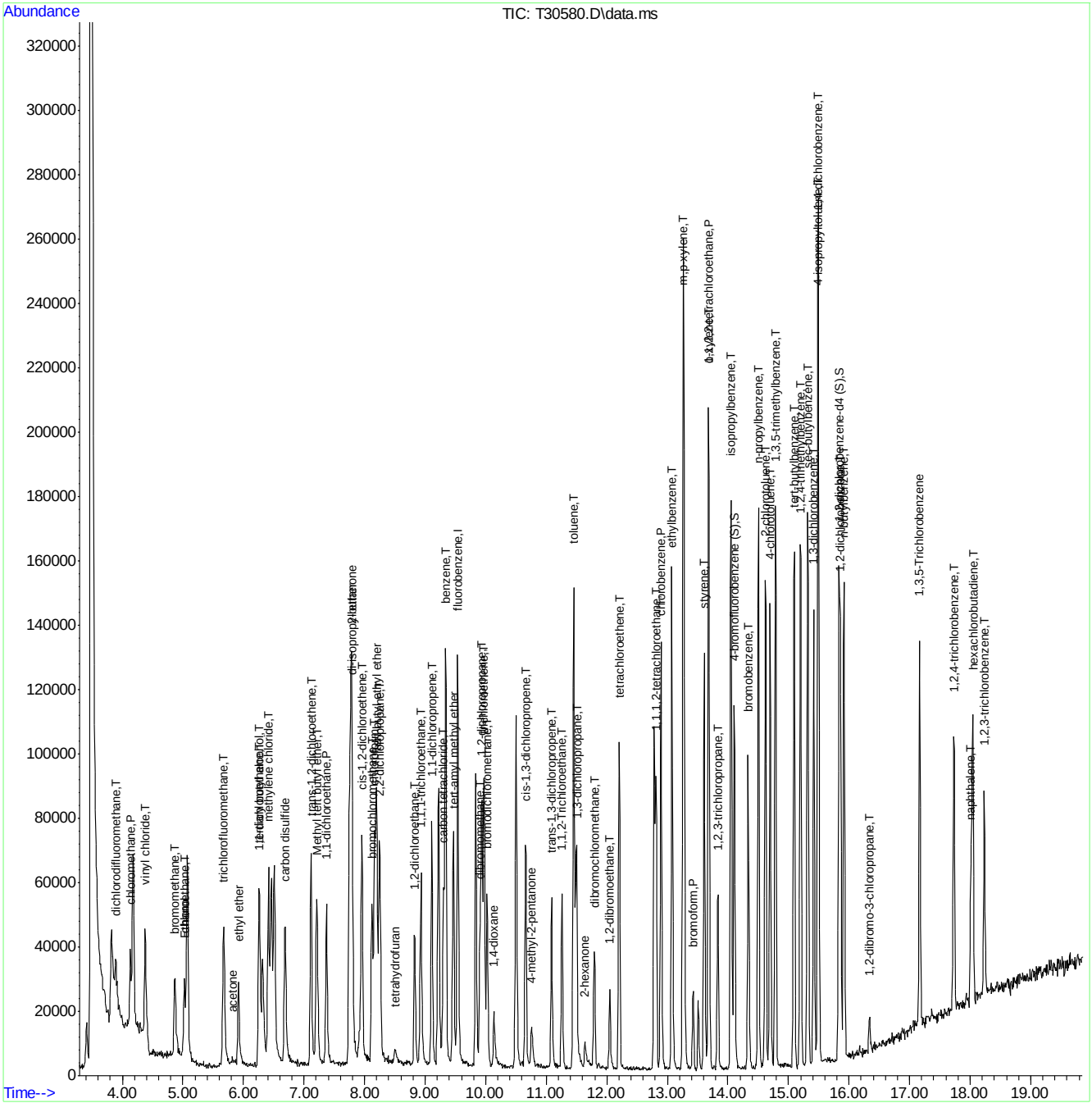
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.206	166	28670	5.48	ug/L	94
44) 1,3-dichloropropane	11.505	76	33066	5.40	ug/L	92
45) 2-hexanone	11.640	43	11793m	4.53	ug/L	
46) dibromochloromethane	11.795	129	20686	4.95	ug/L	100
47) 1,2-dibromoethane	12.051	107	17601	5.12	ug/L	91
48) chlorobenzene	12.900	112	74982	5.29	ug/L	93
49) 1,1,1,2-tetrachloroethane	12.812	131	23107	5.08	ug/L	93
50) ethylbenzene	13.081	91	118693	5.18	ug/L	100
51) m,p-xylene	13.263	106	95138	10.26	ug/L	96
52) o-xylene	13.681	106	47370	5.05	ug/L	100
53) styrene	13.607	104	68708	5.00	ug/L	98
54) bromoform	13.425	173	11222	4.57	ug/L	90
55) isopropylbenzene	14.051	105	118140	4.95	ug/L	99
56) bromobenzene	14.341	156	29537	5.17	ug/L	93
57) 1,1,2,2-tetrachloroethane	13.681	83	19586	4.94	ug/L	92
58) 1,2,3-trichloropropane	13.836	75	19645	4.72	ug/L	93
59) n-propylbenzene	14.503	91	142107	5.01	ug/L	99
60) 2-chlorotoluene	14.617	126	29493	4.90	ug/L	97
61) 4-chlorotoluene	14.698	91	89055	5.05	ug/L	92
62) 1,3,5-trimethylbenzene	14.786	105	98591	4.85	ug/L	98
63) tert-butylbenzene	15.096	119	80663	4.91	ug/L	95
64) 1,2,4-trimethylbenzene	15.203	105	95240	4.74	ug/L	100
65) sec-butylbenzene	15.318	105	123783	4.80	ug/L	97
66) 1,3-dichlorobenzene	15.419	146	57209	4.86	ug/L	95
67) 4-isopropyltoluene	15.493	119	87638	4.49	ug/L	97
68) 1,4-dichlorobenzene	15.486	146	54950	4.83	ug/L	95
69) 1,2-dichlorobenzene	15.857	146	52570	5.01	ug/L	96
71) n-butylbenzene	15.917	91	86460	4.48	ug/L	98
72) 1,2-dibromo-3-chloropr...	16.335	75	3079	5.68	ug/L	80
73) 1,3,5-Trichlorobenzene	17.164	180	38060	4.94	ug/L	99
74) 1,2,4-trichlorobenzene	17.730	180	28214	4.82	ug/L	95
75) hexachlorobutadiene	18.046	225	17737	4.61	ug/L	84
76) naphthalene	18.012	128	34776	4.62	ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	20281	4.71	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30580.D
Acq On : 10 Jul 2013 10:43 am
Operator : jaimem
Sample : icc1065-5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 13:31:33 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:30:12 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30581.D
Acq On : 10 Jul 2013 11:11 am
Operator : jaimem
Sample : ic1065-10
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 13:29:40 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:28:44 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	111025	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.106	95	40602	5.00	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 100.00%				
70) 1,2-dichlorobenzene-d4...	15.830	152	36931	4.71	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 94.20%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	40583	10.43	ug/L		97
3) chloromethane	4.129	50	65449	10.78	ug/L		100
4) vinyl chloride	4.378	62	71639	10.11	ug/L		96
5) bromomethane	4.870	96	37651	10.78	ug/L		89
6) Ethanol	5.025	45	29303	987.57	ug/L		99
7) chloroethane	5.025	64	32038	10.68	ug/L		97
8) acetone	5.806	58	4382m	9.91	ug/L		
9) ethyl ether	5.921	59	31627	10.07	ug/L		71
10) trichlorofluoromethane	5.672	101	81353	10.31	ug/L		96
11) 1,1-dichloroethene	6.264	96	43058	10.01	ug/L	#	60
12) methylene chloride	6.413	84	52706	10.02	ug/L	#	63
13) tertiary butyl alcohol	6.258	59	26434	115.51	ug/L		98
14) carbon disulfide	6.689	76	132765	9.52	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	47700	9.58	ug/L	#	65
16) Methyl tert butyl ether	7.214	73	101228	10.03	ug/L		75
17) 1,1-dichloroethane	7.369	63	89177	9.87	ug/L		96
18) 2-butanone	7.787	43	140855	9.62	ug/L	#	91
19) di-isopropyl ether	7.794	45	152961	9.69	ug/L		90
20) tert-butyl ethyl ether	8.198	59	136462	9.80	ug/L		85
21) 2,2-dichloropropane	8.245	77	66079	9.58	ug/L		98
22) cis-1,2-dichloroethene	7.955	96	52489	9.68	ug/L	#	78
23) tetrahydrofuran	8.508	42	7002	9.62	ug/L		83
24) bromochloromethane	8.124	128	24398	9.90	ug/L	#	63
25) chloroform	8.164	83	88646	9.82	ug/L		99
26) 1,1,1-trichloroethane	8.932	97	74294	9.63	ug/L		90
27) carbon tetrachloride	9.303	117	59409	9.35	ug/L		98
28) 1,1-dichloropropene	9.107	75	62199	9.47	ug/L		96
29) benzene	9.336	78	186373	9.65	ug/L		96
30) 1,2-dichloroethane	8.831	62	61365	10.17	ug/L		96
31) tert-amyl methyl ether	9.471	73	108769	10.10	ug/L	#	79
32) trichloroethene	9.976	95	51782	9.70	ug/L		92
33) 1,2-dichloropropane	9.936	63	50459	9.59	ug/L		96
34) dibromomethane	9.909	93	26619	9.72	ug/L		94
35) bromodichloromethane	10.030	83	60841	9.52	ug/L		96
36) 1,4-dioxane	10.131	88	546m	25.27	ug/L		
37) cis-1,3-dichloropropene	10.663	75	73450	9.41	ug/L		98
38) 4-methyl-2-pentanone	10.758	43	26527	9.42	ug/L		98
39) toluene	11.451	92	110284	9.42	ug/L		97
40) trans-1,3-dichloropropene	11.088	75	56652	9.52	ug/L		95
42) 1,1,2-Trichloroethane	11.256	97	34375	10.10	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30581.D
Acq On : 10 Jul 2013 11:11 am
Operator : jaimem
Sample : ic1065-10
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 13:29:40 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:28:44 2013
Response via : Initial Calibration

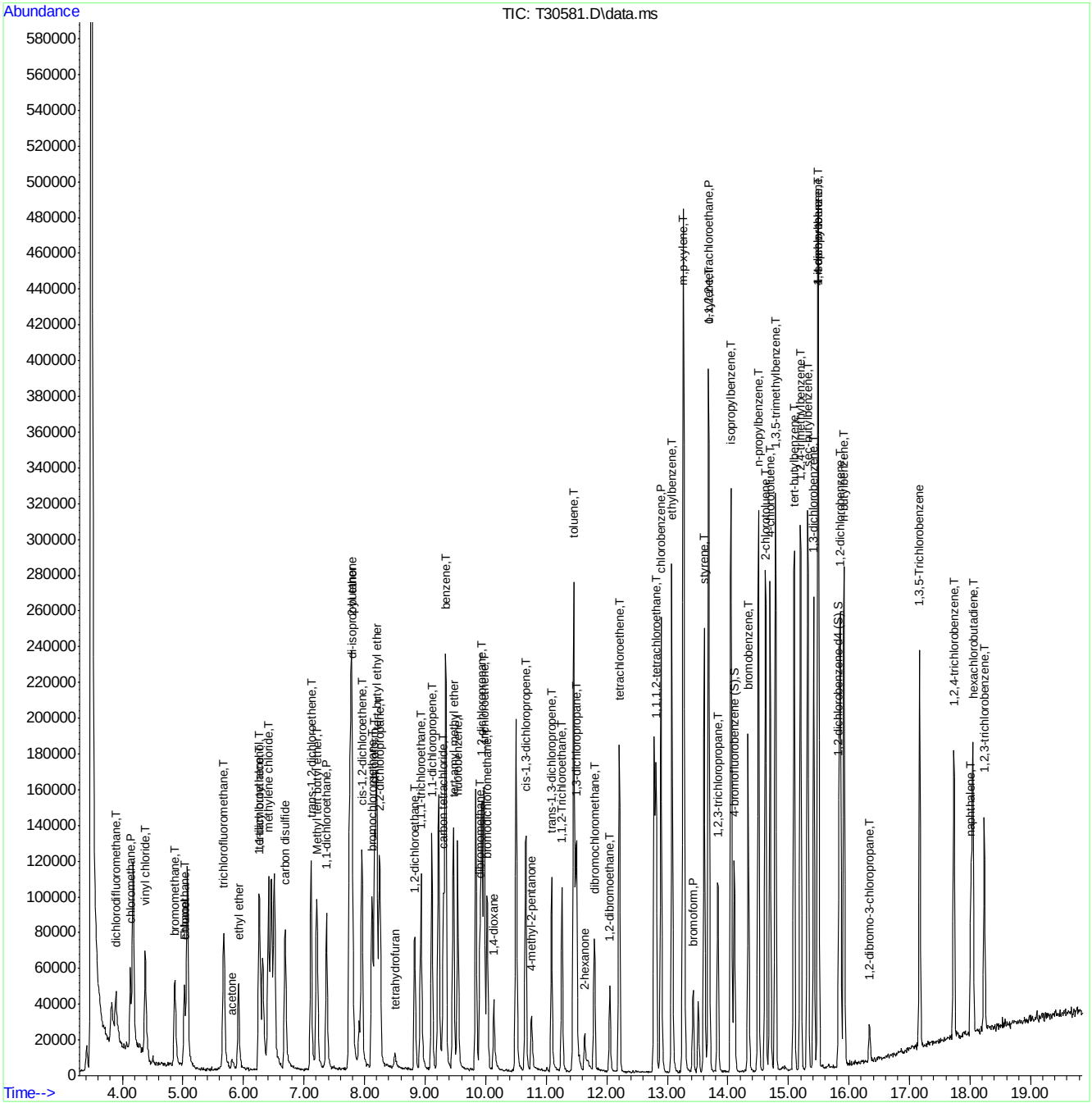
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.206	166	50248	9.52	ug/L	97
44) 1,3-dichloropropane	11.499	76	61224	10.04	ug/L	100
45) 2-hexanone	11.640	43	23761	8.90	ug/L	91
46) dibromochloromethane	11.795	129	38258	8.94	ug/L	96
47) 1,2-dibromoethane	12.051	107	34282	10.02	ug/L	98
48) chlorobenzene	12.893	112	138833	9.77	ug/L	97
49) 1,1,1,2-tetrachloroethane	12.812	131	43311	9.41	ug/L	92
50) ethylbenzene	13.075	91	217032	9.36	ug/L	99
51) m,p-xylene	13.264	106	175250	18.65	ug/L	95
52) o-xylene	13.681	106	89624	9.46	ug/L	95
53) styrene	13.607	104	123539	8.74	ug/L	99
54) bromoform	13.425	173	21990	8.70	ug/L	94
55) isopropylbenzene	14.052	105	219199	8.99	ug/L	97
56) bromobenzene	14.335	156	53414	9.19	ug/L	96
57) 1,1,2,2-tetrachloroethane	13.681	83	38983	9.82	ug/L	100
58) 1,2,3-trichloropropane	13.829	75	40013	9.54	ug/L	98
59) n-propylbenzene	14.503	91	255523	8.77	ug/L	98
60) 2-chlorotoluene	14.624	126	54951	8.93	ug/L	94
61) 4-chlorotoluene	14.698	91	164488	9.16	ug/L	99
62) 1,3,5-trimethylbenzene	14.786	105	181627	8.67	ug/L	97
63) tert-butylbenzene	15.096	119	148774	8.81	ug/L	98
64) 1,2,4-trimethylbenzene	15.197	105	178970	8.62	ug/L	100
65) sec-butylbenzene	15.318	105	223803	8.36	ug/L	100
66) 1,3-dichlorobenzene	15.419	146	107666	8.94	ug/L	96
67) 4-isopropyltoluene	15.493	119	164600	8.06	ug/L	97
68) 1,4-dichlorobenzene	15.487	146	101800	8.69	ug/L	99
69) 1,2-dichlorobenzene	15.857	146	97294	9.10	ug/L	95
71) n-butylbenzene	15.918	91	159457	7.84	ug/L	100
72) 1,2-dibromo-3-chloropr...	16.335	75	5474	10.19	ug/L	89
73) 1,3,5-Trichlorobenzene	17.164	180	67801	8.50	ug/L	98
74) 1,2,4-trichlorobenzene	17.730	180	52441	8.70	ug/L	98
75) hexachlorobutadiene	18.046	225	34103	8.59	ug/L	97
76) naphthalene	18.013	128	67978	8.78	ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	37974	8.52	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30581.D
Acq On : 10 Jul 2013 11:11 am
Operator : jaimem
Sample : ic1065-10
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 13:29:40 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:28:44 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang 07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30582.D
Acq On : 10 Jul 2013 11:38 am
Operator : jaimem
Sample : ic1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 13:28:10 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:27:18 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	116720	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	43963	5.23	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 104.60%				
70) 1,2-dichlorobenzene-d4...	15.837	152	40849	4.93	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 98.60%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.886	85	88736	22.66	ug/L		100
3) chloromethane	4.129	50	136082	22.06	ug/L		98
4) vinyl chloride	4.378	62	158393	21.95	ug/L		100
5) bromomethane	4.870	96	78701	22.24	ug/L		97
6) Ethanol	5.025	45	59503	1864.41	ug/L		96
7) chloroethane	5.025	64	63985	20.43	ug/L		96
8) acetone	5.799	58	9000	19.07	ug/L		97
9) ethyl ether	5.914	59	67983	20.91	ug/L	#	70
10) trichlorofluoromethane	5.671	101	176701	22.01	ug/L		94
11) 1,1-dichloroethene	6.264	96	94077	21.24	ug/L	#	64
12) methylene chloride	6.412	84	115210	21.29	ug/L	#	63
13) tertiary butyl alcohol	6.258	59	47311	195.03	ug/L		99
14) carbon disulfide	6.689	76	301654	20.88	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	109583	21.43	ug/L	#	65
16) Methyl tert butyl ether	7.214	73	218538	20.91	ug/L		75
17) 1,1-dichloroethane	7.369	63	199364	21.53	ug/L		95
18) 2-butanone	7.787	43	315488	20.75	ug/L	#	26
19) di-isopropyl ether	7.793	45	340392	20.79	ug/L		90
20) tert-butyl ethyl ether	8.191	59	297465	20.49	ug/L		86
21) 2,2-dichloropropane	8.251	77	147493	20.52	ug/L		98
22) cis-1,2-dichloroethene	7.955	96	119097	21.36	ug/L	#	72
23) tetrahydrofuran	8.501	42	14609	18.67	ug/L		83
24) bromochloromethane	8.123	128	53221	20.82	ug/L	#	63
25) chloroform	8.164	83	195770	20.95	ug/L		100
26) 1,1,1-trichloroethane	8.932	97	166504	20.79	ug/L		89
27) carbon tetrachloride	9.302	117	136596	20.69	ug/L		96
28) 1,1-dichloropropene	9.107	75	142303	20.92	ug/L		96
29) benzene	9.336	78	418472	20.95	ug/L		99
30) 1,2-dichloroethane	8.824	62	131517	21.12	ug/L		97
31) tert-amyl methyl ether	9.464	73	228867	20.31	ug/L		81
32) trichloroethene	9.969	95	115047	20.76	ug/L		100
33) 1,2-dichloropropane	9.936	63	114553	21.07	ug/L		98
34) dibromomethane	9.909	93	59402	20.95	ug/L		99
35) bromodichloromethane	10.023	83	137034	20.60	ug/L		99
36) 1,4-dioxane	10.124	88	1959m	80.70	ug/L		
37) cis-1,3-dichloropropene	10.656	75	165378	20.24	ug/L		96
38) 4-methyl-2-pentanone	10.751	43	58707	19.76	ug/L		97
39) toluene	11.451	92	253224	20.88	ug/L		100
40) trans-1,3-dichloropropene	11.087	75	126628	20.36	ug/L		100
42) 1,1,2-Trichloroethane	11.263	97	73726	20.93	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30582.D
Acq On : 10 Jul 2013 11:38 am
Operator : jaimem
Sample : ic1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 13:28:10 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:27:18 2013
Response via : Initial Calibration

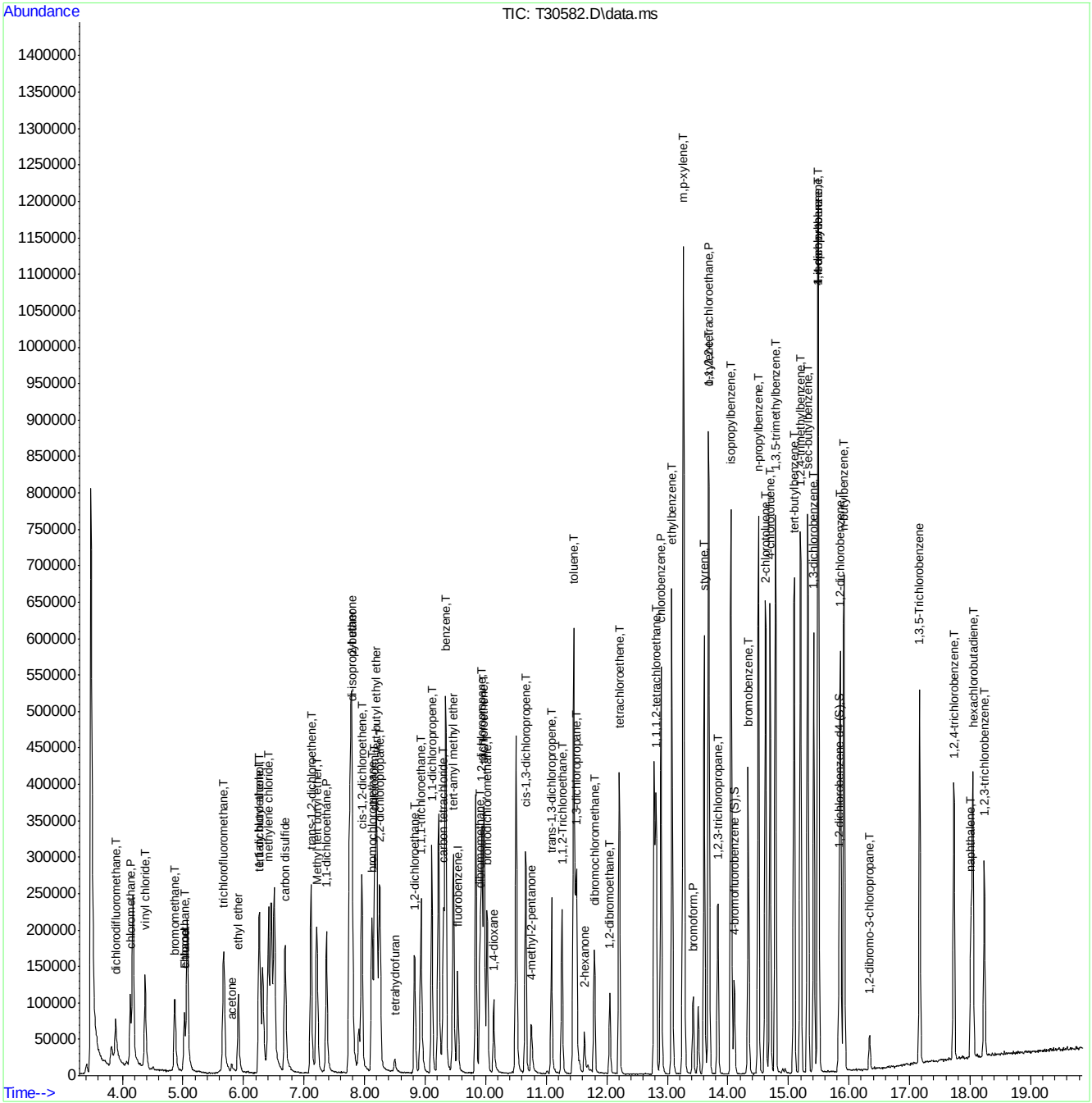
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.206	166	113185	20.62	ug/L	97
44) 1,3-dichloropropane	11.498	76	131950	20.90	ug/L	98
45) 2-hexanone	11.626	43	54054	18.91	ug/L	97
46) dibromochloromethane	11.795	129	89532	19.87	ug/L	99
47) 1,2-dibromoethane	12.051	107	75099	21.33	ug/L	95
48) chlorobenzene	12.893	112	307198	20.85	ug/L	100
49) 1,1,1,2-tetrachloroethane	12.812	131	96775	20.01	ug/L	98
50) ethylbenzene	13.075	91	493139	20.36	ug/L	100
51) m,p-xylene	13.263	106	398475	40.49	ug/L	94
52) o-xylene	13.681	106	198138	19.84	ug/L	95
53) styrene	13.607	104	294845	19.76	ug/L	99
54) bromoform	13.425	173	50955	18.80	ug/L	100
55) isopropylbenzene	14.051	105	512962	20.00	ug/L	98
56) bromobenzene	14.341	156	123533	20.34	ug/L	92
57) 1,1,2,2-tetrachloroethane	13.681	83	81991	19.46	ug/L	99
58) 1,2,3-trichloropropane	13.836	75	86686	19.49	ug/L	95
59) n-propylbenzene	14.503	91	608188	19.77	ug/L	98
60) 2-chlorotoluene	14.624	126	127915	19.65	ug/L	93
61) 4-chlorotoluene	14.698	91	378704	20.08	ug/L	97
62) 1,3,5-trimethylbenzene	14.786	105	428841	19.23	ug/L	100
63) tert-butylbenzene	15.096	119	353683	19.89	ug/L	99
64) 1,2,4-trimethylbenzene	15.197	105	429376	19.52	ug/L	98
65) sec-butylbenzene	15.318	105	548037	19.20	ug/L	98
66) 1,3-dichlorobenzene	15.419	146	249102	19.52	ug/L	97
67) 4-isopropyltoluene	15.493	119	409531	18.63	ug/L	99
68) 1,4-dichlorobenzene	15.486	146	240012	19.23	ug/L	99
69) 1,2-dichlorobenzene	15.857	146	223545	19.85	ug/L	99
71) n-butylbenzene	15.917	91	403581	18.36	ug/L	96
72) 1,2-dibromo-3-chloropr...	16.335	75	11149	19.62	ug/L	93
73) 1,3,5-Trichlorobenzene	17.164	180	164078	19.36	ug/L	99
74) 1,2,4-trichlorobenzene	17.736	180	125484	19.72	ug/L	93
75) hexachlorobutadiene	18.046	225	81378	19.24	ug/L	97
76) naphthalene	18.012	128	154792	18.58	ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	90363	18.96	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30582.D
Acq On : 10 Jul 2013 11:38 am
Operator : jaimem
Sample : ic1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 13:28:10 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:27:18 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30583.D
Acq On : 10 Jul 2013 12:07 pm
Operator : jaimem
Sample : ic1065-40
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 10 13:26:06 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:25:27 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	121856	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	43324	4.88	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 97.60%				
70) 1,2-dichlorobenzene-d4...	15.837	152	42047	4.73	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 94.60%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	177790	47.63	ug/L		100
3) chloromethane	4.129	50	274333	45.56	ug/L		100
4) vinyl chloride	4.378	62	312579	43.12	ug/L		96
5) bromomethane	4.870	96	155604	44.48	ug/L		97
6) Ethanol	5.025	45	143600	4671.58	ug/L		98
7) chloroethane	5.025	64	143738	48.81	ug/L		97
8) acetone	5.799	58	20960	45.40	ug/L		99
9) ethyl ether	5.914	59	142213	43.99	ug/L		72
10) trichlorofluoromethane	5.671	101	356497	45.41	ug/L		97
11) 1,1-dichloroethene	6.258	96	193296	43.78	ug/L	#	67
12) methylene chloride	6.412	84	236945	44.09	ug/L	#	65
13) tertiary butyl alcohol	6.258	59	105152	431.58	ug/L		99
14) carbon disulfide	6.689	76	628475	43.49	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	222063	43.35	ug/L	#	67
16) Methyl tert butyl ether	7.214	73	457316	44.02	ug/L		77
17) 1,1-dichloroethane	7.376	63	403693	43.66	ug/L		90
18) 2-butanone	7.787	43	660264	43.32	ug/L	#	97
19) di-isopropyl ether	7.793	45	712905	43.58	ug/L		90
20) tert-butyl ethyl ether	8.198	59	629993	43.25	ug/L		86
21) 2,2-dichloropropane	8.252	77	311238	43.04	ug/L		99
22) cis-1,2-dichloroethene	7.955	96	241674	43.15	ug/L	#	72
23) tetrahydrofuran	8.501	42	34325	44.23	ug/L		81
24) bromochloromethane	8.123	128	111206	43.51	ug/L	#	57
25) chloroform	8.164	83	404652	43.08	ug/L		96
26) 1,1,1-trichloroethane	8.932	97	346265	42.92	ug/L		90
27) carbon tetrachloride	9.302	117	282687	42.09	ug/L		96
28) 1,1-dichloropropene	9.114	75	294167	42.94	ug/L		97
29) benzene	9.336	78	868007	43.36	ug/L		100
30) 1,2-dichloroethane	8.824	62	271511	43.68	ug/L		95
31) tert-amyl methyl ether	9.464	73	487497	43.00	ug/L		81
32) trichloroethene	9.976	95	240070	43.09	ug/L		100
33) 1,2-dichloropropane	9.936	63	233838	42.49	ug/L		96
34) dibromomethane	9.909	93	124299	44.19	ug/L		96
35) bromodichloromethane	10.023	83	283654	41.72	ug/L		100
36) 1,4-dioxane	10.131	88	5201	210.74	ug/L	#	38
37) cis-1,3-dichloropropene	10.656	75	351747	42.54	ug/L		97
38) 4-methyl-2-pentanone	10.751	43	128247	42.77	ug/L		99
39) toluene	11.451	92	519040	42.03	ug/L		96
40) trans-1,3-dichloropropene	11.088	75	265460	41.80	ug/L		96
42) 1,1,2-Trichloroethane	11.263	97	153314	43.55	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30583.D
Acq On : 10 Jul 2013 12:07 pm
Operator : jaimem
Sample : ic1065-40
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 10 13:26:06 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:25:27 2013
Response via : Initial Calibration

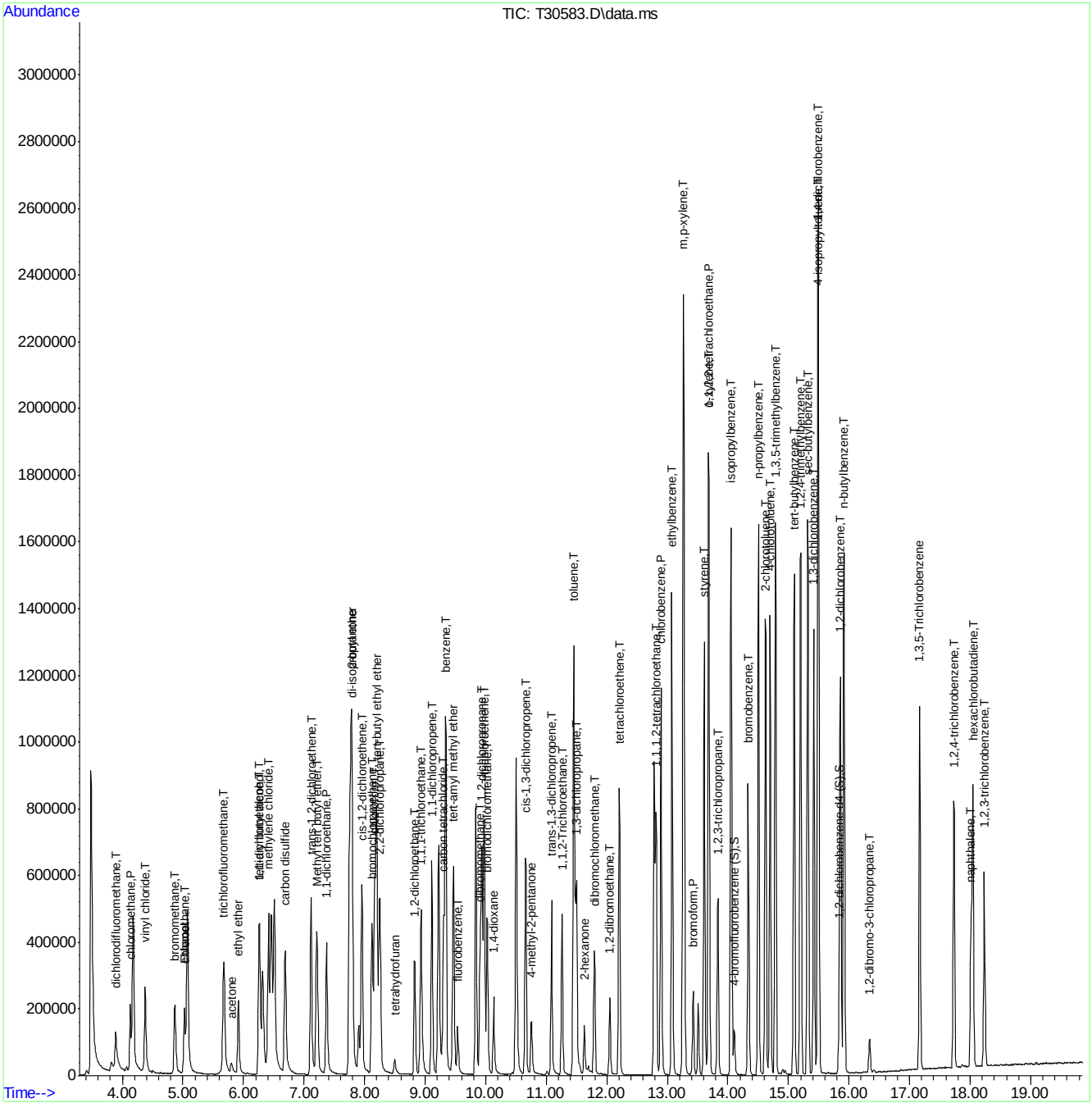
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) tetrachloroethene	12.206	166	235568	42.26	ug/L		98
44) 1,3-dichloropropane	11.498	76	271602	42.48	ug/L		97
45) 2-hexanone	11.626	43	123945	43.17	ug/L		96
46) dibromochloromethane	11.795	129	192608	41.92	ug/L		99
47) 1,2-dibromoethane	12.051	107	152733	43.24	ug/L		96
48) chlorobenzene	12.893	112	634737	42.59	ug/L		98
49) 1,1,1,2-tetrachloroethane	12.812	131	206716	41.93	ug/L		99
50) ethylbenzene	13.075	91	1042891	42.54	ug/L		100
51) m,p-xylene	13.263	106	840814	83.78	ug/L		97
52) o-xylene	13.681	106	421939	40.93	ug/L		98
53) styrene	13.607	104	632533	41.22	ug/L		98
54) bromoform	13.425	173	114912	41.24	ug/L		96
55) isopropylbenzene	14.052	105	1087181	41.23	ug/L		98
56) bromobenzene	14.341	156	259088	41.75	ug/L		89
57) 1,1,2,2-tetrachloroethane	13.681	83	179920	41.85	ug/L		96
58) 1,2,3-trichloropropane	13.836	75	189010	41.45	ug/L		98
59) n-propylbenzene	14.503	91	1297822	40.82	ug/L		99
60) 2-chlorotoluene	14.624	126	278254	41.91	ug/L		91
61) 4-chlorotoluene	14.698	91	794507	40.70	ug/L		96
62) 1,3,5-trimethylbenzene	14.786	105	937786	40.58	ug/L		100
63) tert-butylbenzene	15.096	119	756014	41.46	ug/L		96
64) 1,2,4-trimethylbenzene	15.203	105	919282	40.08	ug/L		98
65) sec-butylbenzene	15.318	105	1193893	40.15	ug/L		99
66) 1,3-dichlorobenzene	15.419	146	533820	40.16	ug/L		99
67) 4-isopropyltoluene	15.493	119	905813	38.97	ug/L		99
68) 1,4-dichlorobenzene	15.486	146	520907	39.95	ug/L		99
69) 1,2-dichlorobenzene	15.857	146	474229	40.66	ug/L		99
71) n-butylbenzene	15.917	91	896077	38.13	ug/L		100
72) 1,2-dibromo-3-chloropr...	16.342	75	24094	41.23	ug/L	#	77
73) 1,3,5-Trichlorobenzene	17.164	180	357271	40.77	ug/L		98
74) 1,2,4-trichlorobenzene	17.736	180	266986	40.36	ug/L		99
75) hexachlorobutadiene	18.046	225	176719	40.06	ug/L		97
76) naphthalene	18.012	128	348764	40.18	ug/L		100
77) 1,2,3-trichlorobenzene	18.235	180	200563	40.63	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30583.D
Acq On : 10 Jul 2013 12:07 pm
Operator : jaimem
Sample : ic1065-40
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 10 13:26:06 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:25:27 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30584.D
Acq On : 10 Jul 2013 12:34 pm
Operator : jaimem
Sample : ic1065-80
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 10 13:36:19 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:36:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	139779	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	50924	5.24	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 104.80%				
70) 1,2-dichlorobenzene-d4...	15.837	152	51010	5.50	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	342573	61.93	ug/L		99
3) chloromethane	4.129	50	552522	60.88	ug/L		100
4) vinyl chloride	4.378	62	665273	64.73	ug/L		98
5) bromomethane	4.870	96	321018	60.67	ug/L		100
6) Ethanol	5.025	45	280876	5651.94	ug/L		95
7) chloroethane	5.025	64	270260	64.59	ug/L		99
8) acetone	5.799	58	42365	82.68	ug/L		91
9) ethyl ether	5.914	59	296635	73.29	ug/L	#	67
10) trichlorofluoromethane	5.671	101	720418	68.86	ug/L		98
11) 1,1-dichloroethene	6.264	96	405198	61.57	ug/L	#	68
12) methylene chloride	6.412	84	493127	67.03	ug/L	#	64
13) tertiary butyl alcohol	6.258	59	223586	720.65	ug/L		99
14) carbon disulfide	6.689	76	1326144	73.12	ug/L		100
15) trans-1,2-dichloroethene	7.113	96	470128	62.78	ug/L	#	67
16) Methyl tert butyl ether	7.214	73	953001	70.43	ug/L		77
17) 1,1-dichloroethane	7.376	63	848518	69.52	ug/L		92
18) 2-butanone	7.787	43	1398684	74.93	ug/L	#	97
19) di-isopropyl ether	7.793	45	1501191	73.76	ug/L		89
20) tert-butyl ethyl ether	8.198	59	1336687	73.93	ug/L		85
21) 2,2-dichloropropane	8.251	77	663530	70.52	ug/L		98
22) cis-1,2-dichloroethene	7.955	96	513976	66.54	ug/L	#	73
23) tetrahydrofuran	8.494	42	71218	79.92	ug/L		77
24) bromochloromethane	8.123	128	234559	74.23	ug/L	#	61
25) chloroform	8.164	83	862066	71.17	ug/L		96
26) 1,1,1-trichloroethane	8.932	97	740303	73.21	ug/L		91
27) carbon tetrachloride	9.302	117	616345	75.83	ug/L		99
28) 1,1-dichloropropene	9.114	75	628623	72.36	ug/L		97
29) benzene	9.336	78	1836908	72.30	ug/L		100
30) 1,2-dichloroethane	8.824	62	570433	70.48	ug/L		96
31) tert-amyl methyl ether	9.464	73	1040439	68.93	ug/L	#	81
32) trichloroethene	9.976	95	511312	71.65	ug/L		95
33) 1,2-dichloropropane	9.936	63	505045	72.74	ug/L		97
34) dibromomethane	9.909	93	258144	73.15	ug/L		97
35) bromodichloromethane	10.023	83	623950	77.76	ug/L		99
36) 1,4-dioxane	10.117	88	11324	541.14	ug/L	#	34
37) cis-1,3-dichloropropene	10.656	75	758857	77.10	ug/L		97
38) 4-methyl-2-pentanone	10.751	43	275191	86.96	ug/L		99
39) toluene	11.451	92	1133327	75.04	ug/L		99
40) trans-1,3-dichloropropene	11.088	75	582771	77.75	ug/L		99
42) 1,1,2-Trichloroethane	11.263	97	323074	72.27	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30584.D
Acq On : 10 Jul 2013 12:34 pm
Operator : jaimem
Sample : ic1065-80
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 10 13:36:19 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:36:08 2013
Response via : Initial Calibration

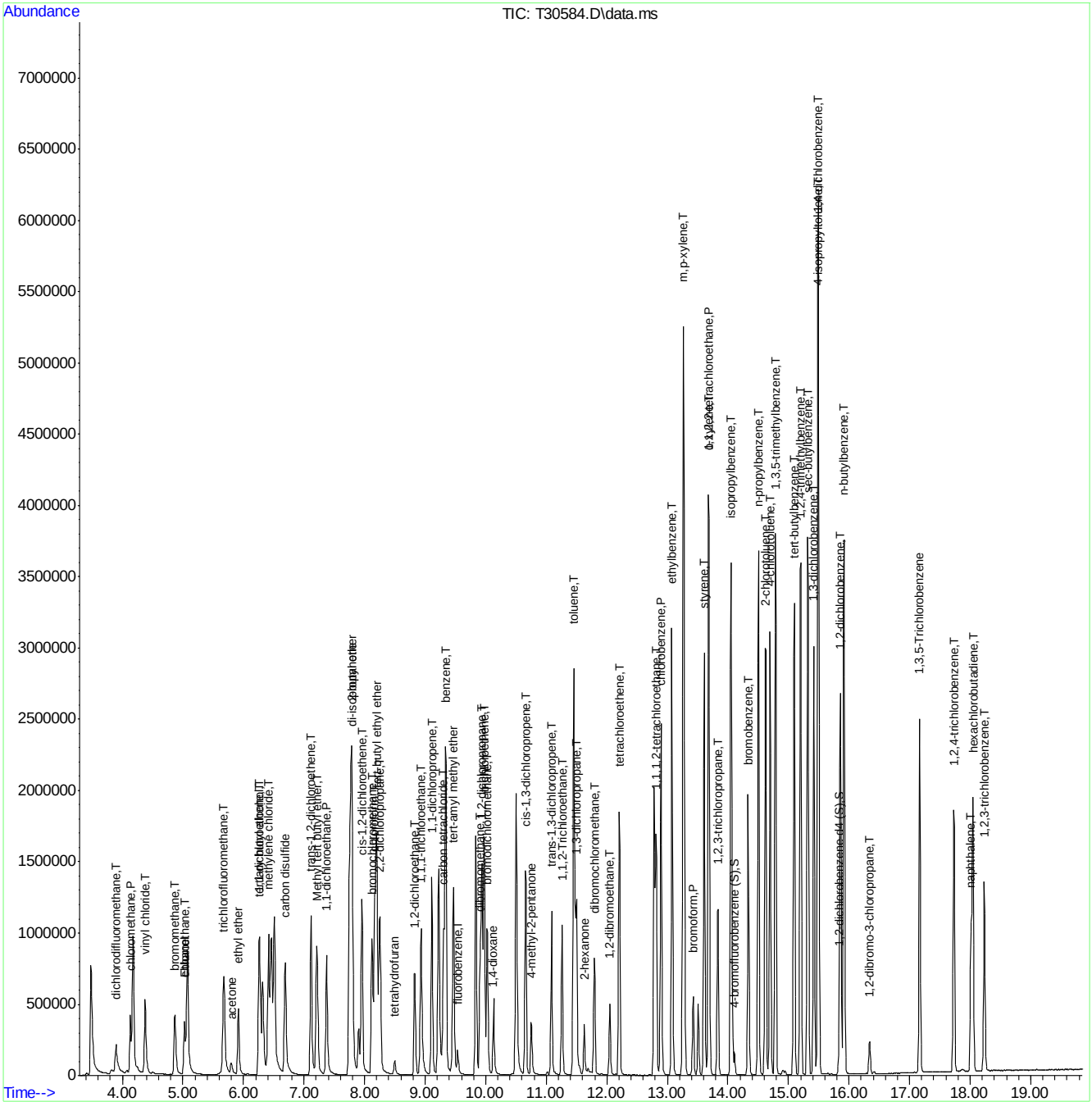
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.206	166	511510	73.71	ug/L	98
44) 1,3-dichloropropane	11.498	76	586680	74.84	ug/L	100
45) 2-hexanone	11.626	43	263488	100.24	ug/L	99
46) dibromochloromethane	11.795	129	421681	82.97	ug/L	99
47) 1,2-dibromoethane	12.051	107	324111	75.46	ug/L	97
48) chlorobenzene	12.900	112	1367526	73.76	ug/L	98
49) 1,1,1,2-tetrachloroethane	12.812	131	452451	78.86	ug/L	97
50) ethylbenzene	13.075	91	2249455	75.80	ug/L	99
51) m,p-xylene	13.263	106	1842002	157.43	ug/L	98
52) o-xylene	13.681	106	945987	78.99	ug/L	100
53) styrene	13.607	104	1408319	82.53	ug/L	99
54) bromoform	13.425	173	255688	89.20	ug/L	99
55) isopropylbenzene	14.052	105	2419505	79.60	ug/L	100
56) bromobenzene	14.341	156	569447	76.71	ug/L	90
57) 1,1,2,2-tetrachloroethane	13.681	83	394521	79.69	ug/L	99
58) 1,2,3-trichloropropane	13.836	75	418433	81.49	ug/L	100
59) n-propylbenzene	14.503	91	2917880	81.71	ug/L	99
60) 2-chlorotoluene	14.624	126	609223	79.91	ug/L	93
61) 4-chlorotoluene	14.698	91	1791214	79.99	ug/L	97
62) 1,3,5-trimethylbenzene	14.786	105	2120603	84.61	ug/L	99
63) tert-butylbenzene	15.096	119	1673187	81.49	ug/L	98
64) 1,2,4-trimethylbenzene	15.203	105	2104851	86.06	ug/L	98
65) sec-butylbenzene	15.318	105	2728906	86.24	ug/L	98
66) 1,3-dichlorobenzene	15.419	146	1219936	82.94	ug/L	99
67) 4-isopropyltoluene	15.493	119	2132922	92.32	ug/L	99
68) 1,4-dichlorobenzene	15.486	146	1196421	85.75	ug/L	100
69) 1,2-dichlorobenzene	15.857	146	1070271	80.74	ug/L	99
71) n-butylbenzene	15.917	91	2156598	94.38	ug/L	99
72) 1,2-dibromo-3-chloropr...	16.342	75	53628	76.22	ug/L	93
73) 1,3,5-Trichlorobenzene	17.164	180	804208	84.15	ug/L	99
74) 1,2,4-trichlorobenzene	17.730	180	606973	83.69	ug/L	99
75) hexachlorobutadiene	18.046	225	404842	81.27	ug/L	98
76) naphthalene	18.012	128	796534	86.48	ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	453011	83.36	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30584.D
Acq On : 10 Jul 2013 12:34 pm
Operator : jaimem
Sample : ic1065-80
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 10 13:36:19 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:36:08 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30589.D
Acq On : 10 Jul 2013 3:03 pm
Operator : jaimem
Sample : icv1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 10 15:24:32 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 14:20:00 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.545	96	119645	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.112	95	42748	5.14	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 102.80%				
70) 1,2-dichlorobenzene-d4...	15.837	152	42962	5.41	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 108.20%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	86612	18.29	ug/L		100
3) chloromethane	4.136	50	135061	17.39	ug/L		98
4) vinyl chloride	4.385	62	152937	20.38	ug/L		98
5) bromomethane	4.870	96	78721	21.25	ug/L		98
6) Ethanol	5.031	45	57511	1799.98	ug/L		95
7) chloroethane	5.031	64	67821	18.93	ug/L		98
8) acetone	5.820	58	9977	22.75	ug/L		87
9) ethyl ether	5.927	59	73041	21.08	ug/L		72
10) trichlorofluoromethane	5.678	101	179740	20.07	ug/L		92
11) 1,1-dichloroethene	6.264	96	96698	21.13	ug/L	#	62
12) methylene chloride	6.419	84	119272	18.94	ug/L	#	67
13) tertiary butyl alcohol	6.264	59	48691	183.35	ug/L		98
14) carbon disulfide	6.695	76	327292	21.08	ug/L		100
15) trans-1,2-dichloroethene	7.126	96	105882	19.99	ug/L	#	62
16) Methyl tert butyl ether	7.221	73	227688	19.66	ug/L		78
17) 1,1-dichloroethane	7.376	63	198794	19.03	ug/L		92
18) 2-butanone	7.793	43	321419	20.12	ug/L	#	26
19) di-isopropyl ether	7.800	45	352108	20.21	ug/L		91
20) tert-butyl ethyl ether	8.204	59	289092	18.68	ug/L		86
21) 2,2-dichloropropane	8.251	77	149268	18.53	ug/L		99
22) cis-1,2-dichloroethene	7.962	96	115499	17.47	ug/L	#	74
23) tetrahydrofuran	8.501	42	17119	22.05	ug/L		87
24) bromochloromethane	8.130	128	51823	19.16	ug/L	#	62
25) chloroform	8.171	83	197976	19.09	ug/L		98
26) 1,1,1-trichloroethane	8.939	97	162532	18.78	ug/L		90
27) carbon tetrachloride	9.309	117	132842	19.09	ug/L		96
28) 1,1-dichloropropene	9.114	75	139365	18.74	ug/L		98
29) benzene	9.343	78	414611	19.06	ug/L		99
30) 1,2-dichloroethane	8.831	62	130607	18.85	ug/L		97
31) tert-amyl methyl ether	9.471	73	230022	17.80	ug/L		81
32) trichloroethene	9.983	95	111516	18.26	ug/L		95
33) 1,2-dichloropropane	9.942	63	110521	18.60	ug/L		94
34) dibromomethane	9.915	93	57913	19.17	ug/L		98
35) bromodichloromethane	10.030	83	139128	20.26	ug/L		99
36) 1,4-dioxane	10.138	88	1791m	88.22	ug/L		
37) cis-1,3-dichloropropene	10.663	75	157385	18.68	ug/L		97
38) 4-methyl-2-pentanone	10.757	43	60874	22.47	ug/L		100
39) toluene	11.458	92	244640	18.92	ug/L		100
40) trans-1,3-dichloropropene	11.094	75	131598	20.51	ug/L		98
42) 1,1,2-Trichloroethane	11.263	97	72832	19.03	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30589.D
Acq On : 10 Jul 2013 3:03 pm
Operator : jaimem
Sample : icv1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 10 15:24:32 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 14:20:00 2013
Response via : Initial Calibration

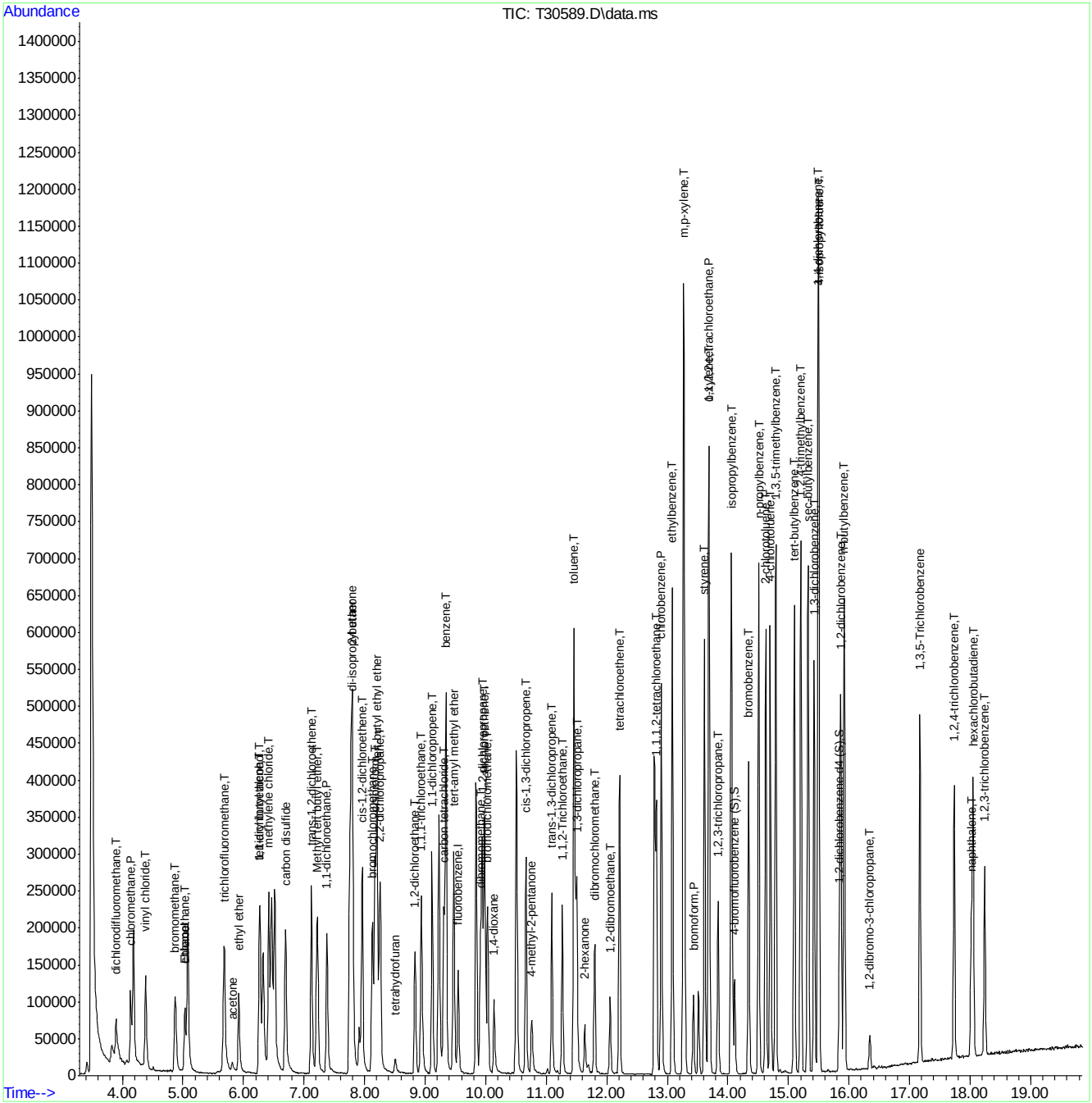
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.212	166	110252	18.56	ug/L	94
44) 1,3-dichloropropane	11.505	76	126296	18.82	ug/L	99
45) 2-hexanone	11.633	43	60795	21.52	ug/L	98
46) dibromochloromethane	11.801	129	90750	20.86	ug/L	99
47) 1,2-dibromoethane	12.057	107	73362	19.95	ug/L	98
48) chlorobenzene	12.900	112	286887	18.08	ug/L	96
49) 1,1,1,2-tetrachloroethane	12.819	131	99066	20.17	ug/L	99
50) ethylbenzene	13.081	91	476508	18.76	ug/L	99
51) m,p-xylene	13.270	106	382345	38.18	ug/L	97
52) o-xylene	13.688	106	190459	18.58	ug/L	95
53) styrene	13.614	104	286339	19.60	ug/L	99
54) bromoform	13.432	173	50859	20.73	ug/L	97
55) isopropylbenzene	14.058	105	481350	18.50	ug/L	100
56) bromobenzene	14.341	156	121821	19.17	ug/L	98
57) 1,1,2,2-tetrachloroethane	13.688	83	84411	19.92	ug/L	98
58) 1,2,3-trichloropropane	13.836	75	86146	19.60	ug/L	96
59) n-propylbenzene	14.509	91	559461	18.30	ug/L	96
60) 2-chlorotoluene	14.624	126	119235	18.27	ug/L	93
61) 4-chlorotoluene	14.698	91	359057	18.73	ug/L	98
62) 1,3,5-trimethylbenzene	14.792	105	408048	19.02	ug/L	99
63) tert-butylbenzene	15.096	119	323053	18.38	ug/L	98
64) 1,2,4-trimethylbenzene	15.203	105	403156	19.26	ug/L	100
65) sec-butylbenzene	15.325	105	501111	18.50	ug/L	99
66) 1,3-dichlorobenzene	15.426	146	236620	18.79	ug/L	98
67) 4-isopropyltoluene	15.500	119	408680	20.67	ug/L	99
68) 1,4-dichlorobenzene	15.493	146	239026	20.01	ug/L	98
69) 1,2-dichlorobenzene	15.864	146	209240	18.44	ug/L	97
71) n-butylbenzene	15.917	91	380514	19.46	ug/L	100
72) 1,2-dibromo-3-chloropr...	16.342	75	10958	18.20	ug/L	92
73) 1,3,5-Trichlorobenzene	17.170	180	151965	18.58	ug/L	100
74) 1,2,4-trichlorobenzene	17.736	180	118780	19.13	ug/L	98
75) hexachlorobutadiene	18.053	225	78475	18.40	ug/L	100
76) naphthalene	18.019	128	148797	18.87	ug/L	100
77) 1,2,3-trichlorobenzene	18.241	180	86516	18.60	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30589.D
Acq On : 10 Jul 2013 3:03 pm
Operator : jaimem
Sample : icv1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 10 15:24:32 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 14:20:00 2013
Response via : Initial Calibration



Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
08/16/13 09:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31063.D
Acq On : 15 Aug 2013 11:46 am
Operator : jaimem
Sample : bs
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 12:18:38 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.531	96	165778	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.099	95	62149	5.39	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 107.80%				
70) 1,2-dichlorobenzene-d4...	15.830	152	58315	5.30	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 106.00%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.886	85	40545m	6.18	ug/L		
3) chloromethane	4.129	50	68986m	6.41	ug/L		
4) vinyl chloride	4.371	62	62010	5.24	ug/L		94
5) bromomethane	4.863	96	33934	6.25	ug/L		94
6) Ethanol	5.025	45	29981m	628.85	ug/L		
7) chloroethane	5.025	64	31311	6.31	ug/L		96
8) acetone	5.806	58	3431	5.65	ug/L		91
9) ethyl ether	5.914	59	28675	5.97	ug/L		77
10) trichlorofluoromethane	5.665	101	68487	5.52	ug/L		97
11) 1,1-dichloroethene	6.251	96	42683	6.00	ug/L	#	71
12) methylene chloride	6.406	84	45939	5.27	ug/L	#	70
13) tertiary butyl alcohol	6.251	59	19890	54.05	ug/L		92
14) carbon disulfide	6.682	76	131457	6.11	ug/L		100
15) trans-1,2-dichloroethene	7.113	96	44088	5.32	ug/L	#	71
16) Methyl tert butyl ether	7.207	73	82659	5.15	ug/L		76
17) 1,1-dichloroethane	7.369	63	80196	5.54	ug/L		93
18) 2-butanone	7.780	43	128667	5.81	ug/L	#	93
19) di-isopropyl ether	7.787	45	144890	6.00	ug/L		94
20) tert-butyl ethyl ether	8.191	59	113850	5.31	ug/L		88
21) 2,2-dichloropropane	8.245	77	56945	5.10	ug/L		96
22) cis-1,2-dichloroethene	7.948	96	45166	4.93	ug/L	#	75
23) tetrahydrofuran	8.494	42	6665	6.19	ug/L		95
24) bromochloromethane	8.117	128	20141	5.37	ug/L	#	50
25) chloroform	8.157	83	77132	5.37	ug/L		98
26) 1,1,1-trichloroethane	8.925	97	65444	5.46	ug/L		88
27) carbon tetrachloride	9.296	117	50850	5.27	ug/L		99
28) 1,1-dichloropropene	9.107	75	53295	5.17	ug/L		96
29) benzene	9.329	78	161447	5.36	ug/L		98
30) 1,2-dichloroethane	8.824	62	51023	5.32	ug/L		95
31) tert-amyl methyl ether	9.457	73	89565	5.00	ug/L		82
32) trichloroethene	9.969	95	43808	5.18	ug/L		98
33) 1,2-dichloropropane	9.929	63	43917	5.33	ug/L		99
34) dibromomethane	9.902	93	20583	4.92	ug/L		93
35) bromodichloromethane	10.023	83	50930	5.35	ug/L		99
36) 1,4-dioxane	10.124	88	390m	29.89	ug/L		
37) cis-1,3-dichloropropene	10.656	75	57684	4.94	ug/L		96
38) 4-methyl-2-pentanone	10.751	43	21910	5.84	ug/L		90
39) toluene	11.444	92	94256	5.26	ug/L		100
40) trans-1,3-dichloropropene	11.081	75	48008	5.40	ug/L		100
42) 1,1,2-Trichloroethane	11.256	97	27077	5.11	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31063.D
Acq On : 15 Aug 2013 11:46 am
Operator : jaimem
Sample : bs
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 12:18:38 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration

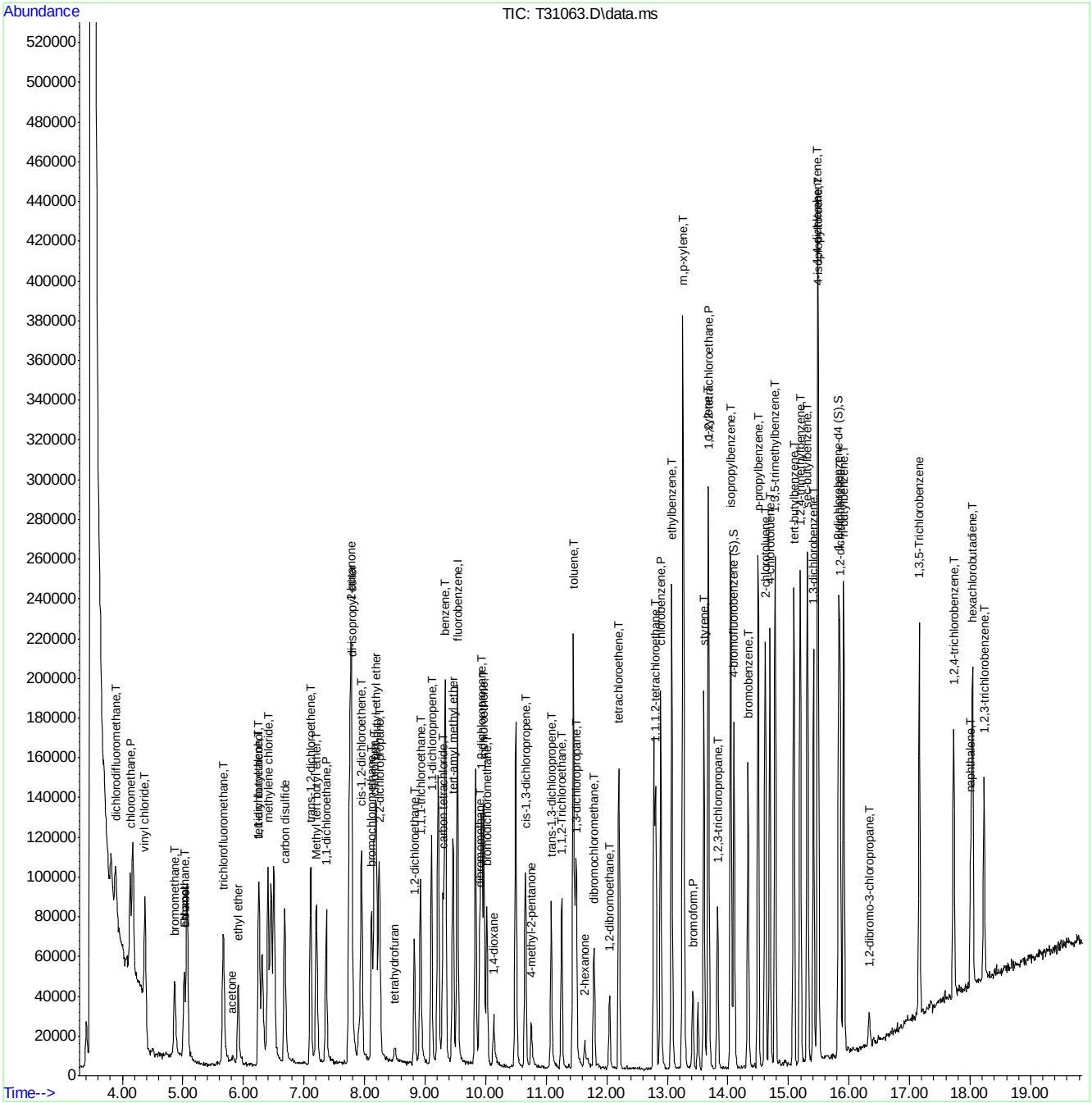
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.199	166	43275	5.26	ug/L	96
44) 1,3-dichloropropane	11.498	76	48104	5.17	ug/L	97
45) 2-hexanone	11.633	43	17374	4.73	ug/L	94
46) dibromochloromethane	11.788	129	32902	5.46	ug/L	99
47) 1,2-dibromoethane	12.044	107	26248	5.15	ug/L	90
48) chlorobenzene	12.886	112	109091	4.96	ug/L	99
49) 1,1,1,2-tetrachloroethane	12.805	131	36239	5.33	ug/L	96
50) ethylbenzene	13.068	91	184383	5.24	ug/L	98
51) m,p-xylene	13.263	106	139259	10.04	ug/L	98
52) o-xylene	13.674	106	68755	4.84	ug/L	93
53) styrene	13.600	104	97740	4.83	ug/L	91
54) bromoform	13.418	173	19169	5.64	ug/L	99
55) isopropylbenzene	14.045	105	174933	4.85	ug/L	99
56) bromobenzene	14.334	156	45775	5.20	ug/L	90
57) 1,1,2,2-tetrachloroethane	13.681	83	30330	5.17	ug/L	93
58) 1,2,3-trichloropropane	13.829	75	31570	5.18	ug/L	97
59) n-propylbenzene	14.496	91	206672	4.88	ug/L	99
60) 2-chlorotoluene	14.617	126	42785	4.73	ug/L	98
61) 4-chlorotoluene	14.691	91	136606	5.14	ug/L	97
62) 1,3,5-trimethylbenzene	14.779	105	149522	5.03	ug/L	97
63) tert-butylbenzene	15.089	119	118060	4.85	ug/L	96
64) 1,2,4-trimethylbenzene	15.197	105	145339	5.01	ug/L	98
65) sec-butylbenzene	15.311	105	183598	4.89	ug/L	99
66) 1,3-dichlorobenzene	15.412	146	86532	4.96	ug/L	100
67) 4-isopropyltoluene	15.486	119	145044	5.29	ug/L	97
68) 1,4-dichlorobenzene	15.480	146	87824	5.31	ug/L	97
69) 1,2-dichlorobenzene	15.850	146	76548	4.87	ug/L	97
71) n-butylbenzene	15.911	91	140214	5.17	ug/L	99
72) 1,2-dibromo-3-chloropr...	16.335	75	4645	5.57	ug/L	88
73) 1,3,5-Trichlorobenzene	17.164	180	64856	5.72	ug/L	99
74) 1,2,4-trichlorobenzene	17.729	180	46609	5.42	ug/L	99
75) hexachlorobutadiene	18.039	225	34653	5.87	ug/L	87
76) naphthalene	18.012	128	56378	5.16	ug/L	100
77) 1,2,3-trichlorobenzene	18.228	180	35866	5.57	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130815\
Data File : T31063.D
Acq On : 15 Aug 2013 11:46 am
Operator : jaimem
Sample : bs
Misc : MS29661,MST1082,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 12:18:38 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 24 13:51:42 2013
Response via : Initial Calibration



Accutest Laboratories of New England, Inc. **Instrument: GCMS T**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS9276	524 IS/SS	50ppm
MS9295/9285	cc/gas	↓
MS9287/9286	BS/gas	↓
MS9273	TTM	10ppm

Daily Saved File

Tune file 1:	T30576
Tune file 2:	
Initial Cal:	7/10/13
ID File:	T130710D.M
ICAL Verified:	T30589
Sequence verified:	jm

Date: 7/10/13

Batch ID: MST1065

Analysts jm

Signature: jm

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
T30576	BFB		NA	Curve	1	W	5mL	—	1:1	NA	✓✓ 8:57am
77	ic1065-0.5				2						✓✓
78	-1				3						✓✓
79	-2				4						✓✓
80	icc1065-5				5						✓✓
81	ic1065-10				6						✓✓
82	-20				7						✓✓
83	-40				8						✓✓
84	-80				9						✓✓
85	Blank				10						~~✓✓~~
86	Blank				11						~~✓✓~~
87	icv1065-5				12						✓✓
88	icv1065-5				13						
89	~~Blank~~ icv-20				14						✓✓ icv1065-20
90	~~MB Blank~~				15						~~icv1065-30~~
91	MB		↓		16					↓	✓✓
92	MC22482-1	2	MS29385	NITF	17					L2	✓✓
93	MC22402-4	1		STD+MIBE	18						
94	-3	1			19						
95	-3dup	3			20						
96	-2	2			21						
97	-1	3			22						
98	MC22406-2	1	MS29369	MS	23		50µl		100X		
99	-3	2			24		25µl		200X		
T30600	-4	2			25		25µl		200X		
01	-5	2			26		50µl		100X		
02	-6	2	↓	↓	27	↓	10µl	↓	500X	↓	8:52pm
	(10 Blanks)										

jm 7/11/13

MTX = Matrix: Designate W for water, S for soil, O for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-04 Date: 12/02/08

Review:_____

Accutest Laboratories of New England, Inc. **Instrument: GCMS T**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS9308	524 15/55	50ppm
MS9334/9335	cc/gas	↓
MS9336/9337	BS/gas	↓
MS9331	THM	10ppm

Daily Saved File

Tune file 1:	T31063
Tune file 2:	NA
Initial Cal:	7/10/13
ID File:	T130710D.M
ICAL Verified:	JM
Sequence verified:	KA

Date: 8/15/13

Batch ID: MST1082

Analysts JM

Signature: JM

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
T31061	Primer		MA	MA	1	W	5mL	—	1.1	NA	
62	CC1065-5				2						
63	BS				3						W 11:46am
64	BSD				4						W
65	THM				5						
66	MB				6						W
67	MC23413-2	1	MS29668	STDFRMTBE	7	~~MTB~~				<2	W
68	MC23507-4	1			8	DTB					W
69	-1	3			9	DW					W
70	-1dup	2			10						W
71	-2	2			11						W
72	-3	3			12						W
73	MC23444-5	10			13	GW					W
74	-7	6			14						W
75	-8	9			15						W
76	-9	8			16						W
77	-10	6			17						W
78	-11	6			18						W
79	-12	8			19						W
80	-13	6			20						W
81	MC23413-1	1			21						W
82	Blank				22	W					X
83	Blank				23						X
84	Blank				24						

JM 8/16/13

MTX = Matrix: Designate W for water, S for soil, O for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-04 Date: 12/02/08

Review:_____