



LABORATORY RESULTS FOR WORK ORDER 13H0286

FPL-043
Exhibit 3

FPL Central Laboratory
6001A Village Blvd.
West Palm Beach, FL 33407
Phone: 561-640-2055



PTN - FPL Turkey Point Nuclear Plant
9760 SW 344 Street
Homestead FL, 33035

State of Florida CompQAQ/QA Manual: 920041
NELAC Certification #: E56078

Reported:
08/26/2013 10:36

Case Narrative for MD-WASD South District WWTP

SAMPLE COLLECTION:

On 08/07/2013 at 08:45 AM, a flow-based compositor was set up at the Miami-Dade County South District Waste Water Treatment Plant. The compositor was set up at the east side collection point. The compositor is a HACH Sigma 900 MAX auto samplers. The auto sampler collected and placed into four separate 10 liter jugs 85 mL individual grab samples. Each grab sample was taken after a set amount of flow had past through the system. The composite jugs are kept within a refrigerated are of the auto sampler. The temperature through-out the entire composite period of 24 hours was maintained at less than 6 degrees Celsius.

On 08/08/2013 at 08:50 AM, the four 10 liter jugs from the east side collection point were composited in to one approximately forty liter sample that was labeled East Composite. A duplicate composite sample was also prepared at the same time.

At 09:07 AM, a grab sample was taken from the east side collection point for the Volatile Organic Compounds analysis by EPA Method 624. This sample was collected from a sampling point that did not need tubing and was labeled as East Grab. A separate grab sample was collected and tested in the field for pH, Temperature, Free Chlorine and Total Chlorine.

A duplicate grab sample was also collected at the same time.

At 09:15 AM, a grab sample was taken from the west side collection point for the Volatile Organic Compounds analysis by EPA Method 624. This sample was collected from a sampling point that did not need tubing and labeled as West Grab. A separate grab sample was collected and tested in the field for pH, Temperature, Free Chlorine and Total Chlorine.

Serial #: 08262013103644

FPL Central Lab

Tom Helton, QA Officer

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A trip blank was provided and analyzed for the Volatile Organic Compounds analysis by EPA 624.

SAMPLE LOGIN:

On 08/08/2013 at 16:00, the samples were received by representatives of PACE Analytical Services, Inc. at its Pompano Beach, Florida facility.

The sample containers were received in the EPA mandated bottle type and at a temperature of 3.7 Degrees C. No issues were noted and the sample was logged into the PACE Analytical Services, Inc. database under Work Order number 35103494.

After the completion of the analysis a report was issued to the Florida Power & Light Central Lab (FPL Central Lab). The report was then logged into the FPL Central Lab's database under Work Order Number 13H0286 for internal tracking purposes.

SUBCONTRACTED ANALYSIS:

The samples were subcontracted to PACE Analytical Services, Inc. The samples were analyzed by the following laboratories within the PACE Analytical Services, Inc. network. All PACE laboratories are certified by the State of Florida under it TNI certification program. The report contained within shows the TNI certification numbers for each laboratory. All data is reported and any data qualifier flags associated with the results are listed at the back of this report in the Notes and Definitions Section.

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Reported:
08/26/2013 10:36

Ormond Beach, FL.

EPA 608
EPA 624

Field Data as Received

Sample Name	pH	Temperature (Deg. C)	Conductivity	Total Chlorine	Free Chlorine
East Composite	6.90	-	-	0.75	0.11
Duplicate Composite	-	-	-	-	-
East Grab	6.81	28.69	-	1.79	1.13
Duplicate Grab	-	-	-	-	-
West Grab	6.82	28.57	-	1.72	1.09
Trip Blank	-	-	-	-	-

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Reported:
08/26/2013 10:36

East Composite

Sampled: 8/8/2013 8:50:00AM Received: 8/8/2013 2:40:00PM
Lab Sample #: 13H0286-01 Sample Matrix: Water Sample Type: Water

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC Semivolatiles

Heptachlor	U	0.0062	0.010	ug/L	1	138746	8/13/2013 7:30	JLG	8/14/2013 23:18	EPA 608
Surrogate: Decachlorobiphenyl (S)			23 %	61-121		138746	8/13/2013 7:30		8/14/2013 23:18	EPA 608
Surrogate: Tetrachloro-m-xylene (S)			60 %	53-110		138746	8/13/2013 7:30		8/14/2013 23:18	EPA 608

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NELAC Certification #: E56078

Reported:
08/26/2013 10:36

Duplicate Composite

Sampled: 8/8/2013 8:50:00AM Received: 8/8/2013 2:40:00PM
Lab Sample #: 13H0286-02 Sample Matrix: Water Sample Type: Water

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC Semivolatiles

Heptachlor	U	0.0062	0.010	ug/L	1	138746	8/13/2013 7:30	JLG	8/14/2013 22:59	EPA 608
Surrogate: Decachlorobiphenyl (S)			33 %	61-121		138746	8/13/2013 7:30		8/14/2013 19:23	EPA 608
Surrogate: Tetrachloro-m-xylene (S)			48 %	53-110		138746	8/13/2013 7:30		8/14/2013 19:23	EPA 608

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Reported:
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East Grab

Sampled: 8/8/2013 9:07:00AM Received: 8/8/2013 2:40:00PM
Lab Sample #: 13H0286-03 Sample Matrix: Water Sample Type: Water

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC/MS Volatiles

Ethylbenzene	U	0.50	1.0	ug/L	1	138299	8/11/2013 18:06	RGF	8/11/2013 18:06	EPA 624
Tetrachloroethene	U	0.50	1.0	ug/L	1	138299	8/11/2013 18:06	RGF	8/11/2013 18:06	EPA 624
Toluene	U	0.50	1.0	ug/L	1	138299	8/11/2013 18:06	RGF	8/11/2013 18:06	EPA 624
Surrogate: 1,2-Dichloroethane-d4 (S)			91 %	79-123	138299	8/11/2013 18:06	8/11/2013 18:06	EPA 624		
Surrogate: 4-Bromofluorobenzene (S)			95 %	71-111	138299	8/11/2013 18:06	8/11/2013 18:06	EPA 624		
Surrogate: Dibromofluoromethane (S)			95 %	88-113	138299	8/11/2013 18:06	8/11/2013 18:06	EPA 624		
Surrogate: Toluene-d8 (S)			93 %	77-116	138299	8/11/2013 18:06	8/11/2013 18:06	EPA 624		

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Reported:
08/26/2013 10:36

Duplicate Grab

Sampled: 8/8/2013 9:07:00AM Received: 8/8/2013 2:40:00PM
Lab Sample #: 13H0286-04 Sample Matrix: Water Sample Type: Water

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC/MS Volatiles

Ethylbenzene	U	0.50	1.0	ug/L	1	138299	8/11/2013 18:30	RGF	8/11/2013 18:30	EPA 624
Tetrachloroethene	U	0.50	1.0	ug/L	1	138299	8/11/2013 18:30	RGF	8/11/2013 18:30	EPA 624
Toluene	U	0.50	1.0	ug/L	1	138299	8/11/2013 18:30	RGF	8/11/2013 18:30	EPA 624
Surrogate: 1,2-Dichloroethane-d4 (S)			92 %	79-123		138299	8/11/2013 18:30		8/11/2013 18:30	EPA 624
Surrogate: 4-Bromofluorobenzene (S)			93 %	71-111		138299	8/11/2013 18:30		8/11/2013 18:30	EPA 624
Surrogate: Dibromofluoromethane (S)			97 %	88-113		138299	8/11/2013 18:30		8/11/2013 18:30	EPA 624
Surrogate: Toluene-d8 (S)			95 %	77-116		138299	8/11/2013 18:30		8/11/2013 18:30	EPA 624

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Reported:
08/26/2013 10:36

West Grab

Sampled: 8/8/2013 9:07:00AM Received: 8/8/2013 2:40:00PM
Lab Sample #: 13H0286-05 Sample Matrix: Water Sample Type: Water

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC/MS Volatiles

Ethylbenzene	U	0.50	1.0	ug/L	1	138299	8/11/2013 19:19	RGF	8/11/2013 19:19	EPA 624
Tetrachloroethene	U	0.50	1.0	ug/L	1	138299	8/11/2013 19:19	RGF	8/11/2013 19:19	EPA 624
Toluene	U	0.50	1.0	ug/L	1	138299	8/11/2013 19:19	RGF	8/11/2013 19:19	EPA 624
Surrogate: 1,2-Dichloroethane-d4 (S)			93 %	79-123	138299	8/11/2013 19:19	8/11/2013 19:19	EPA 624		
Surrogate: 4-Bromofluorobenzene (S)			95 %	71-111	138299	8/11/2013 19:19	8/11/2013 19:19	EPA 624		
Surrogate: Dibromofluoromethane (S)			97 %	88-113	138299	8/11/2013 19:19	8/11/2013 19:19	EPA 624		
Surrogate: Toluene-d8 (S)			94 %	77-116	138299	8/11/2013 19:19	8/11/2013 19:19	EPA 624		

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Reported:
08/26/2013 10:36

Trip Blank

Sampled: 8/8/2013 9:07:00AM Received: 8/8/2013 2:40:00PM
Lab Sample #: 13H0286-06 Sample Matrix: Water Sample Type: Water

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC/MS Volatiles

Ethylbenzene	U	0.50	1.0	ug/L	1	138299	8/11/2013 20:32	RGF	8/11/2013 20:32	EPA 624
Tetrachloroethene	U	0.50	1.0	ug/L	1	138299	8/11/2013 20:32	RGF	8/11/2013 20:32	EPA 624
Toluene	U	0.50	1.0	ug/L	1	138299	8/11/2013 20:32	RGF	8/11/2013 20:32	EPA 624
Surrogate: 1,2-Dichloroethane-d4 (S)			93 %	79-123		138299	8/11/2013 20:32		8/11/2013 20:32	EPA 624
Surrogate: 4-Bromofluorobenzene (S)			93 %	71-111		138299	8/11/2013 20:32		8/11/2013 20:32	EPA 624
Surrogate: Dibromofluoromethane (S)			96 %	88-113		138299	8/11/2013 20:32		8/11/2013 20:32	EPA 624
Surrogate: Toluene-d8 (S)			94 %	77-116		138299	8/11/2013 20:32		8/11/2013 20:32	EPA 624

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Reported:
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GC Semivolatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 138746 - EPA 608 SF											
BLANK (693699)	Source: 693699		Prepared: 08/13/2013 Analyzed: 08/14/2013								
Heptachlor	U		0.0060	0.010	ug/L				-		
Surrogate: Decachlorobiphenyl (S)	0.00038				ug/L	0.0005		75	61-121		
Surrogate: Tetrachloro-m-xylene (S)	0.00037				ug/L	0.0005		74	53-110		
LCS (693700)	Source: 693700		Prepared: 08/13/2013 Analyzed: 08/14/2013								
Heptachlor	0.38		0.0060	0.010	ug/L	0.5		76	34-111		
Surrogate: Decachlorobiphenyl (S)	0.00036				ug/L	0.0005		71	61-121		
Surrogate: Tetrachloro-m-xylene (S)	0.00032				ug/L	0.0005		64	53-110		
LCS (694208)	Source: 694208		Prepared: 08/13/2013 Analyzed: 08/14/2013								
Surrogate: Decachlorobiphenyl (S)	0.00036				ug/L	0.0005		73	61-121		
Surrogate: Tetrachloro-m-xylene (S)	0.00032				ug/L	0.0005		64	53-110		
MS (694209)	Source: 13H0286-01		Prepared: 08/13/2013 Analyzed: 08/14/2013								
Heptachlor	0.64		0.012	0.020	ug/L	1	.0029	64	34-111		
Surrogate: Decachlorobiphenyl (S)	0.00036	S7, P2,			ug/L	0.001		36	61-121		

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GC Semivolatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 138746 - EPA 608 SF											
MS (694209)	Source: 13H0286-01		Prepared: 08/13/2013 Analyzed: 08/14/2013								
Surrogate: Tetrachloro-m-xylene (S)	0.00069				ug/L	0.001		69	53-110		
MSD (694210)	Source: 13H0286-01		Prepared: 08/13/2013 Analyzed: 08/14/2013								
Heptachlor	0.65		0.012	0.020	ug/L	1	.0029	65	34-111	1	40
Surrogate: Decachlorobiphenyl (S)	0.00045	S7, P2,			ug/L	0.001		45	61-121		
Surrogate: Tetrachloro-m-xylene (S)	0.00064				ug/L	0.001		64	53-110		

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GC/MS Volatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 138299 - ***DEFAULT PREP***											
BLANK (693424)	Source: 693424		Prepared & Analyzed: 08/11/2013								
Ethylbenzene	U		0.50	1.0	ug/L				-		
Tetrachloroethene	U		0.50	1.0	ug/L				-		
Toluene	U		0.50	1.0	ug/L				-		
Surrogate: 1,2-Dichloroethane-d4 (S)	38.1				ug/L	40		95	79-123		
Surrogate: 4-Bromofluorobenzene (S)	37.1				ug/L	40		93	71-111		
Surrogate: Dibromofluoromethane (S)	38.2				ug/L	40		95	88-113		
Surrogate: Toluene-d8 (S)	38				ug/L	40		95	77-116		
LCS (693425)	Source: 693425		Prepared & Analyzed: 08/11/2013								
Ethylbenzene	19.5		0.50	1.0	ug/L	20		98	37-162		
Tetrachloroethene	19.4		0.50	1.0	ug/L	20		97	64-148		
Toluene	19.8		0.50	1.0	ug/L	20		99	47-150		
Surrogate: 1,2-Dichloroethane-d4 (S)	33.4				ug/L	40		84	79-123		
Surrogate: 4-Bromofluorobenzene (S)	39.2				ug/L	40		98	71-111		
Surrogate: Dibromofluoromethane (S)	36.6				ug/L	40		91	88-113		
Surrogate: Toluene-d8 (S)	37				ug/L	40		93	77-116		

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GC/MS Volatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 138299 - ***DEFAULT PREP***											
LCS (693425)	Source: 693425		Prepared & Analyzed: 08/11/2013								
MS (693426)	Source: 13H0286-03		Prepared & Analyzed: 08/12/2013								
Ethylbenzene	20.6		0.50	1.0	ug/L	20	0.50U	103	37-162		
Tetrachloroethene	20.6		0.50	1.0	ug/L	20	0.50U	103	64-148		
Toluene	21.0		0.50	1.0	ug/L	20	0.50U	105	47-150		
Surrogate: 1,2-Dichloroethane-d4 (S)	34.6				ug/L	40		87	79-123		
Surrogate: 4-Bromofluorobenzene (S)	38.2				ug/L	40		96	71-111		
Surrogate: Dibromofluoromethane (S)	38				ug/L	40		95	88-113		
Surrogate: Toluene-d8 (S)	37				ug/L	40		93	77-116		
DUP (693427)	Source: 13H0286-04		Prepared & Analyzed: 08/11/2013								
Ethylbenzene	U		0.50	1.0	ug/L		0.50U	-			40
Tetrachloroethene	U		0.50	1.0	ug/L		0.50U	-			40
Toluene	U		0.50	1.0	ug/L		.193	-			40
Surrogate: 1,2-Dichloroethane-d4 (S)	36.7				ug/L	40		92	79-123		
Surrogate: 4-Bromofluorobenzene (S)	37.1				ug/L	40		93	71-111		

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6001A Village Blvd.
West Palm Beach, FL 33407
Phone: 561-640-2055



PTN - FPL Turkey Point Nuclear Plant
9760 SW 344 Street
Homestead FL, 33035
Attn: Marister Ruiz

State of Florida CompQAQ/QA Manual: 920041
NELAC Certification #: E56078

Reported:
08/26/2013 10:36

GC/MS Volatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 138299 - ***DEFAULT PREP***											
DUP (693427)	Source: 13H0286-04		Prepared & Analyzed: 08/11/2013								
Surrogate: Dibromofluoromethane (S)	38.1				ug/L	40		95	88-113		
Surrogate: Toluene-d8 (S)	37.3				ug/L	40		93	77-116		
MS (694452)	Source: 13H0286-05		Prepared & Analyzed: 08/13/2013								
Ethylbenzene	19.6		0.50	1.0	ug/L	20	0.50U	98	37-162		
Tetrachloroethene	16.9		0.50	1.0	ug/L	20	0.50U	84	64-148		
Toluene	19.8		0.50	1.0	ug/L	20	.44	97	47-150		
Surrogate: 1,2-Dichloroethane-d4 (S)	41				ug/L	40		102	79-123		
Surrogate: 4-Bromofluorobenzene (S)	37				ug/L	40		93	71-111		
Surrogate: Dibromofluoromethane (S)	40.9				ug/L	40		102	88-113		
Surrogate: Toluene-d8 (S)	38.6				ug/L	40		97	77-116		
MSD (694453)	Source: 13H0286-05		Prepared & Analyzed: 08/13/2013								
Ethylbenzene	18.2		0.50	1.0	ug/L	20	0.50U	91	37-162	7	40
Tetrachloroethene	15.7		0.50	1.0	ug/L	20	0.50U	79	64-148	7	40
Toluene	18.4		0.50	1.0	ug/L	20	.44	90	47-150	8	40

Serial #: 08262013103644

FPL Central Lab

Tom Helton, QA Officer

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All analyses were performed using EPA methods and certified to meet NELAC requirements.



LABORATORY RESULTS FOR WORK ORDER 13H0286

FPL Central Laboratory
6001A Village Blvd.
West Palm Beach, FL 33407
Phone: 561-640-2055



PTN - FPL Turkey Point Nuclear Plant
9760 SW 344 Street
Homestead FL, 33035
Attn: Marister Ruiz

State of Florida CompQAQ/QA Manual: 920041
NELAC Certification #: E56078

Reported:
08/26/2013 10:36

GC/MS Volatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	------------	-----	-----	-------	-------------	---------------	------	-------------	-----	-----------

Batch 138299 - ***DEFAULT PREP***

MSD (694453)	Source: 13H0286-05	Prepared & Analyzed: 08/13/2013
Surrogate: 1,2-Dichloroethane-d4 (S)	41.2	ug/L 40 103 79-123
Surrogate: 4-Bromofluorobenzene (S)	38.1	ug/L 40 95 71-111
Surrogate: Dibromofluoromethane (S)	40.4	ug/L 40 101 88-113
Surrogate: Toluene-d8 (S)	39.4	ug/L 40 98 77-116

Serial #: 08262013103644

FPL Central Lab

Tom Helton, QA Officer

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LABORATORY RESULTS FOR WORK ORDER 13H0286

FPL Central Laboratory
6001A Village Blvd.
West Palm Beach, FL 33407
Phone: 561-640-2055



PTN - FPL Turkey Point Nuclear Plant
9760 SW 344 Street
Homestead FL, 33035

State of Florida CompQA/QA Manual: 920041
NELAC Certification #: E56078

Reported:
08/26/2013 10:36

Attn: Marister Ruiz

Notes and Definitions

- S7 Surrogate recovery outside control limits (not confirmed by re-analysis due to insufficient sample amount).
- P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.
- J(S1) Estimated Value. Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
- +
- I Not NELAC Certified
- I Analyte detected between the Laboratory MDL and PQL
- U Analyte analyzed for but Not Detected at or above the MDL
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- V Analyte detected in the sample and the associated preparation blank

Serial #: 08262013103644

FPL Central Lab

Tom Helton, QA Officer

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All analyses were performed using EPA methods and certified to meet NELAC requirements.

Data Package

Pace Project# 35103494

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August 20, 2013

Phoebe Brown
FPL - Central Lab
6001-A Village Blvd
West Palm Beach, FL 33407

RE: Project: Miami Dade
Pace Project No.: 35103494

Dear Phoebe Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Terrence Anderson

terrence.anderson@pacelabs.com
Project Manager

Enclosures

cc: Tom Helton, FPL - Central Lab
Daniel Pustelnik, FPL - Central Lab



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Miami Dade
Pace Project No.: 35103494

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Miami Dade

Pace Project No.: 35103494

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35103494001	EAST COMPOSITE	Water	08/08/13 08:50	08/08/13 14:40
35103494002	EAST COMP DUPLICATE	Water	08/08/13 08:50	08/08/13 14:40
35103494003	EAST GRAB	Water	08/08/13 09:57	08/08/13 14:40
35103494004	EAST GRAB DUPLICATE	Water	08/08/13 09:07	08/08/13 14:40
35103494005	WEST GRAB	Water	08/08/13 09:13	08/08/13 14:40
35103494006	TRIP BLANK	Water	08/08/13 08:00	08/08/13 14:40

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SAMPLE ANALYTE COUNT

Project: Miami Dade

Pace Project No.: 35103494

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35103494001	EAST COMPOSITE	EPA 608	JLG	3	PASI-O
35103494002	EAST COMP DUPLICATE	EPA 608	JLG	3	PASI-O
35103494003	EAST GRAB	EPA 624	RGF	7	PASI-O
35103494004	EAST GRAB DUPLICATE	EPA 624	RGF	7	PASI-O
35103494005	WEST GRAB	EPA 624	RGF	7	PASI-O
35103494006	TRIP BLANK	EPA 624	RGF	42	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Sample: EAST COMPOSITE Lab ID: 35103494001 Collected: 08/08/13 08:50 Received: 08/08/13 14:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.90	Std. Units			1		08/08/13 08:50		
Field Temperature	4.90	deg C			1		08/08/13 08:50		
Chlorine, Total Residual	0.75	mg/L			1		08/08/13 08:50	7782-50-5	
Chlorine, Free	0.11	mg/L			1		08/08/13 08:50	7782-50-5	
608SF GCS Pesticides and PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
Heptachlor	0.0062U	ug/L	0.010	0.0062	1	08/13/13 07:30	08/14/13 23:18	76-44-8	
Surrogates									
Tetrachloro-m-xylene (S)	60	%	53-110		1	08/13/13 07:30	08/14/13 23:18	877-09-8	
Decachlorobiphenyl (S)	23	%	61-121		1	08/13/13 07:30	08/14/13 23:18	2051-24-3	P2,S7

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ANALYTICAL RESULTS

Project: Miami Dade

Pace Project No.: 35103494

Sample: EAST COMP DUPLICATE **Lab ID: 35103494002** Collected: 08/08/13 08:50 Received: 08/08/13 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
608SF GCS Pesticides and PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
Heptachlor	0.0062U	ug/L	0.010	0.0062	1	08/13/13 07:30	08/14/13 22:59	76-44-8	
Surrogates									
Tetrachloro-m-xylene (S)	48	%	53-110		1	08/13/13 07:30	08/14/13 19:23	877-09-8	J(S1), P2
Decachlorobiphenyl (S)	33	%	61-121		1	08/13/13 07:30	08/14/13 19:23	2051-24-3	J(S1), P2

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ANALYTICAL RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Sample: EAST GRAB Lab ID: 35103494003 Collected: 08/08/13 09:57 Received: 08/08/13 14:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.81	Std. Units			1		08/08/13 09:57		
Field Temperature	28.69	deg C			1		08/08/13 09:57		
Chlorine, Total Residual	1.79	mg/L			1		08/08/13 09:57	7782-50-5	
Chlorine, Free	1.13	mg/L			1		08/08/13 09:57	7782-50-5	
624 Volatile Organics Analytical Method: EPA 624									
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:06	100-41-4	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:06	127-18-4	
Toluene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:06	108-88-3	
Surrogates									
Dibromofluoromethane (S)	95 %		88-113		1		08/11/13 18:06	1868-53-7	
4-Bromofluorobenzene (S)	95 %		71-111		1		08/11/13 18:06	460-00-4	
Toluene-d8 (S)	93 %		77-116		1		08/11/13 18:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		79-123		1		08/11/13 18:06	17060-07-0	

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ANALYTICAL RESULTS

Project: Miami Dade

Pace Project No.: 35103494

Sample: EAST GRAB DUPLICATE **Lab ID: 35103494004** Collected: 08/08/13 09:07 Received: 08/08/13 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624							
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:30	100-41-4	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:30	127-18-4	
Toluene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:30	108-88-3	
Surrogates									
Dibromofluoromethane (S)	97	%	88-113		1		08/11/13 18:30	1868-53-7	
4-Bromofluorobenzene (S)	93	%	71-111		1		08/11/13 18:30	460-00-4	
Toluene-d8 (S)	95	%	77-116		1		08/11/13 18:30	2037-26-5	
1,2-Dichloroethane-d4 (S)	92	%	79-123		1		08/11/13 18:30	17060-07-0	

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ANALYTICAL RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Sample: WEST GRAB		Lab ID: 35103494005		Collected: 08/08/13 09:13		Received: 08/08/13 14:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.82	Std. Units			1		08/08/13 09:13		
Field Temperature	28.57	deg C			1		08/08/13 09:13		
Chlorine, Total Residual	1.72	mg/L			1		08/08/13 09:13	7782-50-5	
Chlorine, Free	1.09	mg/L			1		08/08/13 09:13	7782-50-5	
624 Volatile Organics									
Analytical Method: EPA 624									
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 19:19	100-41-4	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 19:19	127-18-4	
Toluene	0.50U	ug/L	1.0	0.50	1		08/11/13 19:19	108-88-3	
Surrogates									
Dibromofluoromethane (S)	97 %		88-113		1		08/11/13 19:19	1868-53-7	
4-Bromofluorobenzene (S)	95 %		71-111		1		08/11/13 19:19	460-00-4	
Toluene-d8 (S)	94 %		77-116		1		08/11/13 19:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		79-123		1		08/11/13 19:19	17060-07-0	

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ANALYTICAL RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Sample: TRIP BLANK **Lab ID: 35103494006** Collected: 08/08/13 08:00 Received: 08/08/13 14:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624							
Acrolein	10.0U	ug/L	20.0	10.0	1		08/11/13 20:32	107-02-8	
Acrylonitrile	5.0U	ug/L	10.0	5.0	1		08/11/13 20:32	107-13-1	
Benzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	71-43-2	
Bromodichloromethane	0.30U	ug/L	0.60	0.30	1		08/11/13 20:32	75-27-4	
Bromoform	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	75-25-2	
Bromomethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	74-83-9	
Carbon tetrachloride	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	56-23-5	
Chlorobenzene	0.40U	ug/L	1.0	0.40	1		08/11/13 20:32	108-90-7	
Chloroethane	0.61U	ug/L	1.0	0.61	1		08/11/13 20:32	75-00-3	
2-Chloroethylvinyl ether	5.0U	ug/L	10.0	5.0	1		08/11/13 20:32	110-75-8	
Chloroform	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	67-66-3	
Chloromethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	74-87-3	
Dibromochloromethane	0.25U	ug/L	0.50	0.25	1		08/11/13 20:32	124-48-1	
1,2-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	95-50-1	
1,3-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	541-73-1	
1,4-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	106-46-7	
1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	75-34-3	
1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	107-06-2	
1,2-Dichloroethene (Total)	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	540-59-0	
1,1-Dichloroethene	0.71U	ug/L	1.0	0.71	1		08/11/13 20:32	75-35-4	
cis-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	156-59-2	
trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	156-60-5	
1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	78-87-5	
cis-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		08/11/13 20:32	10061-01-5	
trans-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		08/11/13 20:32	10061-02-6	
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	100-41-4	
Methylene Chloride	2.5U	ug/L	5.0	2.5	1		08/11/13 20:32	75-09-2	
1,1,2,2-Tetrachloroethane	0.17U	ug/L	0.50	0.17	1		08/11/13 20:32	79-34-5	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	127-18-4	
Toluene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	108-88-3	
1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	71-55-6	
1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	79-00-5	
Trichloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	79-01-6	
Trichlorofluoromethane	0.66U	ug/L	1.0	0.66	1		08/11/13 20:32	75-69-4	
Vinyl chloride	0.53U	ug/L	1.0	0.53	1		08/11/13 20:32	75-01-4	
Xylene (Total)	1.0U	ug/L	3.0	1.0	1		08/11/13 20:32	1330-20-7	
m&p-Xylene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	179601-23-1	
o-Xylene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	95-47-6	
Surrogates									
Dibromofluoromethane (S)	96 %		88-113		1		08/11/13 20:32	1868-53-7	
4-Bromofluorobenzene (S)	93 %		71-111		1		08/11/13 20:32	460-00-4	
Toluene-d8 (S)	94 %		77-116		1		08/11/13 20:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		79-123		1		08/11/13 20:32	17060-07-0	

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QUALITY CONTROL DATA

Project: Miami Dade
Pace Project No.: 35103494

QC Batch: MSV/9341 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 35103494003, 35103494004, 35103494005, 35103494006

METHOD BLANK: 693424 Matrix: Water
Associated Lab Samples: 35103494003, 35103494004, 35103494005, 35103494006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50U	1.0	08/11/13 17:12	
1,1,2,2-Tetrachloroethane	ug/L	0.17U	0.50	08/11/13 17:12	
1,1,2-Trichloroethane	ug/L	0.50U	1.0	08/11/13 17:12	
1,1-Dichloroethane	ug/L	0.50U	1.0	08/11/13 17:12	
1,1-Dichloroethene	ug/L	0.71U	1.0	08/11/13 17:12	
1,2-Dichlorobenzene	ug/L	0.50U	1.0	08/11/13 17:12	
1,2-Dichloroethane	ug/L	0.50U	1.0	08/11/13 17:12	
1,2-Dichloroethene (Total)	ug/L	0.50U	1.0	08/11/13 17:12	
1,2-Dichloropropane	ug/L	0.50U	1.0	08/11/13 17:12	
1,3-Dichlorobenzene	ug/L	0.50U	1.0	08/11/13 17:12	
1,4-Dichlorobenzene	ug/L	0.50U	1.0	08/11/13 17:12	
2-Chloroethylvinyl ether	ug/L	5.0U	10.0	08/11/13 17:12	
Acrolein	ug/L	10.0U	20.0	08/11/13 17:12	
Acrylonitrile	ug/L	5.0U	10.0	08/11/13 17:12	
Benzene	ug/L	0.50U	1.0	08/11/13 17:12	
Bromodichloromethane	ug/L	0.30U	0.60	08/11/13 17:12	
Bromoform	ug/L	0.50U	1.0	08/11/13 17:12	
Bromomethane	ug/L	0.50U	1.0	08/11/13 17:12	
Carbon tetrachloride	ug/L	0.50U	1.0	08/11/13 17:12	
Chlorobenzene	ug/L	0.40U	1.0	08/11/13 17:12	
Chloroethane	ug/L	0.61U	1.0	08/11/13 17:12	
Chloroform	ug/L	0.50U	1.0	08/11/13 17:12	
Chloromethane	ug/L	0.50U	1.0	08/11/13 17:12	
cis-1,2-Dichloroethene	ug/L	0.50U	1.0	08/11/13 17:12	
cis-1,3-Dichloropropene	ug/L	0.25U	0.50	08/11/13 17:12	
Dibromochloromethane	ug/L	0.25U	0.50	08/11/13 17:12	
Ethylbenzene	ug/L	0.50U	1.0	08/11/13 17:12	
m&p-Xylene	ug/L	0.50U	1.0	08/11/13 17:12	
Methylene Chloride	ug/L	2.5U	5.0	08/11/13 17:12	
o-Xylene	ug/L	0.50U	1.0	08/11/13 17:12	
Tetrachloroethene	ug/L	0.50U	1.0	08/11/13 17:12	
Toluene	ug/L	0.50U	1.0	08/11/13 17:12	
trans-1,2-Dichloroethene	ug/L	0.50U	1.0	08/11/13 17:12	
trans-1,3-Dichloropropene	ug/L	0.25U	0.50	08/11/13 17:12	
Trichloroethene	ug/L	0.50U	1.0	08/11/13 17:12	
Trichlorofluoromethane	ug/L	0.66U	1.0	08/11/13 17:12	
Vinyl chloride	ug/L	0.53U	1.0	08/11/13 17:12	
Xylene (Total)	ug/L	1.0U	3.0	08/11/13 17:12	
1,2-Dichloroethane-d4 (S)	%	95	79-123	08/11/13 17:12	
4-Bromofluorobenzene (S)	%	93	71-111	08/11/13 17:12	
Dibromofluoromethane (S)	%	95	88-113	08/11/13 17:12	
Toluene-d8 (S)	%	95	77-116	08/11/13 17:12	

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QUALITY CONTROL DATA

Project: Miami Dade
Pace Project No.: 35103494

LABORATORY CONTROL SAMPLE: 693425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.7	94	52-162	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	14-157	
1,1,2-Trichloroethane	ug/L	20	20.2	101	52-150	
1,1-Dichloroethane	ug/L	20	16.9	84	59-155	
1,1-Dichloroethene	ug/L	20	19.5	97	10-234	
1,2-Dichlorobenzene	ug/L	20	18.4	92	18-190	
1,2-Dichloroethane	ug/L	20	17.8	89	49-155	
1,2-Dichloroethene (Total)	ug/L	40	37.4	94	54-156	
1,2-Dichloropropane	ug/L	20	18.6	93	10-210	
1,3-Dichlorobenzene	ug/L	20	18.4	92	59-156	
1,4-Dichlorobenzene	ug/L	20	18.4	92	18-190	
2-Chloroethylvinyl ether	ug/L	20	21.6	108	10-305	
Acrolein	ug/L	200	67.4	34	14-183	
Acrylonitrile	ug/L	200	135	68	60-146	
Benzene	ug/L	20	18.5	93	37-151	
Bromodichloromethane	ug/L	20	18.3	91	35-155	
Bromoform	ug/L	20	20.2	101	45-169	
Bromomethane	ug/L	20	17.6	88	10-242	
Carbon tetrachloride	ug/L	20	18.9	95	70-140	
Chlorobenzene	ug/L	20	19.7	99	37-160	
Chloroethane	ug/L	20	16.7	84	10-230	
Chloroform	ug/L	20	18.1	91	51-138	
Chloromethane	ug/L	20	8.4	42	10-273	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	76-128	
cis-1,3-Dichloropropene	ug/L	20	16.0	80	10-227	
Dibromochloromethane	ug/L	20	19.3	96	35-155	
Ethylbenzene	ug/L	20	19.5	98	37-162	
m&p-Xylene	ug/L	40	40.7	102	70-130	
Methylene Chloride	ug/L	20	20.6	103	10-221	
o-Xylene	ug/L	20	19.0	95	70-130	
Tetrachloroethene	ug/L	20	19.4	97	64-148	
Toluene	ug/L	20	19.8	99	47-150	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	54-156	
trans-1,3-Dichloropropene	ug/L	20	18.3	92	17-183	
Trichloroethene	ug/L	20	17.6	88	71-157	
Trichlorofluoromethane	ug/L	20	18.6	93	17-181	
Vinyl chloride	ug/L	20	17.7	88	10-251	
Xylene (Total)	ug/L	60	59.6	99	70-130	
1,2-Dichloroethane-d4 (S)	%			84	79-123	
4-Bromofluorobenzene (S)	%			98	71-111	
Dibromofluoromethane (S)	%			91	88-113	
Toluene-d8 (S)	%			93	77-116	

MATRIX SPIKE SAMPLE: 693426

Parameter	Units	35103494003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50U	20	21.3	106	52-162	

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QUALITY CONTROL DATA

Project: Miami Dade
Pace Project No.: 35103494

MATRIX SPIKE SAMPLE:		693426					
Parameter	Units	35103494003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	0.17U	20	17.9	90	14-157	
1,1,2-Trichloroethane	ug/L	0.50U	20	20.1	100	52-150	
1,1-Dichloroethane	ug/L	0.50U	20	18.7	94	59-155	
1,1-Dichloroethene	ug/L	0.71U	20	22.0	110	10-234	
1,2-Dichlorobenzene	ug/L	0.50U	20	18.5	92	18-190	
1,2-Dichloroethane	ug/L	0.50U	20	17.8	89	49-155	
1,2-Dichloroethene (Total)	ug/L	0.50U	40	39.8	100	54-156	
1,2-Dichloropropane	ug/L	0.50U	20	19.5	98	10-210	
1,3-Dichlorobenzene	ug/L	0.50U	20	18.6	93	59-156	
1,4-Dichlorobenzene	ug/L	0.93 I	20	19.0	90	18-190	
2-Chloroethylvinyl ether	ug/L	5.0U	20	5.0U	0	10-305	J(M1)
Acrolein	ug/L	10.0U	200	13.3 I	7	14-183	J(M1)
Acrylonitrile	ug/L	5.0U	200	139	69	60-146	
Benzene	ug/L	0.50U	20	19.9	99	37-151	
Bromodichloromethane	ug/L	0.30U	20	19.9	100	35-155	
Bromoform	ug/L	0.50U	20	19.7	98	45-169	
Bromomethane	ug/L	0.50U	20	22.8	114	10-242	
Carbon tetrachloride	ug/L	0.50U	20	21.7	108	70-140	
Chlorobenzene	ug/L	0.40U	20	20.5	103	37-160	
Chloroethane	ug/L	0.61U	20	14.3	71	10-230	
Chloroform	ug/L	3.4	20	23.3	100	51-138	
Chloromethane	ug/L	0.50U	20	157	785	10-273	J(M1)
cis-1,2-Dichloroethene	ug/L	0.50U	20	19.8	99	76-128	
cis-1,3-Dichloropropene	ug/L	0.25U	20	15.9	79	10-227	
Dibromochloromethane	ug/L	0.25U	20	20.0	100	35-155	
Ethylbenzene	ug/L	0.50U	20	20.6	103	37-162	
m&p-Xylene	ug/L	0.50U	40	42.5	106	70-130	
Methylene Chloride	ug/L	2.5U	20	20.1	100	10-221	
o-Xylene	ug/L	0.50U	20	19.5	97	70-130	
Tetrachloroethene	ug/L	0.50U	20	20.6	103	64-148	
Toluene	ug/L	0.50U	20	21.0	105	47-150	
trans-1,2-Dichloroethene	ug/L	0.50U	20	20.0	100	54-156	
trans-1,3-Dichloropropene	ug/L	0.25U	20	18.8	94	17-183	
Trichloroethene	ug/L	0.50U	20	19.4	97	71-157	
Trichlorofluoromethane	ug/L	0.66U	20	20.1	101	17-181	
Vinyl chloride	ug/L	0.53U	20	21.4	107	10-251	
Xylene (Total)	ug/L	1.0U	60	61.9	103	70-130	
1,2-Dichloroethane-d4 (S)	%					87	79-123
4-Bromofluorobenzene (S)	%					96	71-111
Dibromofluoromethane (S)	%					95	88-113
Toluene-d8 (S)	%					93	77-116

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
694452					694453							
Parameter	Units	35103494005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L				20.3	19.6				3	40	

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QUALITY CONTROL DATA

Project: Miami Dade
Pace Project No.: 35103494

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694452 694453											
Parameter	Units	35103494005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
1,1,2,2-Tetrachloroethane	ug/L				19.6	19.3				1	40
1,1,2-Trichloroethane	ug/L				19.4	18.1				7	40
1,1-Dichloroethane	ug/L				18.0	16.6				8	40
1,1-Dichloroethene	ug/L				17.8	15.8				12	40
1,2-Dichlorobenzene	ug/L				20.1	19.1				5	40
1,2-Dichloroethane	ug/L				19.6	17.6				11	40
1,2-Dichloroethene (Total)	ug/L				36.4	32.5				11	40
1,2-Dichloropropane	ug/L				19.2	18.0				6	40
1,3-Dichlorobenzene	ug/L				19.8	18.4				7	40
1,4-Dichlorobenzene	ug/L				20.9	19.3				8	40
2-Chloroethylvinyl ether	ug/L				5.0U	5.0U					40
Acrolein	ug/L				15.5	10.0U					40
Acrylonitrile	ug/L				160	155				3	40
Benzene	ug/L				18.9	17.6				7	40
Bromodichloromethane	ug/L				21.2	19.7				7	40
Bromoform	ug/L				19.1	18.3				4	40
Bromomethane	ug/L				23.9	22.8				4	40
Carbon tetrachloride	ug/L				22.2	20.2				9	40
Chlorobenzene	ug/L				19.4	18.0				8	40
Chloroethane	ug/L				0.61U	0.61U					40
Chloroform	ug/L				22.1	20.1				10	40
Chloromethane	ug/L				228	216				5	40
cis-1,2-Dichloroethene	ug/L				17.7	15.2				15	40
cis-1,3-Dichloropropene	ug/L				15.3	12.6				20	40
Dibromochloromethane	ug/L				19.1	17.8				7	40
Ethylbenzene	ug/L	0.50U	20	20	19.6	18.2	98	91	37-162	7	40
m&p-Xylene	ug/L				39.5	37.1				6	40
Methylene Chloride	ug/L				18.6	17.3				7	40
o-Xylene	ug/L				19.1	18.1				5	40
Tetrachloroethene	ug/L	0.50U	20	20	16.9	15.7	84	79	64-148	7	40
Toluene	ug/L	0.50U	20	20	19.8	18.4	97	90	47-150	8	40
trans-1,2-Dichloroethene	ug/L				18.7	17.3				8	40
trans-1,3-Dichloropropene	ug/L				15.3	12.1				24	40
Trichloroethene	ug/L				19.7	18.9				4	40
Trichlorofluoromethane	ug/L				24.8	24.2				2	40
Vinyl chloride	ug/L				21.2	20.3				4	40
Xylene (Total)	ug/L				58.6	55.2				6	40
1,2-Dichloroethane-d4 (S)	%						102	103	79-123		
4-Bromofluorobenzene (S)	%						93	95	71-111		
Dibromofluoromethane (S)	%						102	101	88-113		
Toluene-d8 (S)	%						97	98	77-116		

SAMPLE DUPLICATE: 693427

Parameter	Units	35103494004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	0.50U	0.50U		40	

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QUALITY CONTROL DATA

Project: Miami Dade
Pace Project No.: 35103494

SAMPLE DUPLICATE: 693427

Parameter	Units	35103494004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	0.17U	0.17U		40	
1,1,2-Trichloroethane	ug/L	0.50U	0.50U		40	
1,1-Dichloroethane	ug/L	0.50U	0.50U		40	
1,1-Dichloroethene	ug/L	0.71U	0.71U		40	
1,2-Dichlorobenzene	ug/L	0.50U	0.50U		40	
1,2-Dichloroethane	ug/L	0.50U	0.50U		40	
1,2-Dichloroethene (Total)	ug/L	0.50U	0.50U		40	
1,2-Dichloropropane	ug/L	0.50U	0.50U		40	
1,3-Dichlorobenzene	ug/L	0.50U	0.50U		40	
1,4-Dichlorobenzene	ug/L	0.92 I	0.99 I		40	
2-Chloroethylvinyl ether	ug/L	5.0U	5.0U		40	
Acrolein	ug/L	10.0U	10.0U		40	
Acrylonitrile	ug/L	5.0U	5.0U		40	
Benzene	ug/L	0.50U	0.50U		40	
Bromodichloromethane	ug/L	0.30U	0.30U		40	
Bromoform	ug/L	0.50U	0.50U		40	
Bromomethane	ug/L	0.50U	0.50U		40	
Carbon tetrachloride	ug/L	0.50U	0.50U		40	
Chlorobenzene	ug/L	0.40U	0.40U		40	
Chloroethane	ug/L	0.61U	0.61U		40	
Chloroform	ug/L	3.3	3.4	1	40	
Chloromethane	ug/L	0.50U	0.50U		40	
cis-1,2-Dichloroethene	ug/L	0.50U	0.50U		40	
cis-1,3-Dichloropropene	ug/L	0.25U	0.25U		40	
Dibromochloromethane	ug/L	0.25U	0.25U		40	
Ethylbenzene	ug/L	0.50U	0.50U		40	
m&p-Xylene	ug/L	0.50U	0.50U		40	
Methylene Chloride	ug/L	2.5U	2.5U		40	
o-Xylene	ug/L	0.50U	0.50U		40	
Tetrachloroethene	ug/L	0.50U	0.50U		40	
Toluene	ug/L	0.50U	0.50U		40	
trans-1,2-Dichloroethene	ug/L	0.50U	0.50U		40	
trans-1,3-Dichloropropene	ug/L	0.25U	0.25U		40	
Trichloroethene	ug/L	0.50U	0.50U		40	
Trichlorofluoromethane	ug/L	0.66U	0.66U		40	
Vinyl chloride	ug/L	0.53U	0.53U		40	
Xylene (Total)	ug/L	1.0U	1.0U		40	
1,2-Dichloroethane-d4 (S)	%	92	92	.6		
4-Bromofluorobenzene (S)	%	93	93	.4		
Dibromofluoromethane (S)	%	97	95	2		
Toluene-d8 (S)	%	95	93	2		

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QUALITY CONTROL DATA

Project: Miami Dade

Pace Project No.: 35103494

QC Batch: OEXT/13826

Analysis Method: EPA 608

QC Batch Method: EPA 608 SF

Analysis Description: 608 GCS Pest PCB

Associated Lab Samples: 35103494001, 35103494002

METHOD BLANK: 693699

Matrix: Water

Associated Lab Samples: 35103494001, 35103494002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Heptachlor	ug/L	0.0060U	0.010	08/14/13 18:54	
Decachlorobiphenyl (S)	%	75	61-121	08/14/13 18:54	
Tetrachloro-m-xylene (S)	%	74	53-110	08/14/13 18:54	

LABORATORY CONTROL SAMPLE: 693700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Heptachlor	ug/L	.5	0.38	76	34-111	
Decachlorobiphenyl (S)	%			71	61-121	
Tetrachloro-m-xylene (S)	%			64	53-110	

LABORATORY CONTROL SAMPLE: 694208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Decachlorobiphenyl (S)	%			73	61-121	
Tetrachloro-m-xylene (S)	%			64	53-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694209

694210

Parameter	Units	35103494001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Heptachlor	ug/L	0.0062 U	1	1	0.64	0.65	64	65	34-111	1	40
Decachlorobiphenyl (S)	%						36	45	61-121		P2,S7
Tetrachloro-m-xylene (S)	%						69	64	53-110		

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QUALIFIERS

Project: Miami Dade
Pace Project No.: 35103494

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PRL - Pace Reporting Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(S1) Estimated Value. Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.
S7 Surrogate recovery outside control limits (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Miami Dade

Pace Project No.: 35103494

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35103494001	EAST COMPOSITE		FLD/		
35103494003	EAST GRAB		FLD/		
35103494005	WEST GRAB		FLD/		
35103494001	EAST COMPOSITE	EPA 608 SF	OEXT/13826	EPA 608	GCSV/9243
35103494002	EAST COMP DUPLICATE	EPA 608 SF	OEXT/13826	EPA 608	GCSV/9243
35103494003	EAST GRAB	EPA 624	MSV/9341		
35103494004	EAST GRAB DUPLICATE	EPA 624	MSV/9341		
35103494005	WEST GRAB	EPA 624	MSV/9341		
35103494006	TRIP BLANK	EPA 624	MSV/9341		

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WO#: 35103494



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LA

35103494

Company Name: FPL		PO#																			
Address: 700 Universe Blvd		Zip: 33408																			
City: JUNO BEACH		State: FL																			
Attn: MARISER RUIZ		Fax#																			
Email:		Phone:																			
Project Name: MIAMI-DADE COUNTY SOUTH DISTRICT WASTEWATER TREATMENT PLANT		Monthly N/A																			
Sampler Signature: [Signature]		Weekly Annual																			
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field #	Field Date	Field Time	Field Location	Field Notes	Field Operator	Field Supervisor	Field Assistant	Field Technician	Field Engineer	Field Scientist	Field Analyst	Field Manager	Field Director	Field Executive	Field President	
1	East composite	8/8/13	8:50	WW	2																
2	Duplicate	8/8/13	8:50	WW	2																
3	East Grab	8/8/13	9:07	WW	2																
4	Duplicate	8/8/13	9:07	WW	2																
5	West Grab	8/8/13	9:15	WW	2																
6	trip blank	8/8/13		DI	2																
7																					
8																					
9																					
10																					
LAB ANALYSIS		Sample		TRC		pH		Pres Codes		Parameters		Sample		TRC		pH		Pres Codes		Parameters	
		608		NA		NA		NA		608		NA		NA		NA		NA		608	
		608		NA		NA		NA		608		NA		NA		NA		NA		608	
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		608		NA		NA		NA		608		NA		NA		NA		NA		608	
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		608		NA		NA		NA		608		NA		NA		NA		NA		608	
		608		NA		NA		NA		60											

Composite Sample Report

Facility Sample Collected at: MIAMI DADE COUNTY
SOUTH DISTRICT WASTEWATER TREATMENT PLANT

Sampling Point Location: EAST EFFLUENT

Method of Sampling:

Time-Based Composite:

Flow-Based Composite: X

SAMPLE TYPE

Automatic Sampling Machine (Type and Model) HACH SIGMA 900 MAX/3543R

Individual Discrete Grab Samples (# of samples)

Other 85 ML / SAMPLE (each jug was about 1/2 full)
THERMOMETER S/N 25086

SAMPLE DATES and TIMES

Date and Time of First Collection 8/7/13 08:45

Date and Time of Last Collection 8/8/13 08:45

MISCELLANEOUS INFORMATION:

Type of Tubing used: 3/8 VINYL

Temperature of autosampler at start of collection: 3°

Temperature of autosampler after 8 hours of collection: 20

Temperature of autosampler at end of collection: 4.5

Jug liners were inserted into the sample jugs prior to sampling.

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	September 23, 2011
	Document No.: F-FL-C-007 rev. 04	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: EPL Project # 35103494

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used 1708 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temperature 3.8 (Visual) 0.1 (Correction Factor) 3.7 (Actual)

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen?

☐ Yes ☒ No

Receipt of samples satisfactory: ☒ Yes ☐ No

Rush TAT requested on COC: _____

If yes, then all conditions below were met:

If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐
	No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Extra sample for QC

Project Manager Review: [Signature]

Date: 8/8/13

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Size & Qty of Bottles Received

☐ x 5 Gal
☐ x 2.5 Gal
☐ x 1 Gal
☐ x 1 Liter
☐ x 500 mL
☐ x 250 mL
☐ x Other: _____

Extra Sample in Shed: Yes ☐ No ☐

EPA 608

ANALYTICAL RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Matrix: Water
% Moisture:
Acode: 608SF GCS Pesticides and PCBs
Prep/Method: EPA 608 SF / EPA 608

Sample: EAST COMPOSITE
Lab ID: 35103494001
Collected: 08/08/13 08:50
Received: 08/08/13 14:40

CAS No.	Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Qual
76-44-8	Heptachlor	0.0062U	ug/L	0.010	0.0062	1	08/13/13 07:30	08/14/13 23:18	
Surrogates									
877-09-8	Tetrachloro-m-xylene (S)	60	%	53-110		1	08/13/13 07:30	08/14/13 23:18	
2051-24-3	Decachlorobiphenyl (S)	23	%	61-121		1	08/13/13 07:30	08/14/13 23:18	P2,S7

REPORT OF LABORATORY ANALYSIS

Date: 08/21/2013 01:07 PM

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ANALYTICAL RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Matrix: Water
% Moisture:
Acode: 608SF GCS Pesticides and PCBs
Prep/Method: EPA 608 SF / EPA 608

Sample: EAST COMP DUPLICATE
Lab ID: 35103494002
Collected: 08/08/13 08:50
Received: 08/08/13 14:40

CAS No.	Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Qual
76-44-8	Heptachlor	0.0062U	ug/L	0.010	0.0062	1	08/13/13 07:30	08/14/13 22:59	
Surrogates									
877-09-8	Tetrachloro-m-xylene (S)	48	%	53-110		1	08/13/13 07:30	08/14/13 19:23	J(S1),P2
2051-24-3	Decachlorobiphenyl (S)	33	%	61-121		1	08/13/13 07:30	08/14/13 19:23	J(S1),P2

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Date: 08/21/2013 01:07 PM

METHOD BLANK RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Prepared: 08/13/13

QB Batch: OEXT/13826
Method(s): EPA 608 SF / EPA 608
Associated Lab Samples: 35103494001, 35103494002

CAS No.	Parameters	Results	Units	Reporting Limit	MDL	Analyzed	Qual
76-44-8	Heptachlor	0.0060U	ug/L	0.010	0.0060	08/14/13	

Type	Sample	Matrix
BLANK	693699	Water

REPORT OF LABORATORY ANALYSIS

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SURROGATE RECOVERY SUMMARY

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: OEXT / 13826
Method(s): EPA 608 SF / EPA 608

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec Qual	Sur2 % Rec Qual	Sur3 % Rec Qual	Sur4 % Rec Qual	Sur5 % Rec Qual	Sur6 % Rec Qual
35103494001	OQS	EAST COMPOSITE	1	23 P2, S7	60				
35103494001	OQS	EAST COMPOSITE	1	75	74				
693699	BLANK		1						
35103494002	OQS	EAST COMP DUPLICATE	1	33 J(S1), P2	48 J(S1), P2				
693700	LCS		1	71	64				
694208	LCS		1	73	64				
694209	MS		1	36 P2, S7	69				
694209	MS		1						
694210	MSD		1	45 P2, S7					
694210	MSD		1		64				
				QC Limits:	61-121	53-110			
				Sample Limits:	61-121	53-110			
Sur 1: Decachlorobiphenyl (S)									
Sur 2: Tetrachloro-m-xylene (S)									

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REPORT OF LABORATORY ANALYSIS

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Date: 08/21/2013 01:07 PM

LAB CONTROL SAMPLE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: OEXT/13826
Method(s): EPA 608 SF / EPA 608

LCS Prepared: 08/13/13
LCSD Prepared:

Analyte	LCS		LCSD		QC Limits		Spike Conc	LCS		LCSD		LCS		LCSD		LCS Qual
	% Rec	RPD	% Rec	RPD	% Rec	Conc		Conc	Analyzed	Qual	Analyzed	Qual				
Heptachlor	76		34-111		0.5	0.38			08/14/13							

Type	Sample
LCS	693700
LCS	694208

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MATRIX SPIKE SAMPLE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: OEXT/13826
Method(s): EPA 608 SF / EPA 608

MS Prepared: 08/13/13
MSD Prepared: 08/13/13

Analyte	Units	Sample Conc	Spike Conc		Result		Dilution		% Recovery		QC Limits		Max RPD		Analyzed Date		Qualifier(s)	
			MS	MSD	MS	MSD	MS	MSD	MS	MSD	%Recovery		RPD		MS	MSD	MS	MSD
Heptachlor	ug/L	0.0062U	1	1	0.64	0.65	1	1	64	65	34-111		1	40	08/14/13	08/14/13		
Type	Sample	Client Sample ID																
MS	694209	EAST COMPOSITE																
MSD	694210	EAST COMPOSITE																

REPORT OF LABORATORY ANALYSIS

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EPA 608

Calibration and Sample Data



ICAL Processing and Peer Review Documentation

Instrument:

35GCSJ

Data set:

08/14/13

8081/608/6630C

Initials and date required for Primary Analyst and Secondary Reviewer

Primary

Secondary

Initial Calibration:

All Peaks properly identified with matching spectra and RTs assigned.

Best curve fit applied in the order of Average Response Factor, Linear and Quadratic.
(A Quadratic fit requires 6 points and is NOT acceptable for SC projects.)

Curve meets method criteria for proper documentation has been applied to all samples.

Integrations have been peer reviewed for acceptability, and before and after has been printed.
RF's pass specific method criteria

AN ICV has been evaluated and meets SOP requirements. This means the second
source LCS after the curve must pass control limits for all compounds.

All Outliers are documented below and are referenced with data review checklist each day of use.

Initial Calibration Report params Min and Max Amts. edited if low or high points dropped from ICAL

Initial Calibration Summary Report and ICV has been printed

Initial Calibration Locked by Reviewer

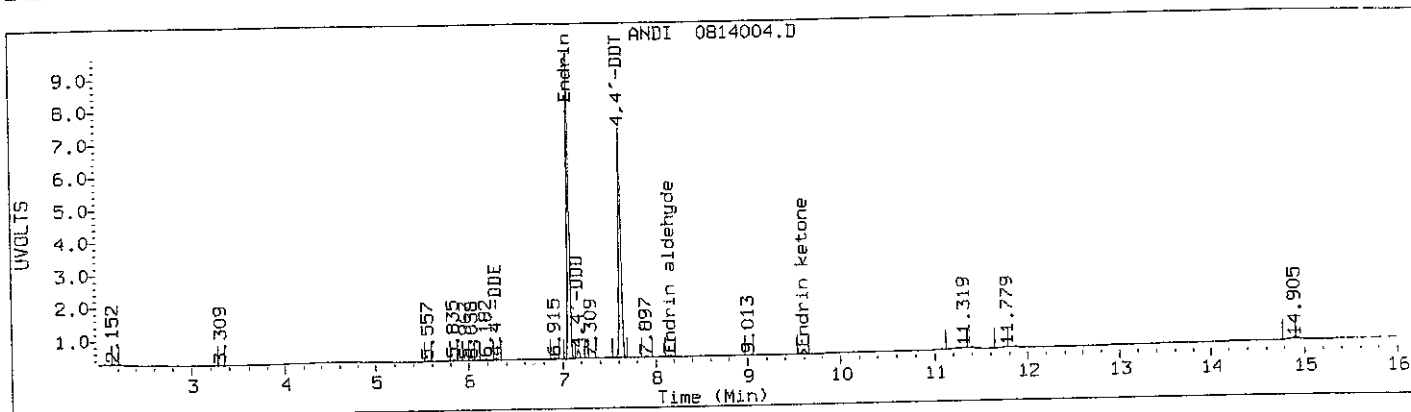
Not locked

8/21/13

Additional Notes or Conditions:

Chlordane/Toxaphene/Appendix II CCVs for pattern recognition only.

Data File : \\35Wintarget\chem\35gcsj.i\130814.b\0814004.D
Sample ID :
Sample Type: PC
Inj Date : 14-AUG-2013 13:14
Dil Factor : 1.000



DDT Summary

DDT Area = 128351885
DDD Area = 4725296
DDE Area = 686139

DDT Breakdown = Sum of DDE and DDD areas divided by sum of DDE, DDD,
and DDT areas

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 4.05 Percent

DDT Breakdown PASSES

Endrin Summary

Endrin Area = 152739240
Endrin Aldehyde Area = 1062272
Endrin Ketone Area = 3027506

Endrin Breakdown = Sum of Endrin aldehyde and Endrin ketone areas
divided by sum of Endrin, Endrin aldehyde, and Endrin ketone areas

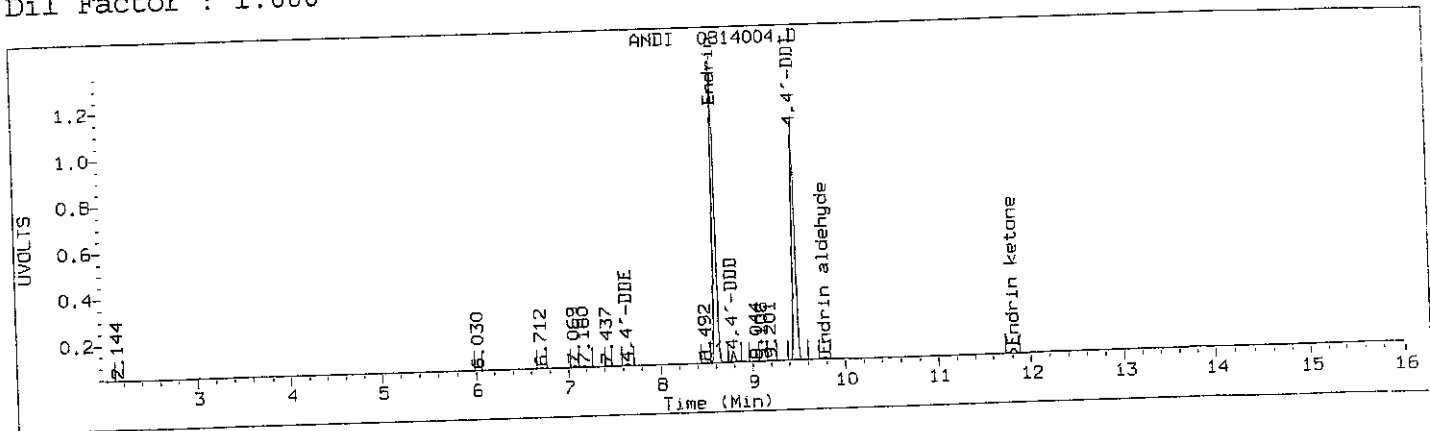
Endrin Breakdown Maximum = 15 Percent

Endrin Breakdown = 2.61 Percent

Endrin Breakdown PASSES

62W
OPM 113

DDI and DIME III documents...



DDT Summary

```
DDT Area = 233446788
DDD Area = 10141879
DDE Area = 1332406
```

DDT Breakdown = Sum of DDE and DDD areas divided by sum of DDE, DDD,
and DDT areas

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 4.68 Percent

DDT Breakdown PASSES

Endrin Summary

Endrin Area =	284635643
Endrin Aldehyde Area =	2251092
Endrin Ketone Area =	5639085

Endrin Breakdown = Sum of Endrin aldehyde and Endrin ketone areas
divided by sum of Endrin, Endrin aldehyde, and Endrin ketone areas

Endrin Breakdown Maximum = 15 Percent

Endrin Breakdown = 2.70 Percent

Endrin Breakdown PASSES

(LW
087413

Pace Analytical Services, Inc

Column #1 : \\35Wintarget\chem\35gcsj.i\130814.b\0814015.d
Column #2 : \\35Wintarget\chem\35gcsj.i\130814.b\0814015.d\0814015.d
Inj Date : 14-AUG-2013 16:42
Sample Info: ICB
Misc Info :
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : TWB
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130814.b\0814015.d
Method #2 : \\35Wintarget\chem\35gcsj.i\130814.b\0814015.d\0814015.d
Sub List #1 : PestM1.sub.sub
Sub List #2 : PestM1.sub.sub
Col #1 Phase: RUC-CPesticide 1
Col #2 Phase: RUC-CPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Resp1	Resp2	On-Col Concl	On-Col Conc2	Final Concl	Final Conc2	RptCol	Ratio
4,4'-DDE	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endosulfan sulfate	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Methoxychlor	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endrin aldehyde	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Beta-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Delta-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Heptachlor	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Aldrin	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Heptachlor Epoxide	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A

081413

Gamma-chlordane	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Alpha-chlordane	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endrin ketone	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endosulfan I	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Diieldrin	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endrin	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
4,4'-DDD	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endosulfan II	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
4,4'-DDT	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Alpha-BHC	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Gamma-BHC	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Mirex	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Tetrachloro-m-xylene	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Decachlorobiphenyl	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Data File

Injection Date

Client ID

Lab ID

Column Phase

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14-AUG-2013 16:42

ICB

ICB

Rtx-CPesticide 1

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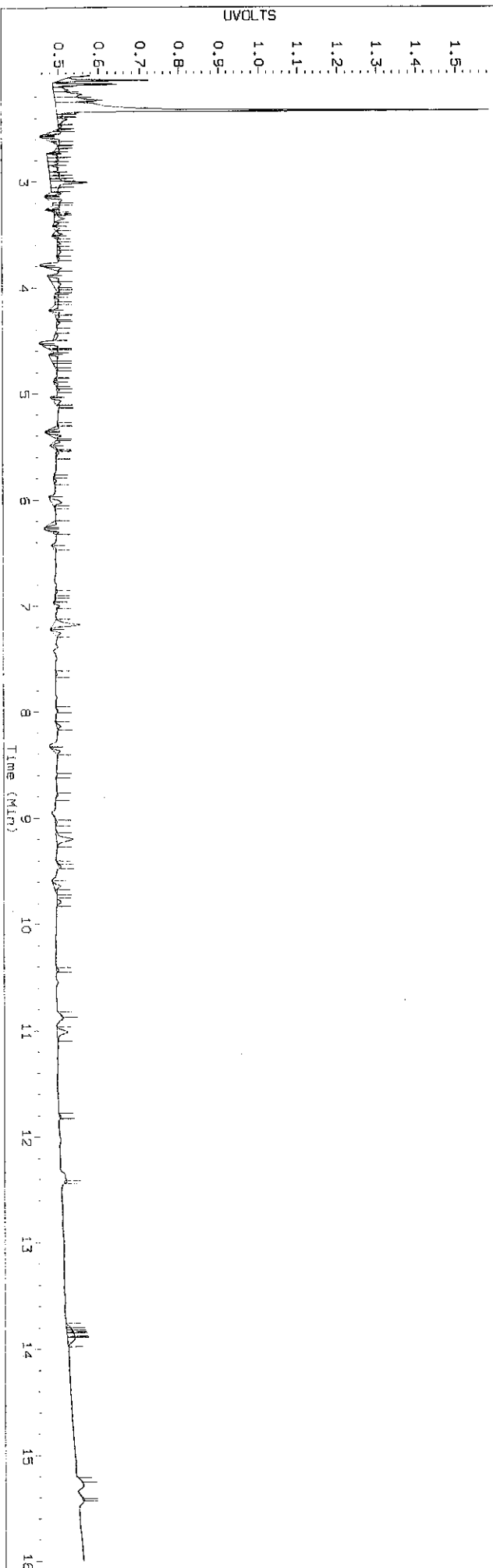
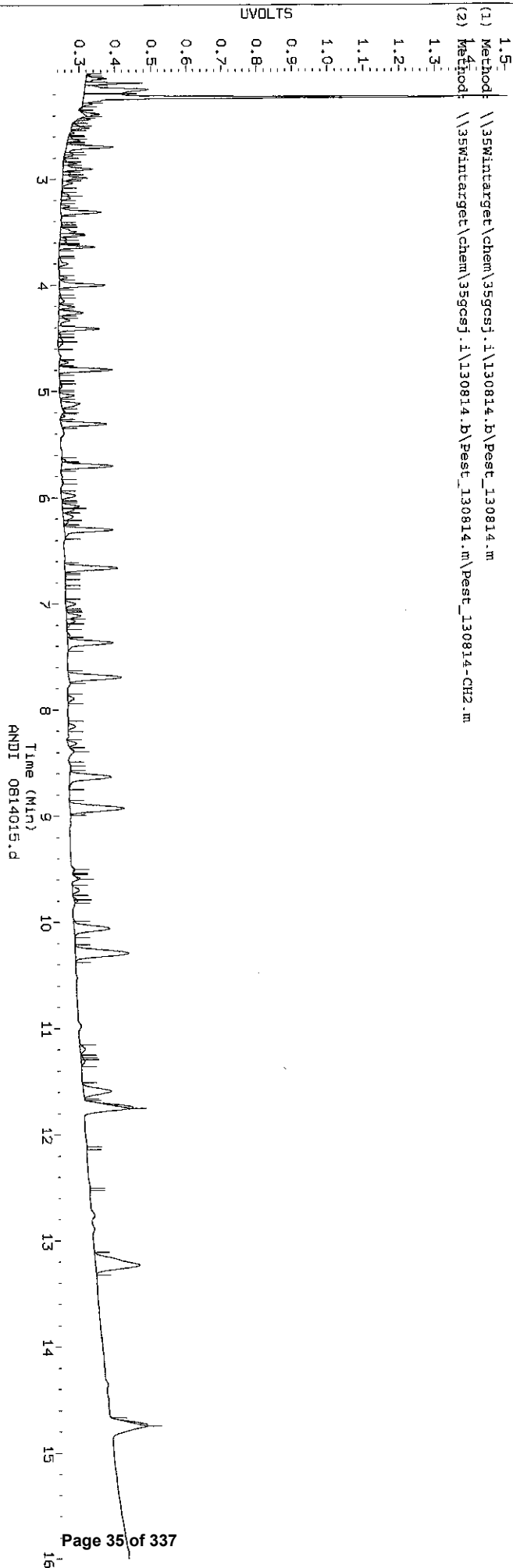
ANDI 0814015.d

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Rtx-CPesticide 1

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Pace Analytical Services, Inc

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Sample Info: ICB
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Comment :
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Inst ID : 35gcsj.i
Dil Factor : 1.000000

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Col #1 Phase: Rtx-CPesticide 1
Col #2 Phase: Rtx-CPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Resp1	Resp2	On-Col Concl	On-Col Conc2	Final Concl	Final Conc2	RptCol	Ratio
4,4'-DDE	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endosulfan sulfate	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Methoxychlor	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endrin aldehyde	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Beta-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Delta-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Heptachlor	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Aldrin	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Heptachlor Epoxide	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A

081413

Gamma-chlordane	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Alpha-chlordane	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endrin ketone	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endosulfan I	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Dieldrin	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endrin	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
4,4'-DDD	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endosulfan II	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
4,4'-DDT	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Alpha-BHC	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Gamma-BHC	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Mirex	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Tetrachloro-m-xylene	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Decachlorobiphenyl	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

08/16/2013 12:52

Data File

Injection Date

Client ID

Lab ID

Column Phase

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ICB

ICB

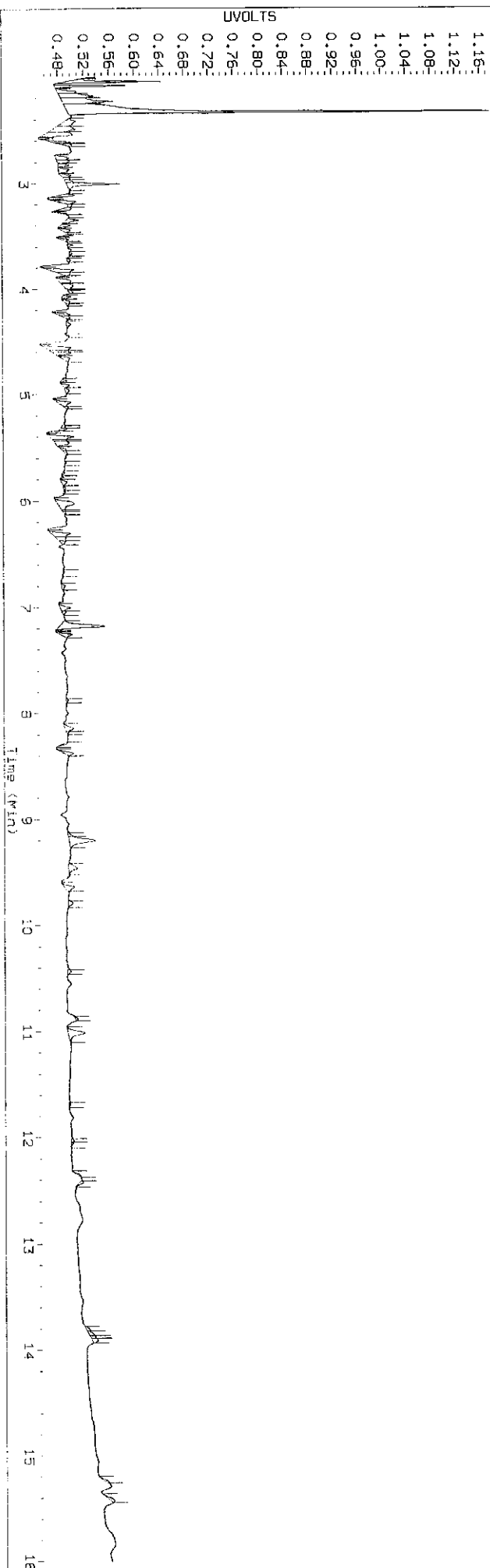
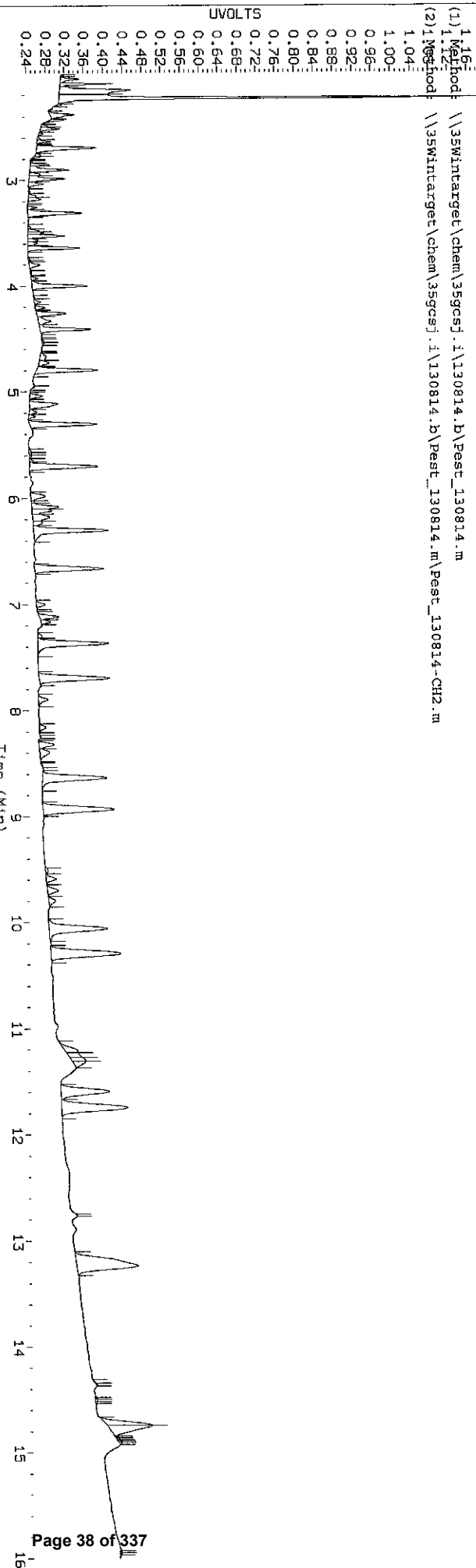
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ANDI 0814016.D

ICB

Rtx-CLPesticide 1



Pace Analytical Services, Inc

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st #2 : PestM1.sub.sub
Phase: Rcx-CPesticide 1
Phase: Rcx-CPesticide 1

ix designated (hence no formula could be determined)

ine compound hit by indicated determination and CAN be in either column

ound	RT1	RT2	Resp1	Resp2	On-Col Concl	On-Col Conc2	Final Concl	Final Conc2	RptCol	Ratio
-DDE	6.297	7.650	78590788	153163170	0.10834	0.10389	0.10834	0.10389	Col 2	4.19
sulfan sulfate	9.010	10.432	59703684	118624195	0.10111	0.09759	0.10111	0.09759	Col 2	3.54
oxychlor	8.539	11.163	34646348	61871415	0.10232	0.09897	0.10232	0.09897	Col 2	3.32
in aldehyde	8.154	9.786	51740436	100190269	0.09126	0.09184	0.09126	0.09184	Col 2	0.63
-BHC	4.275	5.052	35862787	79730166	0.09713	0.09451	0.09713	0.09451	Col 2	2.73
a-BHC	4.476	5.457	88994349	195876011	0.11282	0.10391	0.11282	0.10391	Col 2	8.22
achlor	4.724	5.560	96520157	195302675	0.10786	0.10116	0.10786	0.10116	Col 2	6.41
in	5.085	6.027	94349577	189411189	0.10914	0.10000	0.10914	0.1	Col 2	8.74
achlor Epoxide	5.852	6.866	86682509	167533336	0.10482	0.09795	0.10482	0.09795	Col 2	6.77

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n	6.019	7.152	91439397	180156004	0.10631	0.09435	0.10631	0.09435	Col 2	11.9
n	6.199	7.391	88250348	168833031	0.09387	0.09793	0.09387	0.09793	Col 2	4.23
n	9.595	11.810	76280222	135851306	0.10085	0.09826	0.10085	0.09826	Col 2	2.60
n	6.393	7.504	72740004	141386406	0.10444	0.09855	0.10444	0.09855	Col 2	5.80
n	6.732	7.998	83734547	164951194	0.10870	0.10177	0.1087	0.10177	Col 2	6.58
n	7.072	8.607	80268999	153179073	0.10810	0.10183	0.1081	0.10183	Col 2	5.97
n	7.165	8.786	67036546	132813644	0.10858	0.10079	0.10858	0.10079	Col 2	7.44
n	7.419	9.040	69892451	137803505	0.10227	0.09716	0.10227	0.09716	Col 2	5.12
n	7.623	9.472	67285324	124632308	0.11366	0.10668	0.11366	0.10668	Col 2	6.33
n	3.864	4.517	103349579	220660799	0.11275	0.10511	0.11275	0.10511	Col 2	7.01
n	4.190	4.965	93856995	201955498	0.11052	0.10263	0.11052	0.10263	Col 2	7.40
n	8.788	11.685	54232701	93659729	0.09357	0.09061	0.09357	0.09061	Col 2	3.21
n	3.324	3.814	55344736	125675380	0.09691	0.09672	0.09691	0.09672	Col 2	0.19
n	12.118	15.379	71901995	95344583	0.09282	0.09264	0.09282	0.09264	Col 2	0.19

Legend
Link Interference
Low Limit of Quantitation
Above Max amount

08/15/2013 08:42

Data File

Injection Date

Client ID

Lab ID

Column Phase

14-AUG-2013 13:33

PEST Cal 6.010

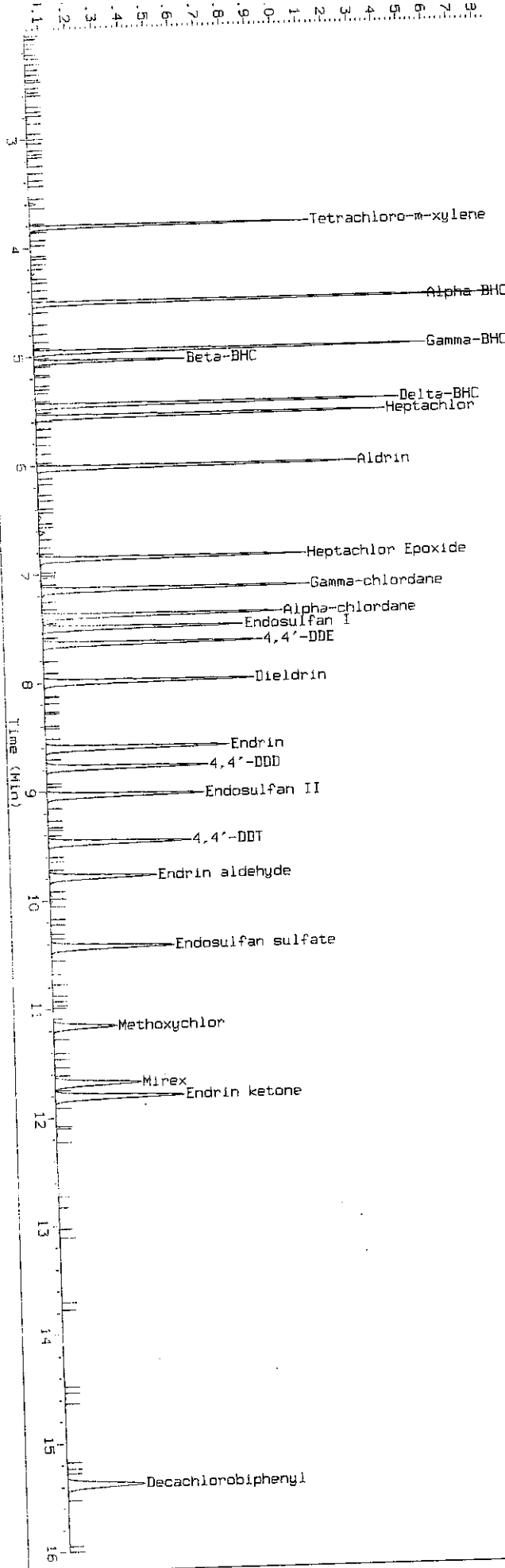
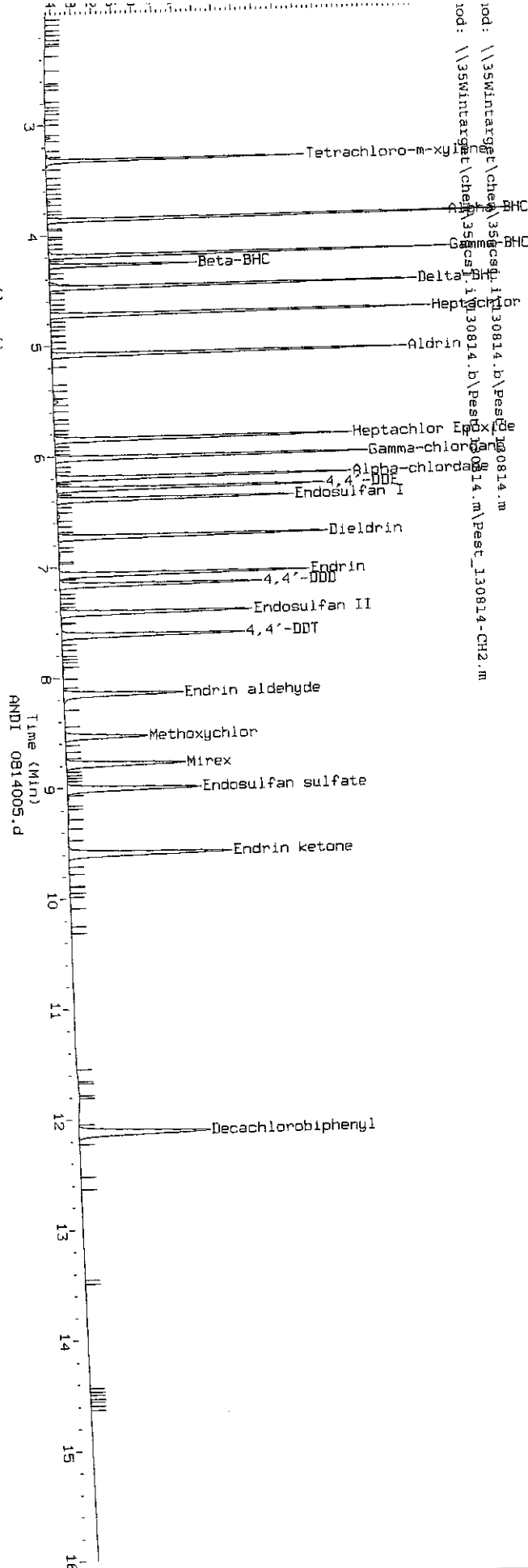
Rtx-CPesticide 1

ANDI 0814005.d

PEST Cal 6.010 Rtx-CPesticide 1

FPL-043-059

Page 59 of 355



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Pace Analytical Services, Inc.

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Phase: Rtx-CPesticide 1
Phase: Rtx-CPesticide 1
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rix designated (hence no formula could be determined)

nine compound hit by indicated determination and CAN be in either column

Compound	RT1		RT2		Respi1		Respi2		On-Col		On-Col		Final		Final		RptCol	Ratio
	RT1	RT2	Respi1	Respi2	Conc1	Conc2	Conc1	Conc2	Conc1	Conc2	Conc1	Conc2						
ound																		
-DDE	6.296	7.649	54055075	107551871	0.07451	0.07295	0.07451	0.07295	Col 2	2.11								
sulfate	9.010	10.430	41024480	83125503	0.06947	0.06839	0.06947	0.06839	Col 2	1.56								
oxychlor	8.537	11.162	23790266	43217020	0.07026	0.06913	0.07026	0.06913	Col 2	1.62								
in aldehyde	8.152	9.786	36600537	72050261	0.06456	0.06604	0.06456	0.06604	Col 2	2.26								
α-BHC	4.275	5.052	25175665	57010097	0.06818	0.06757	0.06818	0.06757	Col 2	0.89								
α-BHC	4.475	5.457	60878928	137561205	0.07718	0.07297	0.07718	0.07297	Col 2	5.60								
achlor	4.724	5.560	66884482	138632224	0.07474	0.07181	0.07474	0.07181	Col 2	3.99								
rin	5.085	6.027	65201463	135263043	0.07542	0.07141	0.07542	0.07141	Col 2	5.46								
achlor Epoxide	5.852	6.865	60404166	119815901	0.07304	0.07005	0.07304	0.07005	Col 2	4.17								

08/15/13

hlorordane	6.018	7.151	63492787	128799839	0.07382	0.06745	0.07382	0.06745	Col 2	9.01
hlorordane	6.199	7.390	61664232	120567880	0.06559	0.06994	0.06559	0.06994	Col 2	6.41
ketone	9.595	11.810	53024804	95171506	0.07010	0.06884	0.0701	0.06884	Col 2	1.81
fan I	6.392	7.503	50594312	100945446	0.07264	0.07036	0.07264	0.07036	Col 2	3.18
fan I	6.731	7.997	57728803	116498973	0.07494	0.07188	0.07494	0.07188	Col 2	4.16
fan I	7.070	8.606	55084882	107605356	0.07418	0.07153	0.07418	0.07153	Col 2	3.63
fan I	7.165	8.785	46041799	93948098	0.07458	0.07130	0.07458	0.0713	Col 2	4.49
fan I	7.418	9.040	48431144	97432486	0.07086	0.06869	0.07086	0.06869	Col 2	3.10
fan I	7.622	9.471	45230645	85097198	0.07641	0.07284	0.07641	0.07284	Col 2	4.78
fan I	3.863	4.517	71460650	155545800	0.07796	0.07409	0.07796	0.07409	Col 2	5.09
fan I	4.190	4.965	64959680	142296961	0.07649	0.07231	0.07649	0.07231	Col 2	5.61
BHC	8.788	11.693	38356899	67473441	0.06518	0.06528	0.06618	0.06528	Col 2	1.36
hloro-m-xylene	3.324	3.814	38975972	89558860	0.06825	0.06893	0.06825	0.06893	Col 2	0.99
hlorobiphenyl	12.119	15.380	50225440	67114916	0.06483	0.06521	0.06483	0.06521	Col 2	0.58

Legend
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 Low Limit of Quantitation
 Above Max amount

08/15/2013 08:42

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Lab ID

Column Phase

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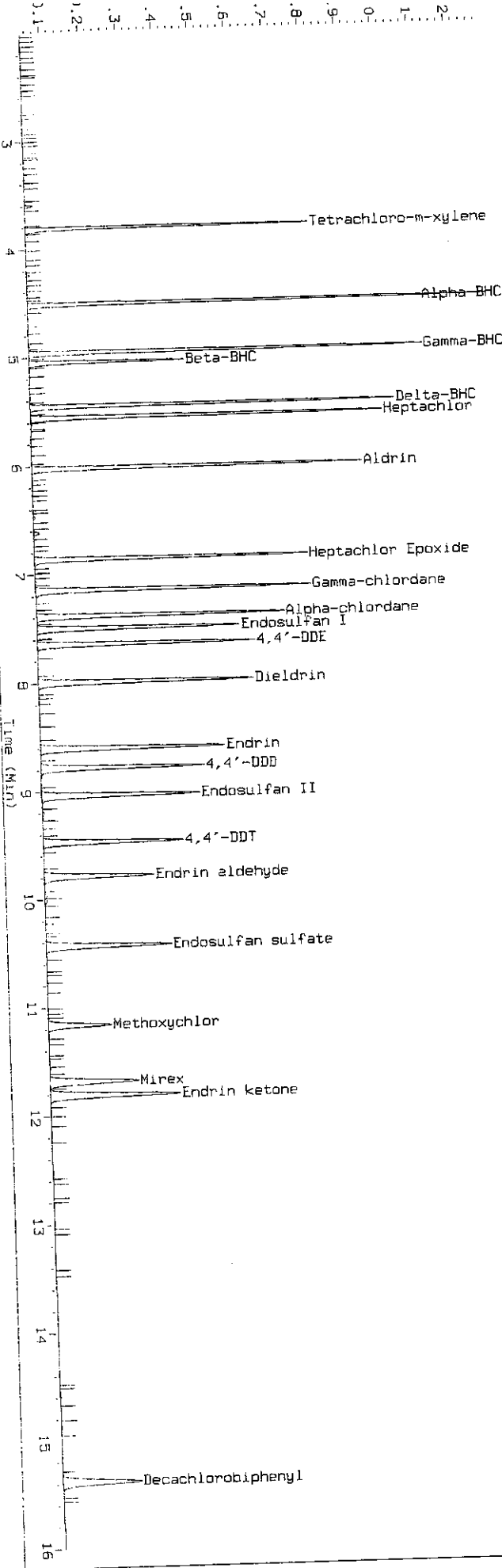
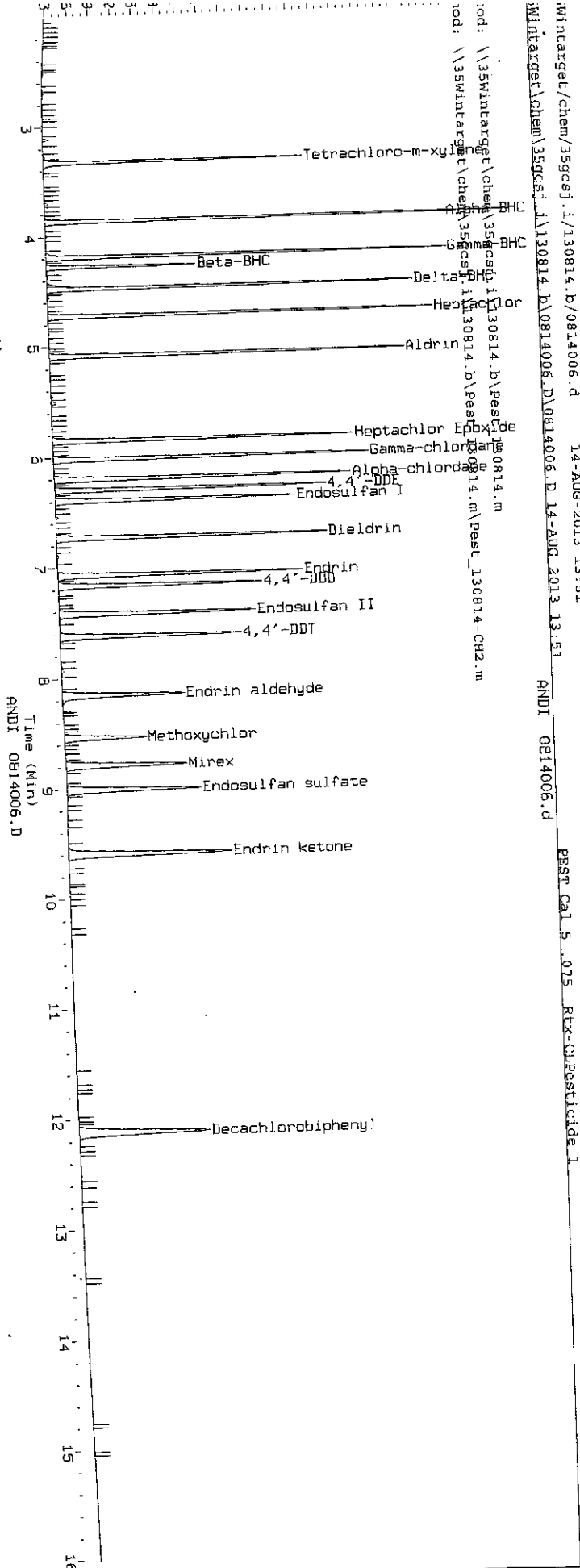
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PEST Cal 5 .075 Rtx-CPesticide 1

ANNDI 0814006.D

FPL-043-062

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Pace Analytical Services, Inc

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Phase: Rcx-CLPesticide 1
Phase: Rcx-CLPesticide 1
Phase: Rcx-CLPesticide 1

rix designated (hence no formula could be determined)

ine compound hit by indicated determination and CAN be in either column

Subst	RT1	RT2	Resp1	Resp2	On-Col	On-Col	Final	Final	RptCol	Ratio
DDE	6.296	7.648	37804072	76372801	0.05211	0.05180	0.05211	0.0518	Col 2	0.59
sulfan sulfate	9.008	10.431	29123334	59609049	0.04932	0.04904	0.04932	0.04904	Col 2	0.56
oxychlor	8.537	11.161	16975381	31476351	0.05013	0.05035	0.05013	0.05035	Col 2	0.43
in aldehyde	8.153	9.787	26050201	51372166	0.04595	0.04709	0.04595	0.04709	Col 2	2.45
-BHC	4.274	5.051	17951209	40769648	0.04862	0.04832	0.04862	0.04832	Col 2	0.61
a-BHC	4.475	5.457	41767581	96623340	0.05295	0.05126	0.05295	0.05126	Col 2	3.24
achlor	4.723	5.560	46503792	98200558	0.05197	0.05086	0.05197	0.05086	Col 2	2.15
achlor	5.083	6.026	45466657	95643662	0.05259	0.05049	0.05259	0.05049	Col 2	4.07
achlor Epoxide	5.851	6.865	42255193	85483162	0.05110	0.04998	0.0511	0.04998	Col 2	2.21

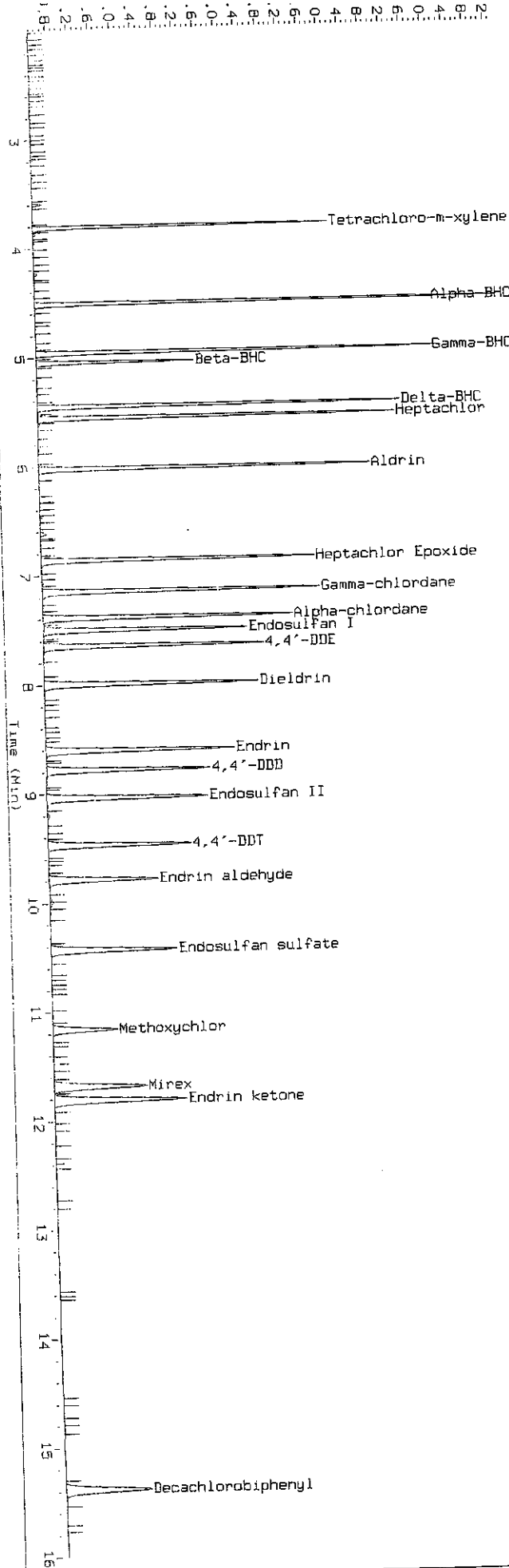
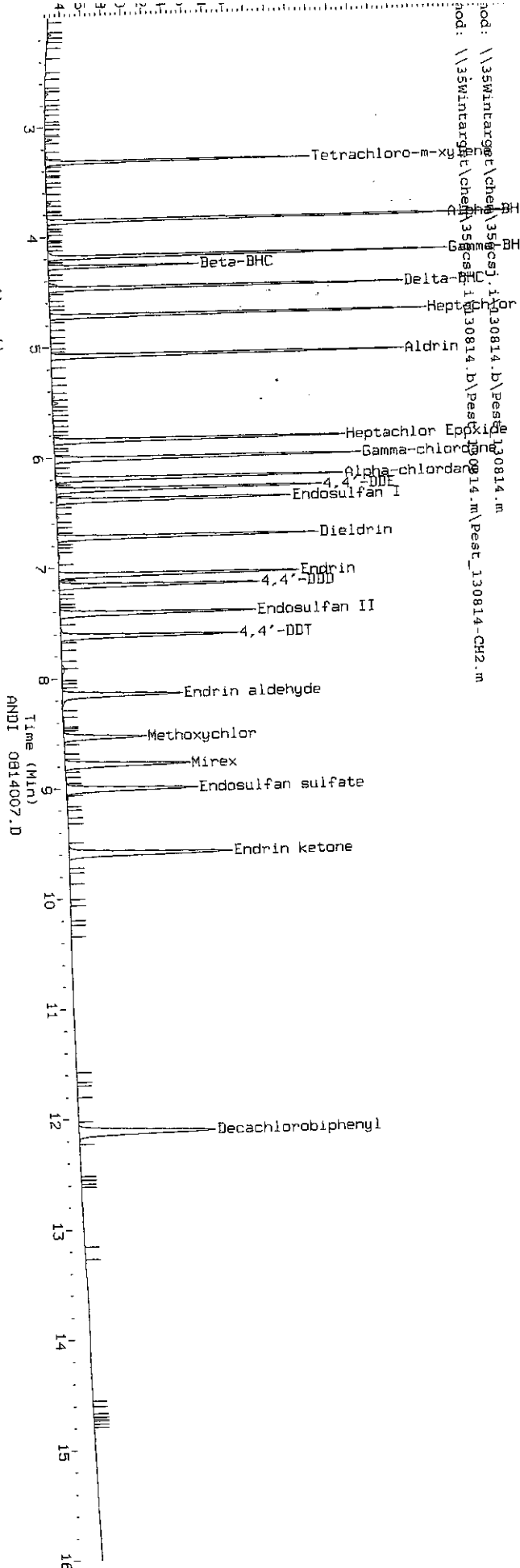
081573

Chlordane	6.017	7.151	44364201	92082457	0.05158	0.04822	0.05158	0.04822	Col 2	6.73
Chlordane	6.198	7.390	43500650	86162311	0.04627	0.04998	0.04627	0.04998	Col 2	7.70
Chlordane	9.593	11.809	38082791	63098274	0.05035	0.04998	0.05035	0.04998	Col 2	0.73
Chlordane	6.392	7.503	35547059	72017691	0.05104	0.05020	0.05104	0.0502	Col 2	1.65
Chlordane	6.731	7.998	40212029	82977870	0.05220	0.05119	0.0522	0.05119	Col 2	1.95
Chlordane	7.070	8.605	38698886	76756960	0.05211	0.05102	0.05211	0.05102	Col 2	2.11
Chlordane	7.165	8.784	32328439	66960515	0.05236	0.05081	0.05236	0.05081	Col 2	3.00
Chlordane	7.418	9.039	34316996	70109133	0.05021	0.04943	0.05021	0.04943	Col 2	1.56
Chlordane	7.622	9.471	31715528	60746014	0.05357	0.05199	0.05357	0.05199	Col 2	2.99
Chlordane	3.862	4.516	49352291	107671764	0.05384	0.05129	0.05384	0.05129	Col 2	4.85
Chlordane	4.189	4.964	45100255	100934081	0.05311	0.05129	0.05311	0.05129	Col 2	3.48
Chlordane	8.787	11.683	28111133	49978840	0.04850	0.04835	0.0485	0.04835	Col 2	0.30
Chlordane	3.323	3.813	27338089	63701590	0.04787	0.04902	0.04787	0.04902	Col 2	2.37
Chlordane	12.118	15.379	37795113	51522021	0.04879	0.05006	0.04879	0.05006	Col 2	2.56

Legend
 Link Interference
 Low Limit of Quantitation
 Above Max amount

08/15/2013 08:42

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Pace Analytical Services, Inc

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st #2 : PestMI.sub.sub
Phase: Rcx-CPesticide 1
Phase: Rcx-CPesticide 1

rix designated (hence no formula could be determined)

aine compound hit by indicated determination and CAN be in either column

ound	RT1	RT2	Resp1	Resp2	On-Col	On-Col	Final	Final	RptCol	Ratio
-DD6	6.295	7.648	16945040	34352312	0.02335	0.02330	0.02335	0.0233	Col 2	0.21
sulfan sulfate	9.008	10.431	13659925	28205534	0.02313	0.02320	0.02313	0.0232	Col 2	0.30
oxychlor	8.537	11.160	7873420	14775258	0.02325	0.02363	0.02325	0.02363	Col 2	1.62
in aldehyde	8.153	9.786	12764499	25168085	0.02251	0.02307	0.02251	0.02307	Col 2	2.45
-BHC	4.273	5.051	8567731	19879314	0.02320	0.02356	0.0232	0.02356	Col 2	1.53
a-BHC	4.475	5.457	18412350	44744850	0.02334	0.02373	0.02334	0.02373	Col 2	1.65
achlor	4.722	5.559	20813731	45416502	0.02326	0.02352	0.02326	0.02352	Col 2	1.11
in	5.083	6.026	20158840	44092241	0.02332	0.02327	0.02332	0.02327	Col 2	0.21
achlor Epoxide	5.851	6.865	19133947	39904052	0.02313	0.02333	0.02313	0.02333	Col 2	0.86

12/15/13

thlordane	6.018	7.150	19959689	43785583	0.02320	0.02293	0.0232	0.02293	Col 2	1.17
thlordane	6.198	7.390	20252537	40306660	0.02154	0.02338	0.02154	0.02338	Col 2	8.19
thlordane	9.594	11.808	17319845	32119436	0.02289	0.02323	0.02289	0.02323	Col 2	1.47
ketone	6.391	7.503	16238513	33620796	0.02331	0.02343	0.02331	0.02343	Col 2	0.51
ifan I	6.731	7.997	17808471	37914317	0.02311	0.02339	0.02311	0.02339	Col 2	1.20
in	7.070	8.605	17150405	35150871	0.02309	0.02336	0.02309	0.02336	Col 2	1.16
DD	7.164	8.785	14223211	31219886	0.02303	0.02369	0.02303	0.02369	Col 2	2.82
ifan II	7.418	9.038	15769021	33588385	0.02307	0.02368	0.02307	0.02368	Col 2	2.60
DT	7.621	9.470	13809165	27346199	0.02332	0.02340	0.02332	0.0234	Col 2	0.34
BHC	3.862	4.516	21586986	49853223	0.02355	0.02374	0.02355	0.02374	Col 2	0.80
BHC	4.189	4.964	20024625	46793588	0.02358	0.02378	0.02358	0.02378	Col 2	0.84
BHC	8.786	11.682	13382460	23961112	0.02309	0.02318	0.02309	0.02318	Col 2	0.38
thloro-m-xylene	3.323	3.813	13078706	30730857	0.02290	0.02365	0.0229	0.02365	Col 2	3.22
thlorobiphenyl	12.117	15.378	17617894	24344174	0.02274	0.02365	0.02274	0.02365	Col 2	3.92

3 Legend
 ank interference
 low limit of Quantitation
 ove Max amount

Data File

Injection Date

Client ID

Lab ID

Column Phase

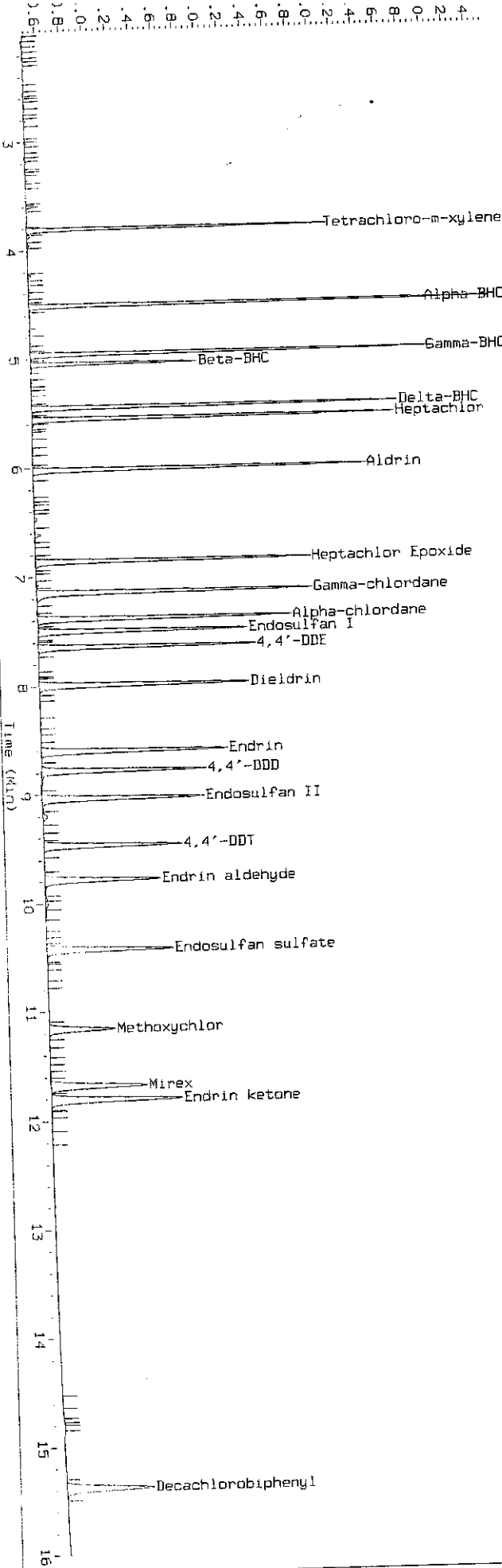
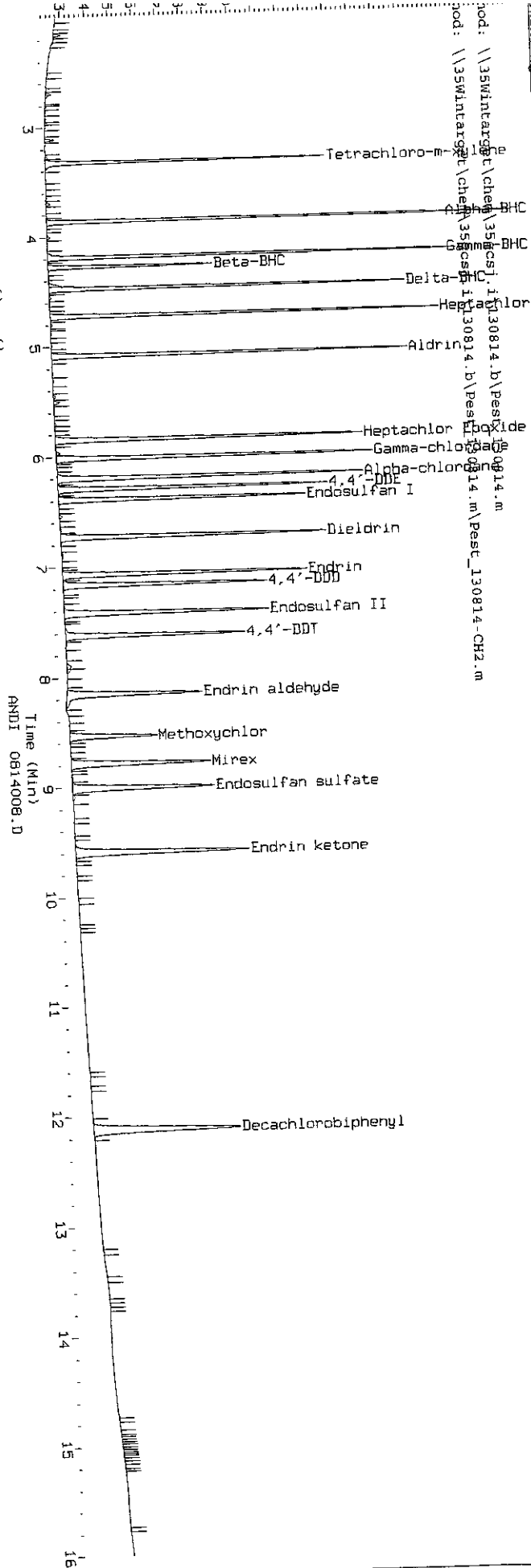
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PEST Cal 3 .025 Rtx-CPesticide 1

PEST Cal 3 .025 Rtx-CPesticide 1

ANDI 0814008.D

PEST Cal 3 .025 Rtx-CPesticide 1



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Pace Analytical Services, Inc

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Phase: Rcx-CLPesticide 1

rix designated (hence no formula could be determined)

name compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Resp1	Resp2	On-Col	Concl	On-Col	Conc2	Final	Concl	Final	Conc2	RptCol	Ratio
-DDE	6.296	7.649	7147787	14573464	0.00985	0.00988	0.00988	0.00985	0.00985	0.00988	0.00988	0.00986	Col 2	0.30
sulfan sulfate	9.008	10.431	5859127	12113290	0.00992	0.00996	0.00996	0.00992	0.00992	0.00996	0.00996	0.00996	Col 2	0.40
oxychlor	8.538	11.160	3445713	6359491	0.01017	0.01017	0.01017	0.01017	0.01017	0.01017	0.01017	0.01017	Col 2	0
in aldehyde	8.154	9.785	5917323	11083038	0.01043	0.01015	0.01015	0.01043	0.01043	0.01015	0.01015	0.01015	Col 2	2.72
-BHC	4.275	5.051	3787945	8864502	0.01025	0.01050	0.01050	0.01025	0.01025	0.00921	0.00921	0.00975	Col 2	5.69
a-BHC	4.475	5.456	7269927	18383010	0.00921	0.00975	0.00975	0.00921	0.00921	0.00975	0.00975	0.01002	Col 2	4.38
achlor	4.723	5.560	8581456	19347725	0.00959	0.01002	0.01002	0.00959	0.00959	0.01002	0.01002	0.00987	Col 2	3.08
achlor	5.084	6.025	8279961	18711296	0.00957	0.00987	0.00987	0.00957	0.00957	0.00987	0.00987	0.00987	Col 2	3.12
achlor Epoxide	5.851	6.865	8088625	17261908	0.00978	0.01009	0.01009	0.00978	0.00978	0.01009	0.01009	0.01009	Col 2	3.12

08573

Chlordane	6.018	7.151	8372189	20236955	0.00973	0.01059	0.00973	0.01059	Col 2	8.46
Chlordane	6.199	7.390	9083493	17500344	0.00966	0.01015	0.00966	0.01015	Col 2	4.94
Chlordane	9.595	11.810	7453081	14011272	0.00985	0.01013	0.00985	0.01013	Col 2	2.80
Chlordane	6.391	7.503	6917086	14696358	0.00993	0.01024	0.00993	0.01024	Col 2	3.07
Chlordane	6.730	7.997	7364576	16204496	0.00956	0.00999	0.00956	0.00999	Col 2	4.39
Chlordane	7.070	8.605	7169137	15120755	0.00965	0.01005	0.00965	0.01005	Col 2	4.06
Chlordane	7.165	8.785	5972352	13099157	0.00967	0.00994	0.00967	0.00994	Col 2	2.75
Chlordane	7.419	9.040	6720653	14808694	0.00983	0.01044	0.00983	0.01044	Col 2	6.01
Chlordane	7.622	9.471	5619512	11434180	0.00949	0.00978	0.00949	0.00978	Col 2	3.00
Chlordane	3.863	4.516	8653273	21066009	0.00944	0.01003	0.00944	0.01003	Col 2	6.06
Chlordane	4.190	4.964	8119448	19627737	0.00956	0.00997	0.00956	0.00997	Col 2	4.19
Chlordane	8.786	11.682	6178739	11127907	0.01066	0.01076	0.01066	0.01076	Col 2	0.93
Chlordane	3.324	3.813	5631458	13429600	0.00986	0.01033	0.00986	0.01033	Col 2	4.65
Chlordane	12.119	15.379	8289104	11284846	0.01070	0.01096	0.0107	0.01096	Col 2	2.40

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Lab ID

Column Phase

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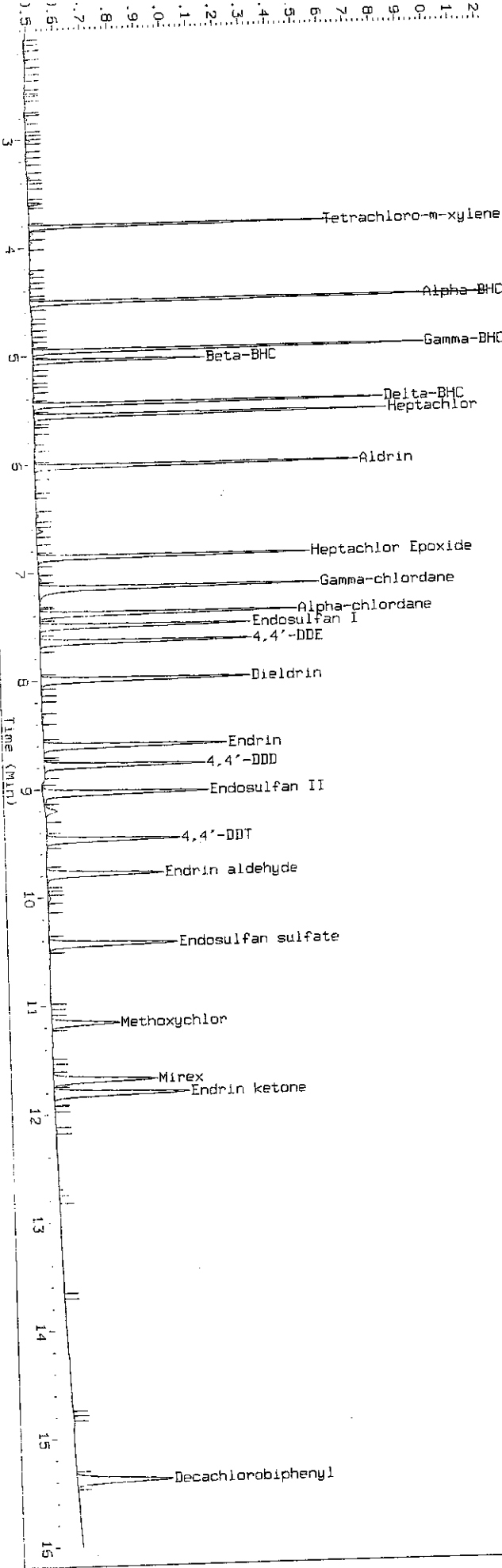
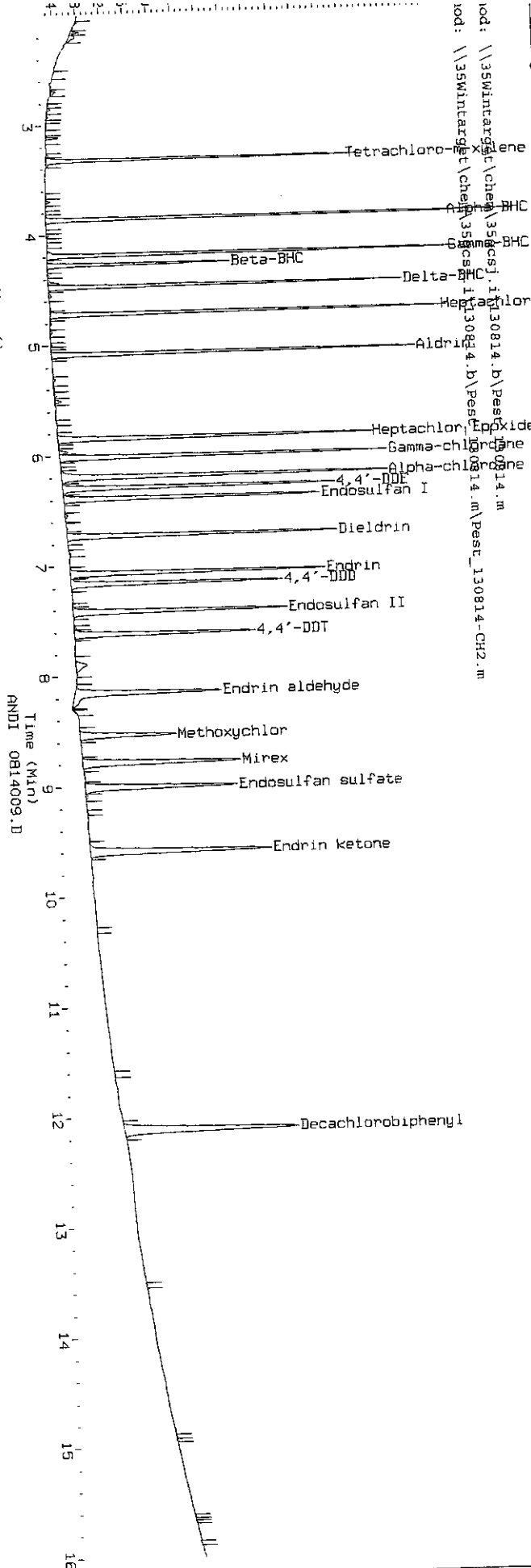
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Rtx-CPesticide 1

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ANDI 0814009.D

PEST Cal 2.010 Rtx-CPesticide 1



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Pace Analytical Services, Inc

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Phase: Rtx-CLPesticide 1
Phase: Rtx-CLPesticide 1
Phase: Rtx-CLPesticide 1

rix designated (hence no formula could be determined)

nine compound hit by indicated determination and CAN be in either column

ound	RT1	RT2	Resp1	Resp2	On-Col	Concl	On-Col	Conc2	Final	Concl	Final	Conc2	ReptCol	Ratio
-DDE	6.295	7.646	697128	1520985	0.00096		0.00103		0.00096		0.00103		Col 2	7.03 (M)
sulfan sulfate	9.006	10.429	683909	1466205	0.00115		0.00120		0.00115		0.0012		Col 2	8.25
oxychlor	8.536	11.159	368894	699408	0.00108		0.00111		0.00108		0.00111		Col 2	8.73
in aldehyde	8.151	9.786	772676	1440256	0.00136		0.00132		0.00136		0.00132		Col 2	2.98 (M)
-BHC	4.274	5.051	440441	1007223	0.00119		0.00119		0.00119		0.00119		Col 2	0
-BHC	4.474	5.456	732189	1956035	0.00092		0.00103		0.00092		0.00103		Col 2	11.2
achlor	4.722	5.559	891099	2065803	0.00099		0.00107		0.00099		0.00107		Col 2	7.76
in	5.083	6.025	830009	2118702	0.00096		0.00111		0.00096		0.00111		Col 2	14.4
achlor Epoxide	5.850	6.863	869806	1956598	0.00105		0.00114		0.00105		0.00114		Col 2	8.21

081513
081514
081514

1,4-dichlorobenzene	6.016	7.151	876630	2320639	0.00101	0.00121	0.00101	0.00121	Col 2	18.0 (M)
1,4-dichlorobenzene	6.196	7.390	1347472	1961743	0.00143	0.00113	0.00143	0.00113	Col 2	28.4 (M)
1,4-dichlorobenzene	9.594	11.807	868449	1599327	0.00114	0.00115	0.00114	0.00115	Col 2	0.87
1,4-dichlorobenzene	6.391	7.501	724360	1592607	0.00104	0.00111	0.00104	0.00111	Col 2	6.51 (M)
1,4-dichlorobenzene	6.730	7.996	761617	1724853	0.00098	0.00106	0.00098	0.00106	Col 2	7.84
1,4-dichlorobenzene	7.069	8.604	741108	1605463	0.00099	0.00106	0.00099	0.00106	Col 2	6.82
1,4-dichlorobenzene	7.165	8.784	607041	1426996	0.00098	0.00108	0.00098	0.00108	Col 2	9.70
1,4-dichlorobenzene	7.418	9.039	766573	1606006	0.00112	0.00113	0.00112	0.00113	Col 2	0.88
1,4-dichlorobenzene	7.621	9.470	527084	1176358	0.00089	0.00100	0.00089	0.00100	Col 2	11.6
1,4-dichlorobenzene	3.861	4.516	797115	2060190	0.00086	0.00098	0.00086	0.00098	Col 2	13.0
1,4-dichlorobenzene	4.189	4.963	775451	2035848	0.00091	0.00103	0.00091	0.00103	Col 2	12.3
1,4-dichlorobenzene	8.786	11.680	708129	1294283	0.00122	0.00125	0.00122	0.00125	Col 2	2.42
1,4-dichlorobenzene	3.323	3.812	720195	1498500	0.00126	0.00115	0.00126	0.00115	Col 2	9.12
1,4-dichlorobenzene	12.116	15.379	969422	1193744	0.00125	0.00115	0.00125	0.00115	Col 2	8.38 (M)

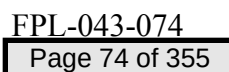
Legend
 Fully Integrated
 Peak Interference
 Low Limit of Quantitation
 Above Max Amount

001 Rx-CIPesticide 1

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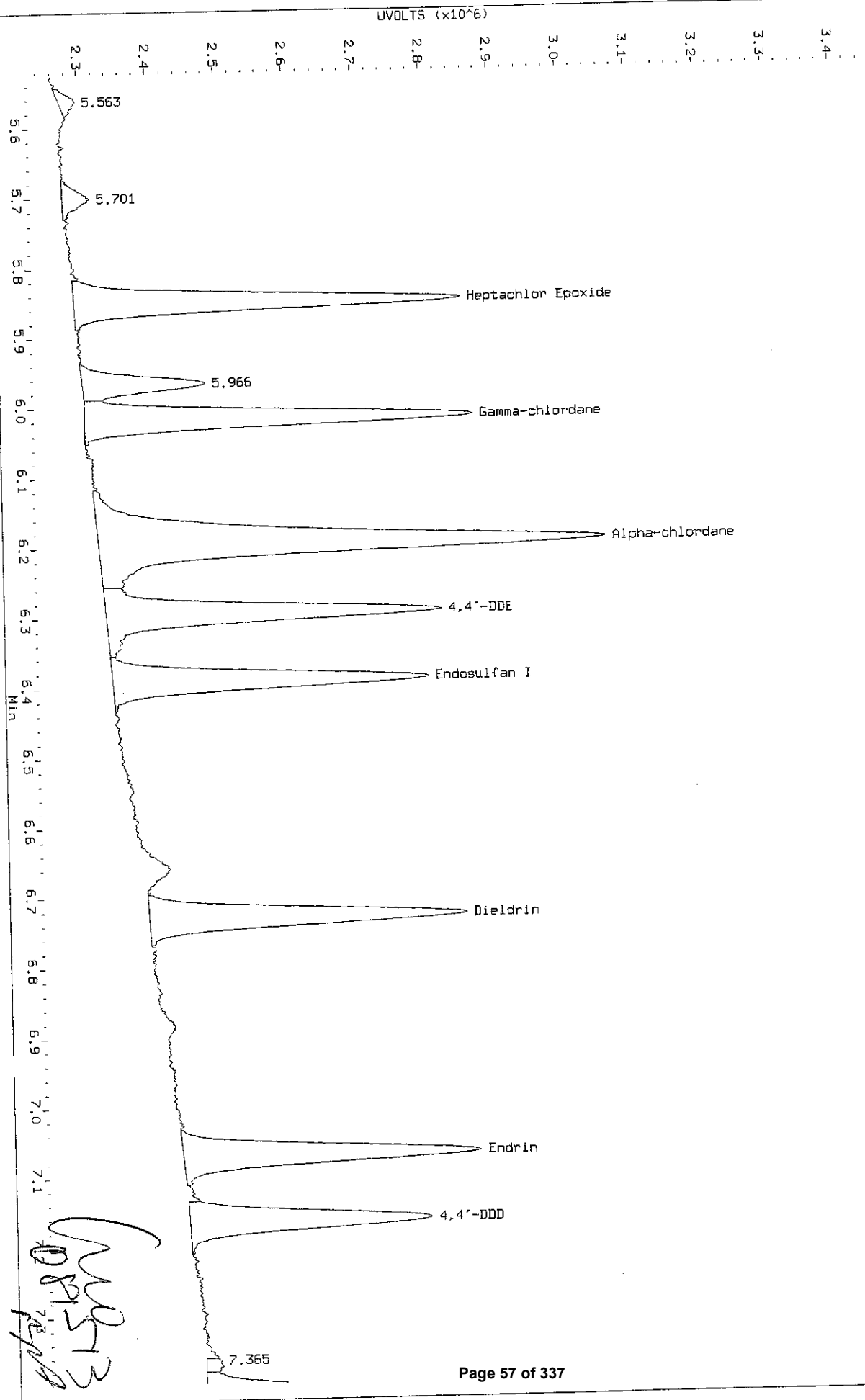
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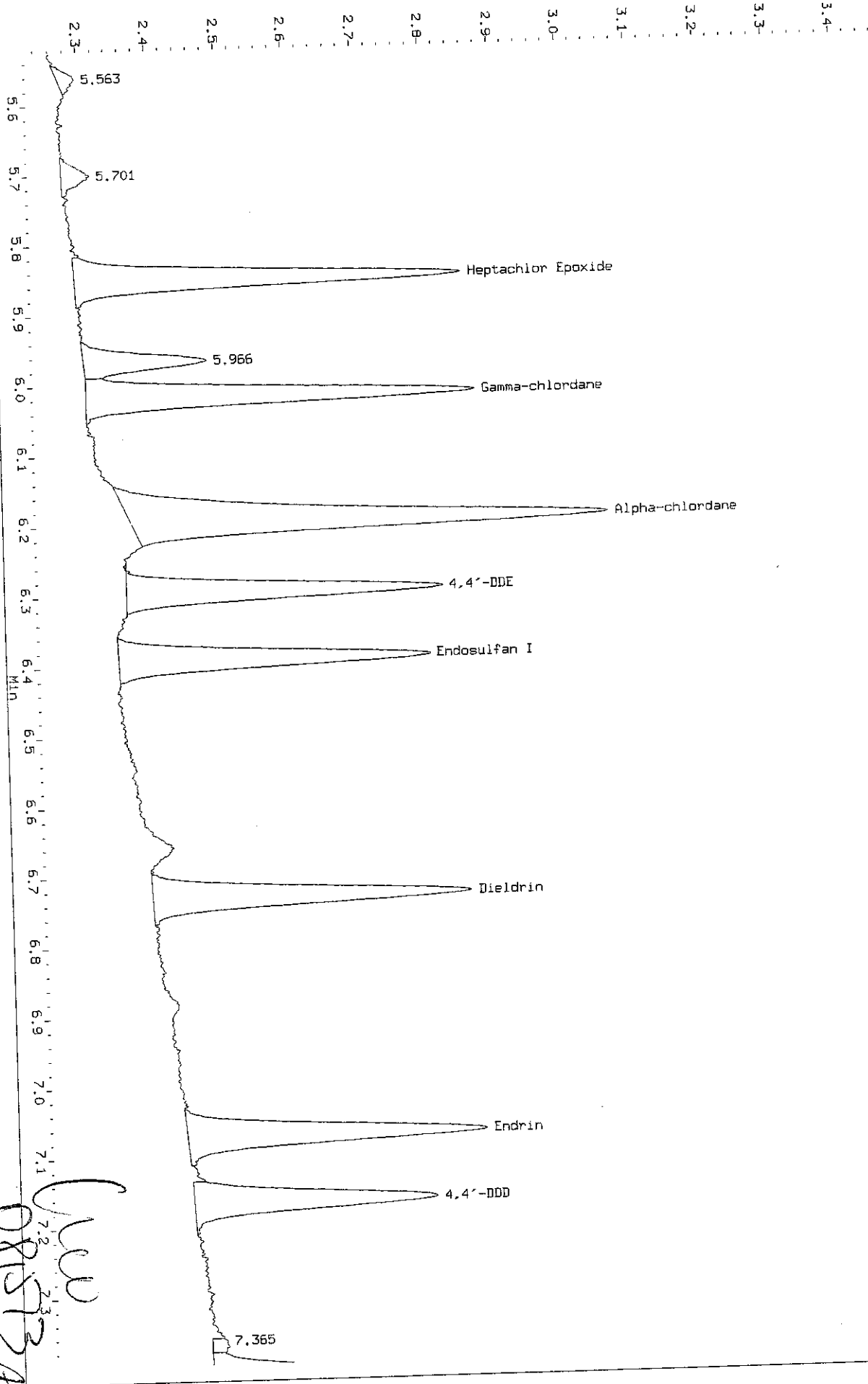


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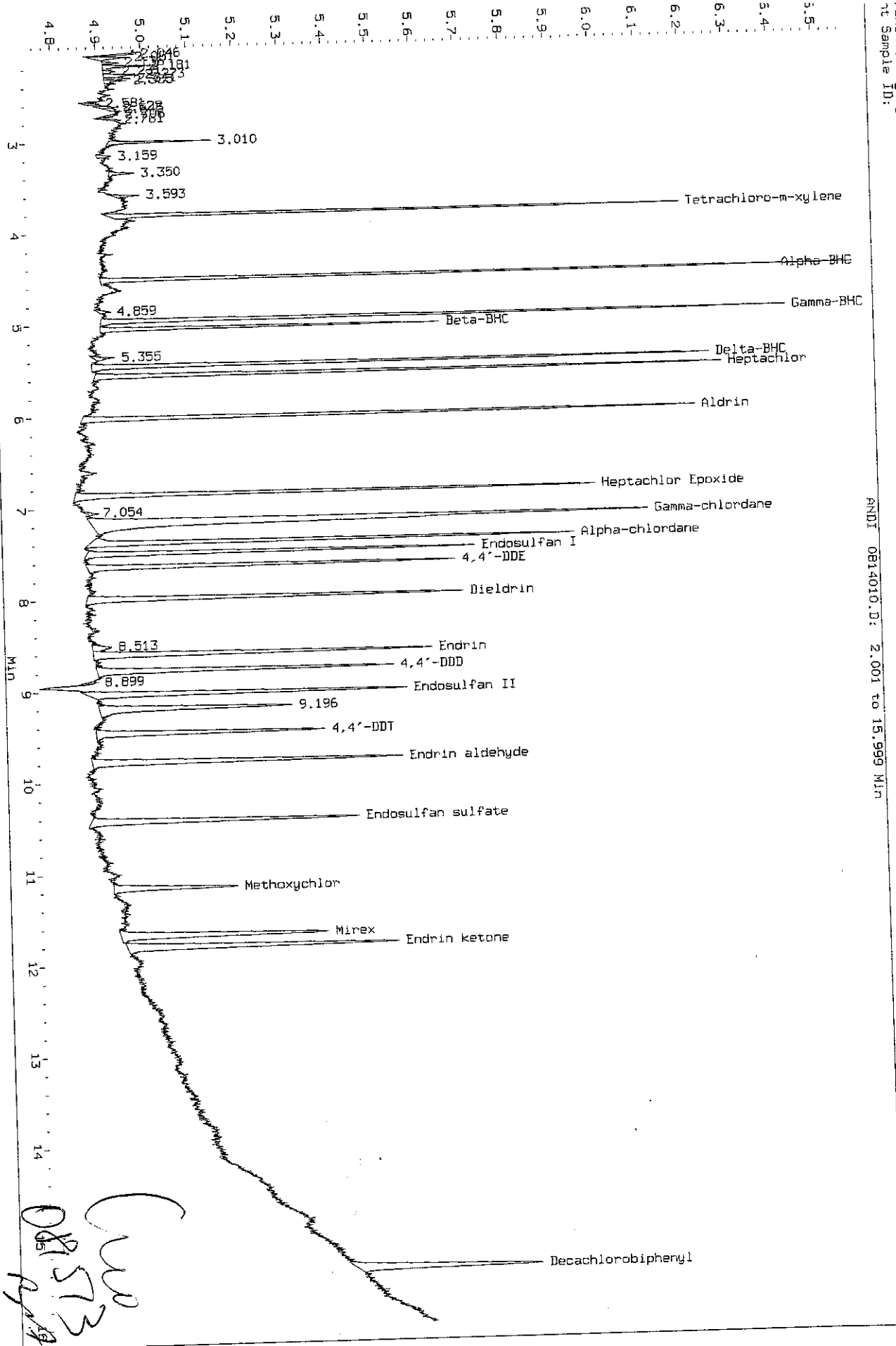


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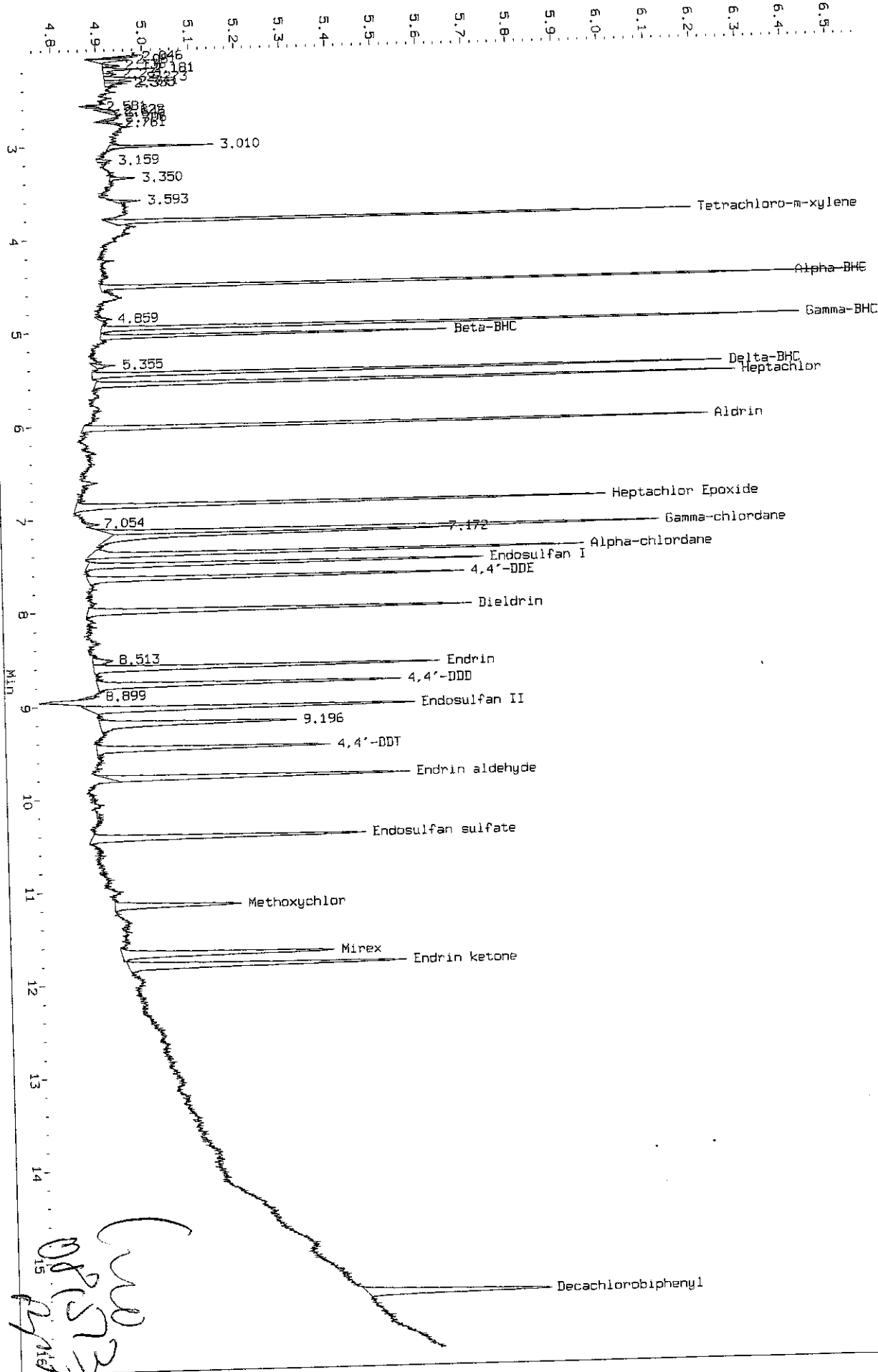


081513
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ANDI 0814010.D: 2.001 to 15.999 Min



ANDI 0814010.D: 2.001 to 15.999 Min



File Date : 15-Aug-2013 08:44

Page 1

Pace Analytical Services, Inc

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Edit : 15-Aug-2013 08:42 lgonzalez

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Compound	Level						Curve	b	Coefficients		%RSD or R ²
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Alpha-BHC	0.0010000	0.0100000	0.0250000	0.0500000	0.0750000	0.1000000			91654536		9.71781
Gamma-BHC	797115000	865327300	863479440	987045820	952808667	1.033e+009	AVRG		849180819		7.48748
Beta-BHC	775451000	811944800	800985000	902005100	866129067	938569950	AVRG		369212121		10.28385
Delta-BHC	440441000	378794900	342709240	359024180	335675533	358627870	AVRG		788781642		8.53907
Heptachlor	732189000	726992700	736494000	835351620	811719040	889943490	AVRG		894810724		5.34612
Aladin	891099000	858145600	832549240	930075840	891793093	965201570	AVRG		864423408		6.16000
Heptachlor Epoxide	830009000	827996100	806353600	909333140	869352840	943495770	AVRG		826890702		4.93967
Gamma-chlordane	869806000	808862500	765357880	845103860	805388880	866825090	AVRG		860080824		4.78682
2 Alpha-chlordane	876630000	837218900	798387560	887284020	846570493	914393970	AVRG	0.00037	865989850		0.99728
3,4,4'-DDT	1347472	9083493	20252537	43500650	61664232	88250348	AVRG		725405326		5.44551
Endosulfan I	697128000	714778700	677801600	756081440	720734333	785907880	AVRG		696423528		4.37783
Dielsdorf	724360000	691708600	649540520	710941180	674590827	727400040	AVRG		770286144		5.87151
Endrin	761617000	736457600	712338840	804240580	769717373	837345470	AVRG		742528451		5.56103
4,4'-DDT	741108000	716913700	686016200	773977720	734465093	802689990	AVRG		617338256		5.85478
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Pace Analytical Services, Inc

INITIAL CALIBRATION DATA

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 Integrator : Falcon
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 Edit : 15-Aug-2013 08:42 lgonzalez

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Endosulfan II	766573000	672065300	630760840	686339920	645748587	698924510	AVRG	-0.00067	683402026	591940144	504993976	7.01282
4,4'-DDT	527084000	561951200	552366600	634310560	603075267	672853240	AVRG		591940144	504993976	504993976	9.29544
Endrin aldehyde	772676	5917323	12764499	26050201	36600537	51740436	LINR		51740436	338586124	579546048	5.95644
Methoxychlor	368894000	344571300	314936800	339507620	317203547	346463480	AVRG		346463480	542327010	597036840	12.51098
Mirex	708129000	617873900	535298400	562222660	511425320	542327010	AVRG		511425320	542327010	597036840	8.53269
Endosulfan sulfate	683909000	585912700	546397000	582466680	546993067	597036840	AVRG		546993067	597036840	597036840	8.20020
Endrin ketone	868449000	745308100	692793800	761655820	706997387	762802220	AVRG		706997387	762802220	762802220	
Tetrachloro-m-xylene	720195000	563145800	523148240	546777780	519679627	553447360	AVRG		519679627	553447360	553447360	13.13665
Decachlorobiphenyl	969422000	828910400	704715760	755902260	669672533	719019950	AVRG		669672533	719019950	719019950	14.16991

Pace Analytical Services, Inc

INITIAL CALIBRATION DATA

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Cal Date : 14-AUG-2013 15:07
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Edit : 15-Aug-2013 08:42 Igonzalez

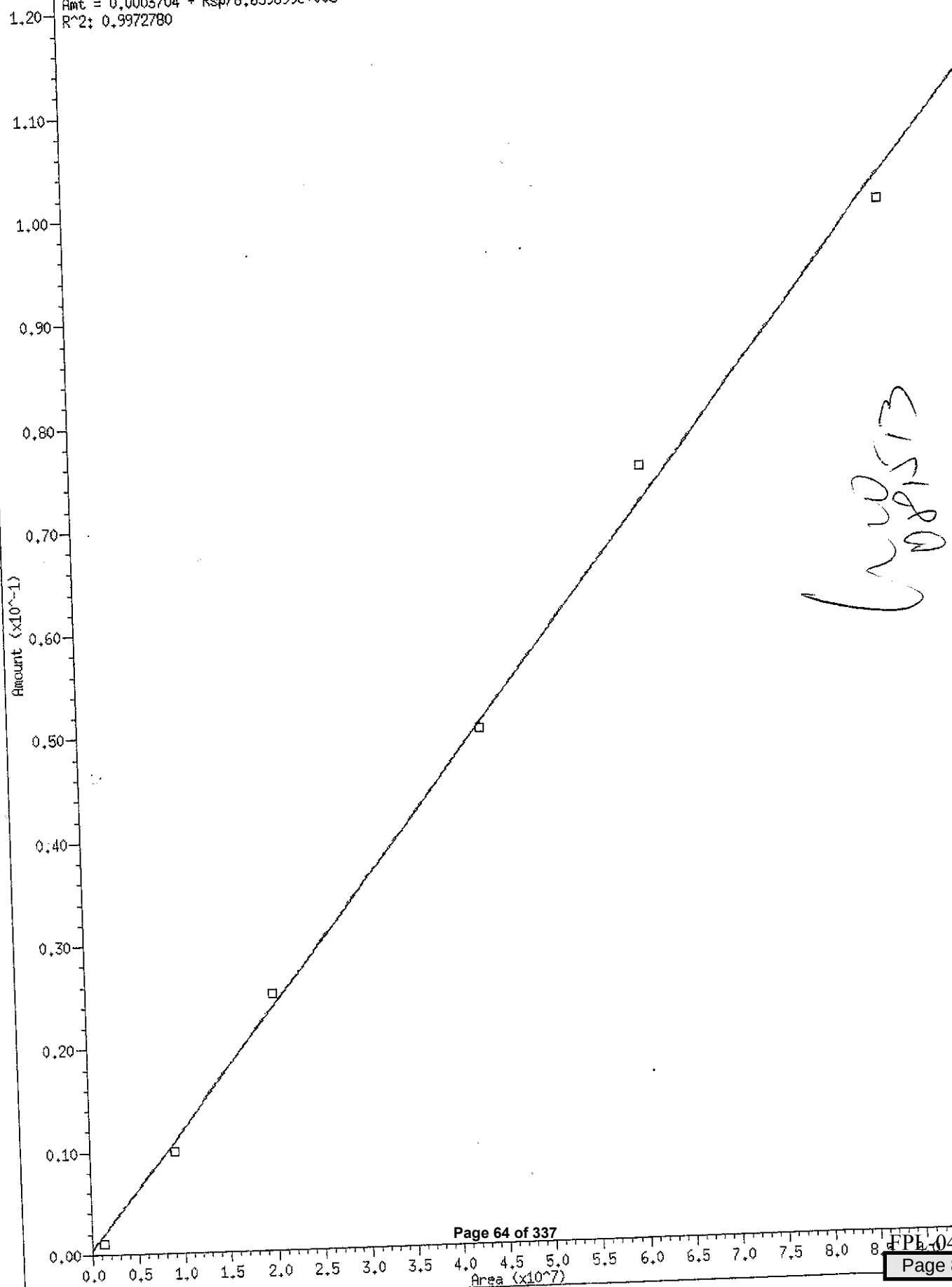
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Standard Average %RSD Test.

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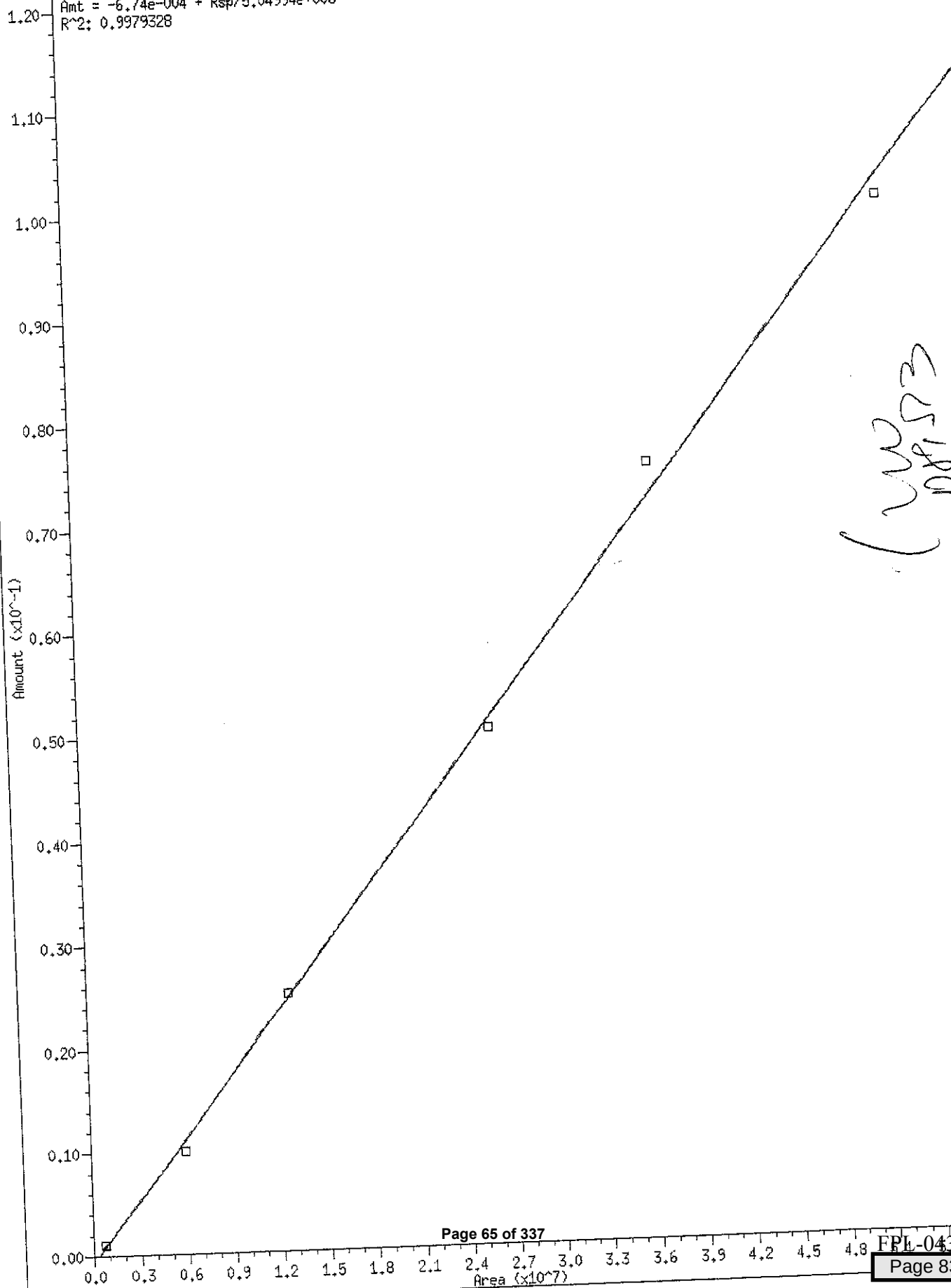
12 Alpha-chlordane

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 R^2: 0.9972780



21 Endrin aldehyde

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Date : 15-Aug-2013 08:45

Page 1

Pace Analytical Services, Inc

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4 : \\35wintarget\chem\35gcsj.i\130814.b\0814007.d\0814007.d
5 : \\35wintarget\chem\35gcsj.i\130814.b\0814006.d\0814006.d
6 : \\35wintarget\chem\35gcsj.i\130814.b\0814005.d\0814005.d

Compound	Level						Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
2 Alpha-BHC	0.001000	0.010000	0.025000	0.050000	0.075000	0.100000	AVRG		2.099e+009		3.54784
4 Gamma-BHC	2.060e+009	2.107e+009	1.994e+009	2.153e+009	2.074e+009	2.207e+009	AVRG		1.968e+009		3.52994
5 Beta-BHC	2.036e+009	1.963e+009	1.872e+009	2.019e+009	1.897e+009	2.020e+009	AVRG		843612501		10.71565
6 Delta-BHC	1.007e+009	886450200	795172560	815392960	760134627	797301660	AVRG		1.885e+009		3.86742
7 Heptachlor	1.956e+009	1.838e+009	1.790e+009	1.932e+009	1.834e+009	1.959e+009	AVRG		1.930e+009		4.61285
8 Aldrin	2.066e+009	1.935e+009	1.817e+009	1.964e+009	1.848e+009	1.953e+009	AVRG		1.894e+009		6.53249
9 Heptachlor Epoxide	2.119e+009	1.871e+009	1.764e+009	1.913e+009	1.804e+009	1.894e+009	AVRG		1.710e+009		7.75131
2 Gamma-chlordane	1.957e+009	1.726e+009	1.596e+009	1.710e+009	1.598e+009	1.675e+009	AVRG		1.909e+009		11.94855
3 Alpha-chlordane	2.321e+009	2.024e+009	1.751e+009	1.842e+009	1.717e+009	1.802e+009	AVRG		1.724e+009		7.54174
4 Endosulfan I	1.962e+009	1.750e+009	1.612e+009	1.723e+009	1.608e+009	1.688e+009	AVRG		1.435e+009		6.43257
15 4,4'-DDE	1.593e+009	1.470e+009	1.345e+009	1.440e+009	1.346e+009	1.414e+009	AVRG		1.474e+009		4.31598
16 Dieldrin	1.521e+009	1.457e+009	1.374e+009	1.527e+009	1.434e+009	1.532e+009	AVRG		1.621e+009		4.66411
17 Endrin	1.725e+009	1.620e+009	1.517e+009	1.606e+009	1.553e+009	1.650e+009	AVRG		1.504e+009		4.83947
18 4,4'-DDD	1.605e+009	1.512e+009	1.406e+009	1.535e+009	1.435e+009	1.532e+009	AVRG		1.318e+009		4.98348
	1.427e+009	1.310e+009	1.249e+009	1.339e+009	1.253e+009	1.328e+009	AVRG				

Pace Analytical Services, Inc

INITIAL CALIBRATION DATA

Cal Date : 14-AUG-2013 13:33
 Cal Date : 14-AUG-2013 15:07
 Method : ESTD
 Version : 4.14
 Target : Falcon
 od file : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m
 Edit : 15-Aug-2013 08:43 lgonzalez

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients	m1	m2	%RSD
Endosulfan II	1.606e+009	1.481e+009	1.344e+009	1.402e+009	1.299e+009	1.378e+009	AVRG	1.418e+009	1.168e+009	1.168e+009	1.168e+009	7.77682
4,4'-DDT	1.176e+009	1.143e+009	1.094e+009	1.215e+009	1.135e+009	1.246e+009	AVRG	-0.00077	983797495	1.215e+009	1.215e+009	4.78461
Endrin aldehyde	1.466e+009	1.211e+009	1.128e+009	1.192e+009	1.108e+009	1.186e+009	AVRG	625139254	1.034e+009	1.034e+009	1.034e+009	6.88049
Endosulfan sulfate	699408000	635949100	591010320	629527020	576226933	618714150	AVRG	1.034e+009	1.034e+009	1.034e+009	1.034e+009	14.24516
Methoxychlor	1.294e+009	1.113e+009	958444480	999576800	899645880	936597290	AVRG	1.382e+009	1.382e+009	1.382e+009	1.382e+009	8.58202
Mirex	1.599e+009	1.401e+009	1.285e+009	1.382e+009	1.269e+009	1.359e+009	AVRG	1.299e+009	1.299e+009	1.299e+009	1.299e+009	8.43182
Endrin ketone	1.499e+009	1.343e+009	1.229e+009	1.274e+009	1.194e+009	1.257e+009	AVRG	1.029e+009	1.029e+009	1.029e+009	1.029e+009	10.97556
Tetrachloro-m-xylene	1.194e+009	1.128e+009	973766960	1.030e+009	894865547	953445830	AVRG					
Decachlorobiphenyl												

rt Date : 15-Aug-2013 08:45

Page 3

Pace Analytical Services, Inc

INITIAL CALIBRATION DATA

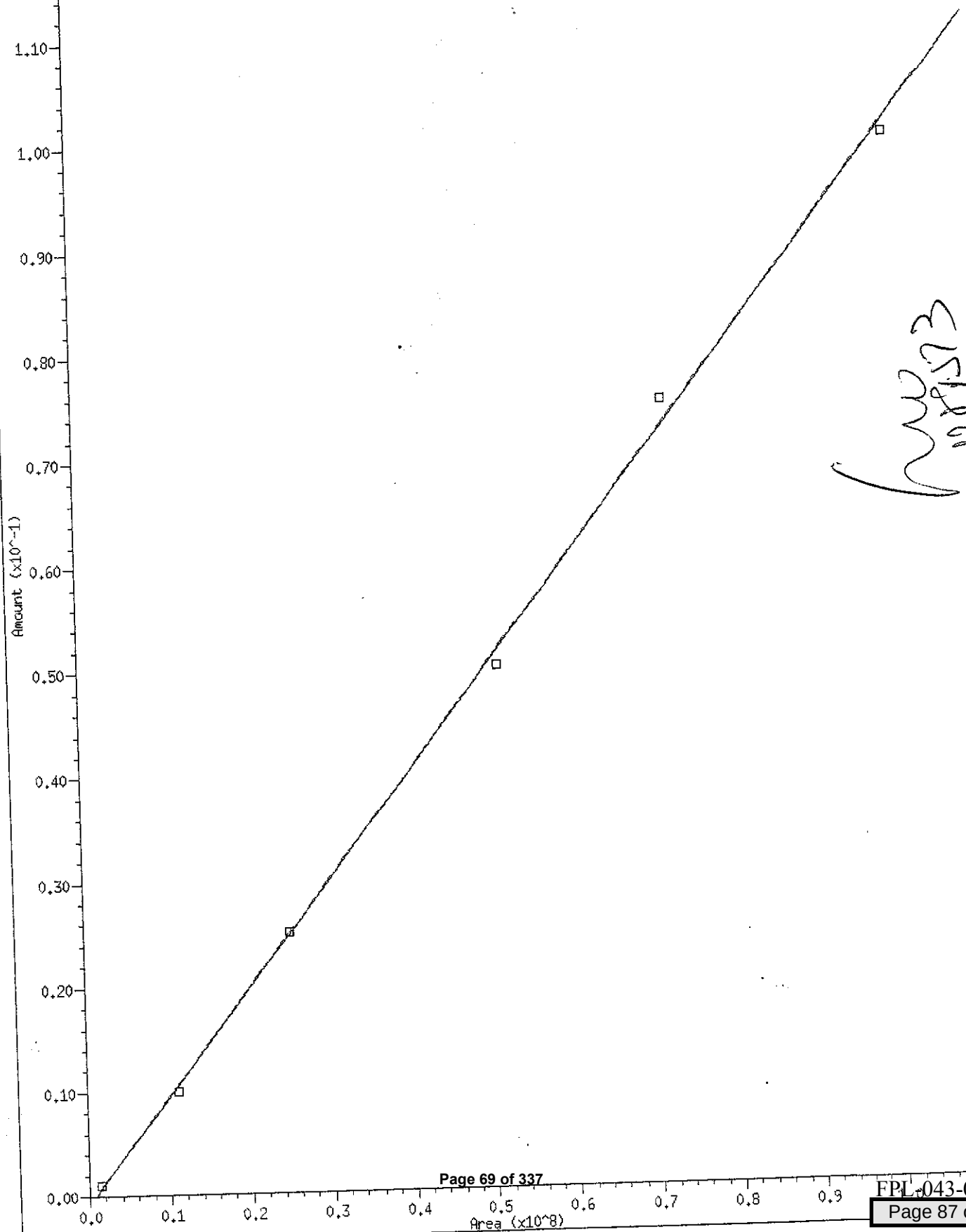
t Cal Date : 14-AUG-2013 13:33
Cal Date : 14-AUG-2013 15:07
t Method : ESTD
et Version : 4.14
egrator : Falcon
od file : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m
Edit : 15-Aug-2013 08:43 lgonzalez

ge %RSD Results.	
lated Average %RSD	= 7.56075
un Average %RSD	= 15.00000
sed Average %RSD Test.	

ve	Formula	Units
arged	Ant = Rsp/ml	Response
ear	Ant = b + Rsp/ml	Response

21 Endrin aldehyde

Curve Type: Linear By-Response
 Amt = $-7.679e-004 + \text{Rsp}/9.837975e+008$
 R²: 0.9986617



Pace Analytical Services, Inc

Column #1 : //35wintarget\chem\35gcsj.1\130814.b\0814011.D
Column #2 : \\35wintarget\chem\35gcsj.1\130814.b\0814011.D\0814011.D
Inj Date : 14-AUG-2013 15:26
Sample Info: PEST ICV .075
Misc Info :
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.1
Dil Factor : 1.000000

Method #1 : \\35wintarget\chem\35gcsj.1\130814.b\0814011.D
Method #2 : \\35wintarget\chem\35gcsj.1\130814.b\0814011.D\0814011.D
Sub List #1 : PestM1CV. sub. sub
Sub List #2 : PestM1CV. sub. sub
Col #1 Phase: RTX-CLPesticide 1
Col #2 Phase: RTX-CLPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Resp1	Resp2	On-Col	On-Col	Final	Final	RptCol	Ratio
Alpha-BHC	3.861	4.516	75123181	167872497	0.08196	0.07997	0.08196	0.07997	Col 2	2.45
Gamma-BHC	4.189	4.964	68571206	151723895	0.08074	0.07710	0.08074	0.07710	Col 2	4.61
Beta-BHC	4.274	5.051	26733190	61297048	0.07240	0.07266	0.0724	0.07266	Col 2	0.35
Delta-BHC	4.474	5.456	65587874	149214540	0.08315	0.07916	0.08315	0.07916	Col 2	4.91
Hepachlor	4.722	5.559	70461961	147079772	0.07874	0.07618	0.07874	0.07618	Col 2	3.30
Aldrin	5.083	6.026	68910927	143521273	0.07971	0.07577	0.07971	0.07577	Col 2	5.06
Hepachlor Epoxide	5.850	6.864	63901015	127922180	0.07727	0.07479	0.07727	0.07479	Col 2	3.26
Gamma-chlordane	6.017	7.151	67630908	137941361	0.07863	0.07224	0.07863	0.07224	Col 2	8.47
Alpha-chlordane	6.198	7.390	65679384	129038797	0.07621	0.07485	0.07621	0.07485	Col 2	1.80

081573

4,4'-DDE	6.295	7.649	57142598	114480029	0.07877	0.07765	0.07877	0.07765	Col 2	1.43
Endosulfan I	6.391	7.503	53873873	107794067	0.07735	0.07514	0.07735	0.07514	Col 2	2.89
Dieldrin	6.730	7.997	61120444	123947550	0.07934	0.07647	0.07934	0.07647	Col 2	3.68
Endrin	7.069	8.605	58370453	114249620	0.07861	0.07595	0.07861	0.07595	Col 2	3.44
4,4'-DDD	7.164	8.785	48999441	100174951	0.07937	0.07602	0.07937	0.07602	Col 2	4.31
Endosulfan II	7.417	9.039	52428377	106393225	0.07671	0.07501	0.07671	0.07501	Col 2	2.24
4,4'-DDT	7.621	9.471	48481091	91992964	0.08190	0.07874	0.0819	0.07874	Col 2	3.93
Endrin aldehyde	8.152	9.786	39691190	78523483	0.07792	0.07904	0.07792	0.07904	Col 2	1.42
Methoxychlor	8.536	11.161	25669374	47667792	0.07581	0.07625	0.07581	0.07625	Col 2	0.57
Endosulfan sulfate	9.009	10.432	44750201	91245264	0.07578	0.07507	0.07578	0.07507	Col 2	0.94
Endrin ketone	9.592	11.808	57680263	105403823	0.07626	0.07624	0.07626	0.07624	Col 2	0.02
Mirex	8.786	11.682	4165482	74305148	0.07189	0.07189	0.07189	0.07189	Col 2	0

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

08/15/2013 08:47

Data File

Injection Date

Client ID

Lab ID

Column Phase

(1) //35WIntarget/chem/35gcsj.i/130814.b/0814011.D

14-AUG-2013 15:26

PEST ICV .075

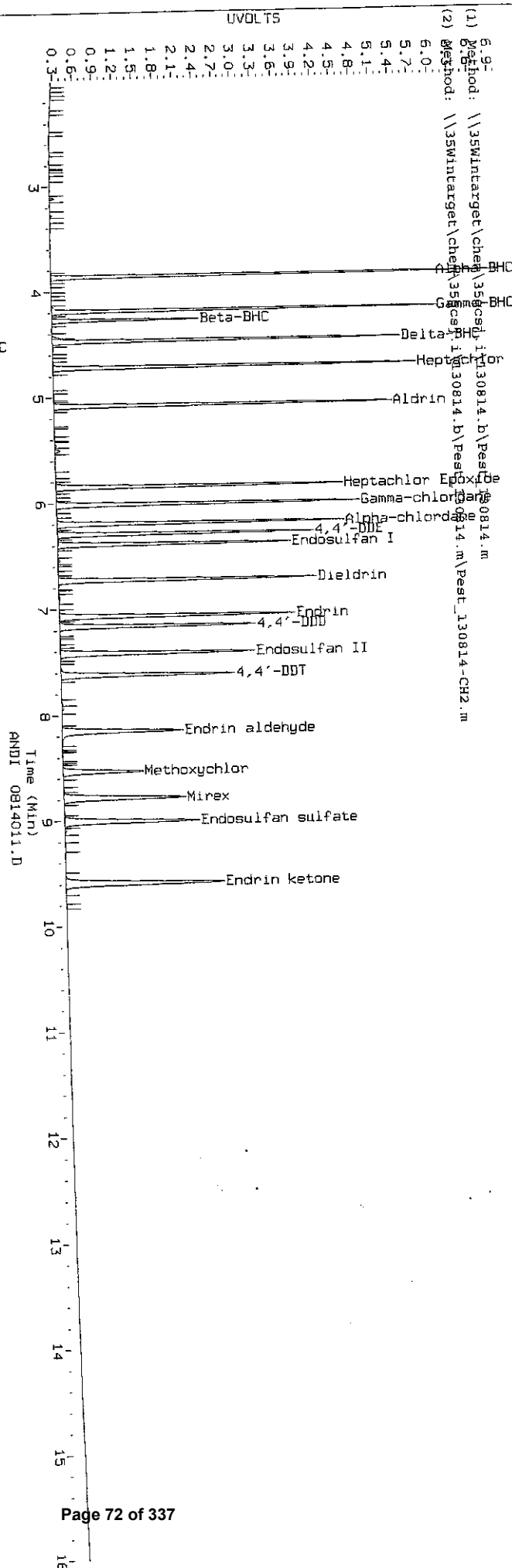
Rex-CPesticide 1

PEST ICV .075

Rtx-CPesticide 1

(2) //35WIntarget/chem/35gcsj.i/130814.b/0814011.D 14-AUG-2013 15:26

ANDI 0814011.D



Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 14-AUG-2013 15:26
Lab File ID: 0814011.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST ICV .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m

COMPOUND	RRF / AMOUNT	RF0.075	CCAL	MIN	%D / %DRIFT	MAX	%D / %DRIFT	CURVE TYPE
2 Alpha-BHC	916545336	1.002e+09	1.002e+09	0.010	9.28455	15.00000	Averaged	
3 Gamma-BHC	849180819	914282747	914282747	0.010	7.66644	15.00000	Averaged	
5 Beta-BHC	369212121	356442533	356442533	0.010	-3.45860	15.00000	Averaged	
6 Delta-BHC	788781642	874504987	874504987	0.010	10.86782	15.00000	Averaged	
7 Heptachlor	894810724	939492813	939492813	0.010	4.99347	15.00000	Averaged	
8 Aldrin	864423408	918812360	918812360	0.010	6.29193	15.00000	Averaged	
10 Heptachlor Epoxide	826890702	852013533	852013533	0.010	3.03823	15.00000	Averaged	
11 Gamma-chlordane	860080824	901745440	901745440	0.010	4.84427	15.00000	Averaged	
12 Alpha-chlordane	0.07500	0.07621	875725120	0.010	1.61804	15.00000	Linear	
13 4,4'-DDE	725405326	761901307	761901307	0.010	5.03112	15.00000	Averaged	
14 Endosulfan I	696423528	718318307	718318307	0.010	3.14389	15.00000	Averaged	
15 Dieldrin	770286144	814939253	814939253	0.010	5.79695	15.00000	Averaged	
16 Endrin	742528451	778272707	778272707	0.010	4.81386	15.00000	Averaged	
17 4,4'-DDD	617338256	653325880	653325880	0.010	5.82948	15.00000	Averaged	
19 Endosulfan II	683402026	699045027	699045027	0.010	2.28899	15.00000	Averaged	
20 4,4'-DDT	591940144	646414547	646414547	0.010	9.20269	15.00000	Averaged	
21 Endrin aldehyde	0.07500	0.07792	529215867	0.010	3.89780	15.00000	Linear	
22 Methoxychlor	338596124	342258320	342258320	0.010	1.08158	15.00000	Averaged	
51 Mirex	579546048	555539760	555539760	0.010	-4.14226	15.00000	Averaged	
23 Endosulfan sulfate	590452548	596669347	596669347	0.010	1.05289	15.00000	Averaged	
24 Endrin ketone	756334388	769070173	769070173	0.010	1.68388	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 4.76327
Maximum Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

350

Pace Analytical Services, Inc
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 14-AUG-2013 15:26
Lab File ID: 0814011.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST ICV .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m

COMPOUND	RRF / AMOUNT	RF0.075	CCAL	MIN	MAX	CURVE TYPE
			RRF0.075	RRF	%D / %DRIFT	
2 Alpha-BHC	2.099e+09	2.238e+09	2.238e+09	0.010	6.62881	Averaged
4 Gamma-BHC	1.968e+09	2.023e+09	2.023e+09	0.010	2.81230	Averaged
5 Beta-BHC	843612501	817293973	817293973	0.010	-3.11974	Averaged
6 Delta-BHC	1.885e+09	1.990e+09	1.990e+09	0.010	5.54982	Averaged
7 Heptachlor	1.930e+09	1.961e+09	1.961e+09	0.010	1.58568	Averaged
8 Aldrin	1.894e+09	1.914e+09	1.914e+09	0.010	1.03562	Averaged
10 Heptachlor Epoxide	1.710e+09	1.706e+09	1.706e+09	0.010	-0.27051	Averaged
12 Gamma-chlordane	1.909e+09	1.839e+09	1.839e+09	0.010	-3.67474	Averaged
13 Alpha-chlordane	1.724e+09	1.721e+09	1.721e+09	0.010	-0.19422	Averaged
14 Endosulfan I	1.435e+09	1.437e+09	1.437e+09	0.010	0.18930	Averaged
15 4,4'-DDE	1.474e+09	1.526e+09	1.526e+09	0.010	3.53699	Averaged
16 Dieldrin	1.621e+09	1.653e+09	1.653e+09	0.010	1.96971	Averaged
17 Endrin	1.504e+09	1.523e+09	1.523e+09	0.010	1.27119	Averaged
18 4,4'-DDD	1.318e+09	1.336e+09	1.336e+09	0.010	1.36991	Averaged
19 Endosulfan II	1.418e+09	1.419e+09	1.419e+09	0.010	0.02033	Averaged
20 4,4'-DDT	1.168e+09	1.227e+09	1.227e+09	0.010	4.99238	Averaged
21 Endrin aldehyde	0.07500	0.07905	1.047e+09	0.010	5.39842	Linear
22 Endosulfan sulfate	1.215e+09	1.217e+09	1.217e+09	0.010	0.09740	Averaged
23 Methoxychlor	625139254	635570560	635570560	0.010	1.66864	Averaged
40 Mirex	1.034e+09	990735307	990735307	0.010	-4.14308	Averaged
24 Endrin ketone	1.382e+09	1.405e+09	1.405e+09	0.010	1.65941	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.43753
Maximum Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.



Document Name: SW-846 8081A and 8082
Checklist
Document No.:
F-FL-O-198 rev.01

Document Revised: July 10, 2012
Page 1 of 3
Issuing Authority:
Pace Florida Quality Office

SW-846 8081A and 8082 Semivolatile Data Checklist

Analytical Method

Instrument ID: **35GCSJ**
Run Set Up by: **JLG**

08/14/13
JLG

SW-846 8081A/8082
Matrix: Water (608)

Instrument Setup/Run Parameters a

Prep Batch/HBN #	13826	138370	
Analytical Batch/HBN #	9243	137746	

Standard Traceability

Standards	Trace Number	0	Concentration
All Calibration Standards	See Injection Log for Standards with Trace Number Ids and Expiration Dates.		
ICV Standards	See Injection Log for Standards with Trace Number Ids and Expiration Dates.		
Performance Check (PC)	See Injection Log for Standards with Trace Number Ids and Expiration Dates.		
Continuing Calibration Verifications (CCV)	See Injection Log for Standards with Trace Number Ids and Expiration Dates.		

☒ YES ☐ NO

Initial Calibration (ICAL) - within criteria, verified by a peer and/or included in this package for review. If using a previous curve, include reference to approval.

ICAL ID:

pest_130814.m

Date Created:

08/14/13

☒ YES ☐ NO

Initial Calibration Verification (ICV) - Was the ICV performed after the calibration? Percent Drift $\pm 15\%$.

Exceptions/Comments:

Continuing Calibration Verification (CCV/CCAL) - Was CCV ran every 12 hours or every 10 samples during run? True Value $\pm 15\%$. Correct ICAL associated with CCALs? If CCAL criteria were not met, list outliers, explain why samples were analyzed and impact on reported results. Also, corrective actions taken to bring into compliance.

☒ YES ☐ NO

Exceptions/Comments:

Hold Time - Were samples prepared and analyzed within method required holding times? 7 days for waters and 14 days for soils. If not, explain and list affected samples:

☒ YES ☐ NO

Comments:

☒ YES ☐ NO

Performance Check - Was the check performed at the beginning of a run and within QC limits?

Comments:

☒ YES ☐ NO

Method Blank (MB) - Prior to sample analysis, was Method Blank (MB) prepared and analyzed with associated samples? >>Were all target analytes at or below the reporting limits? >>>If not, were samples reanalyzed, reprepared or qualified accordingly?

Comments:

☒ YES ☐ NO

Laboratory Control Sample (LCS) - Percent recovery of each compound in the LCS within in-house control limits? If not, were samples reanalyzed, reprepared or qualified accordingly?

Comments:

☒ YES ☐ NO

Matrix Spike/Matrix Spike Duplicate (MS/MSD) - performed with every 20 samples? Were percent recoveries and RPDs within in-house control limits? If not, list the compounds, corrective action and discuss impact on data with appropriate qualifiers?

Comments:

☐ YES ☒ NO

Surrogates Spikes (SS) - Percent recovery of each surrogate compounds within in-house control limits? If surrogate outside limits, was sample reanalyzed? List outliers, any corrective action and discuss impact on data

Comments: 694209/10, 35103494001, 35103511001, 35103494002: Re-extraction or re-analysis could not be performed due to insufficient sample amount.
Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

☒ YES ☐ NO

Manual Integrations performed?

If so, then are ALL Manual Integrations identified with the reason for the integration according to the following:

NI: not Integrated by software

GT: too much area, i.e. Peak tailing

CO: coeluting peaks had to be split

RT: retention time shifted from expected

NC: not confirmed

LT: too little area, i.e. Peak area was cut

BA: baseline had to be adjusted by analyst

WP: wrong peak chosen i.e. misidentified by computer

INT: electronic interference, i.e. Noise

Manual integration in some data files (BA)

Additional comments: **Toxaphene, Chlordane, Appendix II CCVs for pattern recognition only**

"To the best of my knowledge all of the above information is correct and all supporting documentation has been provided."

ANALYST: JLG

DATE:

08/16/13

REVIEWER:

DATE:

		Document Name: SW-846 8081A and 8082		Document Revised: July 10, 2012	
		Checklist		Page 3 of 3	
		Document No.: F-FL-O-198 rev.01		Issuing Authority: Pace Florida Quality Office	
Calibrations	Parameter	Frequency	Criteria	Comments/Corrective Action	
Calibration Curve Fit	Average Response Factor		%RSD $\leq$ 30%	If not met, try linear regression fit	
	Linear Regression		$r \geq 0.99$	If not met, try non-linear regression fit	
	Quadratic Fit		COD ≥ 0.99	If not met, evaluate system per notes below and/or remake standards and recalibrate.	
	NOTES: Injector port maintenance, remaking calibration standards, cleaning the MS source, and changing the column are all possible resolutions				
Performance Check		Run after the ICB and 4,4'-DDT and Endrin before the analysis of any Breakdown >15% QC or samples every 10 samples.		Perform maintenance; rerun all samples for Pesticide and Total Chlordane. Samples can be reported for Toxaphene and all PCBs.	
Initial Calibration Blank (ICB)		Beginning of run and Target analytes should be every 12 hours during run. less than MDL			
Initial Calibration Verification (ICV) - Second Source	all compounds per Table 3 in SOP, Cal point 3	After every calibration and the beginning of every run	% Diff $\pm$ 15%	If ICV exceeds maximum criteria BDL samples may be reported. Remaking/Rerunning the ICV or recalibrating are possible resolutions.	
Continuing Calibration Verification (CCV)	all compounds	Beginning of run and every 10 samples or every 12 hours of the run and end of analytical sequence	True value $\pm$ 15%	Only 2 injections of a CCV are permitted. If both fail, the analysis must be terminated.	
	Surrogates	Per Sample	in-house control limits		
Extracted Reporting Limit Verification Std (RLS)	All analytes	Per Run	True value $\pm$ 50%, all peaks must be present if exceeds this criteria.	must have all peaks present to report. Recoveries outside of criteria must be noted, but do not fail the run.	
QA Sample	Components	Frequency	Acceptance Criteria	Corrective Action	
Method Blank (MB)	Reagent water	One (1) per batch of up to 20 samples	Target analytes should be less than MDL.	Reanalyze and/or Reprepate batch of samples with new MB unless they meet exceptions below: Exceptions: 1) If sample ND, report sample without qualification 2) If sample result >10x MB detects and sample cannot be reanalyzed, report sample with appropriate qualifier indicating blank contamination. 3) If sample result <10x MB detects, report sample with appropriate qualifier to indicate an estimated value. Client must be alerted and authorize this condition.	
Laboratory Control Sample (LCS)	Full Target List compounds	One (1) per batch of up to 20 samples	In-house generated control limits.	1) Reanalyze and/or Reprepate batch of samples with new LCS 2) If problem persists, check spike solution Exceptions: 1) If LCS rec > QC limits and these compounds are non detect in the associated samples, the sample data may be reported with appropriate data qualifiers.	
Matrix Spike (MS)	Full Target List compounds	One (1) per batch of up to 20 samples,	In-house generated control limits.	1) If LCS and MBs are acceptable, the MS/MSD chromatogram should be reviewed and it may be reported with appropriate footnote indicating matrix interferences	
MSD / Duplicate	MS Duplicate	One (1) per batch of up to 20 samples,	In-house generated control limits.	1) Report results with an appropriate footnote.	

Pace Analytical Services, Inc

Column #1 : //35wintarget\chem\35gcsj.i\130814.b\0814067.D
Column #2 : \\35wintarget\chem\35gcsj.i\130814.b\0814067.D\0814067.D
Inj Date : 14-AUG-2013 17:20
Sample Info: 694209,9243
Misc Info : 9243
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m
Method #2 : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m
Sub List #1 : PestM1.sub.sub
Sub List #2 : PestM1.sub.sub
Col #1 Phase: Rtx-CPesticide 1
Col #2 Phase: Rtx-CPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Reep1	Resp2	Concl	On-Col	Concl	On-Col	Concl	Final	Concl	Final	Concl	RptCol	Ratio
4,4'-DDE	6.295	7.649	18094969	31431142	0.02494	0.02132	0.02494	0.02132	0.02132	0.02132	0.02132	0.02132	0.02132	Col 2	15.6
Endosulfen sulfate	9.009	10.431	24344181	50273054	0.04122	0.04136	0.04122	0.04136	0.04136	0.04136	0.04136	0.04136	0.04136	Col 2	0.33
Methoxychlor	8.538	11.161	12369553	23103173	0.03653	0.03695	0.03653	0.03695	0.03695	0.03695	0.03695	0.03695	0.03695	Col 2	1.14
Endrin aldehyde	8.153	9.785	19473900	40581490	0.03788	0.04048	0.03788	0.04048	0.04048	0.04048	0.04048	0.04048	0.04048	Col 2	6.63
Beta-BHC	4.275	5.051	15875428	33126897	0.04299	0.03926	0.04299	0.03926	0.03926	0.03926	0.03926	0.03926	0.03926	Col 2	9.06
Delta-BHC	4.475	5.457	34948529	86274863	0.04430	0.04577	0.04430	0.04577	0.04577	0.04577	0.04577	0.04577	0.04577	Col 2	3.26
Heptachlor	4.723	5.560	28823948	60337755	0.03221	0.03125	0.03221	0.03125	0.03125	0.03125	0.03125	0.03125	0.03125	Col 2	3.02
Aldrin	5.085	6.026	26715407	50051176	0.03090	0.02642	0.03090	0.02642	0.02642	0.02642	0.02642	0.02642	0.02642	Col 2	15.6
Heptachlor Epoxide	5.851	6.865	30154874	64832343	0.03646	0.03790	0.03646	0.03790	0.03790	0.03790	0.03790	0.03790	0.03790	Col 2	3.87

08/14/13

Gamma-chlordane	6.018	7.151	25930571	56752771	0.03014	0.02972	0.03014	0.02972	Col 2	1.40
Alpha-chlordane	6.198	7.392	26953677	49905921	0.03149	0.02895	0.03149	0.02895	Col 2	8.40
Endrin ketone	9.594	11.810	31428928	56207265	0.04155	0.04065	0.04155	0.04065	Col 2	2.18
Endosulfan I	6.391	7.504	26971422	52506878	0.03872	0.03660	0.03872	0.0366	Col 2	5.62
Dielsdrin	6.730	7.997	27875709	57412683	0.03618	0.03542	0.03618	0.03542	Col 2	2.12
Endrin	7.070	8.606	28558678	55429909	0.03846	0.03684	0.03846	0.03684	Col 2	4.30
4,4'-DDD	7.164	8.785	18543549	39740771	0.03003	0.03016	0.03003	0.03016	Col 2	0.43
Endosulfan II	7.418	9.040	27443068	56000154	0.04015	0.03948	0.04015	0.03948	Col 2	1.68
4,4'-DDT	7.623	9.471	15984235	31687166	0.02790	0.02712	0.027	0.02712	Col 2	0.44
Alpha-BHC	3.862	4.517	35586820	84573773	0.03882	0.04028	0.03882	0.04028	Col 2	3.69
Gamma-BHC	4.190	4.965	35698604	77376285	0.04203	0.03932	0.04203	0.03932	Col 2	6.66
Mirex	8.788	11.683	10931487	19600516	0.01886	0.01896	0.01886	0.01896	Col 2	0.52
Tetrachloro-m-xylene	3.324	3.813	19598704	42452279	0.03431	0.03267	0.03431	0.03267	Col 2	4.89
Decachlorobiphenyl	12.117	15.380	13492859	18280449	0.01741	0.01776	0.01741	0.01776	Col 2	1.99

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Data File

Injection Date

Client ID

Lab ID

Column Phase

(1) //35Wintarget/chem/35GCSJ.1/130814.b/0814067.D

14-AUG-2013 17:20

694209

Rtx-CLPesticide 1

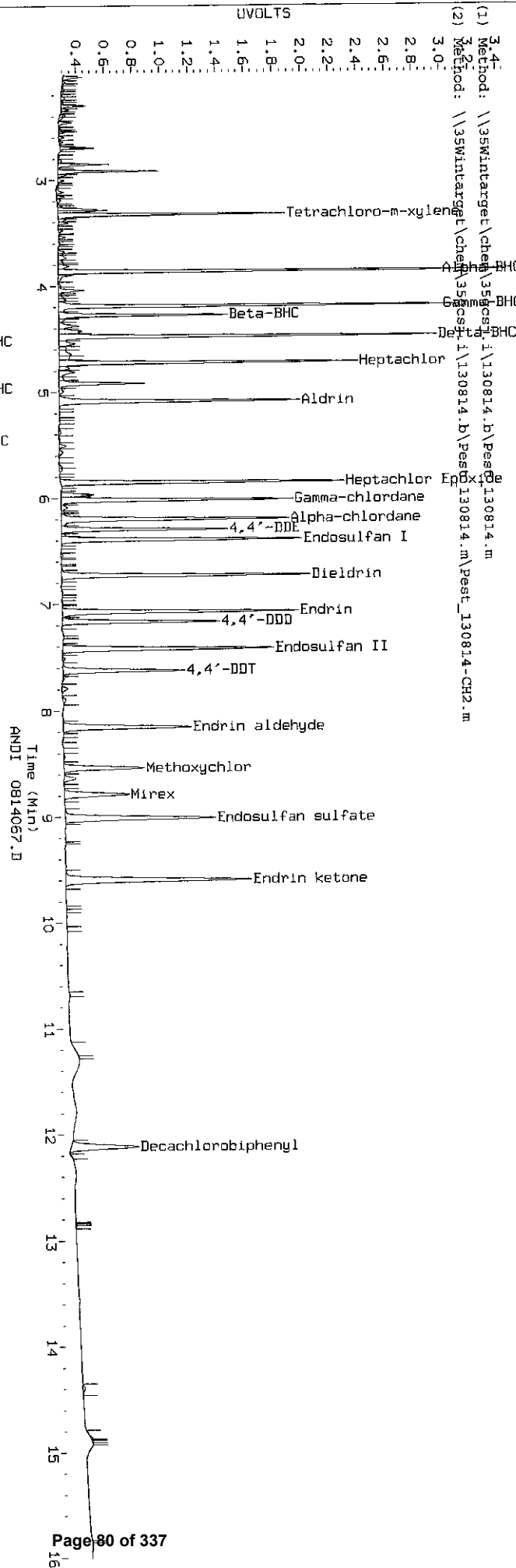
(2) //35Wintarget/chem/35GCSJ.1/130814.b/0814067.D.14-AUG-2013.17:20

ANDI 0814067.D

694209

Rtx-CLPesticide 1

(1) Method: //35Wintarget/chem/35GCSJ.1/130814.b/Pest_130814.m
(2) Method: //35Wintarget/chem/35GCSJ.1/130814.b/Pest_130814.m/pest_130814-CH2.m



Pace Analytical Services, Inc

Column #1 : //35Wintarget\chem\35gcsj.i\130814.b\0814068.D
Column #2 : \\35Wintarget\chem\35gcsj.i\130814.b\0814068.D\0814068.D
Inj Date : 14-AUG-2013 17:39
Sample Info: 694210,9243
Misc Info : 9243
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m
Sub List #1 : PestM1.sub.sub
Sub List #2 : PestM1.sub.sub
Col #1 Phase: Rtx-CLPesticide 1
Col #2 Phase: Rtx-CLPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RTL	RT2	Resp1	Resp2	On-Col Concl	On-Col Conc2	Final Concl	Final Conc2	RptCol	Ratio
4,4'-DDE	6.295	7.649	20771067	42809059	0.02863	0.02910	0.02863	0.0291	Col 2	1.62
Endosulfan sulfate	9.008	10.431	24851061	51107230	0.04208	0.04204	0.04208	0.04204	Col 2	0.09
Methoxychlor	8.536	11.162	13577152	24698094	0.04009	0.03950	0.04009	0.0395	Col 2	1.48
Endrin aldehyde	8.152	9.786	19558947	40751832	0.03805	0.04065	0.03805	0.04065	Col 2	6.60
Beta-BHC	4.275	5.051	14622216	34835713	0.03960	0.04129	0.0396	0.04129	Col 2	4.17
Delta-BHC	4.475	5.457	34016457	92093057	0.04312	0.04885	0.04312	0.04885	Col 2	12.4
Heptachlor	4.723	5.559	28344351	63027881	0.03167	0.03264	0.03167	0.03264	Col 2	3.01
Aldrin	5.085	6.026	29346077	53007946	0.03394	0.02798	0.03394	0.02798	Col 2	19.2
Heptachlor Epoxide	5.851	6.865	31740635	67866677	0.03838	0.03968	0.03838	0.03968	Col 2	3.33

WJG
08/16/13

Gamma-chlordane	6.017	7.151	27900474	61041961	0.03243	0.03196	0.03243	0.03196	Col 2	1.45
Alpha-chlordane	6.198	7.391	28781244	54479750	0.03360	0.03160	0.0336	0.0316	Col 2	6.13
Endrin ketone	9.594	11.808	32714582	57787308	0.04325	0.04180	0.04325	0.0418	Col 2	3.40
Endosulfan I	6.391	7.503	27771722	56664118	0.03987	0.03949	0.03987	0.03949	Col 2	0.95
Diieldrin	6.730	7.997	29223284	60674801	0.03793	0.03743	0.03793	0.03743	Col 2	1.32
Endrin	7.070	8.605	29842897	58558855	0.04019	0.03893	0.04019	0.03893	Col 2	3.18
4,4'-DDD	7.164	8.785	20141404	44001508	0.03262	0.03339	0.03262	0.03339	Col 2	2.33
Endosulfan II	7.418	9.039	28173091	58641512	0.04122	0.04134	0.04122	0.04134	Col 2	0.29
4,4'-DDT	7.621	9.470	18492550	36338253	0.03124	0.03110	0.03124	0.0311	Col 2	0.44
Alpha-BHC	3.862	4.517	33427313	79097311	0.03647	0.03768	0.03647	0.03768	Col 2	3.26
Gamma-BHC	4.189	4.965	33625416	76789847	0.03959	0.03902	0.03959	0.03902	Col 2	1.45
Mirex	8.786	11.683	13952013	24414670	0.02407	0.02362	0.02407	0.02362	Col 2	1.88
Tetrachloro-m-xylene	3.324	3.813	18132995	39924751	0.03175	0.03072	0.03175	0.03072	Col 2	3.29
Decachlorobiphenyl	12.115	15.380	16529662	23316567	0.02133	0.02265	0.02133	0.02265	Col 2	6.00

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

08/15/2013 15:14

Data File

Injection Date

Client ID

Lab ID

Column Phase

(1) //35Wintarget/chem/35gcsj.i/130814.b/0814068.D

14-AUG-2013 17:39

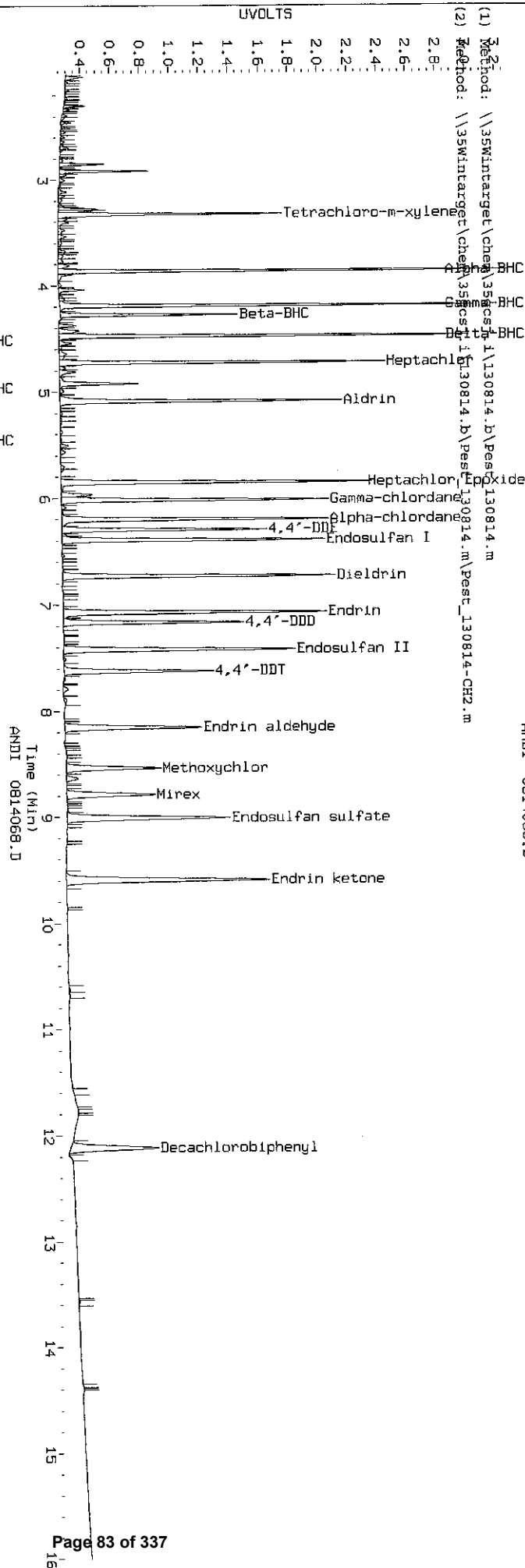
694210

Rx-CUPesticide 1

(2) //35Wintarget/chem/35gcsj.i/130814.b/0814068.D/0814068.D.14-AUG-2013.17.39

ANDI 0814068.D

Rx-CUPesticide 1

(1) Method: //35Wintarget/chem/35gcsj.i/130814.b/Pest_130814.m
(2) Method: //35Wintarget/chem/35gcsj.i/130814.b/Pest_130814.m/Pest_130814-CH2.m

Pace Analytical Services, Inc

Column #1 : //35wintarget\chem\35gcsj.i\130814.b\0814065.d
Column #2 : \\35wintarget\chem\35gcsj.i\130814.b\0814065.D\0814065.D
Inj Date : 14-AUG-2013 18:54
Sample Info: 693699,9243
Misc Info : 9243
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m
Method #2 : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m
Sub List #1 : PestMI.sub.sub
Sub List #2 : PestMI.sub.sub
Col #1 Phase: Rtx-CLPesticide 1
Col #2 Phase: Rtx-CLPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Resp1	Resp2	On-Col	On-Col	Final	Final	RptCol	Ratio
4,4'-DDE	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endosulfan sulfate	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Methoxychlor	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endrin aldehyde	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Beta-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Delta-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Heptachlor	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Aldrin	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Heptachlor Epoxide	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A

08/16/13
JLG

Gamma-chlordane	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Alpha-chlordane	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endrin ketone	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endosulfan I	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Dieldrin	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endrin	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
4,4'-DDD	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endosulfan II	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
4,4'-DDT	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Alpha-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Gamma-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Mirex	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Tetrachloro-m-xylene	3.323	3.813	20166531	48323931	0.03531	0.03719	0.03531	0.03719	Col 2	5.18
Decachlorobiphenyl	12.117	15.380	28218373	38712384	0.03642	0.03761	0.03642	0.03761	Col 2	3.21

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Data File

Injection Date

Client ID

Lab ID

Column Phase

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693699

Rtx-CLPesticide 1

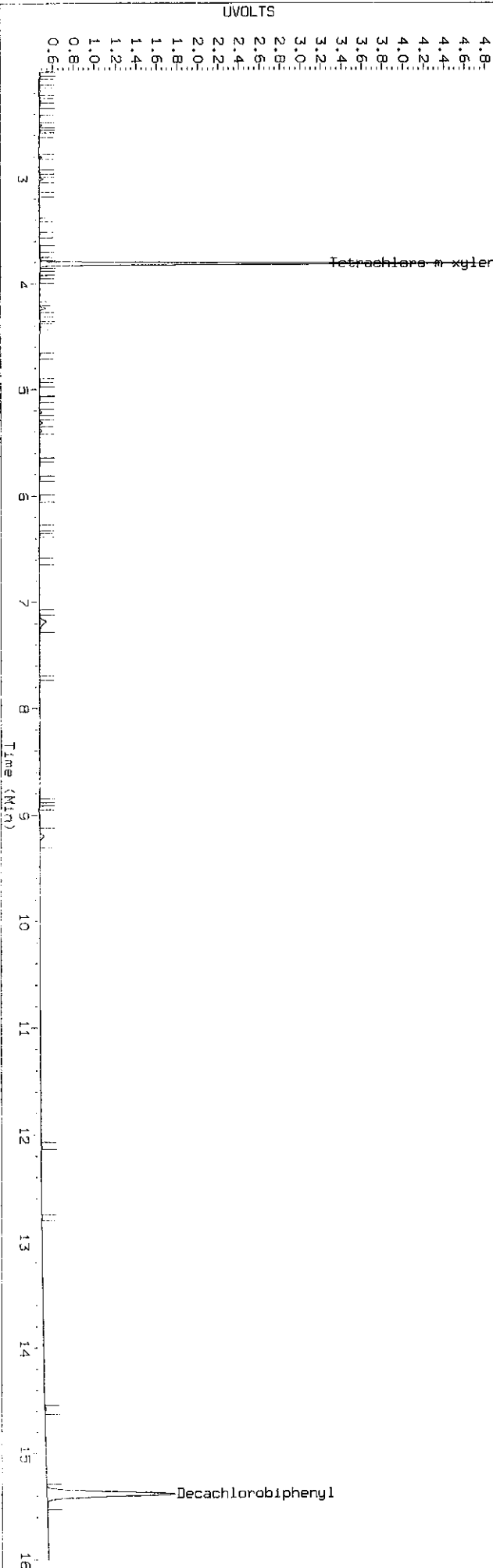
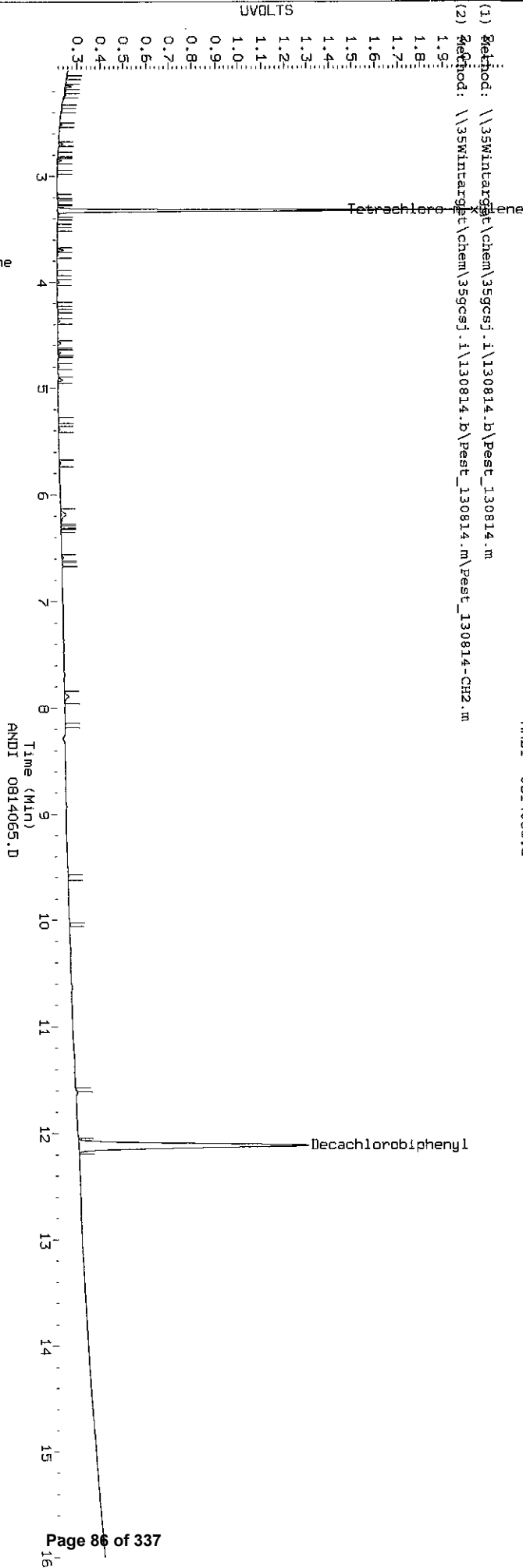
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ANDI 0814065.d 693692

Rtx-CLPesticide 1

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(2) Method: \\35wintarget\chem\35gcsj.i\130814.b\pest_130814.m\pest_130814-CH2.m



Pace Analytical Services, Inc

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Sample Info: 693700,9243
Misc Info : 9243
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m
Method #2 : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m
Sub List #1 : PestM1.sub.sub
Sub List #2 : PestM1.sub.sub
Col #1 Phase: Rcx-CLPesticide 1
Col #2 Phase: Rcx-CLPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RTL	RT2	Respl	Resp2	Concl	On-Col	Conc2	Final	Final	RptCol	Ratio
4,4'-DDE	6.294	7.648	2977726	60766178	0.04104	0.04121	0.04104	0.04121	0.0437	Col 2	0.41
Endosulfan sulfate	9.008	10.431	25779147	53120949	0.04365	0.04370	0.04365	0.0437	0.04715	Col 2	0.11
Methoxychlor	8.536	11.161	15620491	29476686	0.04613	0.04715	0.04613	0.04715	0.04455	Col 2	2.18
Endrin aldehyde	8.151	9.785	22220862	44591217	0.04332	0.04455	0.04332	0.04455	0.04013	Col 2	2.79
Beta-BHC	4.273	5.051	15390246	33857657	0.04168	0.04013	0.04168	0.04013	0.04229	Col 2	3.78
Delta-BHC	4.474	5.457	33786276	79718582	0.04283	0.04229	0.04283	0.04229	0.03785	Col 2	1.26
Heptachlor	4.722	5.559	33609469	73077993	0.03756	0.03785	0.03756	0.03785	0.03509	Col 2	0.76
Aldrin	5.083	6.026	30451435	66467988	0.03522	0.03509	0.03522	0.03509	0.03509	Col 2	0.36
Heptachlor Epoxide	5.850	6.865	33649410	70231616	0.04069	0.04106	0.04069	0.04106	0.04106	Col 2	0.90

13081413

Gamma-chlordane	6.017	7.151	32380093	68969286	0.03764	0.03612	0.03764	0.03612	Col 2	4.12
Alpha-chlordane	6.198	7.390	32198364	65096248	0.03755	0.03776	0.03755	0.03776	Col 2	0.55
Endrin ketone	9.592	11.808	33462670	60888372	0.04424	0.04404	0.04424	0.04404	Col 2	0.45
Endosulfan I	6.392	7.502	29887201	61655436	0.04291	0.04297	0.04291	0.04297	Col 2	0.13
Dieldrin	6.729	7.997	31900345	67125173	0.04141	0.04141	0.04141	0.04141	Col 2	0
Endrin	7.069	8.605	31539844	63541989	0.04247	0.04224	0.04247	0.04224	Col 2	0.54
4,4'-DDD	7.163	8.785	25429265	54300440	0.04119	0.04121	0.04119	0.04121	Col 2	0.04
Endosulfan II	7.417	9.038	29648253	61329152	0.04338	0.04324	0.04338	0.04324	Col 2	0.32
4,4'-DDT	7.620	9.471	26548475	25865114	0.04484	0.02214	0.04484	0.02214	Col 2	67.7
Alpha-BHC	3.862	4.516	37924155	84545983	0.04137	0.04027	0.04137	0.04027	Col 2	2.69
Gamma-BHC	4.188	4.964	35428644	81424860	0.04172	0.04138	0.04172	0.04138	Col 2	0.81
Mirex	8.786	11.683	22544071	40460512	0.03889	0.03914	0.03889	0.03914	Col 2	0.64
Tetrachloro-m-xylene	3.323	3.813	17681509	41809183	0.03096	0.03217	0.03096	0.03217	Col 2	3.83
Decachlorobiphenyl	12.117	15.378	26604616	36688436	0.03434	0.03565	0.03434	0.03565	Col 2	3.74

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

08/15/2013 15:15

Data File

Injection Date

Client ID

Lab ID

Column Phase

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14-AUG-2013 18:16

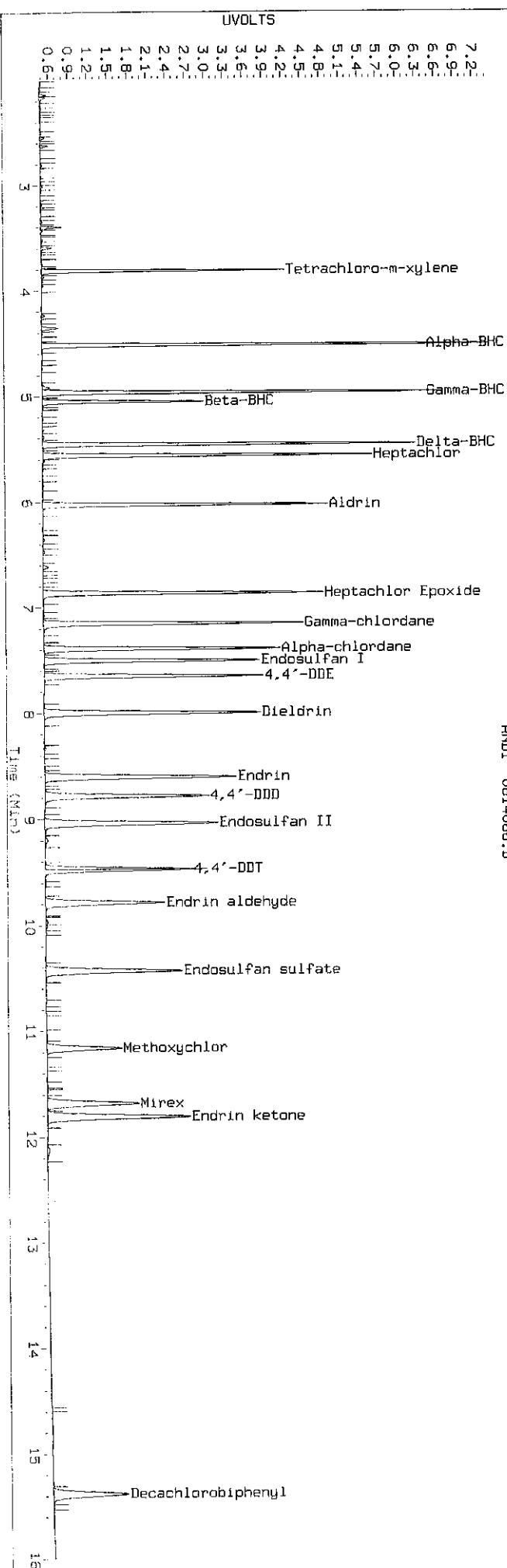
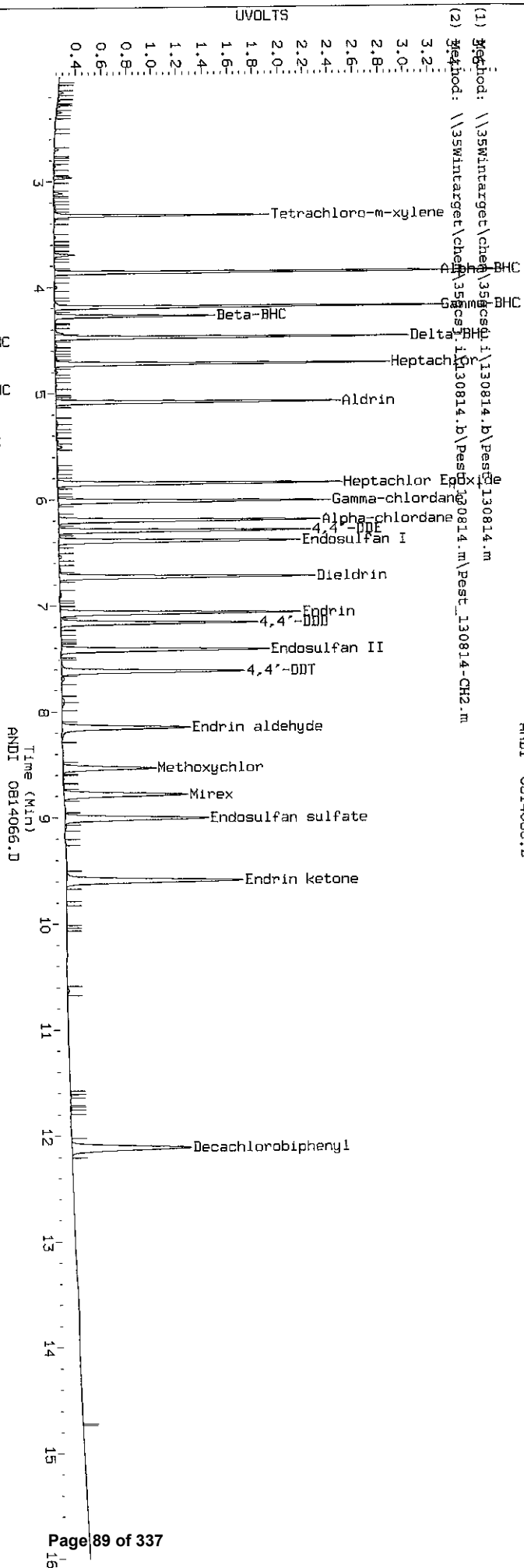
693700

Rtx-CPesticide 1

(2) //35Wintarget/chem/35gcsj.1/130814.b/0814066.D/0814066.D 14-AUG-2013 18:16

ANDI 0814066.D

Rtx-CPesticide 1



Face Analytical Services, Inc

Column #1 : //35wintarget\chem\35gcsj.i\130814.b\0814028.D
Column #2 : \\35wintarget\chem\35gcsj.i\130814.b\0814028.D\0814028.D
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Sample Info: PEST CCV 5 .075
Misc Info :
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35wintarget\chem\35gcsj.i\130814.b\0814028.D
Method #2 : \\35wintarget\chem\35gcsj.i\130814.b\0814028.D\0814028.D
Sub List #1 : Pestm1.sub.sub
Sub List #2 : Pestm1.sub.sub
Col #1 Phase: Rtx-CLPesticide 1
Col #2 Phase: Rtx-CLPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Resp1	Resp2	Conc1	Conc2	Final Conc1	Final Conc2	RptCol	Ratio
4,4'-DDE	6.296	7.649	57708636	116816910	0.07955	0.07923	0.07955	0.07923	Col 2	0.40
Endosulfan sulfate	9.009	10.431	43197465	89077680	0.07315	0.07328	0.07315	0.07328	Col 2	0.17
Methoxychlor	8.538	11.163	24765416	46821697	0.07314	0.07489	0.07314	0.07489	Col 2	2.36
Endrin aldehyde	8.153	9.786	38120598	76210402	0.07481	0.07669	0.07481	0.07669	Col 2	2.48
Beta-BHC	4.274	5.052	26998975	62727419	0.07312	0.07435	0.07312	0.07435	Col 2	1.66
Delta-BHC	4.475	5.457	65284120	150019726	0.08276	0.07958	0.08276	0.07958	Col 2	3.91
Heptachlor	4.723	5.560	72024099	151646230	0.08049	0.07855	0.08049	0.07855	Col 2	2.43
Aldrin	5.083	6.027	70460913	147843642	0.08151	0.07805	0.08151	0.07805	Col 2	4.33
Heptachlor Epoxide	5.851	6.865	64877817	131105334	0.07845	0.07665	0.07845	0.07665	Col 2	2.32

64877817
081273

Gamma-chlordane	6.017	7.152	68227151	140177798	0.07932	0.07341	0.07932	0.07341	Col 2	7.73
Alpha-chlordane	6.198	7.391	66021467	131548992	0.07660	0.07631	0.0766	0.07631	Col 2	0.37
Endrin ketone	9.593	11.809	55525685	102645052	0.07341	0.07424	0.07341	0.07424	Col 2	1.12
Endosulfan I	6.392	7.503	54135480	109661872	0.07773	0.07644	0.07773	0.07644	Col 2	1.67
Diieldrin	6.731	7.997	61771450	126893793	0.08019	0.07829	0.08019	0.07829	Col 2	2.39
Endrin	7.070	8.605	58975799	115393614	0.07942	0.07671	0.07942	0.07671	Col 2	3.47
4,4'-DDD	7.164	8.786	48869713	98602486	0.07916	0.07483	0.07916	0.07483	Col 2	5.62
Endosulfan II	7.418	9.040	51340707	103540006	0.07512	0.07300	0.07512	0.073	Col 2	2.86
4,4'-DDT	7.621	9.472	48395165	92649229	0.08175	0.07930	0.08175	0.0793	Col 2	3.04
Alpha-BHC	3.863	4.517	77177872	173813117	0.08420	0.08280	0.0842	0.0828	Col 2	1.67
Gamma-BHC	4.189	4.964	70319337	157170263	0.08280	0.07987	0.0828	0.07987	Col 2	3.60
Mirex	8.786	11.683	40310630	72439356	0.06955	0.07008	0.06955	0.07008	Col 2	0.75
Tetrachloro-m-xylene	3.323	3.813	41623193	98973691	0.07288	0.07617	0.07288	0.07617	Col 2	4.41
Decachlorobiphenyl	12.118	15.380	53915805	72643210	0.06960	0.07058	0.0696	0.07058	Col 2	1.39

QC Flag Legend

B = Blank interference

J = Below limit of Quantitation

E = Above Max amount

08/15/2013 08:47

Data File

Injection Date

Client ID

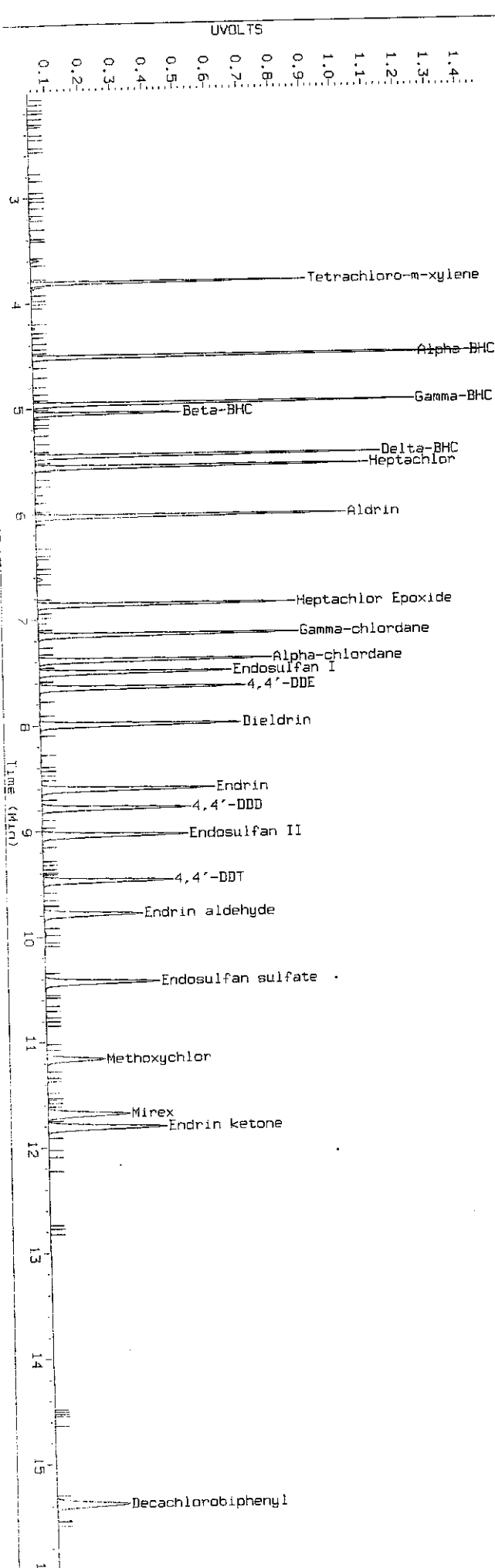
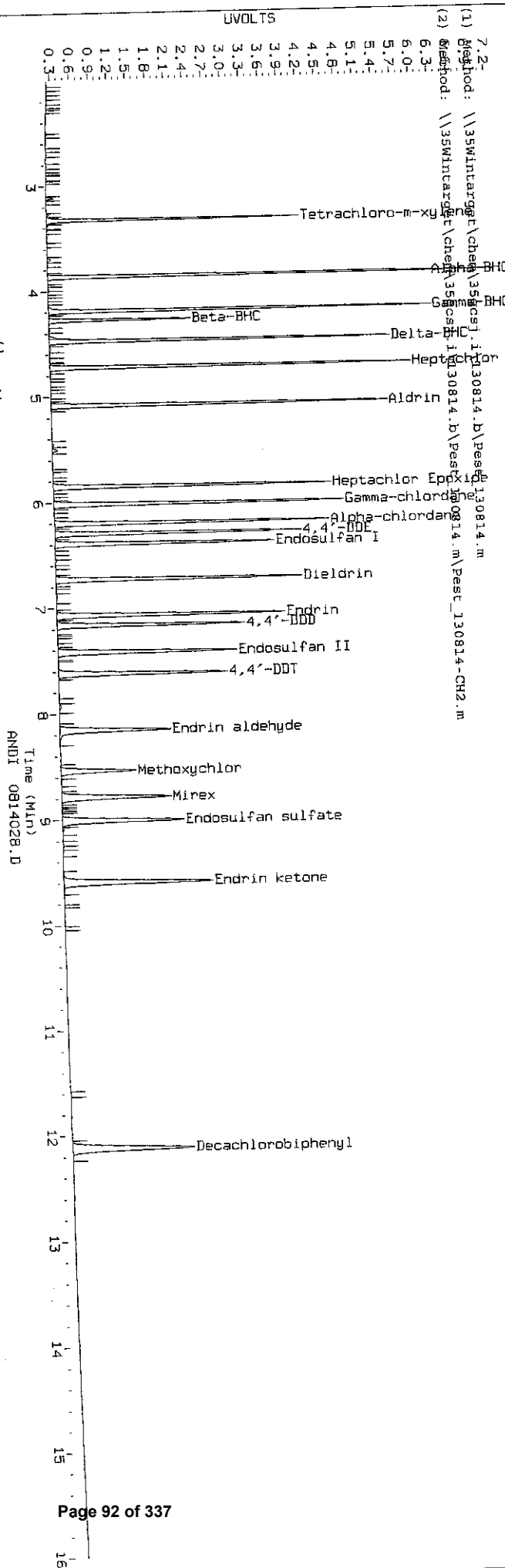
Lab ID

Column Phase

PEST CCV 5.075 Rtx-CPesticide 1

PEST CCV 5.075 Rtx-CPesticide 1

(1) //35Wintarget/chem/35gcsj.i/130814.b/0814028.D 14-AUG-2013 19:13
(2) //35Wintarget/chem/35gcsj.i/130814.b/0814028.D 14-AUG-2013 19:13
ANDI 0814028.D



Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 14-AUG-2013 19:13
Lab File ID: 0814028.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST CCV 5 .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m

COMPOUND	RRF / AMOUNT	RF0.075	CCAL RRF0.075	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Tetrachloro-m-xylene	571065634	554975907	554975907	0.010	-2.81749	15.00000	Averaged
25 Decachlorobiphenyl	774607151	718877400	718877400	0.010	-7.19458	15.00000	Averaged
2 Alpha-BHC	916545336	1.029e+09	1.029e+09	0.010	12.27358	15.00000	Averaged
3 Gamma-BHC	849180819	937591160	937591160	0.010	10.41125	15.00000	Averaged
5 Beta-BHC	369212121	359986333	359986333	0.010	-2.49878	15.00000	Averaged
6 Delta-BHC	788781642	870454933	870454933	0.010	10.35436	15.00000	Averaged
7 Heptachlor	894810724	960321320	960321320	0.010	7.32117	15.00000	Averaged
8 Aldrin	864423408	939478840	939478840	0.010	8.68272	15.00000	Averaged
10 Heptachlor Epoxide	826890702	865037560	865037560	0.010	4.61329	15.00000	Averaged
11 Gamma-chlordane	860080824	909695347	909695347	0.010	5.76859	15.00000	Averaged
12 Alpha-chlordane	0.07500	0.07661	880286227	0.010	2.14474	15.00000	Linear
13 4,4'-DDE	725405326	769448480	769448480	0.010	6.07152	15.00000	Averaged
14 Endosulfan I	696423528	721806400	721806400	0.010	3.64475	15.00000	Averaged
15 Dieldrin	770286144	823619333	823619333	0.010	6.92382	15.00000	Averaged
16 Endrin	742528451	786343987	786343987	0.010	5.90086	15.00000	Averaged
17 4,4'-DDD	617338256	651596173	651596173	0.010	5.54929	15.00000	Averaged
19 Endosulfan II	683402026	684542760	684542760	0.010	0.16692	15.00000	Averaged
20 4,4'-DDT	591940144	645268867	645268867	0.010	9.00914	15.00000	Averaged
21 Endrin aldehyde	0.07500	0.07481	508279973	0.010	-0.24797	15.00000	Linear
22 Methoxychlor	338596124	330205547	330205547	0.010	-2.47805	15.00000	Averaged
51 Mirex	579546048	537475067	537475067	0.010	-7.25930	15.00000	Averaged
23 Endosulfan sulfate	590452548	575966200	575966200	0.010	-2.45343	15.00000	Averaged
24 Endrin ketone	756334388	740342467	740342467	0.010	-2.11440	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.47391
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Handwritten signature/initials

Pace Analytical Services, Inc
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 14-AUG-2013 19:13
Lab File ID: 0814028.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST CCV 5 .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m

COMPOUND	RRF / AMOUNT	RF0.075	CCAL	MIN	MAX	
			RRF0.075	RRF	%D / %DRIFT	%D / %DRIFT
\$ 1 Tetrachloro-m-xylene	1.299e+09	1.320e+09	1.320e+09	0.010	1.56880	15.00000
\$ 25 Decachlorobiphenyl	1.029e+09	968576133	968576133	0.010	-5.88349	15.00000
2 Alpha-BHC	2.099e+09	2.318e+09	2.318e+09	0.010	10.40216	15.00000
4 Gamma-BHC	1.968e+09	2.096e+09	2.096e+09	0.010	6.50291	15.00000
5 Beta-BHC	843612501	836365587	836365587	0.010	-0.85903	15.00000
6 Delta-BHC	1.885e+09	2.000e+09	2.000e+09	0.010	6.11938	15.00000
7 Heptachlor	1.930e+09	2.022e+09	2.022e+09	0.010	4.73966	15.00000
8 Aldrin	1.894e+09	1.971e+09	1.971e+09	0.010	4.07847	15.00000
10 Heptachlor Epoxide	1.710e+09	1.748e+09	1.748e+09	0.010	2.21111	15.00000
12 Gamma-chlordane	1.909e+09	1.869e+09	1.869e+09	0.010	-2.11302	15.00000
13 Alpha-chlordane	1.724e+09	1.754e+09	1.754e+09	0.010	1.74731	15.00000
14 Endosulfan I	1.435e+09	1.462e+09	1.462e+09	0.010	1.92533	15.00000
15 4,4'-DDE	1.474e+09	1.558e+09	1.558e+09	0.010	5.65049	15.00000
16 Dieldrin	1.621e+09	1.692e+09	1.692e+09	0.010	4.39354	15.00000
17 Endrin	1.504e+09	1.539e+09	1.539e+09	0.010	2.28523	15.00000
18 4,4'-DDD	1.318e+09	1.315e+09	1.315e+09	0.010	-0.22131	15.00000
19 Endosulfan II	1.418e+09	1.381e+09	1.381e+09	0.010	-2.66199	15.00000
20 4,4'-DDT	1.168e+09	1.235e+09	1.235e+09	0.010	5.74138	15.00000
21 Endrin aldehyde	0.07500	0.07670	1.016e+09	0.010	2.26352	15.00000
22 Endosulfan sulfate	1.215e+09	1.188e+09	1.188e+09	0.010	-2.28047	15.00000
23 Methoxychlor	625139254	624289293	624289293	0.010	-0.13596	15.00000
40 Mirex	1.034e+09	965858080	965858080	0.010	-6.55003	15.00000
24 Endrin ketone	1.382e+09	1.369e+09	1.369e+09	0.010	-1.00136	15.00000

Average %D / Drift Results.

Calculated Average %D/Drift = 3.53635

Maximum Average %D/Drift = 15.00000

* Passed Average %D/Drift Test.

Pace Analytical Services, Inc

Column #1 : //35wintarget\chem\35gcsj.i\130814.b\0814029.D
Column #2 : \\35wintarget\chem\35gcsj.i\130814.b\0814029.D\0814029.D
Inj Date : 14-AUG-2013 19:32
Sample Info: PEST CCV 4 .050
Misc Info :
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35wintarget\chem\35gcsj.i\130814.b\PEst_130814.m
Method #2 : \\35wintarget\chem\35gcsj.i\130814.b\PEst_130814.m\PEst_130814-CH2.m
Sub List #1 : PestMI.sub.sub
Sub List #2 : PestMI.sub.sub
Col #1 Phase: Rtx-CLPesticide 1
Col #2 Phase: Rtx-CLPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Resp1	Resp2	On-Col Conc1	On-Col Conc2	Final Conc1	Final Conc2	RptCol	Ratio
4,4'-DDE	6.295	7.650	40318785	82364403	0.05558	0.05586	0.05558	0.05586	Col 2	0.50
Endosulfan sulfate	9.010	10.432	30636079	64128475	0.05188	0.05276	0.05188	0.05276	Col 2	1.68
Methoxychlor	8.538	11.162	17861636	33905594	0.05275	0.05423	0.05275	0.05423	Col 2	2.76
Endrin aldehyde	8.154	9.787	27478048	55314804	0.05373	0.05545	0.05373	0.05545	Col 2	3.15
Beta-BHC	4.275	5.052	19178302	45070737	0.05194	0.05342	0.05194	0.05342	Col 2	2.80
Delta-BHC	4.475	5.457	45260575	106316524	0.05738	0.05640	0.05738	0.05640	Col 2	1.72
Heptachlor	4.722	5.560	50012144	107211457	0.05589	0.05553	0.05589	0.05553	Col 2	0.64
Aldrin	5.084	6.027	48928897	104358803	0.05660	0.05509	0.05660	0.05509	Col 2	2.70
Heptachlor Epoxide	5.851	6.866	45382529	92790896	0.05488	0.05425	0.05488	0.05425	Col 2	1.15

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thlordane	6.018	7.152	47650636	99339622	0.05540	0.05202	0.0554	0.05202	Col 2	6.29
thlordane	6.198	7.392	46600744	93383206	0.05418	0.05417	0.05418	0.05417	Col 2	0.01
ketone	9.595	11.809	40137604	74246330	0.05306	0.05370	0.05306	0.0537	Col 2	1.19
ketone	6.392	7.504	38082768	77969974	0.05468	0.05435	0.05468	0.05435	Col 2	0.60
ketone	6.730	7.999	43201942	89840868	0.05608	0.05543	0.05608	0.05543	Col 2	1.16
ketone	7.070	8.607	41245234	83076911	0.05554	0.05522	0.05554	0.05522	Col 2	0.57
ketone	7.165	8.786	34289483	71847082	0.05554	0.05452	0.05554	0.05452	Col 2	1.85
ketone	7.419	9.040	36595241	75984069	0.05354	0.05357	0.05354	0.05357	Col 2	0.05
ketone	7.622	9.472	33736948	65492281	0.05699	0.05606	0.05699	0.05606	Col 2	1.64
ketone	3.862	4.517	53116433	122101280	0.05795	0.05816	0.05795	0.05816	Col 2	0.36
ketone	4.189	4.965	48567211	110856295	0.05719	0.05633	0.05719	0.05633	Col 2	1.51
ketone	8.787	11.685	29574251	53008684	0.05103	0.05128	0.05103	0.05128	Col 2	0.48
ketone	3.324	3.814	29202221	70353142	0.05113	0.05113	0.05113	0.05113	Col 2	5.71
ketone	12.119	15.380	39486601	54439864	0.05097	0.05289	0.05097	0.05289	Col 2	3.69

Legend
 Link Interference
 Low Limit of Quantitation
 Above Max amount

08/15/2013 08:47

Data File

Injection Date

Client ID

Lab ID

Column Phase

14-AUG-2013 19:32

PEST CCV 4.050

Rtx-CPesticide 1

14-AUG-2013 19:32

PEST CCV 4.050

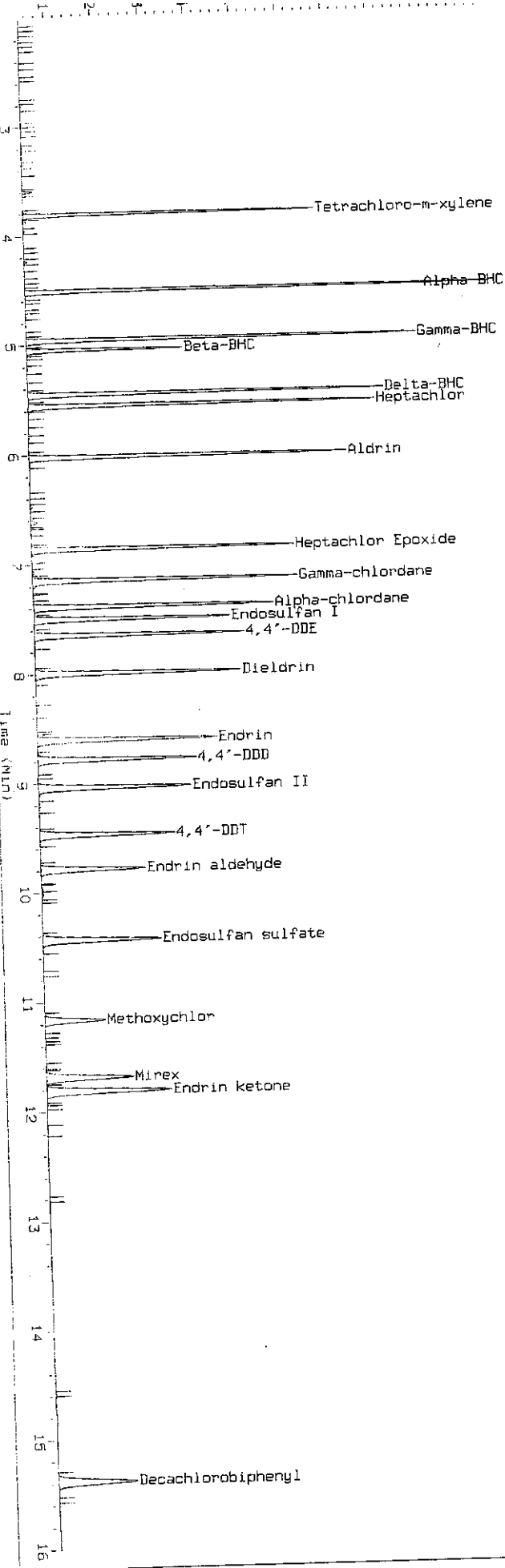
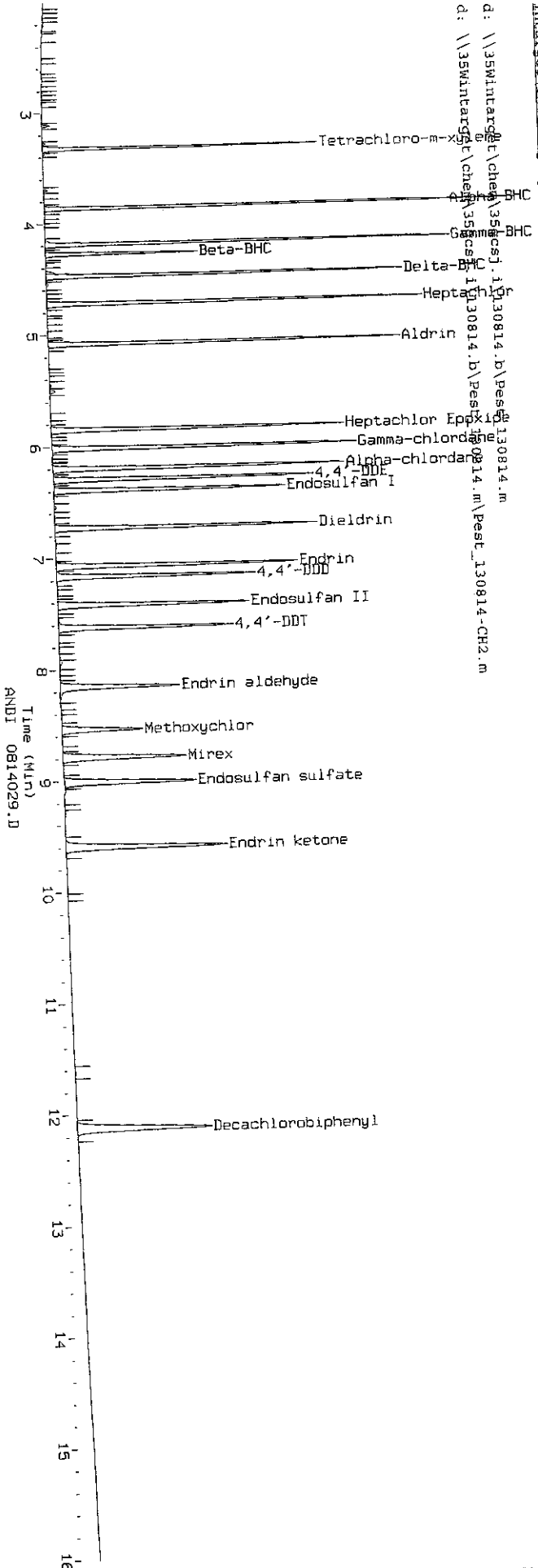
Rtx-CPesticide 1

ANDI 0814029.D

PEST CCV 4.050

Rtx-CPesticide 1

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d: \\35wintarg\chem\35gcsj.1\130814.b\0814029.D\0814029.D 14-AUG-2013 19:32



Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 14-AUG-2013 19:32
Lab File ID: 0814029.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST CCV 4 .050 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m

COMPOUND	RRF / AMOUNT	RF0.050	CCAL	MIN	MAX	CURVE TYPE
\$ 1 Tetrachloro-m-xylene	571065634	584044420	584044420	0.010	2.27273	Averaged
\$ 25 Decachlorobiphenyl	774607151	789732020	789732020	0.010	1.95259	Averaged
2 Alpha-BHC	916545336	1.062e+09	1.062e+09	0.010	15.90574	Averaged
3 Gamma-BHC	849180819	971344220	971344220	0.010	14.38603	Averaged
5 Beta-BHC	369212121	383566040	383566040	0.010	3.88772	Averaged
6 Delta-BHC	788781642	905211500	905211500	0.010	14.76072	Averaged
7 Heptachlor	894810724	1.000e+09	1.000e+09	0.010	11.78262	Averaged
8 Aldrin	864423408	978577940	978577940	0.010	13.20586	Averaged
10 Heptachlor Epoxide	826890702	907650580	907650580	0.010	9.76669	Averaged
11 Gamma-chlordane	860080824	953012720	953012720	0.010	10.80502	Averaged
12 Alpha-chlordane	0.05000	0.05418	932014880	0.010	8.36503	Linear
13 4,4'-DDE	725405326	806375700	806375700	0.010	11.16209	Averaged
14 Endosulfan I	696423528	761655360	761655360	0.010	9.36669	Averaged
15 Dieldrin	770286144	864038840	864038840	0.010	12.17115	Averaged
16 Endrin	742528451	824904680	824904680	0.010	11.09402	Averaged
17 4,4'-DDD	617338256	685789660	685789660	0.010	11.08815	Averaged
19 Endosulfan II	683402026	731904820	731904820	0.010	7.09726	Averaged
20 4,4'-DDT	591940144	674738960	674738960	0.010	13.98770	Averaged
21 Endrin aldehyde	0.05000	0.05374	549560960	0.010	7.47725	Linear
22 Methoxychlor	338596124	357232720	357232720	0.010	5.50408	Averaged
51 Mirex	579546048	591485020	591485020	0.010	2.06006	Averaged
23 Endosulfan sulfate	590452548	612721580	612721580	0.010	3.77152	Averaged
24 Endrin ketone	756334388	802752080	802752080	0.010	6.13719	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.04382
Maximum Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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Pace Analytical Services, Inc
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 14-AUG-2013 19:32
Lab File ID: 0814029.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST CCV 4 .050 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m

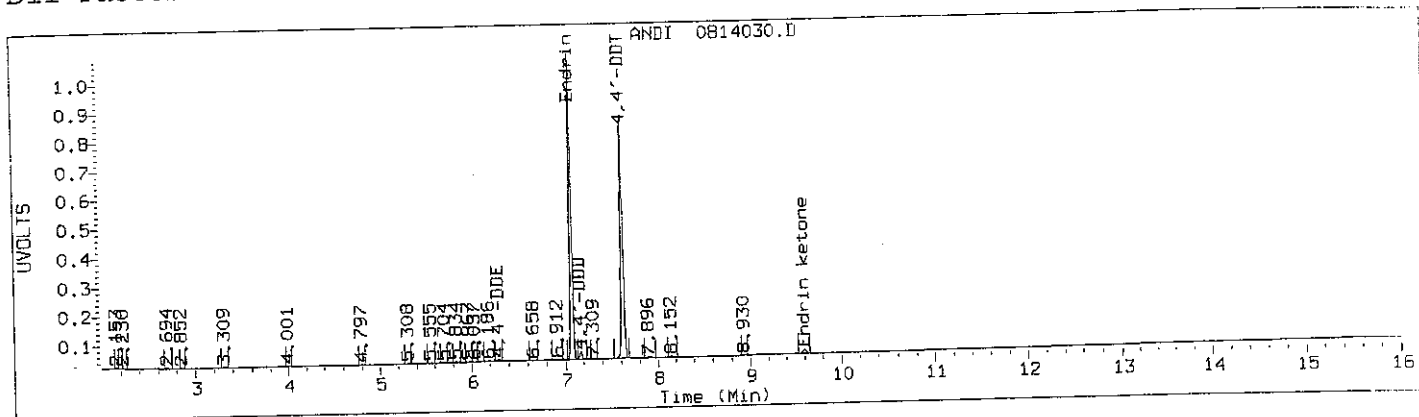
COMPOUND	RRF / AMOUNT	RF0.050	CCAL	MIN	MAX		
			RRF0.050	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
\$ 1 Tetrachloro-m-xylene	1.299e+09	1.407e+09	1.407e+09	0.010	8.29672	15.00000	Averaged
\$ 25 Decachlorobiphenyl	1.029e+09	1.089e+09	1.089e+09	0.010	5.79840	15.00000	Averaged
2 Alpha-BHC	2.099e+09	2.442e+09	2.442e+09	0.010	16.33396	15.00000	Averaged
4 Gamma-BHC	1.968e+09	2.217e+09	2.217e+09	0.010	12.67893	15.00000	Averaged
5 Beta-BHC	843612501	901414740	901414740	0.010	6.85175	15.00000	Averaged
6 Delta-BHC	1.885e+09	2.126e+09	2.126e+09	0.010	12.80760	15.00000	Averaged
7 Heptachlor	1.930e+09	2.144e+09	2.144e+09	0.010	11.07390	15.00000	Averaged
8 Aldrin	1.894e+09	2.087e+09	2.087e+09	0.010	10.19924	15.00000	Averaged
10 Heptachlor Epoxide	1.710e+09	1.856e+09	1.856e+09	0.010	8.51115	15.00000	Averaged
12 Gamma-chlordane	1.909e+09	1.987e+09	1.987e+09	0.010	4.05416	15.00000	Averaged
13 Alpha-chlordane	1.724e+09	1.868e+09	1.868e+09	0.010	8.34165	15.00000	Averaged
14 Endosulfan I	1.435e+09	1.559e+09	1.559e+09	0.010	8.70390	15.00000	Averaged
15 4,4'-DDE	1.474e+09	1.647e+09	1.647e+09	0.010	11.73690	15.00000	Averaged
16 Dieldrin	1.621e+09	1.797e+09	1.797e+09	0.010	10.86601	15.00000	Averaged
17 Endrin	1.504e+09	1.662e+09	1.662e+09	0.010	10.45942	15.00000	Averaged
18 4,4'-DDD	1.318e+09	1.437e+09	1.437e+09	0.010	9.05619	15.00000	Averaged
19 Endosulfan II	1.418e+09	1.520e+09	1.520e+09	0.010	7.14899	15.00000	Averaged
20 4,4'-DDT	1.168e+09	1.310e+09	1.310e+09	0.010	12.12037	15.00000	Averaged
21 Endrin aldehyde	0.05000	0.05546	1.106e+09	0.010	10.91581	15.00000	Linear
22 Endosulfan sulfate	1.215e+09	1.283e+09	1.283e+09	0.010	5.52482	15.00000	Averaged
23 Methoxychlor	625139254	678111880	678111880	0.010	8.47373	15.00000	Averaged
40 Mirex	1.034e+09	1.060e+09	1.060e+09	0.010	2.57531	15.00000	Averaged
24 Endrin ketone	1.382e+09	1.485e+09	1.485e+09	0.010	7.41315	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.12792
Maximum Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

3383

Data File : \\35Wintarget\chem\35gcsj.i\130814.b\0814030.D
Sample ID :
Sample Type: PC
Inj Date : 14-AUG-2013 19:51
Dil Factor : 1.000



DDT Summary

DDT Area = 148484464
DDD Area = 4721291
DDE Area = 845686

DDT Breakdown = Sum of DDE and DDD areas divided by sum of DDE, DDD, and DDT areas

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 3.61 Percent

DDT Breakdown PASSES

Endrin Summary

Endrin Area = 172554806
Endrin Aldehyde Area = 0
Endrin Ketone Area = 3293153

Endrin Breakdown = Sum of Endrin aldehyde and Endrin ketone areas divided by sum of Endrin, Endrin aldehyde, and Endrin ketone areas

Endrin Breakdown Maximum = 15 Percent

Endrin Breakdown = 1.87 Percent

Endrin Breakdown PASSES

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Chromatogram showing UVOLTS (Y-axis, 0.0 to 1.4) versus Time (Min) (X-axis, 3 to 16). The following peaks are identified:

Time (Min)	Peak Label
3.504	ANDI
3.612	Endrin
3.611	4,4'-DDD
5.030	4,4'-DDE
6.712	Endrin aldehyde
7.069	Endrin ketone
7.439	Endrin ketone
8.192	Endrin ketone
8.403	Endrin ketone
8.502	Endrin ketone
9.140	Endrin ketone
9.300	Endrin ketone
9.301	Endrin ketone
9.302	Endrin ketone
9.303	Endrin ketone
9.304	Endrin ketone
9.305	Endrin ketone
9.306	Endrin ketone
9.307	Endrin ketone
9.308	Endrin ketone
9.309	Endrin ketone
9.310	Endrin ketone
9.311	Endrin ketone
9.312	Endrin ketone
9.313	Endrin ketone
9.314	Endrin ketone
9.315	Endrin ketone
9.316	Endrin ketone
9.317	Endrin ketone
9.318	Endrin ketone
9.319	Endrin ketone
9.320	Endrin ketone
9.321	Endrin ketone
9.322	Endrin ketone
9.323	Endrin ketone
9.324	Endrin ketone
9.325	Endrin ketone
9.326	Endrin ketone
9.327	Endrin ketone
9.328	Endrin ketone
9.329	Endrin ketone
9.330	Endrin ketone
9.331	Endrin ketone
9.332	Endrin ketone
9.333	Endrin ketone
9.334	Endrin ketone
9.335	Endrin ketone
9.336	Endrin ketone
9.337	Endrin ketone
9.338	Endrin ketone
9.339	Endrin ketone
9.340	Endrin ketone
9.341	Endrin ketone
9.342	Endrin ketone
9.343	Endrin ketone
9.344	Endrin ketone
9.345	Endrin ketone
9.346	Endrin ketone
9.347	Endrin ketone
9.348	Endrin ketone
9.349	Endrin ketone
9.350	Endrin ketone
9.351	Endrin ketone
9.352	Endrin ketone
9.353	Endrin ketone
9.354	Endrin ketone
9.355	Endrin ketone
9.356	Endrin ketone
9.357	Endrin ketone
9.358	Endrin ketone
9.359	Endrin ketone
9.360	Endrin ketone
9.361	Endrin ketone
9.362	Endrin ketone
9.363	Endrin ketone
9.364	Endrin ketone
9.365	Endrin ketone
9.366	Endrin ketone
9.367	Endrin ketone
9.368	Endrin ketone
9.369	Endrin ketone
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9.378	Endrin ketone
9.379	Endrin ketone
9.380	Endrin ketone
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9.386	Endrin ketone
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9.418	Endrin ketone
9.419	Endrin ketone
9.420	Endrin ketone
9.421	Endrin ketone
9.422	Endrin ketone
9.423	Endrin ketone
9.424	Endrin ketone
9.425	Endrin ketone
9.426	Endrin ketone
9.427	Endrin ketone
9.428	Endrin ketone
9.429	Endrin ketone
9	

DDT Summary

```
DDT Area = 277349406
DDD Area = 10654316
DDE Area = 1863877
```

$$\text{DDT Breakdown} = \frac{\text{Sum of DDE and DDD areas}}{\text{sum of DDE, DDD, and DDT areas}}$$

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 4.32 Percent

DDT Breakdown PASSES

Endrin Summary

```
Endrin Area = 328425343
Endrin Aldehyde Area = 1349193
Endrin Ketone Area = 6363553
```

Endrin Breakdown = Sum of Endrin aldehyde and Endrin ketone areas
divided by sum of Endrin, Endrin aldehyde, and Endrin ketone areas

Endrin Breakdown Maximum = 15 Percent

Endrin Breakdown = 2.29 Percent

Endrin Breakdown PASSES

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Pace Analytical Services, Inc

Column #1 : //35Wintarget\chem\35gcsj.i\130814.b\0814071.d
Column #2 : \\35Wintarget\chem\35gcsj.i\130814.b\0814071.D\0814071.D
Inj Date : 14-AUG-2013 22:59
Sample Info: 35103494002,9243
Misc Info : 9243
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m
Sub List #1 : PestMi.sub.sub
Sub List #2 : PestMi.sub.sub
Col #1 Phase: Rtx-CPesticide 1
Col #2 Phase: Rtx-CPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Respi	Resp2	Concl	On-Col	Conc1	Conc2	Final	Concl	Final	Conc2	RptCol	Ratio
4,4'-DDE	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	ND	ND	Col 2	N/A
Endosulfan sulfate	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	ND	ND	Col 2	N/A
Methoxychlor	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	ND	ND	Col 2	N/A
Endrin aldehyde	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	ND	ND	Col 2	N/A
Beta-BHC	4.280	5.042	452498	643721	0.00122	0.00076	0.00122	0.00076	0.00122	0.00076	0.00076	0.00076	Col 2	46.4
Delta-BHC	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	ND	ND	Col 2	N/A
Heptachlor	4.721	5.551	321580	485078	0.00035	0.00025	0.00035	0.00025	0.00035	0.00025	0.00025	0.00025	Col 2	33.3
Aladin	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	ND	ND	Col 2	N/A
Heptachlor Epoxide	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	ND	ND	Col 2	N/A

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Gamma-chlordane	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Alpha-chlordane	6.192	7.396	1657210	1907916	0.00228	0.00110	0.00228	0.0011	Col 2	69.8
Endrin ketone	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endosulfan I	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Dieldrin	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endrin	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
4,4'-DDD	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endosulfan II	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
4,4'-DDT	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Alpha-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Gamma-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Mirex	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Tetrachloro-m-xylene	3.324	3.814	1459992	29780941	0.02556	0.02292	0.02556	0.02292	Col 2	10.8
Decachlorobiphenyl	12.118	15.382	10291360	15365450	0.01328	0.01493	0.01328	0.01493	Col 2	11.6

QC Flag Legend

B = Blank interference
J = Below Limit of Quantitation
E = Above Max amount

Data File

Injection Date

Client ID

Lab ID

Column Phase

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14-AUG-2013 22:59

35103494002

Rtx-CLPesticide 1

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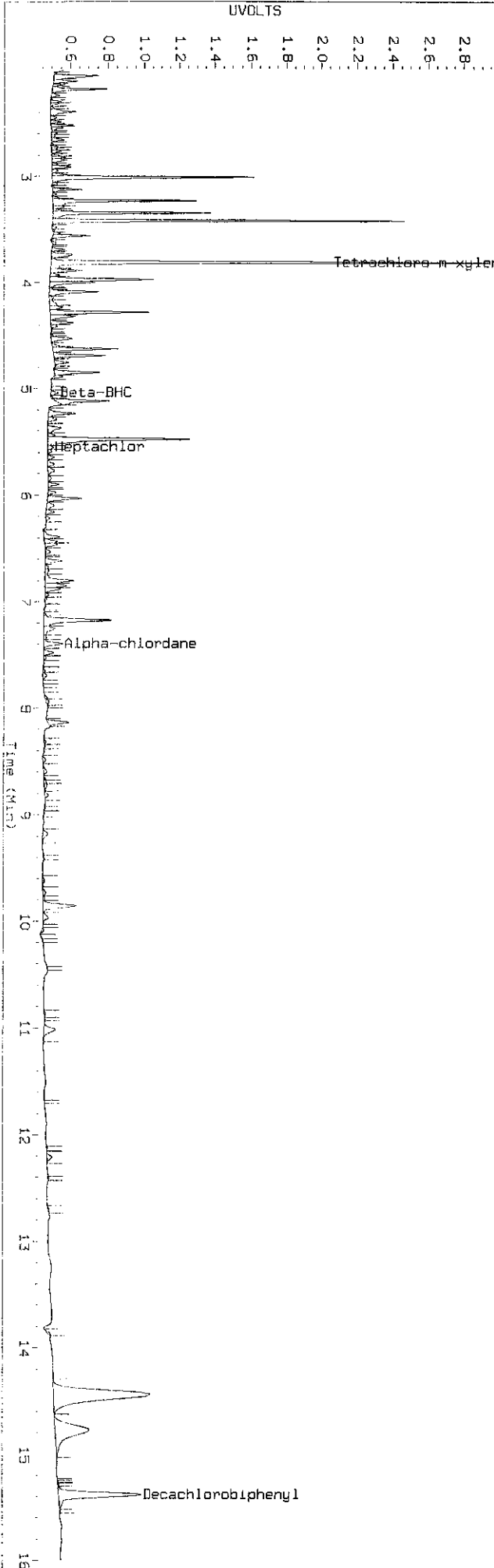
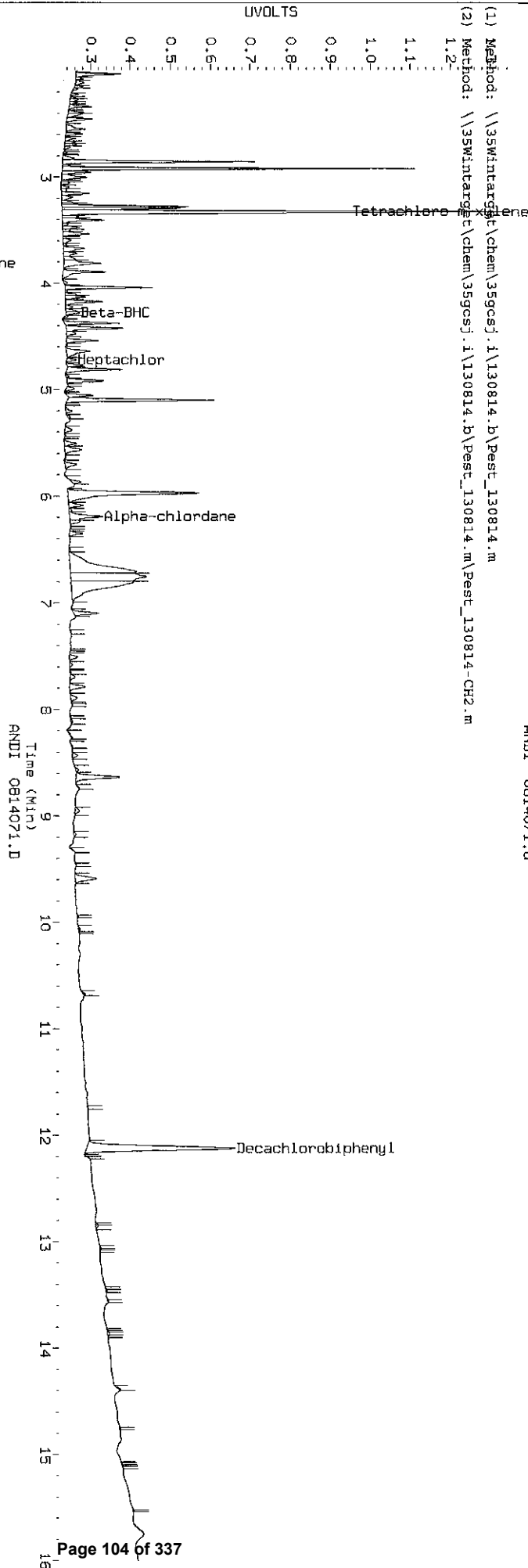
ANDI 0814071.D

35103494002

Rtx-CLPesticide 1

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Sample Info: 35103494001,9243
Misc Info : 9243
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m
Method #2 : \\35wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m
Sub List #1 : PestMl.sub.sub
Sub List #2 : PestMl.sub.sub
Col #1 Phase: Rtx-CPesticicide 1
Col #2 Phase: Rtx-CPesticicide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Resp1	Resp2	On-Col	Concl	On-Col	Concl	Final	Final	RptCol	Ratio
4,4'-DDE	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	Col 2	N/A
Endosulfan sulfate	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	Col 2	N/A
Methoxychlor	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	Col 2	N/A
Endrin aldehyde	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	Col 2	N/A
Beta-BHC	4.280	5.042	599427	720214	0.00162	0.00085	0.00162	0.00085	0.00085	0.00085	Col 2	62.3
Delta-BHC	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	Col 2	N/A
Heptachlor	4.722	5.552	676354	533776	0.00075	0.00027	0.00075	0.00027	0.00027	0.00027	Col 2	94.1
Aldrin	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	Col 2	N/A
Heptachlor Epoxide	0.000	0.000	0	0	ND	ND	ND	ND	ND	ND	Col 2	N/A

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Gamma-chlordane	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Alpha-chlordane	6.190	7.397	1553663	2189747	0.00216	0.00127	0.00216	0.00127	0.00127	Col 2	51.8 (M)
Endrin ketone	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endosulfan I	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Dieldrin	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endrin	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
4,4'-DDD	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Endosulfan II	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
4,4'-DDT	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Alpha-BHC	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Gamma-BHC	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Mirex	0.000	0.000	0	0	ND	ND	ND	ND	ND	Col 2	N/A
Tetrachloro-m-xylene	3.324	3.814	17143189	34619716	0.03001	0.02664	0.03001	0.02664	0.02664	Col 2	11.8
Decachlorobiphenyl	12.119	15.381	9024799	12057974	0.01165	0.01171	0.01165	0.01171	0.01171	Col 2	0.51

QC Flag Legend

B = Blank Interference

J = Below Limit of Quantitation

E = Above Max amount

04/06/13
BWA

Data File

Injection Date

Client ID

Lab ID

Column Phase

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35103494001

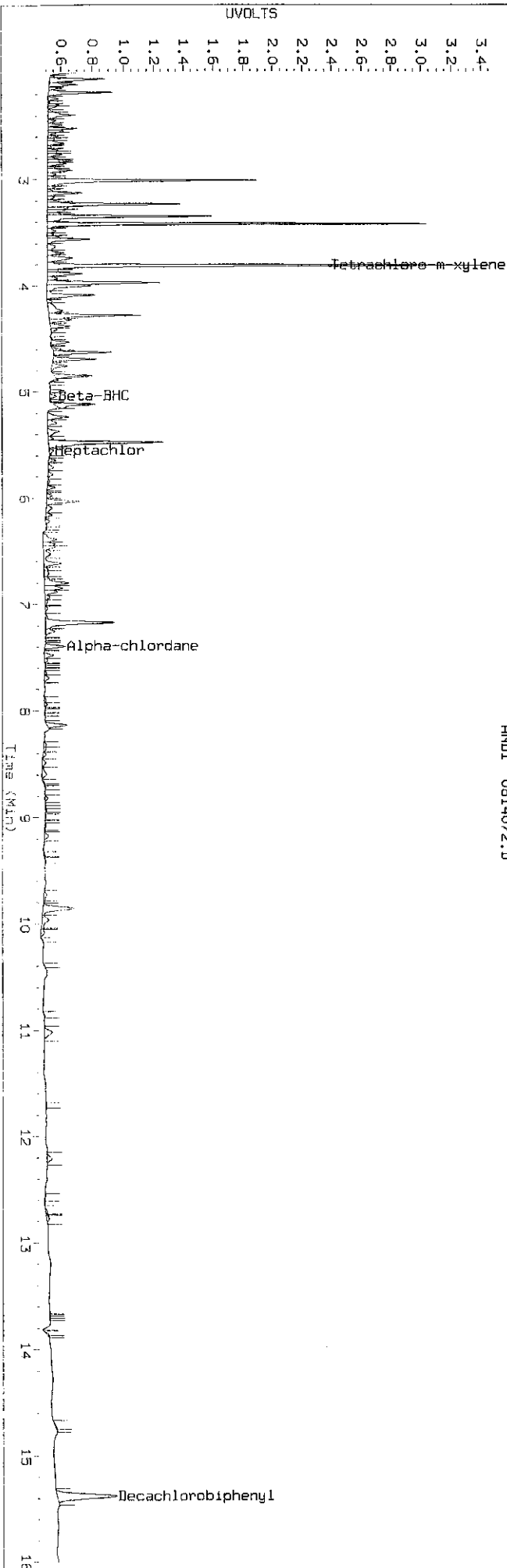
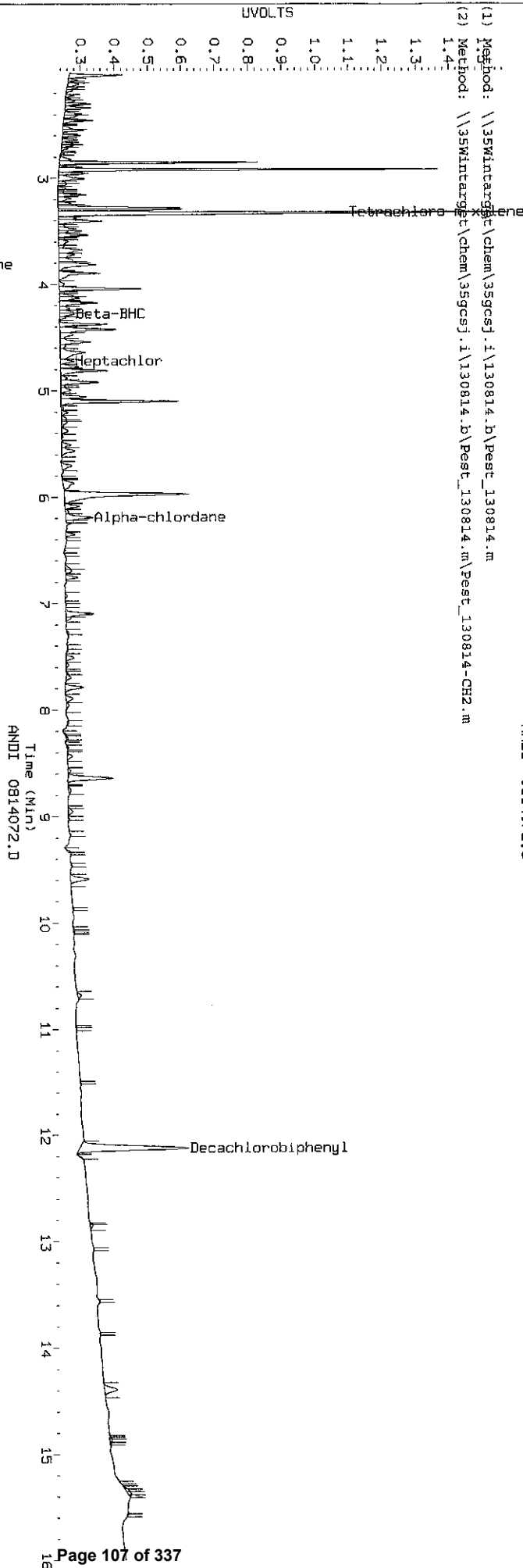
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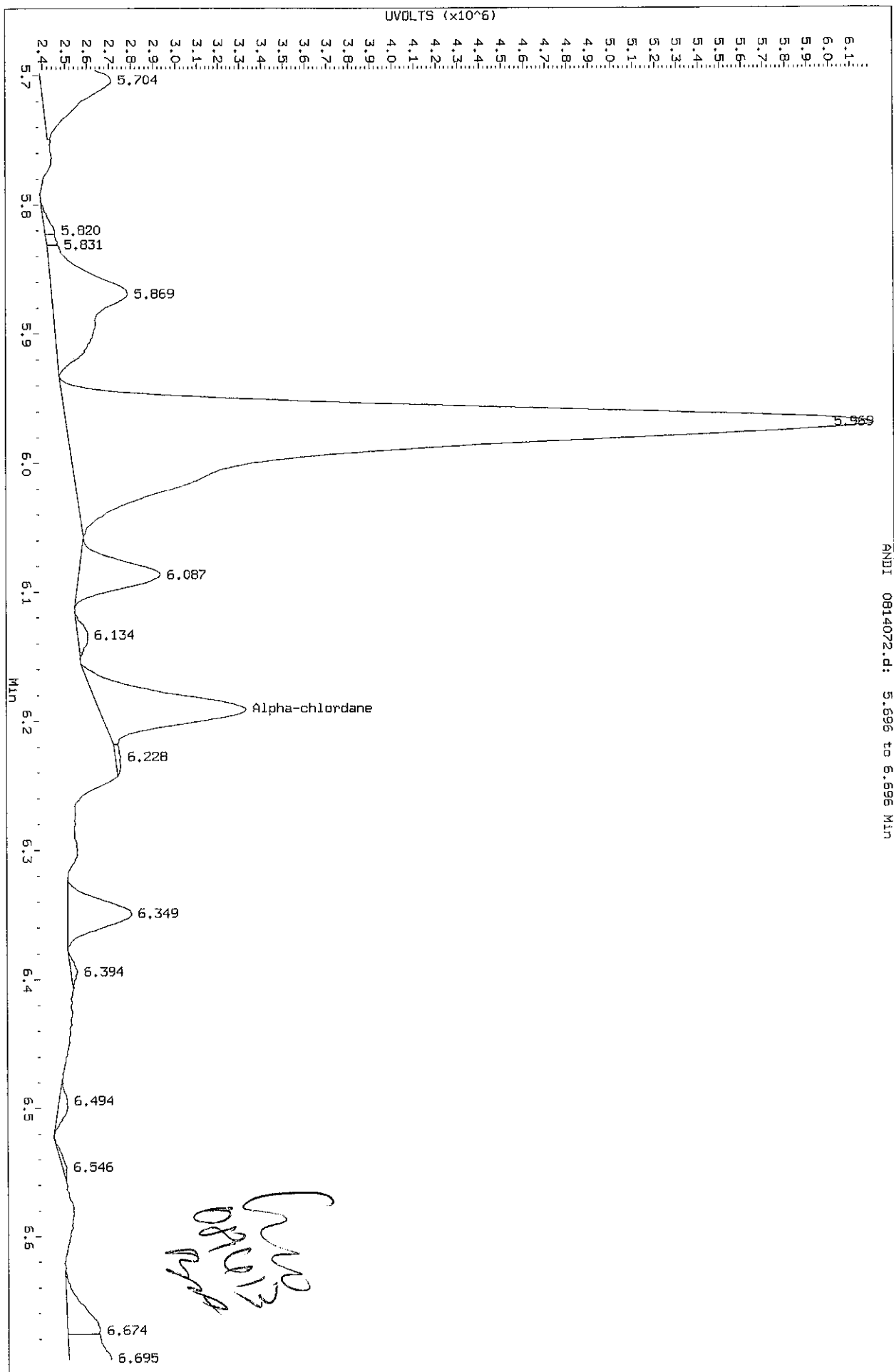
ANDI 0814072.D

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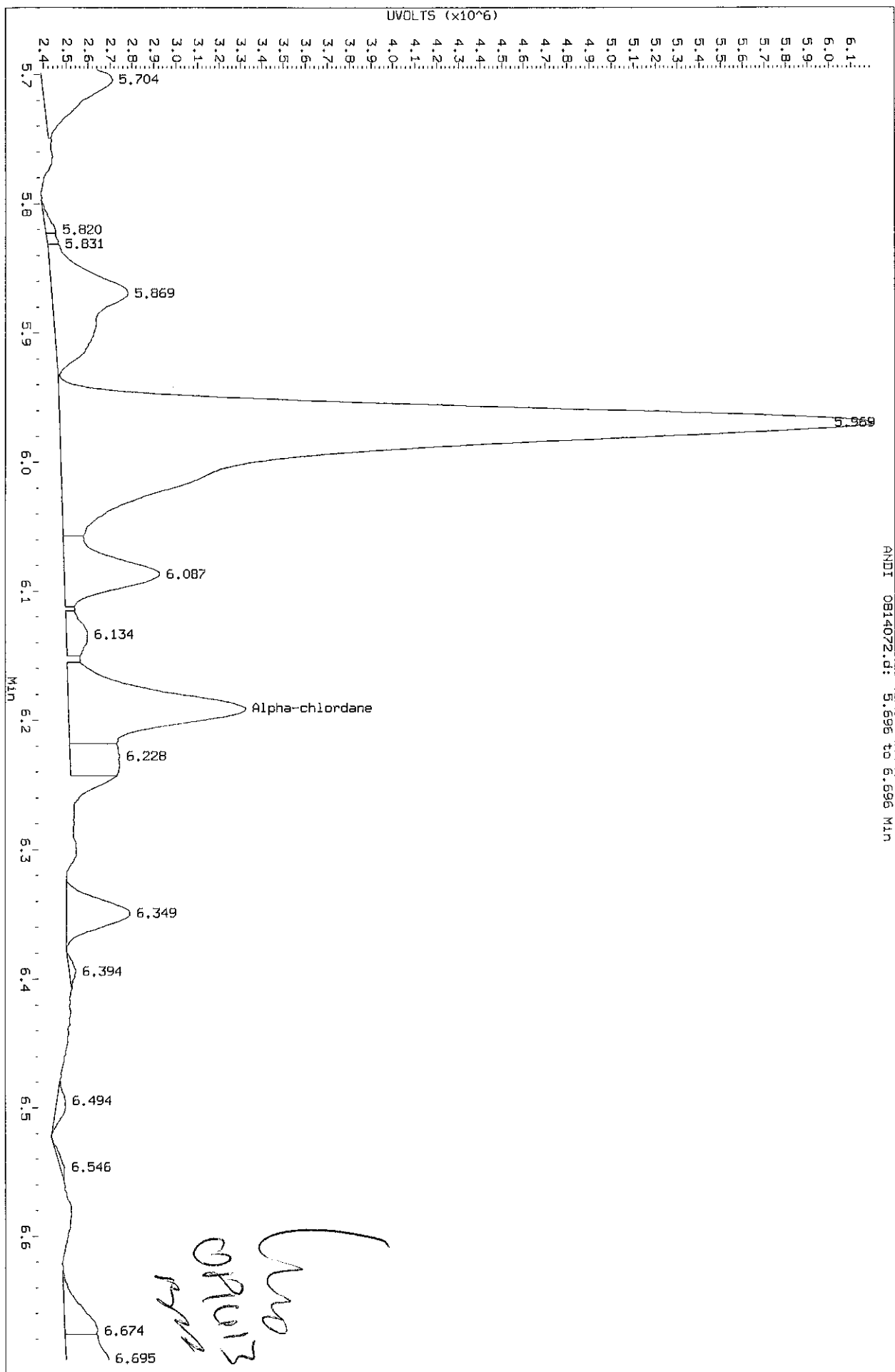
Rtx-CPesticide 1



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Instrument: 356csj.1
Client Sample ID:



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Injection Date: 14-AUG-2013 23:18
Instrument: 35gcsj.1
Client Sample ID:



Pace Analytical Services, Inc

Column #1 : \\35wintarget\chem\35gcsj.i\130814.b\0814054.D
Column #2 : \\35wintarget\chem\35gcsj.i\130814.b\0814054.D\0814054.D
Inj Date : 15-AUG-2013 06:13
Sample Info: PEST CCV 5 .075
Misc Info :
Comment :
Cal Date : 14-AUG-2013 15:07
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35wintarget\chem\35gcsj.i\130814.b\0814054.D
Method #2 : \\35wintarget\chem\35gcsj.i\130814.b\0814054.D\0814054.D
Sub List #1 : Pestmi.sub.sub
Sub List #2 : Pestmi.sub.sub
Col #1 Phase: Rtx-CPesticide 1
Col #2 Phase: Rtx-CPesticide 1

No matrix designated (hence no formula could be determined)

Determine compound hit by indicated determination and CAN be in either column

Compound	RT1	RT2	Resp1	Resp2	Concl	On-Col	Conc2	Final	Concl	Final	RptCol	Ratio
4,4'-DDE	6.296	7.650	59518341	123467750	0.08204	0.08374	0.08204	0.08374	0.08204	0.08374	Col 2	2.05
Endosulfan sulfate	9.010	10.431	43791383	93480085	0.07416	0.07691	0.07416	0.07691	0.07416	0.07691	Col 2	3.64
Methoxychlor	8.537	11.161	23449817	45035656	0.06925	0.07204	0.06925	0.07204	0.06925	0.07204	Col 2	3.94
Endrin aldehyde	8.153	9.786	38657970	79964346	0.07587	0.08051	0.07587	0.08051	0.07587	0.08051	Col 2	5.93
Beta-BHC	4.276	5.052	27514647	65247992	0.07452	0.07734	0.07452	0.07734	0.07452	0.07734	Col 2	3.71
Delta-BHC	4.476	5.457	67410994	158548525	0.08546	0.08411	0.08546	0.08411	0.08546	0.08411	Col 2	1.59
Heptachlor	4.723	5.561	69175979	151263950	0.07730	0.07835	0.07730	0.07835	0.07730	0.07835	Col 2	1.34
Aldrin	5.084	6.026	71417054	155416078	0.08261	0.08205	0.08261	0.08205	0.08261	0.08205	Col 2	0.68
Heptachlor Epoxide	5.851	6.866	66018857	137833382	0.07983	0.08059	0.07983	0.08059	0.07983	0.08059	Col 2	0.94

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Gamma-chlordane	6.018	7.152	69443991	147240466	0.08074	0.07711	0.08074	0.07711	Col 2	4.59
Alpha-chlordane	6.198	7.391	67115260	138337558	0.07787	0.08024	0.07787	0.08024	Col 2	2.99
Endrin ketone	9.594	11.809	56610449	107158448	0.07484	0.07751	0.07484	0.07751	Col 2	3.50
Endosulfan I	6.391	7.504	55081956	115438660	0.07909	0.08047	0.07909	0.08047	Col 2	1.72
Endosulfan II	6.730	7.997	62952023	133313600	0.08172	0.08225	0.08172	0.08225	Col 2	0.64
Endrin	7.070	8.606	59911520	122920651	0.08068	0.08171	0.08068	0.08171	Col 2	1.26
4,4'-DDD	7.165	8.785	51343466	108957012	0.08316	0.08269	0.08316	0.08269	Col 2	0.56
Endosulfan II	7.418	9.039	52024606	109933206	0.07612	0.07751	0.07612	0.07751	Col 2	1.80
4,4'-DDT	7.622	9.471	44644561	89193296	0.07542	0.07634	0.07542	0.07634	Col 2	1.21
Alpha-BHC	3.863	4.517	78424010	175892816	0.08556	0.08379	0.08556	0.08379	Col 2	2.09
Gamma-BHC	4.190	4.966	71279874	164649033	0.08393	0.08367	0.08393	0.08367	Col 2	0.31
Mirex	8.786	11.685	40835849	75310738	0.07046	0.07286	0.07046	0.07286	Col 2	3.34
Tetrachloro-m-xylene	3.324	3.814	42164057	101877482	0.07383	0.07841	0.07383	0.07841	Col 2	6.01
Decachlorobiphenyl	12.117	15.381	52811180	73829086	0.06817	0.07173	0.06817	0.07173	Col 2	5.08

QC Flag Legend

B = Blank interference

J = Below limit of Quantitation

E = Above Max amount

08/15/2013 08:47

Data File

Injection Date

Client ID

Lab ID Column Phase

15-AUG-2013 06:13

PEST CCV 5.075 Rtx-CLPesticide 1

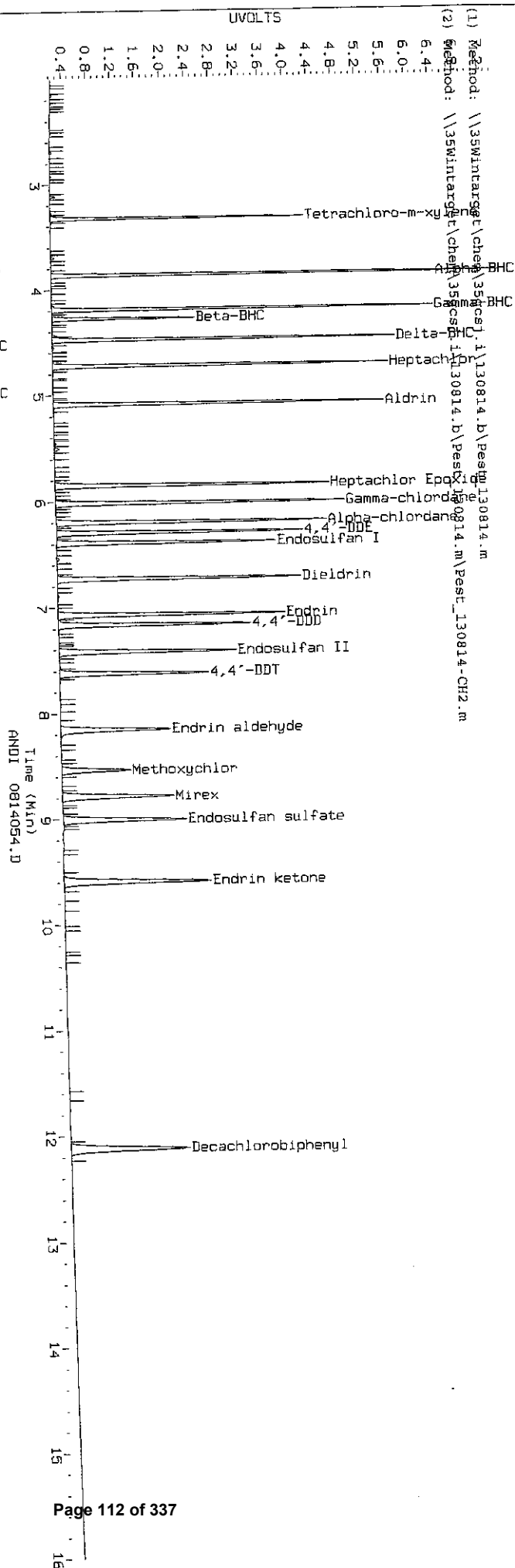
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ANDI 0814054.D

PEST CCV 5.075 Rtx-CLPesticide 1

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Data File: \\35Wintarget\chem\35gcsj.i\130814.b\0814054.D
Report Date: 15-Aug-2013 08:47

Page 1

Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 15-AUG-2013 06:13
Lab File ID: 0814054.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST CCV 5 .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m

COMPOUND	RRF / AMOUNT	RF0.075	CCAL	MIN	MAX		
			RF0.075	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
\$ 1 Tetrachloro-m-xylene	571065634	562187427	562187427	0.010	-1.55467	15.00000	Averaged
\$ 25 Decachlorobiphenyl	774607151	704149067	704149067	0.010	-9.09598	15.00000	Averaged
2 Alpha-BHC	916545336	1.046e+09	1.046e+09	0.010	14.08639	15.00000	Averaged
3 Gamma-BHC	849180819	950398320	950398320	0.010	11.91943	15.00000	Averaged
5 Beta-BHC	369212121	366861960	366861960	0.010	-0.63653	15.00000	Averaged
6 Delta-BHC	788781642	898813253	898813253	0.010	13.94957	15.00000	Averaged
7 Heptachlor	894810724	922346387	922346387	0.010	3.07726	15.00000	Averaged
8 Aldrin	864423408	952227387	952227387	0.010	10.15752	15.00000	Averaged
10 Heptachlor Epoxide	826890702	880251427	880251427	0.010	6.45318	15.00000	Averaged
11 Gamma-chlordane	860080824	925919880	925919880	0.010	7.65498	15.00000	Averaged
12 Alpha-chlordane	0.07500	0.07787	894870133	0.010	3.82881	15.00000	Linear
13 4,4'-DDE	725405326	793577880	793577880	0.010	9.39786	15.00000	Averaged
14 Endosulfan I	696423528	734426080	734426080	0.010	5.45682	15.00000	Averaged
15 Dieldrin	770286144	839360307	839360307	0.010	8.96734	15.00000	Averaged
16 Endrin	742528451	798820267	798820267	0.010	7.58110	15.00000	Averaged
17 4,4'-DDD	617338256	684579547	684579547	0.010	10.89213	15.00000	Averaged
19 Endosulfan II	683402026	693661413	693661413	0.010	1.50122	15.00000	Averaged
20 4,4'-DDT	591940144	595260813	595260813	0.010	0.56098	15.00000	Averaged
21 Endrin aldehyde	0.07500	0.07588	515439600	0.010	1.16980	15.00000	Linear
22 Methoxychlor	338596124	312664227	312664227	0.010	-7.65865	15.00000	Averaged
51 Mirex	579546048	544477987	544477987	0.010	-6.05095	15.00000	Averaged
23 Endosulfan sulfate	590452548	583885107	583885107	0.010	-1.11227	15.00000	Averaged
24 Endrin ketone	756334388	754805987	754805987	0.010	-0.20208	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.21589
Maximum Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

33520

Data File: 0814054.D
Report Date: 15-Aug-2013 08:47

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Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 15-AUG-2013 06:13
Lab File ID: 0814054.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST CCV 5 .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m

COMPOUND	RRF / AMOUNT	RF0.075	CCAL RRF0.075	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Tetrachloro-m-xylene	1.299e+09	1.358e+09	1.358e+09	0.010	4.54873	15.00000	Averaged
25 Decachlorobiphenyl	1.029e+09	984387813	984387813	0.010	-4.34707	15.00000	Averaged
2 Alpha-BHC	2.099e+09	2.345e+09	2.345e+09	0.010	11.72314	15.00000	Averaged
4 Gamma-BHC	1.968e+09	2.195e+09	2.195e+09	0.010	11.57073	15.00000	Averaged
5 Beta-BHC	843612501	869973227	869973227	0.010	3.12474	15.00000	Averaged
6 Delta-BHC	1.885e+09	2.114e+09	2.114e+09	0.010	12.15239	15.00000	Averaged
7 Heptachlor	1.930e+09	2.017e+09	2.017e+09	0.010	4.47563	15.00000	Averaged
8 Aldrin	1.894e+09	2.072e+09	2.072e+09	0.010	9.40929	15.00000	Averaged
10 Heptachlor Epoxide	1.710e+09	1.838e+09	1.838e+09	0.010	7.45637	15.00000	Averaged
12 Gamma-chlordane	1.909e+09	1.963e+09	1.963e+09	0.010	2.81888	15.00000	Averaged
13 Alpha-chlordane	1.724e+09	1.845e+09	1.845e+09	0.010	6.99796	15.00000	Averaged
14 Endosulfan I	1.435e+09	1.539e+09	1.539e+09	0.010	7.29458	15.00000	Averaged
15 4,4'-DDE	1.474e+09	1.646e+09	1.646e+09	0.010	11.66558	15.00000	Averaged
16 Dieldrin	1.621e+09	1.778e+09	1.778e+09	0.010	9.67501	15.00000	Averaged
17 Endrin	1.504e+09	1.639e+09	1.639e+09	0.010	8.95722	15.00000	Averaged
18 4,4'-DDD	1.318e+09	1.453e+09	1.453e+09	0.010	10.25673	15.00000	Averaged
19 Endosulfan II	1.418e+09	1.466e+09	1.466e+09	0.010	3.34826	15.00000	Averaged
20 4,4'-DDT	1.168e+09	1.189e+09	1.189e+09	0.010	1.79709	15.00000	Averaged
21 Endrin aldehyde	0.07500	0.08051	1.066e+09	0.010	7.35121	15.00000	Linear
22 Endosulfan sulfate	1.215e+09	1.246e+09	1.246e+09	0.010	2.54903	15.00000	Averaged
23 Methoxychlor	625139254	600475413	600475413	0.010	-3.94534	15.00000	Averaged
40 Mirex	1.034e+09	1.004e+09	1.004e+09	0.010	-2.84582	15.00000	Averaged
24 Endrin ketone	1.382e+09	1.429e+09	1.429e+09	0.010	3.35170	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.59402
Maximum Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Handwritten signature or initials.

Pace Analytical Services, Inc

#1 : //35Wintarget\chem\35gcsj.i\130814.b\0814055.D
#2 : \\35Wintarget\chem\35gcsj.i\130814.b\0814055.D
e : 15-AUG-2013 06:31
Info: PEST CCV 4 .050
fo :
e : 14-AUG-2013 15:07
r : JLG
 : 35gcsj.i
 : 1.000000

#1 : \\35Wintarget\chem\35gcsj.i\130814.b\pest_130814.m
#2 : \\35Wintarget\chem\35gcsj.i\130814.b\pest_130814.m\pest_130814-CH2.m
st #1 : Pestmi.sub.sub
st #2 : Pestmi.sub.sub
Phase: Rtx-CIPesticide 1
Phase: Rtx-CIPesticide 1

rtix designated (hence no formula could be determined)

line compound hit by indicated determination and CAN be in either column

und	RT1	RT2	Resp1	Resp2	On-Col Concl	On-Col Conc2	Final Concl	Final Conc2	RptCol	Ratio
DDE	6.295	7.649	36957544	78894734	0.05094	0.05351	0.05094	0.05351	Col 2	4.92
ulfen sulfate	9.009	10.432	27374660	59163844	0.04636	0.04867	0.04636	0.04867	Col 2	4.86
xychlor	8.537	11.160	14687456	28716188	0.04337	0.04593	0.04337	0.04593	Col 2	5.73
n aldehyde	8.153	9.786	11870476	51745725	0.02283	0.05183	0.02283	0.05183	Col 2	77.6
BHC	4.275	5.053	17730259	42031879	0.04802	0.04982	0.04802	0.04982	Col 2	3.67
-BHC	4.476	5.458	42331883	101043360	0.05366	0.05360	0.05366	0.0536	Col 2	0.11
chlor	4.723	5.560	42972542	96647183	0.04802	0.05006	0.04802	0.05006	Col 2	4.15
n	5.084	6.027	44970830	100133979	0.05202	0.05286	0.05202	0.05286	Col 2	1.60
chlor Epoxide	5.851	6.866	41649854	89137810	0.05036	0.05211	0.05036	0.05211	Col 2	3.41

live
081573

Chlordane	6.018	7.151	43482256	95042356	0.05055	0.04977	0.05055	0.04977	Col 2	1.55
Chlordane	6.199	7.391	42393445	89456435	0.04932	0.05189	0.04932	0.05189	Col 2	5.07
ketone	9.594	11.809	35307607	68050150	0.04668	0.04922	0.04668	0.04922	Col 2	5.29
ketone	6.391	7.503	34703078	74673752	0.04983	0.05205	0.04983	0.05205	Col 2	4.35
Chlordane	6.731	7.998	39168136	85195130	0.05084	0.05256	0.05084	0.05256	Col 2	3.32
Chlordane	7.070	8.606	37130985	78224304	0.05000	0.05200	0.05	0.052	Col 2	3.92
Chlordane	7.164	8.786	31691656	68983383	0.05133	0.05235	0.05133	0.05235	Col 2	1.96
Chlordane	7.418	9.039	32643946	70478270	0.04776	0.04969	0.04776	0.04969	Col 2	3.96
Chlordane	7.622	9.471	26813586	55070241	0.04529	0.04713	0.04529	0.04713	Col 2	3.98
Chlordane	3.863	4.517	49249936	109946238	0.05373	0.05337	0.05373	0.05237	Col 2	2.56
Chlordane	4.190	4.965	44813411	106211842	0.05277	0.05397	0.05277	0.05397	Col 2	2.24
Chlordane	8.787	11.683	26362530	49214833	0.04548	0.04761	0.04548	0.04761	Col 2	4.57
Chlordane	3.324	3.914	27580709	66710947	0.04829	0.05134	0.04829	0.05134	Col 2	6.12
Chlordane	12.117	15.380	33803817	48357455	0.04363	0.04698	0.04363	0.04698	Col 2	7.39

Legend
 ink interference
 low limit of Quantitation
 ive Max amount

Data File: \\35Wintarget\chem\35gcsj.i\130814.b\0814055.D
Report Date: 15-Aug-2013 08:48

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Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 15-AUG-2013 06:31
Lab File ID: 0814055.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST CCV 4 .050 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\pest_130814.m

COMPOUND	RRF / AMOUNT	RF0.050	CCAL RRF0.050	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 1 Tetrachloro-m-xylene	571065634	551614180	551614180	0.010	-3.40617	15.00000	Averaged
\$ 25 Decachlorobiphenyl	774607151	676076340	676076340	0.010	-12.72010	15.00000	Averaged
2 Alpha-BHC	916545336	984998720	984998720	0.010	7.46863	15.00000	Averaged
3 Gamma-BHC	849180819	896268220	896268220	0.010	5.54504	15.00000	Averaged
5 Beta-BHC	369212121	354605180	354605180	0.010	-3.95625	15.00000	Averaged
6 Delta-BHC	788781642	846637660	846637660	0.010	7.33486	15.00000	Averaged
7 Heptachlor	894810724	859450840	859450840	0.010	-3.95166	15.00000	Averaged
8 Aldrin	864423408	899416600	899416600	0.010	4.04815	15.00000	Averaged
10 Heptachlor Epoxide	826890702	832997080	832997080	0.010	0.73847	15.00000	Averaged
11 Gamma-chlordane	860080824	869645120	869645120	0.010	1.11202	15.00000	Averaged
12 Alpha-chlordane	0.05000	0.04932	847868900	0.010	-1.35171	15.00000	Linear
13 4,4'-DDE	725405326	739150880	739150880	0.010	1.89488	15.00000	Averaged
14 Endosulfan I	696423528	694061560	694061560	0.010	-0.33916	15.00000	Averaged
15 Dieldrin	770286144	783362720	783362720	0.010	1.69763	15.00000	Averaged
16 Endrin	742528451	742619700	742619700	0.010	0.01229	15.00000	Averaged
17 4,4'-DDD	617338256	633833120	633833120	0.010	2.67193	15.00000	Averaged
19 Endosulfan II	683402026	652878920	652878920	0.010	-4.46635	15.00000	Averaged
20 4,4'-DDT	591940144	536271720	536271720	0.010	-9.40440	15.00000	Averaged
21 Endrin aldehyde	0.05000	0.02283	237409520	0.010	-54.33565	15.00000	Linear <-
22 Methoxychlor	338596124	293749120	293749120	0.010	-13.24498	15.00000	Averaged
51 Mirex	579546048	527250600	527250600	0.010	-9.02352	15.00000	Averaged
23 Endosulfan sulfate	590452548	547493200	547493200	0.010	-7.27566	15.00000	Averaged
24 Endrin ketone	756334388	706152140	706152140	0.010	-6.63493	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 7.07106
Maximum Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: 0814055.D
Report Date: 15-Aug-2013 08:48

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Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 15-AUG-2013 06:31
Lab File ID: 0814055.D Init. Cal. Date(s): 14-AUG-2013 14-AUG-2013
Analysis Type: Init. Cal. Times: 13:33 15:07
Lab Sample ID: PEST CCV 4 .050 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130814.b\Pest_130814.m\Pest_130814-CH2.m

COMPOUND	RRF / AMOUNT	RF0.050	CCAL RRF0.050	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Tetrachloro-m-xylene	1.299e+09	1.334e+09	1.334e+09	0.010	2.69018	15.00000	Averaged
25 Decachlorobiphenyl	1.029e+09	967149100	967149100	0.010	-6.02215	15.00000	Averaged
2 Alpha-BHC	2.099e+09	2.199e+09	2.199e+09	0.010	4.75304	15.00000	Averaged
4 Gamma-BHC	1.968e+09	2.124e+09	2.124e+09	0.010	7.95811	15.00000	Averaged
5 Beta-BHC	843612501	840637580	840637580	0.010	-0.35264	15.00000	Averaged
6 Delta-BHC	1.885e+09	2.021e+09	2.021e+09	0.010	7.21249	15.00000	Averaged
7 Heptachlor	1.930e+09	1.933e+09	1.933e+09	0.010	0.12903	15.00000	Averaged
8 Aldrin	1.894e+09	2.003e+09	2.003e+09	0.010	5.73797	15.00000	Averaged
10 Heptachlor Epoxide	1.710e+09	1.783e+09	1.783e+09	0.010	4.23918	15.00000	Averaged
12 Gamma-chlordane	1.909e+09	1.901e+09	1.901e+09	0.010	-0.44705	15.00000	Averaged
13 Alpha-chlordane	1.724e+09	1.789e+09	1.789e+09	0.010	3.78587	15.00000	Averaged
14 Endosulfan I	1.435e+09	1.493e+09	1.493e+09	0.010	4.10839	15.00000	Averaged
15 4,4'-DDE	1.474e+09	1.578e+09	1.578e+09	0.010	7.02989	15.00000	Averaged
16 Dieldrin	1.621e+09	1.704e+09	1.704e+09	0.010	5.13305	15.00000	Averaged
17 Endrin	1.504e+09	1.564e+09	1.564e+09	0.010	4.00737	15.00000	Averaged
18 4,4'-DDD	1.318e+09	1.380e+09	1.380e+09	0.010	4.70940	15.00000	Averaged
19 Endosulfan II	1.418e+09	1.410e+09	1.410e+09	0.010	-0.61501	15.00000	Averaged
20 4,4'-DDT	1.168e+09	1.101e+09	1.101e+09	0.010	-5.72178	15.00000	Averaged
21 Endrin aldehyde	0.05000	0.05183	1.035e+09	0.010	3.66009	15.00000	Linear
22 Endosulfan sulfate	1.215e+09	1.183e+09	1.183e+09	0.010	-2.64459	15.00000	Averaged
23 Methoxychlor	625139254	574323760	574323760	0.010	-8.12867	15.00000	Averaged
40 Mirex	1.034e+09	984296660	984296660	0.010	-4.76604	15.00000	Averaged
24 Endrin ketone	1.382e+09	1.361e+09	1.361e+09	0.010	-1.55094	15.00000	Averaged

Average %D / Drift Results.

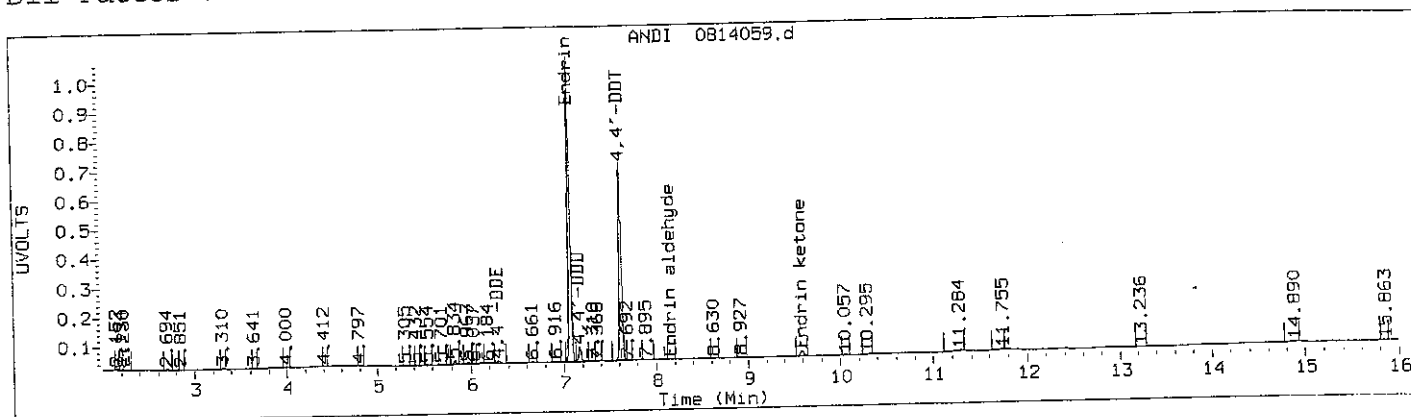
Calculated Average %D/Drift = 4.14795

Maximum Average %D/Drift = 15.00000

* Passed Average %D/Drift Test.

3320

Data File : \\35Wintarget\chem\35gcsj.i\130814.b\0814059.d
Sample ID :
Sample Type: PC
Inj Date : 15-AUG-2013 09:40
Dil Factor : 1.000



DDT Summary

DDT Area = 122991828
DDD Area = 9184475
DDE Area = 1445754

DDT Breakdown = Sum of DDE and DDD areas divided by sum of DDE, DDD, and DDT areas

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 7.96 Percent

DDT Breakdown PASSES

Endrin Summary

Endrin Area = 170140240
Endrin Aldehyde Area = 311320
Endrin Ketone Area = 4164681

Endrin Breakdown = Sum of Endrin aldehyde and Endrin ketone areas divided by sum of Endrin, Endrin aldehyde, and Endrin ketone areas

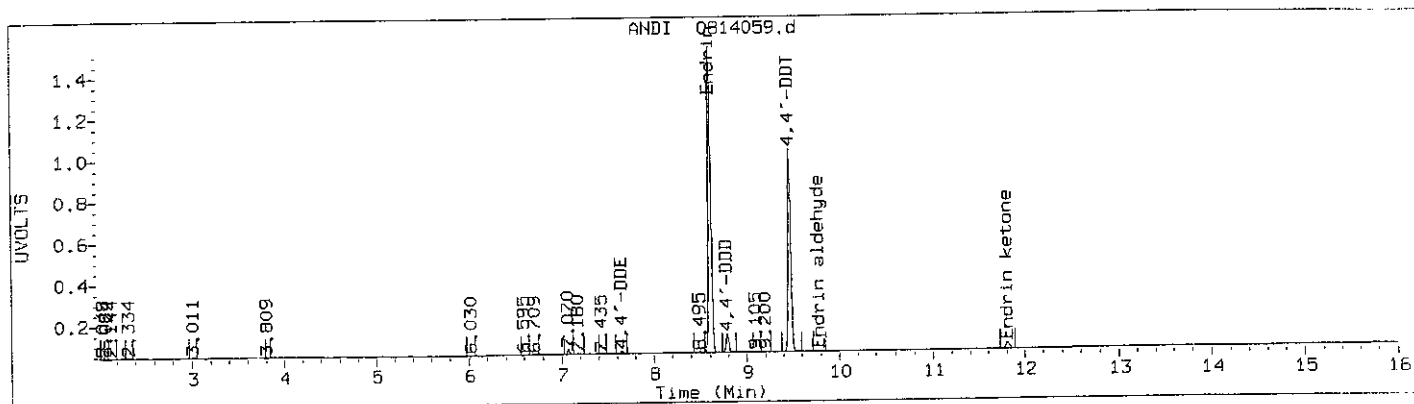
Endrin Breakdown Maximum = 15 Percent

Endrin Breakdown = 2.56 Percent

Endrin Breakdown PASSES

(Handwritten signature)
08/15/13

Data File : \\35Wintarget\chem\35gcsj.i\130814.b\0814059.d\0814059.d
Sample ID :
Sample Type: PC
Inj Date : 15-AUG-2013 09:40
Dil Factor : 1.000



DDT Summary

DDT Area = 219760092
DDD Area = 19577487
DDE Area = 2241820

DDT Breakdown = Sum of DDE and DDD areas divided by sum of DDE, DDD, and DDT areas

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 9.03 Percent

DDT Breakdown PASSES

Endrin Summary

Endrin Area = 323094388
Endrin Aldehyde Area = 713648
Endrin Ketone Area = 8010077

Endrin Breakdown = Sum of Endrin aldehyde and Endrin ketone areas divided by sum of Endrin, Endrin aldehyde, and Endrin ketone areas

Endrin Breakdown Maximum = 15 Percent

Endrin Breakdown = 2.63 Percent

Endrin Breakdown PASSES

60
08/15/13

EPA 608

Logbooks

PESTICIDE/PCB Extraction Benchsheet

Matrix: Water ☒ Soil ☐ TCLP ☐

Methods:	EPA 608	SW846 8081
	SM 6630 C	SW846 8082

Batch #:

0ex113826

Prep Code: 607 SFW Ext Tech:

Conc Tech:

TCLP

	Spike Name	Trace #	Vol (uL)	Exp Date
SPK-A	Surrogate	010-839D	1-2	8/30/17
SPK-B	LCS / MS SPK (PEST)	020-8475	1-2	9/11/13
SPK-C	LCS / MS SPK (PCB)	020-8467	1-2	9/18/13

Initial Solvent:	Me ₂ CO	Trace #:	14-170
Final Solvent:	Hexano	Trace #:	14-166
Microwave ID:	MARS 1		
Balance ID:	SP-2		

TurboVap Conditions	
Temp (°C):	45
Press (PSI):	14
ID Number	00-25-29

[illegible]

PESTICIDE/PCB Extraction Checklist

Reagent	Trace #	Reagent	Trace #
Sodium Sulfate Powder	155-1752	Other	155-1752
Sodium Sulfate Granular		Other	
		Other	

Batch Requirements: Separate LCS and matrix spikes are needed if both pesticide and PCB analyses are to be performed although the same extract may be used for both analyses for un-spiked samples. Refer to the table below and the SOP for further guidance.

A second person MUST witness the addition of spike standards and surrogates to the proper containers as well as the spike volumes, trace numbers and expiration dates. This person must initial in the appropriate fields on the logsheet.

A Typical Batch Contains:

SOIL LIMS PREP CODES		WATER LIMS PREP CODES			
3650_P	3650_PCB	608SF_W_P/6630C_W_P	8081_W_P	MB	8082_W_P
MB	MB	MB	MB	MB	MB
LCS (PEST)	LCS (PCB)	LCS (PEST)	LCS (PEST)	LCS (PCB)	LCS (PCB)
LCSD (PEST)**	LCSD (PCB)**	LCS (PCB)	LCSD (PEST)	LCSD (PCB)	LCSD (PCB)
Client Samples (up to 20)	Client Samples (up to 20)	LCSD (PEST)	Client Samples (up to 20)	Client Samples (up to 20)	Client Samples (up to 20)
MS (PEST)	MS (PCB)	LCSD (PCB)	MS (PEST)	MS (PCB)	MS (PCB)
MSD (PEST)	MSD (PCB)	Client Samples (up to 20)	MSD (PEST)	MSD (PCB)	MSD (PCB)

** LCSD needed only if there is insufficient sample available for MS and MSD in the batch. Requires prior approval from a supervisor.

Yes	No
Samples prepared within the holding time?	
Surrogate added?	
Spike added?	
Standard/Spike Expiration Date OK?	
Witness present?	
Appropriate solvent used?	
Solvent exchange performed?	
Benchsheet completed?	

To the best of my knowledge, all of the above information is correct and all supporting documentation has been provided.

Technician: HTS

Date: 8/13/10

Comments:

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	=====	=====	=====	===	=====	=====	=====
1	Vial 1	PEST PRIMER	35GCSJ	1	Sample	0.5	0814001
2	Vial 98	ICB	35GCSJ	1	Sample	0.5	0814002
3	Vial 99	ICB	35GCSJ	1	Sample	0.5	0814003
4	Vial 4	PC CHECK (PEM)	35GCSJ	1	Sample	0.5	0814004
5	Vial 5	PEST Cal 6 .010	35GCSJ	1	Sample	0.5	0814005
6	Vial 6	PEST Cal 5 .075	35GCSJ	1	Sample	0.5	0814006
7	Vial 7	PEST Cal 4 .050	35GCSJ	1	Sample	0.5	0814007
8	Vial 8	PEST Cal 3 .025	35GCSJ	1	Sample	0.5	0814008
9	Vial 9	PEST Cal 2 .010	35GCSJ	1	Sample	0.5	0814009
10	Vial 10	PEST Cal 1 .001	35GCSJ	1	Sample	0.5	0814010
11	Vial 11	PEST ICV .075	35GCSJ	1	Sample	0.5	0814011
12	Vial 12	Chl CCV 5 0.50	35GCSJ	1	Sample	0.5	0814012
13	Vial 13	Tox CCV 5 0.30	35GCSJ	1	Sample	0.5	0814013
14	Vial 61	AppII CCV 5 0.07	35GCSJ	1	Sample	0.5	0814061
15	Vial 98	ICB	35GCSJ	1	Sample	0.5	0814015
16	Vial 99	ICB	35GCSJ	1	Sample	0.5	0814016
17	Vial 67	694209,9243 MS	35GCSJ	1	Sample	0.5	0814067
18	Vial 68	694210,9243 MSD	35GCSJ	1	Sample	0.5	0814068
19	Vial 27	692381,9230 LCS	35GCSJ	1	Sample	0.5	0814027
20	Vial 66	693700,9243 LCS*	35GCSJ	1	Sample	0.5	0814066
21	Vial 26	692380,9230 BLK	35GCSJ	1	Sample	0.5	0814026
22	Vial 65	693699,9243 BLK*	35GCSJ	1	Sample	0.5	0814065
23	Vial 28	PEST CCV 5 .075	35GCSJ	1	Sample	0.5	0814028
24	Vial 29	PEST CCV 4 .050	35GCSJ	1	Sample	0.5	0814029
25	Vial 30	PC CHECK (PEM)	35GCSJ	1	Sample	0.5	0814030
26	Vial 31	692382,9230 MS	35GCSJ	1	Sample	0.5	0814031
27	Vial 32	692383,9230 MSD	35GCSJ	1	Sample	0.5	0814032
28	Vial 33	35103592001,9230	35GCSJ	1	Sample	0.5	0814033
29	Vial 34	35103592013,9230	35GCSJ	1	Sample	0.5	0814034
30	Vial 76	694211,9244 MS	35GCSJ	1	Sample	0.5	0814076
31	Vial 77	694212,9244 MSD	35GCSJ	1	Sample	0.5	0814077
32	Vial 35	35103518001,9205	35GCSJ	1	Sample	0.5	0814035
33	Vial 69	35103511001,9243	35GCSJ	1	Sample	0.5	0814069
34	Vial 70	35103511001,9243	35GCSJ	1	Sample	0.5	0814070
35	Vial 71	35103494002,9243	35GCSJ	1	Sample	0.5	0814071
36	Vial 72	35103494001,9243	35GCSJ	1	Sample	0.5	0814072
37	Vial 73	10238030003,9244	35GCSJ	1	Sample	0.5	0814073
38	Vial 74	10238030002,9244	35GCSJ	1	Sample	0.5	0814074
39	Vial 75	10238030001,9244	35GCSJ	1	Sample	0.5	0814075
40	Vial 36	35103592012,9230	35GCSJ	1	Sample	0.5	0814036
41	Vial 37	35103592014,9230	35GCSJ	1	Sample	0.5	0814037
42	Vial 38	35103592018,9230	35GCSJ	1	Sample	0.5	0814038
43	Vial 39	35103592019,9230	35GCSJ	1	Sample	0.5	0814039
44	Vial 40	35103359001,9230	35GCSJ	1	Sample	0.5	0814040
45	Vial 41	35103592002,9230	35GCSJ	1	Sample	0.5	0814041
46	Vial 42	35103592003,9230	35GCSJ	1	Sample	0.5	0814042
47	Vial 43	35103592004,9230	35GCSJ	1	Sample	0.5	0814043
48	Vial 44	35103592005,9230	35GCSJ	1	Sample	0.5	0814044
49	Vial 45	35103592006,9230	35GCSJ	1	Sample	0.5	0814045
50	Vial 46	35103592007,9230	35GCSJ	1	Sample	0.5	0814046
51	Vial 47	35103592015,9230	35GCSJ	1	Sample	0.5	0814047
52	Vial 48	35103592016,9230	35GCSJ	1	Sample	0.5	0814048
53	Vial 49	35103592017,9230	35GCSJ	1	Sample	0.5	0814049
54	Vial 50	35103592008,9230	35GCSJ	1	Sample	0.5	0814050
55	Vial 51	35103592009,9230	35GCSJ	1	Sample	0.5	0814051
56	Vial 52	35103592010,9230	35GCSJ	1	Sample	0.5	0814052
57	Vial 53	35103592011,9230	35GCSJ	1	Sample	0.5	0814053
58	Vial 54	PEST CCV 5 .075	35GCSJ	1	Sample	0.5	0814054
59	Vial 55	PEST CCV 4 .050	35GCSJ	1	Sample	0.5	0814055

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60	Vial 56	Chl CCV 5 0.50	35GCSJ	1	Sample	0.5	0814056
61	Vial 57	Tox CCV 5 0.50	35GCSJ	1	Sample	0.5	0814057
62	Vial 62	AppII CCV 5 0.07	35GCSJ	1	Sample	0.5	0814062
63	Vial 95	MIX	35GCSJ	1	Sample	1.0	08140
64	Vial 95	MIX	35GCSJ	1	Sample	1.0	08140
65	Vial 95	MIX	35GCSJ	1	Sample	1.0	08140
66	Vial 100	Methanol	35GCSJ	1	Sample	1.0	08140
67	Vial 96	Acetone	35GCSJ	1	Sample	1.0	08140
68	Vial 99	HEXANE	35GCSJ	1	Sample	0.5	0814058
69	Vial 59	PC CHECK (PEM)	35GCSJ	1	Sample	0.5	0814059

Sequence Table (Back Injector):

No entries - empty table!

Sequence Table (Front Injector):

Sample Information Part:

Line	Location	Sample Information
1	Vial 1	PSV_8391_x090613
2	Vial 98	
3	Vial 99	
4	Vial 4	PSV_8466_x110713
5	Vial 5	PSV_8494_x090613
6	Vial 6	PSV_8493_x090613
7	Vial 7	PSV_8492_x090613
8	Vial 8	PSV_8491_x090613
9	Vial 9	PSV_8490_x090613
10	Vial 10	PSV_8489_x090613
11	Vial 11	PSV_8495_x090613
12	Vial 12	PSV_8052_x092413
13	Vial 13	PSV_8436_x110413
14	Vial 61	PSV_7934_x083013
15	Vial 98	
16	Vial 99	
17	Vial 67	MS_608
18	Vial 68	MS_608
19	Vial 27	LCS_8081_S
20	Vial 66	LCS_608/8081(693702,9244)
21	Vial 26	BLK_8081_S
22	Vial 65	BLK_608/8081(693701,9244)
23	Vial 28	PSV_8493_x090613
24	Vial 29	PSV_8492_x090613
25	Vial 30	PSV_8466_x110713
26	Vial 31	MS_8081_S. Dark sample. 10x
27	Vial 32	MSD_8081_S. Dark sample. 10x
28	Vial 33	PS_8081_S. Dark sample. Dieltrin only. 10x
29	Vial 34	PS_8081_S. Dark sample. Dieltrin only. 5x
30	Vial 76	MS_8081. Appendix II also

hw
08/14/13

32 Vial 35 PS_8081_W. Add-on
33 Vial 69 PS_608. Bad odor, pink sample
34 Vial 70 PS_608. Bad odor, pink sample. 10x
35 Vial 71 PS_608. Data package
36 Vial 72 PS_608. Data package
37 Vial 73 PS_8081. Appendix II also
38 Vial 74 PS_8081. Appendix II also
39 Vial 75 PS_8081. Appendix II also
40 Vial 36 PS_8081_S. Dieldrin only
41 Vial 37 PS_8081_S. Dieldrin only
42 Vial 38 PS_8081_S. Dieldrin only
43 Vial 39 PS_8081_S. Dieldrin only
44 Vial 40 PS_8081_S. Dieldrin only
45 Vial 41 PS_8081_S. Dieldrin only
46 Vial 42 PS_8081_S. Dieldrin only
47 Vial 43 PS_8081_S. Dieldrin only
48 Vial 44 PS_8081_S. Dieldrin only
49 Vial 45 PS_8081_S. Dieldrin only
50 Vial 46 PS_8081_S. Dieldrin only
51 Vial 47 PS_8081_S. Dieldrin only
52 Vial 48 PS_8081_S. Dieldrin only
53 Vial 49 PS_8081_S. Dieldrin only
54 Vial 50 PS_8081_S. Dieldrin only
55 Vial 51 PS_8081_S. Dieldrin only
56 Vial 52 PS_8081_S. Dieldrin only
57 Vial 53 PS_8081_S. Dieldrin only
58 Vial 54 PSV_8493_x090613
59 Vial 55 PSV_8492_x090613
60 Vial 56 PSV_8052_x092413
61 Vial 57 PSV_8436_x110413
62 Vial 62 PSV_7934_x083013
63 Vial 95
64 Vial 95

Line	Location	Sample Information
====	=====	=====
65	Vial 95	
66	Vial 100	
67	Vial 96	
68	Vial 99	
69	Vial 59	PSV_8466_x110713

Sequence Table (Back Injector):

No entries - empty table!

EPA 624

ANALYTICAL RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Matrix: Water
% Moisture:
Acode: 624 Volatile Organics
Prep/Method: EPA 624

Sample: EAST GRAB
Lab ID: 35103494003
Collected: 08/08/13 09:57
Received: 08/08/13 14:40

CAS No.	Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Qual
100-41-4	Ethylbenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:06	
127-18-4	Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:06	
108-88-3	Toluene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:06	
Surrogates									
1868-53-7	Dibromofluoromethane (S)	95	%	88-113		1		08/11/13 18:06	
460-00-4	4-Bromofluorobenzene (S)	95	%	71-111		1		08/11/13 18:06	
2037-26-5	Toluene-d8 (S)	93	%	77-116		1		08/11/13 18:06	
17060-07-0	1,2-Dichloroethane-d4 (S)	91	%	79-123		1		08/11/13 18:06	

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ANALYTICAL RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Matrix: Water
% Moisture:
Acode: 624 Volatile Organics
Prep/Method: EPA 624

Sample: EAST GRAB DUPLICATE
Lab ID: 35103494004
Collected: 08/08/13 09:07
Received: 08/08/13 14:40

CAS No.	Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Qual
100-41-4	Ethylbenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:30	
127-18-4	Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:30	
108-88-3	Toluene	0.50U	ug/L	1.0	0.50	1		08/11/13 18:30	
Surrogates									
1868-53-7	Dibromofluoromethane (S)	97	%	88-113		1		08/11/13 18:30	
460-00-4	4-Bromofluorobenzene (S)	93	%	71-111		1		08/11/13 18:30	
2037-26-5	Toluene-d8 (S)	95	%	77-116		1		08/11/13 18:30	
17060-07-0	1,2-Dichloroethane-d4 (S)	92	%	79-123		1		08/11/13 18:30	

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ANALYTICAL RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Matrix: Water
% Moisture:
Acode: 624 Volatile Organics
Prep/Method: EPA 624

Sample: WEST GRAB
Lab ID: 35103494005
Collected: 08/08/13 09:13
Received: 08/08/13 14:40

CAS No.	Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Qual
100-41-4	Ethylbenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 19:19	
127-18-4	Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 19:19	
108-88-3	Toluene	0.50U	ug/L	1.0	0.50	1		08/11/13 19:19	
Surrogates									
1868-53-7	Dibromofluoromethane (S)	97	%	88-113		1		08/11/13 19:19	
460-00-4	4-Bromofluorobenzene (S)	95	%	71-111		1		08/11/13 19:19	
2037-26-5	Toluene-d8 (S)	94	%	77-116		1		08/11/13 19:19	
17060-07-0	1,2-Dichloroethane-d4 (S)	93	%	79-123		1		08/11/13 19:19	

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ANALYTICAL RESULTS

Project: Miami Dade

Pace Project No.: 35103494

Matrix: Water
% Moisture:
Acode: 624 Volatile Organics
Prep/Method: EPA 624

Sample: TRIP BLANK
Lab ID: 35103494006
Collected: 08/08/13 08:00
Received: 08/08/13 14:40

CAS No.	Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Qual
107-02-8	Acrolein	10.0U	ug/L	20.0	10.0	1		08/11/13 20:32	
107-13-1	Acrylonitrile	5.0U	ug/L	10.0	5.0	1		08/11/13 20:32	
71-43-2	Benzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
75-27-4	Bromodichloromethane	0.30U	ug/L	0.60	0.30	1		08/11/13 20:32	
75-25-2	Bromoform	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
74-83-9	Bromomethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
56-23-5	Carbon tetrachloride	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
108-90-7	Chlorobenzene	0.40U	ug/L	1.0	0.40	1		08/11/13 20:32	
75-00-3	Chloroethane	0.61U	ug/L	1.0	0.61	1		08/11/13 20:32	
110-75-8	2-Chloroethylvinyl ether	5.0U	ug/L	10.0	5.0	1		08/11/13 20:32	
67-66-3	Chloroform	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
74-87-3	Chloromethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
124-48-1	Dibromochloromethane	0.25U	ug/L	0.50	0.25	1		08/11/13 20:32	
95-50-1	1,2-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
541-73-1	1,3-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
106-46-7	1,4-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
75-34-3	1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
107-06-2	1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
540-59-0	1,2-Dichloroethene (Total)	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
75-35-4	1,1-Dichloroethene	0.71U	ug/L	1.0	0.71	1		08/11/13 20:32	
156-59-2	cis-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
156-60-5	trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
78-87-5	1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
10061-01-5	cis-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		08/11/13 20:32	
10061-02-6	trans-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		08/11/13 20:32	
100-41-4	Ethylbenzene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
75-09-2	Methylene Chloride	2.5U	ug/L	5.0	2.5	1		08/11/13 20:32	
79-34-5	1,1,2,2-Tetrachloroethane	0.17U	ug/L	0.50	0.17	1		08/11/13 20:32	
127-18-4	Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
108-88-3	Toluene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
71-55-6	1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
79-00-5	1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
79-01-6	Trichloroethene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
75-69-4	Trichlorofluoromethane	0.66U	ug/L	1.0	0.66	1		08/11/13 20:32	
75-01-4	Vinyl chloride	0.53U	ug/L	1.0	0.53	1		08/11/13 20:32	
1330-20-7	Xylene (Total)	1.0U	ug/L	3.0	1.0	1		08/11/13 20:32	
179601-23-1	m&p-Xylene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
95-47-6	o-Xylene	0.50U	ug/L	1.0	0.50	1		08/11/13 20:32	
Surrogates									
1868-53-7	Dibromofluoromethane (S)	96	%	88-113		1		08/11/13 20:32	
460-00-4	4-Bromofluorobenzene (S)	93	%	71-111		1		08/11/13 20:32	
2037-26-5	Toluene-d8 (S)	94	%	77-116		1		08/11/13 20:32	
17060-07-0	1,2-Dichloroethane-d4 (S)	93	%	79-123		1		08/11/13 20:32	

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METHOD BLANK RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV/9341
Method(s): EPA 624

Prepared:

Associated Lab Samples: 35103494003, 35103494004, 35103494005, 35103494006

CAS No.	Parameters	Results	Units	Reporting Limit	MDL	Analyzed	Qual
71-55-6	1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	08/11/13	
79-34-5	1,1,2,2-Tetrachloroethane	0.17U	ug/L	0.50	0.17	08/11/13	
79-00-5	1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	08/11/13	
75-34-3	1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	08/11/13	
75-35-4	1,1-Dichloroethene	0.71U	ug/L	1.0	0.71	08/11/13	
95-50-1	1,2-Dichlorobenzene	0.50U	ug/L	1.0	0.50	08/11/13	
107-06-2	1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	08/11/13	
540-59-0	1,2-Dichloroethene (Total)	0.50U	ug/L	1.0	0.50	08/11/13	
78-87-5	1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	08/11/13	
541-73-1	1,3-Dichlorobenzene	0.50U	ug/L	1.0	0.50	08/11/13	
106-46-7	1,4-Dichlorobenzene	0.50U	ug/L	1.0	0.50	08/11/13	
110-75-8	2-Chloroethylvinyl ether	5.0U	ug/L	10.0	5.0	08/11/13	
107-02-8	Acrolein	10.0U	ug/L	20.0	10.0	08/11/13	
107-13-1	Acrylonitrile	5.0U	ug/L	10.0	5.0	08/11/13	
71-43-2	Benzene	0.50U	ug/L	1.0	0.50	08/11/13	
75-27-4	Bromodichloromethane	0.30U	ug/L	0.60	0.30	08/11/13	
75-25-2	Bromoform	0.50U	ug/L	1.0	0.50	08/11/13	
74-83-9	Bromomethane	0.50U	ug/L	1.0	0.50	08/11/13	
58-23-5	Carbon tetrachloride	0.50U	ug/L	1.0	0.50	08/11/13	
108-90-7	Chlorobenzene	0.40U	ug/L	1.0	0.40	08/11/13	
75-00-3	Chloroethane	0.61U	ug/L	1.0	0.61	08/11/13	
67-66-3	Chloroform	0.50U	ug/L	1.0	0.50	08/11/13	
74-87-3	Chloromethane	0.50U	ug/L	1.0	0.50	08/11/13	
156-59-2	cis-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	08/11/13	
10061-01-5	cis-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	08/11/13	
124-48-1	Dibromochloromethane	0.25U	ug/L	0.50	0.25	08/11/13	
100-41-4	Ethylbenzene	0.50U	ug/L	1.0	0.50	08/11/13	
179601-23-1	m&p-Xylene	0.50U	ug/L	1.0	0.50	08/11/13	
75-09-2	Methylene Chloride	2.5U	ug/L	5.0	2.5	08/11/13	

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METHOD BLANK RESULTS

Project: Miami Dade
Pace Project No.: 35103494

Prepared:

QB Batch: MSV/9341

Method(s): EPA 624

Associated Lab Samples: 35103494003, 35103494004, 35103494005, 35103494006

CAS No.	Parameters	Results	Units	Reporting Limit	MDL	Analyzed	Qual
95-47-6	o-Xylene	0.50U	ug/L	1.0	0.50	08/11/13	
127-18-4	Tetrachloroethene	0.50U	ug/L	1.0	0.50	08/11/13	
108-88-3	Toluene	0.50U	ug/L	1.0	0.50	08/11/13	
156-60-5	trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	08/11/13	
10061-02-6	trans-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	08/11/13	
79-01-6	Trichloroethene	0.50U	ug/L	1.0	0.50	08/11/13	
75-69-4	Trichlorofluoromethane	0.66U	ug/L	1.0	0.66	08/11/13	
75-01-4	Vinyl chloride	0.53U	ug/L	1.0	0.53	08/11/13	
1330-20-7	Xylene (Total)	1.0U	ug/L	3.0	1.0	08/11/13	

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Type	Sample	Matrix
BLANK	693424	Water

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SURROGATE RECOVERY SUMMARY

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV / 9341
Method(s): EPA 624 / EPA 624

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec Qual	Sur2 % Rec Qual	Sur3 % Rec Qual	Sur4 % Rec Qual	Sur5 % Rec Qual	Sur6 % Rec Qual
693424	BLANK		1	95	93	95	95		
693427	DUP		1	92	93	95	93		
35103494003	OQS	EAST GRAB	1	91	95	95	93		
693425	LCS		1	84	98	91	93		
35103494004	OQS	EAST GRAB DUPLICATE	1	92	93	97	95		
693426	MS		1	87	96	95	93		
35103494005	OQS	WEST GRAB	1	93	95	97	94		
694452	MS		1	102	93	102	97		
35103494006	OQS	TRIP BLANK	1	93	93	96	94		
694453	MSD		1	103	95	101	98		
QC Limits:				79-123	71-111	88-113	77-116		
Sample Limits:				79-123	71-111	88-113	77-116		
Sur 1: 1,2-Dichloroethane-d4 (S) Sur 2: 4-Bromofluorobenzene (S) Sur 3: Dibromofluoromethane (S) Sur 4: Toluene-d8 (S)									

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Date: 08/21/2013 01:07 PM

LAB CONTROL SAMPLE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV/9341
Method(s): EPA 624

LCS Prepared:
LCSD Prepared:

Analyte	LCS % Rec	LCSD % Rec	QC Limits RPD	RPD	% Rec	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	94		52-162		14-157	20	18.7		ug/L	08/11/13			
1,1,2,2-Tetrachloroethane	90		14-157			20	18.1		ug/L	08/11/13			
1,1,2-Trichloroethane	101		52-150			20	20.2		ug/L	08/11/13			
1,1-Dichloroethane	84		59-155			20	16.9		ug/L	08/11/13			
1,1-Dichloroethane	97		10-234			20	19.5		ug/L	08/11/13			
1,2-Dichlorobenzene	92		18-190			20	18.4		ug/L	08/11/13			
1,2-Dichloroethane	89		49-155			20	17.8		ug/L	08/11/13			
1,2-Dichloroethane (Total)	94		54-156			40	37.4		ug/L	08/11/13			
1,2-Dichloropropane	93		10-210			20	18.6		ug/L	08/11/13			
1,3-Dichlorobenzene	92		59-156			20	18.4		ug/L	08/11/13			
1,4-Dichlorobenzene	92		18-190			20	18.4		ug/L	08/11/13			
2-Chloroethylvinyl ether	108		10-305			20	21.6		ug/L	08/11/13			
Acrolein	34		14-183			200	67.4		ug/L	08/11/13			
Acrylonitrile	68		60-146			200	135		ug/L	08/11/13			
Benzene	93		37-151			20	18.5		ug/L	08/11/13			
Bromodichloromethane	91		35-155			20	18.3		ug/L	08/11/13			
Bromoform	101		45-169			20	20.2		ug/L	08/11/13			
Bromomethane	88		10-242			20	17.6		ug/L	08/11/13			
Carbon tetrachloride	95		70-140			20	18.9		ug/L	08/11/13			
Chlorobenzene	99		37-160			20	19.7		ug/L	08/11/13			
Chloroethane	84		10-230			20	16.7		ug/L	08/11/13			
Chloroform	91		51-138			20	18.1		ug/L	08/11/13			
Chloromethane	42		10-273			20	8.4		ug/L	08/11/13			
cis-1,2-Dichloroethane	93		76-128			20	18.5		ug/L	08/11/13			
cis-1,3-Dichloropropene	80		10-227			20	16.0		ug/L	08/11/13			
Dibromochloromethane	96		35-155			20	19.3		ug/L	08/11/13			
Ethylbenzene	98		37-162			20	19.5		ug/L	08/11/13			
m,p-Xylene	102		70-130			40	40.7		ug/L	08/11/13			
Methylene Chloride	103		10-221			20	20.6		ug/L	08/11/13			
o-Xylene	95		70-130			20	19.0		ug/L	08/11/13			
Tetrachloroethane	97		64-148			20	19.4		ug/L	08/11/13			

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LAB CONTROL SAMPLE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV/9341
Method(s): EPA 624

LCS Prepared:
LCSD Prepared:

Analyte	LCS	LCSD	QC Limits		Spike		LCS	LCSD	Units	LCS	LCS	LCS	LCS
	% Rec	% Rec	RPD	% Rec	Conc	Conc	Conc	Conc		Analyzed	Analyzed	Qual	Qual
Toluene	99			47-150	20	19.8			ug/L	08/11/13			
trans-1,2-Dichloroethene	94			54-156	20	18.9			ug/L	08/11/13			
trans-1,3-Dichloropropene	92			17-183	20	18.3			ug/L	08/11/13			
Trichloroethene	88			71-157	20	17.6			ug/L	08/11/13			
Trichlorofluoromethane	93			17-181	20	18.6			ug/L	08/11/13			
Vinyl chloride	88			10-251	20	17.7			ug/L	08/11/13			
Xylene (Total)	99			70-130	60	59.6			ug/L	08/11/13			

Type Sample
LCS 693425

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MATRIX SPIKE SAMPLE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV/9341
Method(s): EPA 624

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc		Result		Dilution		% Recovery		QC Limits		Max RPD	Analyzed Date		Qualifier(s)	
			MS	MSD	MS	MSD	MS	MSD	MS	MSD	% Recovery	MSD		MS	MSD	MS	MSD
1,1,1-Trichloroethane	ug/L	0.50U	20		21.3		1		106		52-162			08/12/13			
1,1,2,2-Tetrachloroethane	ug/L	0.17U	20		17.9		1		90		14-157			08/12/13			
1,1,2-Trichloroethane	ug/L	0.50U	20		20.1		1		100		52-150			08/12/13			
1,1-Dichloroethane	ug/L	0.50U	20		18.7		1		94		59-155			08/12/13			
1,1-Dichloroethene	ug/L	0.71U	20		22.0		1		110		10-234			08/12/13			
1,2-Dichlorobenzene	ug/L	0.50U	20		18.5		1		92		18-190			08/12/13			
1,2-Dichloroethane	ug/L	0.50U	20		17.8		1		89		49-155			08/12/13			
1,2-Dichloroethene (Total)	ug/L	0.50U	40		39.8		1		100		54-156			08/12/13			
1,2-Dichloropropane	ug/L	0.50U	20		19.5		1		98		10-210			08/12/13			
1,3-Dichlorobenzene	ug/L	0.50U	20		18.6		1		93		59-156			08/12/13			
1,4-Dichlorobenzene	ug/L	0.50U	20		19.0		1		90		18-190			08/12/13			
2-Chloroethylvinyl ether	ug/L	0.93 I	20		5.0U		1		0		10-305			08/12/13		J(M1)	
Acrolein	ug/L	10.0U	200		13.3 I		1		7		14-183			08/12/13		J(M1)	
Acrylonitrile	ug/L	5.0U	200		139		1		69		60-146			08/12/13			
Benzene	ug/L	0.50U	20		19.9		1		99		37-151			08/12/13			
Bromodichloromethane	ug/L	0.30U	20		19.9		1		100		35-155			08/12/13			
Bromoform	ug/L	0.50U	20		19.7		1		98		45-169			08/12/13			
Bromomethane	ug/L	0.50U	20		22.8		1		114		10-242			08/12/13			
Carbon tetrachloride	ug/L	0.50U	20		21.7		1		108		70-140			08/12/13			
Chlorobenzene	ug/L	0.40U	20		20.5		1		103		37-160			08/12/13			
Chloroethane	ug/L	0.61U	20		14.3		1		71		10-230			08/12/13			
Chloroform	ug/L	3.4	20		23.3		1		100		51-138			08/12/13			
Chloromethane	ug/L	0.50U	20		157		1		785		10-273			08/12/13		J(M1)	
cis-1,2-Dichloroethene	ug/L	0.50U	20		19.8		1		99		76-128			08/12/13			
cis-1,3-Dichloropropene	ug/L	0.25U	20		15.9		1		79		10-227			08/12/13			
Dibromochloromethane	ug/L	0.25U	20		20.0		1		100		35-155			08/12/13			
Ethylbenzene	ug/L	0.50U	20		20.6		1		103		37-162			08/12/13			
m,p-Xylene	ug/L	0.50U	40		42.5		1		106		70-130			08/12/13			
Methylene Chloride	ug/L	2.5U	20		20.1		1		100		10-221			08/12/13			
o-Xylene	ug/L	0.50U	20		19.5		1		97		70-130			08/12/13			
Tetrachloroethane	ug/L	0.50U	20		20.6		1		103		64-148			08/12/13			

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MATRIX SPIKE SAMPLE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV/6341
Method(s): EPA 624

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc		Result		Dilution		% Recovery		QC Limits		Max RPD	Analyzed Date		Qualifier(s)	
			MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD		MS	MSD	MS	MSD
Toluene	ug/L	0.50U	20		21.0		1		105		47-150			08/12/13			
trans-1,2-Dichloroethene	ug/L	0.50U	20		20.0		1		100		54-156			08/12/13			
trans-1,3-Dichloropropene	ug/L	0.25U	20		18.8		1		94		17-183			08/12/13			
Trichloroethene	ug/L	0.50U	20		19.4		1		97		71-157			08/12/13			
Trichlorofluoromethane	ug/L	0.66U	20		20.1		1		101		17-181			08/12/13			
Vinyl chloride	ug/L	0.53U	20		21.4		1		107		10-251			08/12/13			
Xylene (Total)	ug/L	1.0U	60		61.9		1		103		70-130			08/12/13			

Type Sample
MS 693426
Client Sample ID
EAST GRAB

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MATRIX SPIKE SAMPLE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV/S341
Method(s): EPA 624

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc		Result		Dilution		% Recovery		QC Limits %Recovery	RPD	Max RPD	Analyzed Date		Qualifier(s)	
			MS	MSD	MS	MSD	MS	MSD	MS	MSD				MS	MSD	MS	MSD
1,1,1-Trichloroethane	ug/L				20.3	19.6	1	1				3	40	08/13/13	08/13/13		
1,1,2,2-Tetrachloroethane	ug/L				19.6	19.3	1	1				1	40	08/13/13	08/13/13		
1,1,2-Trichloroethane	ug/L				19.4	18.1	1	1				7	40	08/13/13	08/13/13		
1,1-Dichloroethane	ug/L				18.0	16.6	1	1				8	40	08/13/13	08/13/13		
1,1-Dichloroethene	ug/L				17.8	15.8	1	1				12	40	08/13/13	08/13/13		
1,2-Dichlorobenzene	ug/L				20.1	19.1	1	1				5	40	08/13/13	08/13/13		
1,2-Dichloroethane	ug/L				19.6	17.6	1	1				11	40	08/13/13	08/13/13		
1,2-Dichloroethene (Total)	ug/L				36.4	32.5	1	1				11	40	08/13/13	08/13/13		
1,2-Dichloropropane	ug/L				19.2	18.0	1	1				6	40	08/13/13	08/13/13		
1,3-Dichlorobenzene	ug/L				19.8	18.4	1	1				7	40	08/13/13	08/13/13		
1,4-Dichlorobenzene	ug/L				20.9	19.3	1	1				8	40	08/13/13	08/13/13		
2-Chloroethylvinyl ether	ug/L				5.0U	5.0U	1	1					40	08/13/13	08/13/13		
Acrolein	ug/L				15.51	10.0U	1	1					40	08/13/13	08/13/13		
Acrylonitrile	ug/L				160	155	1	1				3	40	08/13/13	08/13/13		
Benzene	ug/L				18.9	17.6	1	1				7	40	08/13/13	08/13/13		
Bromodichloromethane	ug/L				21.2	19.7	1	1				7	40	08/13/13	08/13/13		
Bromoform	ug/L				19.1	18.3	1	1				4	40	08/13/13	08/13/13		
Bromomethane	ug/L				23.9	22.8	1	1				4	40	08/13/13	08/13/13		
Carbon tetrachloride	ug/L				22.2	20.2	1	1				9	40	08/13/13	08/13/13		
Chlorobenzene	ug/L				19.4	18.0	1	1				8	40	08/13/13	08/13/13		
Chloroethane	ug/L				0.61U	0.61U	1	1					40	08/13/13	08/13/13		
Chloroform	ug/L				22.1	20.1	1	1				10	40	08/13/13	08/13/13		
Chloromethane	ug/L				228	216	1	1				5	40	08/13/13	08/13/13		
cis-1,2-Dichloroethene	ug/L				17.7	15.2	1	1				15	40	08/13/13	08/13/13		
cis-1,3-Dichloropropene	ug/L				15.3	12.6	1	1				20	40	08/13/13	08/13/13		
Dibromochloromethane	ug/L				19.1	17.8	1	1				7	40	08/13/13	08/13/13		
Ethylbenzene	ug/L	0.50U	20	20	19.6	18.2	1	1	98	91	37-162	7	40	08/13/13	08/13/13		
m&p-Xylene	ug/L				39.5	37.1	1	1				6	40	08/13/13	08/13/13		
Methylene Chloride	ug/L				18.6	17.3	1	1				7	40	08/13/13	08/13/13		
o-Xylene	ug/L				19.1	18.1	1	1				5	40	08/13/13	08/13/13		
Tetrachloroethene	ug/L	0.50U	20	20	16.9	15.7	1	1	84	79	64-148	7	40	08/13/13	08/13/13		

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MATRIX SPIKE SAMPLE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV/9341
Method(s): EPA 624

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc		Result		Dilution		% Recovery		QC Limits		Max RPD		Analyzed Date		Qualifier(s)	
			MS	MSD	MS	MSD	MS	MSD	MS	MSD	%Recovery	MSD	RPD	RPD	MS	MSD	MS	MSD
Toluene	ug/L	0.50U	20	20	19.8	18.4	1	1	97	90	47-150		8	40	08/13/13	08/13/13		
trans-1,2-Dichloroethene	ug/L				18.7	17.3	1	1					8	40	08/13/13	08/13/13		
trans-1,3-Dichloropropene	ug/L				15.3	12.1	1	1					24	40	08/13/13	08/13/13		
Trichloroethene	ug/L				19.7	18.9	1	1					4	40	08/13/13	08/13/13		
Trichlorofluoromethane	ug/L				24.8	24.2	1	1					2	40	08/13/13	08/13/13		
Vinyl chloride	ug/L				21.2	20.3	1	1					4	40	08/13/13	08/13/13		
Xylene (Total)	ug/L				58.6	55.2	1	1					6	40	08/13/13	08/13/13		

Type	Sample	Client Sample ID
MS	694452	WEST GRAB
MSD	694453	WEST GRAB

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DUPLICATE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV/9341
Method(s): EPA 624

Prepared:

Analyte	QC Limits		Results		Units		Analyzed Qual	
	Dup RPD	MAX RPD	Sample	Dup	Sample	Dup	Sample	Dup
1,1,1-Trichloroethane	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
1,1,2,2-Tetrachloroethane	40	40	0.17U	0.17U	ug/L	0.17U	0.17U	0.17U
1,1,2-Trichloroethane	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
1,1-Dichloroethane	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
1,1-Dichloroethene	40	40	0.71U	0.71U	ug/L	0.71U	0.71U	0.71U
1,2-Dichlorobenzene	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
1,2-Dichloroethane	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
1,2-Dichloroethene (Total)	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
1,2-Dichloropropane	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
1,3-Dichlorobenzene	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
1,4-Dichlorobenzene	40	40	0.92U	0.92U	ug/L	0.92U	0.92U	0.92U
2-Chloroethylvinyl ether	40	40	5.0U	5.0U	ug/L	5.0U	5.0U	5.0U
Acrolein	40	40	10.0U	10.0U	ug/L	10.0U	10.0U	10.0U
Acrylonitrile	40	40	5.0U	5.0U	ug/L	5.0U	5.0U	5.0U
Benzene	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
Bromodichloromethane	40	40	0.30U	0.30U	ug/L	0.30U	0.30U	0.30U
Bromoform	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
Bromomethane	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
Carbon tetrachloride	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
Chlorobenzene	40	40	0.40U	0.40U	ug/L	0.40U	0.40U	0.40U
Chloroethane	40	40	0.61U	0.61U	ug/L	0.61U	0.61U	0.61U
Chloroform	40	40	3.3	3.4	ug/L	3.4	3.4	3.4
Chloromethane	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
cis-1,2-Dichloroethene	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
cis-1,3-Dichloropropene	40	40	0.25U	0.25U	ug/L	0.25U	0.25U	0.25U
Dibromochloromethane	40	40	0.25U	0.25U	ug/L	0.25U	0.25U	0.25U
Ethylbenzene	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
m&p-Xylene	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U
Methylene Chloride	40	40	2.5U	2.5U	ug/L	2.5U	2.5U	2.5U
o-Xylene	40	40	0.50U	0.50U	ug/L	0.50U	0.50U	0.50U

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REPORT OF LABORATORY ANALYSIS

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DUPLICATE RESULTS

Project: Miami Dade
Pace Project No.: 35103494

QB Batch: MSV/8341
Method(s): EPA 624

Prepared:

Analyte	QC Limits		Results		Units	Analyzed	Qual
	Dup RPD	MAX RPD	Sample	Dup			
Tetrachloroethene		40	0.50U	0.50U	ug/L	08/11/13	
Toluene		40	0.50U	0.50U	ug/L	08/11/13	
trans-1,2-Dichloroethene		40	0.50U	0.50U	ug/L	08/11/13	
trans-1,3-Dichloropropene		40	0.25U	0.25U	ug/L	08/11/13	
Trichloroethene		40	0.50U	0.50U	ug/L	08/11/13	
Trichlorofluoromethane		40	0.66U	0.66U	ug/L	08/11/13	
Vinyl chloride		40	0.53U	0.53U	ug/L	08/11/13	
Xylene (Total)		40	1.0U	1.0U	ug/L	08/11/13	

Client Sample ID
EAST GRAB DUPLICATE

REPORT OF LABORATORY ANALYSIS

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EPA 624

Calibration and Sample Data

EPA 624 & SW-846 8260B GC/MS Volatile Data Checklist

Analytical Methods

EPA 624 & SW-846 8260B

Instrument ID: 35MSV3

Analysis Date: 7/24/13

Run Set Up by: SK

Run Processed by: SK

Instrument Setup/Run Parameters are located in the most current version of the method SOP

☒ 8260B Water ☐ 8260B Soils ☐ 8260B TCLP ☐ EPA 624 Water

Analytical Batch/HBN #

ICAL

Analytical Batch/HBN #

Standard Traceability

Standards	Trace Number	Expiration Date	Concentration
Primary Calibration Mix 1	1-70	8/29/2013	200ug/mL
Primary Calibration Mix 2	2-55	12/14/2013	200ug/mL
Primary Calibration Mix 3	3-66	9/29/2013	Varied
Primary Calibration Mix 4	4-71	8/22/2013	2mg/mL
ICV/CCV/LCS/MS (2nd Source) Mix 1	680-68	8/27/2013	200ug/mL
ICV/CCV/LCS/MS (2nd Source) Mix 2	685-56	12/14/2013	200ug/mL
ICV/CCV/LCS/MS (2nd Source) Mix 3	686-66	9/29/2013	Varied
ICV/CCV/LCS/MS (2nd Source) Mix 4	687-69	8/22/2013	2mg/mL
Internal STD / Surrogate STD	6-147	2/10/2014	40ug/mL

☒ YES ☐ NO BFB Tune - Was BFB tune criteria demonstrated and met every 12 hours for 8260 and every 24 hours for 624?

Exceptions/Comments:

☒ YES ☐ NO Initial Calibration (ICAL) - within criteria, verified by a peer and/or included in this package for review. If using a previous curve, include reference to approval.

ICAL ID: 8260-3-130724.m

Date Created: 7/24/2013

Calibration Exceptions/Comments: Ethanol failed curve fit. 1,4-Dioxane not calibrated (low responses).

☒ YES ☐ NO System Performance Check Compounds (SPCCs) - Did the SPCCs meet the minimum response factors?

Exceptions/Comments:

☒ YES ☐ NO Calibration Check Compounds (CCCs) - Were the CCCs performed and within control, <30%RSD?

Exceptions/Comments:

	Document Name: EPA624 & SW-846	Document Revised: March 18, 2011
	8260B Checklist	Page 2 of 4
	Document No.: F-FL-O-201 rev.00	Issuing Authorities: Pace Ormond Beach FL Quality Office

☒ YES ☐ NO **Initial Calibration Verification (ICV)** - Was the ICV performed after the calibration? Percent Difference $\pm 30\%$.

Exceptions/Comments: Iodomethane and Carbon Disulfide F. L.

☒ YES ☐ NO **Continuing Calibration Verification (CCV/CCAL)** - Was CCV ran at the beginning of every run and every 12 hours during run? Was the SPCC and CCCs within acceptance limits? Correct ICAL associated with CCALs? If CCAL criteria were not met, list outliers, explain why samples were analyzed and impact on reported results. Also, corrective actions taken to bring into compliance.

Comments:

☐ YES ☐ NO **Hold Time** - Were samples analyzed within method required holding times? 14 day hold time for preserved samples. 7 day hold time for unpreserved samples. 14 day hold time for soil samples.

Comments:

☐ YES ☐ NO **Method Blank (MB)** - Prior to sample analysis, was Method Blank (MB) prepared and analyzed with associated samples? >>Were all target analytes at or below the reporting limits? >>>If not, were samples reanalyzed, reprepmed or qualified accordingly?

Comments:

☐ YES ☐ NO **Laboratory Control Sample (LCS)** - Percent recovery of each compound in the LCS with control limits? If not, were samples reanalyzed, reprepmed or qualified accordingly?

Comments:

☐ 1° Standard Used

☐ 2° Standard Used

☐ YES ☐ NO **Matrix Spike/Matrix Spike Duplicate (MS/MSD)** - performed with every 20 samples? Were percent recoveries and RPDs within control limits? If not, list the compounds, corrective action and discuss impact on data with appropriate qualifiers?

Comments:

☒ YES ☐ NO **Surrogates Spikes (SS)** - Percent recovery of each surrogate compounds within $\pm 30\%$? If surrogate outside limits, was sample reanalyzed? List outliers, any corrective action and discuss impact on data

Comments:

☒ YES ☐ NO **Internal Standards (IS)** - All samples met internal standard criteria of 50% - 200%? If not, list outliers, discuss impact on data and note if sample was reanalyzed.

Comments:

	Document Name: EPA624 & SW-846	Document Revised: March 18, 2011
	8260B Checklist	Page 3 of 4
	Document No.: F-FL-O-201 rev.00	Issuing Authorities: Pace Ormond Beach FL Quality Office

☐ YES ☐ NO Manual Integrations preformed?

☐ YES ☐ NO If so, then are ALL Manual Integrations identified with the reason for the integration according to the following:

NI: not Integrated by software	LT: too little area, i.e. Peak area was cut
GT: too much area, i.e. Peak tailing	BA: baseline had to be adjusted by analyst
CO: coeluting peaks had to be split	WP: wrong peak chosen i.e. misidentified by computer
RT: retention time shifted from expected	INT: electronic interference, i.e. Noise
Explain any other integrations issues here:	

ADDITIONAL COMMENTS:

"To the best of my knowledge all of the above information is correct and all supporting documentaion has been provided."

ANALYST: _____ DATE: _____ REVIEWER: _____ DATE: _____

CALIBRATION

Calibration Metric	Parameter / Frequency	Criteria	Comments
BFB Tune	8260 - every 12 hours 624 every 24 hours	See most current method SOP	If not met, recalibrate and repeat.
Calibration Curve Fit	Average Response Factor	%RSD $\leq$ 15%	If not met, try linear regression fit
	Linear Regression	$r^2 \geq 0.990$	If not met, try non-linear regression fit
	Quadratic	COD ≥ 0.990	If not met, remake standards and recalibrate
System Performance Check Compounds (SPCCs)	Chloromethane	Avg RF ≥ 0.10	Some possible problems are standard mixture degradation, injection port inlet contamination, contamination at the front end of the analytical column, poor purging efficiency, and active sites in the column or chromatographic system.
	1,1-Dichloroethane	Avg RF ≥ 0.10	
	Bromoform	Avg RF ≥ 0.10	
	Chlorobenzene	Avg RF ≥ 0.30	
	1,1,2,2-Tetrachloroethane	Avg RF ≥ 0.30	
Calibration Check Compounds (CCCs)	1,1-Dichloroethane	%RSD $< 30\%$	%RSD for the calibration check compounds (CCC's) must be $\leq 30\%$ regardless of curve fit used.
	Toluene		If the CCCs are not included on a list of analytes for a project, and therefore not included in the calibration standards, then all compounds of interest must meet a $\leq 15\%$ RSD criterion.
	Chloroform		
	Ethylbenzene		
	1,2-Dichloropropane		
	Vinyl Chloride		



METHOD CRITERIA

Initial Calibration Verification (ICV) - Second Source STD	Immediately after each initial calibration	% Diff $\pm 30\%$	Acceptance criteria are $\pm 30\%$ for all analytes
Continuing Calibration Verification (CCV) or CCAL	Prior to the analysis of any samples and every 12 hours thereafter		Only 2 injections of a CCV are permitted. If both fail, the analysis must be terminated.
	SPCCs	Must meet response criteria listed above	
	Internal Standard RT	RT ± 30 sec	Use midpoint calibration standard as reference
	Internal Standard Response	50 – 200%	Use midpoint calibration standard as reference
	CCCs	RF $\pm 20\%$ Diff. Result $\pm 20\%$ Drift	Use for Avg RF calibration curves Use for linear and non-linear calibration curves

BATCH CRITERIA

QA Sample	Components	Frequency	Acceptance Criteria	Corrective Action
Method Blank (MB)	Reagent water	One (1) per 20 samples or 12 hour window (whichever is most frequent)	1) Target analytes must be less than reporting limit. 2) If results are reported to MDL, target analytes in MB should be non-detect	1) Re-analyze associated samples. <u>Exceptions:</u> 1) If sample ND, report sample without qualification 2) If sample result $> 10 \times$ MB detects and sample cannot be reanalyzed, report sample with appropriate qualifier indicating blank contamination. 3) If sample result $< 10 \times$ MB detects, report sample with appropriate qualifier to indicate an estimated value. Client must be alerted and authorize this condition.
Laboratory Control Sample (LCS)	Full Target List compounds	One (1) per batch of up to 20 samples	8260---Laboratory derived limits; 624-Method defined Limits <u>Full Target List:</u> Marginal exceedances allowed according to NELAC 2003 Chap 5 D.1.1.2.1.e	1) Analyze a new LCS 2) If problem persists, check spike solution 3) Perform system maintenance prior to new LCS run <u>Exceptions:</u> 1) If LCS rec $>$ QC limits and these compounds are non-detect in the associated samples, the sample data may be reported with appropriate data qualifiers.
Matrix Spike (MS)	Method specified compounds: Benzene, Chlorobenzene, 1,1-Dichloroethene, Toluene, Trichloroethene <u>OR (alternative)</u> Full Target List compounds	One (1) per batch of up to 20 samples, must include one TCLP MS for any analyzed in sequence	8260 = Laboratory derived limits; 624=Method defined limits	1) If LCS and MBs are acceptable, the MS/MSD chromatogram should be reviewed and it may be reported with appropriate footnote indicating matrix interferences
MSD / Duplicate	MS Duplicate or Sample Duplicate	One (1) for every 5% of all environmental samples	Same as for MS	1) Report results with an appropriate footnote.

Date : 25-JUL-2013 08:19

Client ID:

Instrument: 35msv3.i

Sample Info: ICAL7

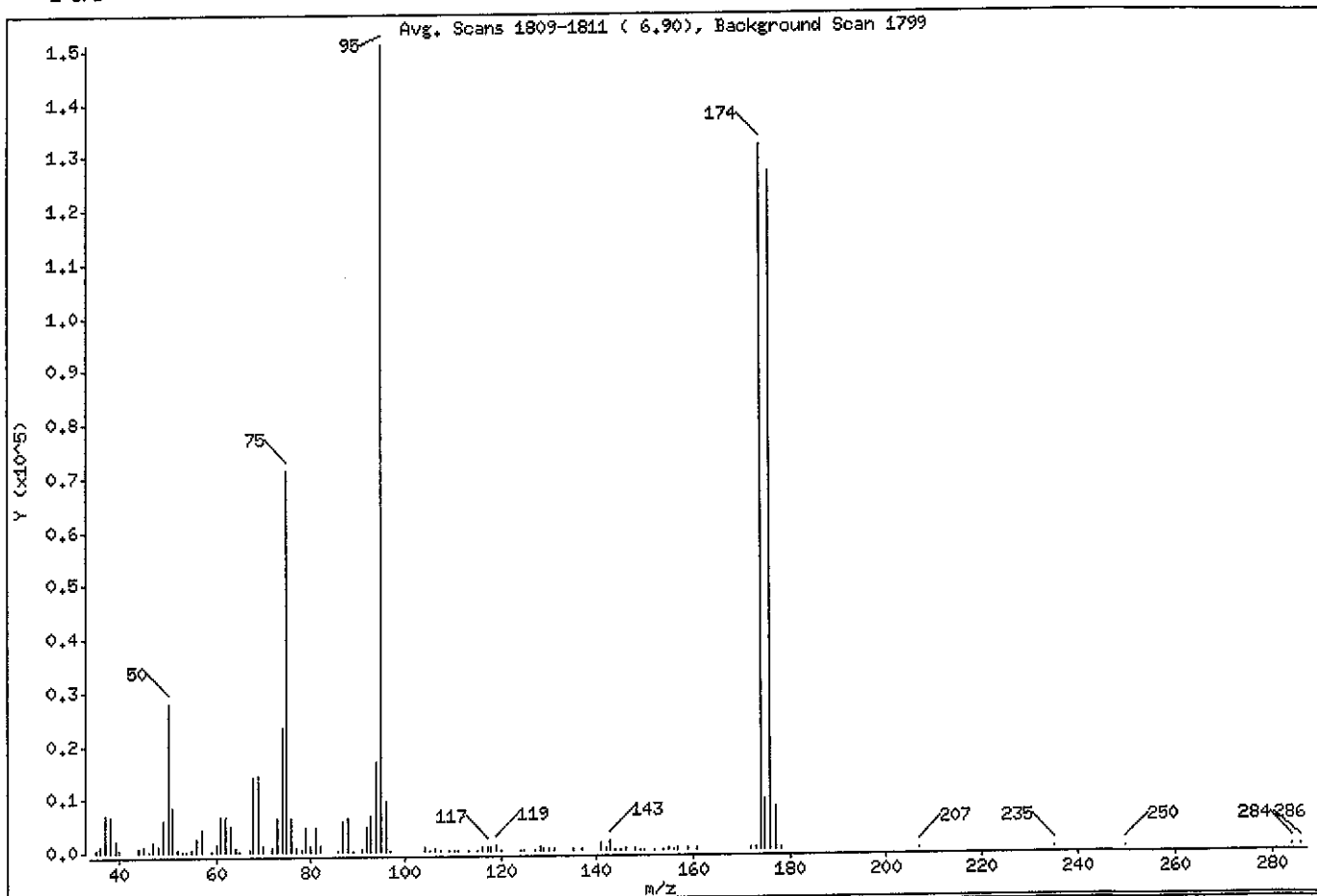
Volume Injected (uL): 1.0

Operator: SK

Column phase:

Column diameter: 2.00

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.32
75	30.00 - 60.00% of mass 95	47.29
96	5.00 - 9.00% of mass 95	6.33
173	Less than 2.00% of mass 174	0.20 (0.23)
174	50.00 - 200.00% of mass 95	87.41
175	5.00 - 9.00% of mass 174	6.26 (7.16)
176	95.00 - 101.00% of mass 174	84.20 (96.33)
177	5.00 - 9.00% of mass 176	5.36 (6.36)

Data File: \\354\mintarget\chem\35msv3.i\130724.b\tune\0724008.D

Date : 24-JUL-2013 12:31

Instrument: 35msv3.i

Client ID:

Sample Info: CCB

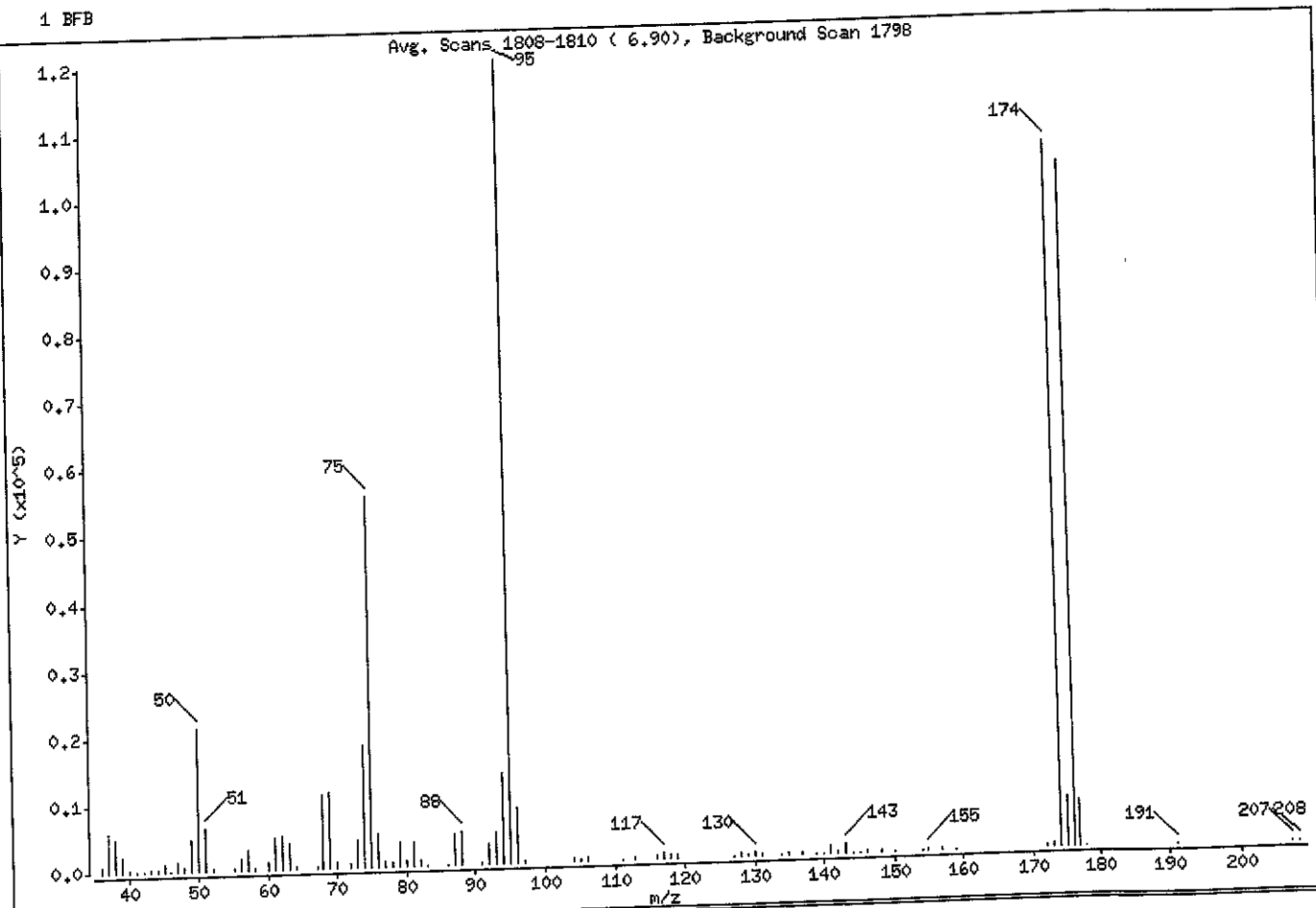
Operator: SK

Volume Injected (uL): 1.0

Column diameter: 2.00

Column phase:

1 BFB

SK
8/2/13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.77
75	30.00 - 60.00% of mass 95	46.19
96	5.00 - 9.00% of mass 95	6.91
173	Less than 2.00% of mass 174	0.39 (0.44)
174	50.00 - 200.00% of mass 95	87.77
175	5.00 - 9.00% of mass 174	6.11 (6.96)
176	95.00 - 101.00% of mass 174	88.19 (97.06)
177	5.00 - 9.00% of mass 176	5.74 (6.74)

Pace Analytical Services, Inc.

SK
8/21/13

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724012.D
Lab Smp Id: ICAL1
Inj Date : 24-JUL-2013 14:08
Operator : SK
Smp Info : ICAL1
Misc Info : , , SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130724ICAL.b\8260-3-130724.m
Meth Date : 25-Jul-2013 10:05 skaneyama Quant Type: ISTD
Cal Date : 24-JUL-2013 14:08 Cal File: 0724012.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG					AMOUNTS		REVIEW CODE	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)		
=====	----	----	----	-----	-----	-----	-----	-----	
* 1 Fluorobenzene (I)	96	4.134	4.136	(1.000)	461364	40.0000			
* 2 Chlorobenzene-d5 (I)	82	6.069	6.074	(1.000)	187329	40.0000			
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.699	7.704	(1.000)	173584	40.0000			
\$ 4 Dibromofluoromethane (S)	111	3.662	3.662	(0.886)	123125	40.0000		39.2	
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.974	3.979	(0.961)	131772	40.0000		37.4 (Q)	
\$ 6 Toluene-d8 (S)	98	5.077	5.080	(1.228)	437732	40.0000		39.2	
\$ 7 4-Bromofluorobenzene (S)	174	6.897	6.902	(1.136)	141728	40.0000		39.0	
8 Dichlorodifluoromethane	85	1.253	1.249	(0.303)	1653	0.50000		1.11	
10 Vinyl Chloride	62	1.455	1.451	(0.352)	2155	0.50000		2.59 (Q)	
11 Bromomethane	94	1.686	1.688	(0.408)	380	0.50000		7.88 (Q)	
12 Chloroethane	64	1.785	1.775	(0.432)	2303	0.50000		0.476 (aQ)	
13 Trichlorofluoromethane	101	1.885	1.874	(0.456)	2856	0.50000		4.21	
14 Ethanol	45	2.093	2.208	(0.506)	1246	20.0000		70.2 (Q)	
158 Ethyl Ether	45	2.093	2.093	(0.506)	1246	0.50000		0.294 (a)	
15 1,1,2-Trichlorotrifluoroethan	151	2.251	2.247	(0.544)	1695	0.50000		0.304 (aQ)	
16 Acrolein	56	2.456	2.452	(0.594)	3417	5.00000		5.60	
17 1,1-Dichloroethene	61	2.225	2.221	(0.538)	3799	0.50000		0.409 (aQ)	
18 Acetone	43	2.636	2.641	(0.638)	1209	0.50000		1.05 (Q)	
19 Iodomethane	142	Compound Not Detected.							
20 Carbon Disulfide	76	2.247	2.240	(0.544)	11907	0.50000		0.678 (Q)	
21 Allyl chloride	41	2.530	2.532	(0.612)	5434	0.50000		0.620 (Q)	
22 Acetonitrile	41	2.931	2.933	(0.709)	1039	5.00000		1.62 (Q)	
23 Methylene Chloride	49	2.597	2.599	(0.628)	2997	0.50000		0.342 (aQ)	

Compounds	QUANT SIG	AMOUNTS					REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	
159 tert-Butyl Alcohol	59	3.216	3.216 (0.778)	15556	5.00000	4.17 (Q)	
24 Methyl-tert-butyl Ether	73	2.770	2.770 (0.670)	9834	0.50000	0.508 (Q)	
25 trans-1,2-Dichloroethene	61	2.700	2.699 (0.653)	4164	0.50000	0.429 (a)	
165 methyl Acetate	43	2.713	2.715 (0.656)	1344	0.50000	0.250 (aQ)	
26 Acrylonitrile	53	3.110	3.119 (0.752)	3529	5.00000	1.56 (Q)	
164 n-hexane	57	2.748	2.744 (0.665)	4000	0.50000	0.279 (aQ)	
162 Diisopropyl ether	45	2.992	2.997 (0.724)	4306	0.50000	0.192 (aQ)	
27 1,1-Dichloroethane	63	3.075	3.078 (0.744)	5386	0.50000	0.472 (aQ)	
28 Vinyl Acetate	43	3.223	3.225 (0.780)	12495	0.50000	0.409 (aQ)	
29 Chloroprene	53	3.062	3.058 (0.741)	4175	0.50000	0.417 (aQ)	
166 Ethyl-tert-butyl ether	59	3.216	3.216 (0.778)	15556	0.50000	0.417 (a)	
30 2,2-Dichloropropane	77	Compound Not Detected.					
31 cis-1,2-Dichloroethene	61	3.390	3.398 (0.820)	1385	0.50000	0.172 (aQ)	
161 Ethyl Acetate	43	3.624	3.623 (0.877)	6510	1.00000	1.10 (Q)	
32 2-Butanone	43	3.736	3.742 (0.904)	1074	0.50000	0.199 (aQ)	
33 Propionitrile	54	Compound Not Detected.					
167 Tetrahydrofuran	42	3.656	3.655 (0.884)	7967	5.00000	4.62 (Q)	
35 Methacrylonitrile	41	3.925	3.934 (0.950)	17944	5.00000	4.08 (Q)	
36 Chloroform	83	3.556	3.553 (0.860)	5120	0.50000	0.509 (Q)	
172 tert-Butyl Formate	59	3.216	3.216 (0.778)	15556	2.50000	2.08	
171 cyclohexane	56	3.512	3.514 (0.849)	3355	0.50000	0.337 (aQ)	
37 1,1,1-Trichloroethane	97	3.672	3.678 (0.888)	1898	0.50000	0.208 (aQ)	
38 Carbon Tetrachloride	117	3.640	3.636 (0.880)	2075	0.50000	4.19 (Q)	
39 1,1-Dichloropropene	75	3.749	3.748 (0.907)	2977	0.50000	0.388 (aQ)	
41 Benzene	78	3.893	3.896 (0.942)	9943	0.50000	1.20 (Q)	
163 tert-amyl Alcohol	59	4.070	4.078 (0.984)	1337	10.0000	2.98 (Q)	
169 tert-amyl methyl ether	73	3.954	3.957 (0.957)	14456	0.50000	0.394 (aQ)	
42 1,2-Dichloroethane	62	4.009	4.018 (0.970)	864	0.50000	0.101 (aQ)	
168 Methylcyclohexane	83	4.224	4.230 (1.022)	2252	0.50000	0.212 (aQ)	
44 1,2-Dichloropropane	63	4.548	4.550 (1.100)	1453	0.50000	0.234 (aQ)	
45 Methyl methacrylate	69	4.660	4.666 (1.127)	616	0.50000	0.149 (aQ)	
46 1,4-Dioxane	88	Compound Not Detected.					
47 Dibromomethane	174	4.490	4.489 (1.086)	1455	0.50000	0.345 (aQ)	
48 Bromodichloromethane	83	4.580	4.583 (1.108)	2639	0.50000	2.36 (QM)	LT
49 2-Chloroethyl Vinyl Ether	63	4.917	4.919 (1.189)	1370	0.50000	2.60 (Q)	
50 cis-1,3-Dichloropropene	75	4.962	4.964 (1.200)	3155	0.50000	2.17 (Q)	
51 4-Methyl-2-Pentanone	43	Compound Not Detected.					
52 Toluene	91	5.110	5.112 (0.842)	12268	0.50000	0.470 (a)	
53 trans-1,3-Dichloropropene	75	5.363	5.369 (0.884)	2784	0.50000	2.36 (Q)	
54 Ethyl methacrylate	41	5.463	5.459 (0.900)	2080	0.50000	0.370 (aQ)	
55 1,1,2-Trichloroethane	97	5.475	5.471 (0.902)	2299	0.50000	0.411 (aQ)	
56 Tetrachloroethene	166	5.350	5.353 (0.882)	2921	0.50000	0.385 (aQ)	
57 1,3-Dichloropropane	76	5.649	5.648 (0.931)	3830	0.50000	0.411 (aQ)	
58 2-Hexanone	43	5.876	5.879 (0.968)	1585	0.50000	4.74 (Q)	
59 Dibromochloromethane	129	5.581	5.587 (0.920)	1402	0.50000	2.52 (Q)	
160 3,3-dimethyl-1-butanol	57	5.854	5.856 (0.965)	1108	10.0000	192 (Q)	
60 1,2-Dibromoethane	107	5.748	5.744 (0.947)	2379	0.50000	0.423 (a)	
61 Chlorobenzene	112	6.082	6.084 (1.002)	8549	0.50000	0.453 (aQ)	
62 Ethylbenzene	91	6.091	6.097 (1.004)	13656	0.50000	0.435 (a)	
63 1,1,1,2-Tetrachloroethane	131	6.124	6.126 (1.009)	1402	0.50000	1.76 (Q)	
64 m&p-Xylene	91	6.191	6.097 (1.020)	17829	1.00000	0.780 (Q)	
65 o-Xylene	91	6.483	6.485 (1.068)	9091	0.50000	0.378 (a)	
66 Styrene	104	6.518	6.521 (1.074)	6563	0.50000	1.04 (Q)	
67 Bromoform	173	6.537	6.543 (1.077)	346	0.50000	4.74	

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT		ON-COL
							(ug/L)		(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
68 Isopropylbenzene (cumene)	105	6.691	6.697	{1.103}	5061	0.50000	0.182 (aQ)		
69 Bromobenzene	77	6.971	6.976	{0.905}	2878	0.50000	0.242 (aQ)		
70 1,1,2,2-Tetrachloroethane	83	7.035	7.037	{0.914}	2925	0.50000	0.460 (aQ)		
71 n-Propylbenzene	91	6.987	6.989	{0.907}	13313	0.50000	0.396 (a)		
72 1,2,3-Trichloropropane	75	7.134	7.137	{0.927}	2981	0.50000	0.487 (a)		
73 trans 1,4-Dichloro-2-butene	53	7.170	7.166	{0.931}	349	0.50000	4.99 (Q)		
170 cis-1,4-dichloro-2-butene	53	6.942	6.944	{0.902}	312	0.50000	8.84 (Q)		
74 2-Chlorotoluene	91	7.224	7.223	{0.938}	8054	0.50000	0.412 (aQ)		
75 1,3,5-Trimethylbenzene	105	7.125	7.130	{0.925}	9158	0.50000	0.401 (a)		
76 4-Chlorotoluene	91	7.224	7.223	{0.938}	8054	0.50000	0.412 (aQ)		
77 tert-Butylbenzene	119	7.356	7.358	{0.955}	8123	0.50000	2.66 (Q)		
78 1,2,4-Trimethylbenzene	105	7.404	7.409	{0.962}	8148	0.50000	0.364 (a)		
79 Pentachloroethane	167	7.372	7.374	{0.957}	884	0.50000	5.07 (Q)		
80 sec-Butylbenzene	105	7.484	7.486	{0.972}	9306	0.50000	0.367 (aQ)		
81 p-Isopropyltoluene	119	7.590	7.592	{0.986}	7064	0.50000	1.53		
82 1,3-Dichlorobenzene	146	7.651	7.650	{0.994}	5573	0.50000	0.432 (aQ)		
83 1,4-Dichlorobenzene	146	7.709	7.714	{1.001}	4338	0.50000	0.328 (aQ)		
84 1,2,3-Trimethylbenzene	105	7.731	7.730	{1.870}	10278	0.50000	0.411 (a)		
85 n-Butylbenzene	91	7.901	7.904	{1.026}	6291	0.50000	1.61		
86 1,2-Dichlorobenzene	146	8.030	8.026	{1.043}	4967	0.50000	0.456 (a)		
87 1,2-Dibromo-3-Chloropropane	75	8.630	8.629	{1.121}	138	0.50000	2.32		
88 1,2,4-Trichlorobenzene	180	9.153	9.155	{1.189}	812	0.50000	0.233 (aQ)		
89 Hexachloro-1,3-butadiene	225	9.133	9.129	{1.186}	430	0.50000	0.263 (aQ)		
90 Naphthalene	128	Compound Not Detected.							
91 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\35Mintarget\chem\35msv3.1\130724IC1.b\0724012.D

Date: 24-JUL-2013 14:08

Client ID:

Sample Info: ICAL1

Purge Volume: 5.0

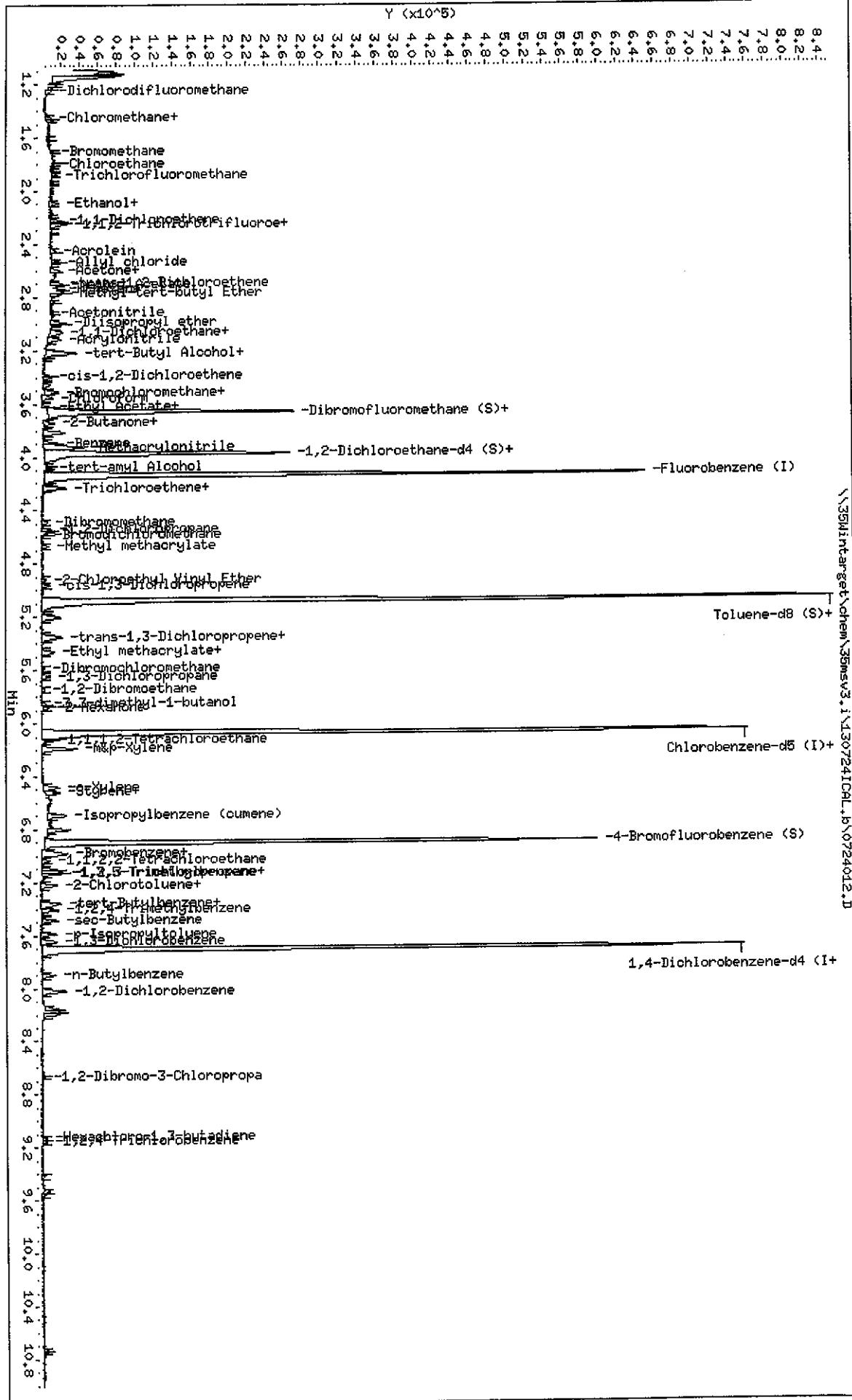
Column phase: RTX-VMS

Instrument: 35msv3.1

Operator: SK

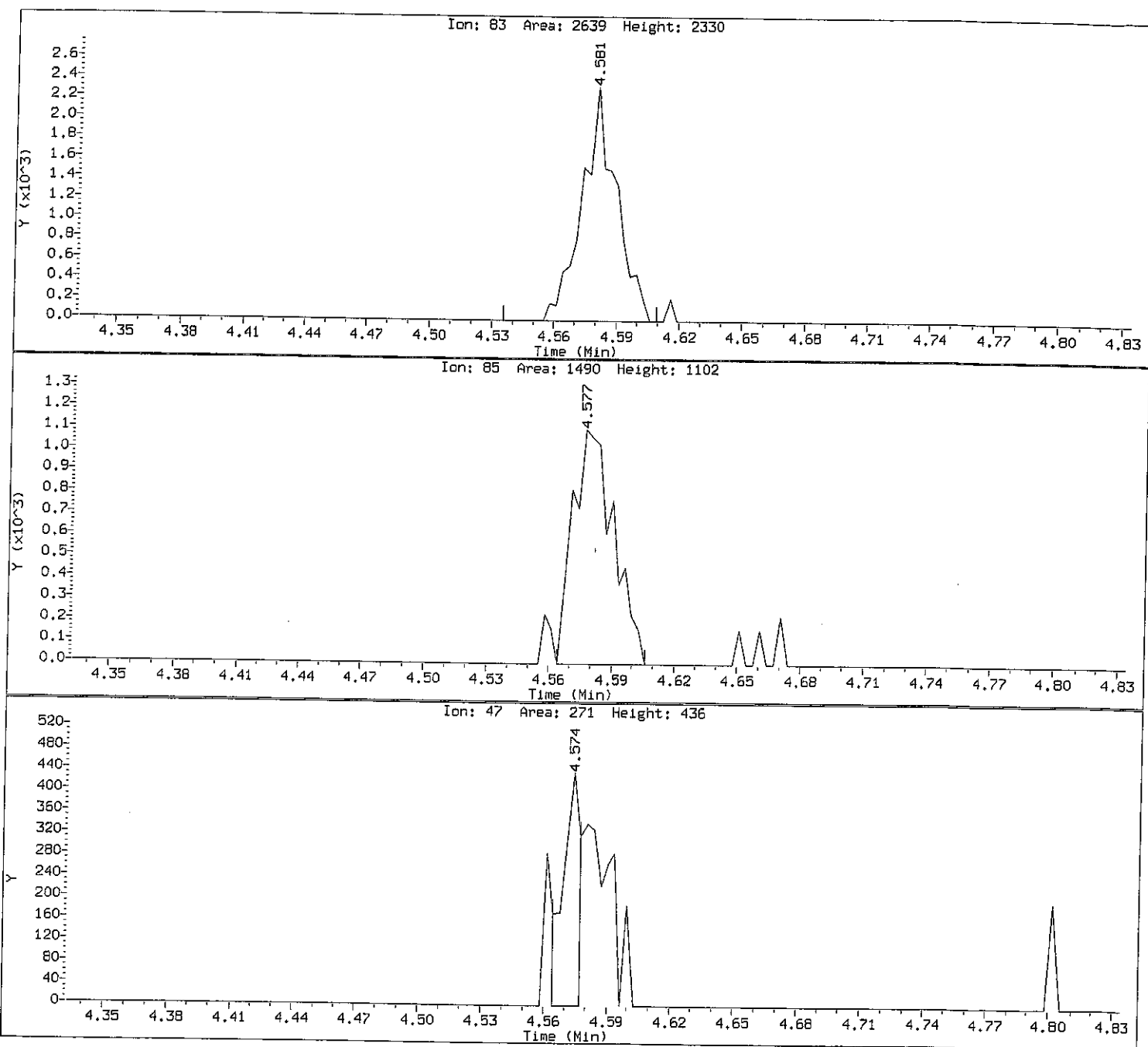
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Page 4



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724012.D
Injection Date: 24-JUL-2013 14:08
Instrument: 35msv3.i
Lab Sample ID: ICAL1

Compound: Bromodichloromethane
CAS Number: 75-27-4



Pace Analytical Services, Inc.

SK
8/21/13

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Lab Smp Id: ICAL2
Inj Date : 24-JUL-2013 14:33
Operator : SK
Smp Info : ICAL2
Misc Info : , , SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130724ICAL.b\8260-3-130724.m
Meth Date : 25-Jul-2013 10:05 skaneyama Quant Type: ISTD
Cal Date : 24-JUL-2013 14:33 Cal File: 0724013.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14

Inst ID: 35msv3.i

Calibration Sample, Level: 2

Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
*****	****	----	-----	-----	-----	-----	-----	-----	-----
* 1 Fluorobenzene (I)	96	4.135	4.136	(1.000)	460266	40.0000			
* 2 Chlorobenzene-d5 (I)	82	6.070	6.074	(1.000)	185502	40.0000			
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.700	7.704	(1.000)	176272	40.0000			
\$ 4 Dibromofluoromethane (S)	111	3.660	3.662	(0.885)	123802	40.0000	39.5		
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.974	3.979	(0.961)	131884	40.0000	37.5 (Q)		
\$ 6 Toluene-d8 (S)	98	5.078	5.080	(1.228)	440981	40.0000	39.5		
\$ 7 4-Bromofluorobenzene (S)	174	6.898	6.902	(1.136)	143749	40.0000	40.0		
8 Dichlorodifluoromethane	85	1.253	1.249	(0.303)	4201	1.00000	1.50 (Q)		
9 Chloromethane	50	1.465	1.425	(0.354)	4172	1.00000	0.973 (QM)		LT
10 Vinyl Chloride	62	1.452	1.451	(0.351)	4778	1.00000	2.91 (Q)		
11 Bromomethane	94	1.690	1.688	(0.409)	947	1.00000	8.21 (QM)		LT
12 Chloroethane	64	1.776	1.775	(0.430)	4900	1.00000	1.01 (QM)		LT
13 Trichlorofluoromethane	101	1.882	1.874	(0.455)	7207	1.00000	4.54		
14 Ethanol	45	2.197	2.208	(0.531)	1132	40.0000	63.9 (QM)		WP
158 Ethyl Ether	45	2.094	2.093	(0.507)	4609	1.00000	1.09 (Q)		
15 1,1,2-Trichlorotrifluoroethan	151	2.251	2.247	(0.545)	4843	1.00000	0.871 (QM)		LT
16 Acrolein	56	2.450	2.452	(0.593)	7446	10.0000	10.3 (QM)		LT
17 1,1-Dichloroethene	61	2.226	2.221	(0.538)	7860	1.00000	0.848		
18 Acetone	43	2.649	2.641	(0.641)	5996	1.00000	2.19 (QM)		LT
19 Iodomethane	142	2.325	2.317	(0.562)	777	1.00000	4.61 (QM)		LT
20 Carbon Disulfide	76	2.245	2.240	(0.543)	17811	1.00000	1.02		
21 Allyl chloride	41	2.537	2.532	(0.614)	8308	1.00000	0.950 (QM)		LT
22 Acetonitrile	41	2.932	2.933	(0.709)	6408	10.0000	10.0 (QM)		BA

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49	2.607	2.599	(0.631)	9674	1.00000	1.11 (QM)	LT
159 tert-Butyl Alcohol	59	3.214	3.216	(0.777)	29858	10.0000	8.02	
24 Methyl-tert-butyl Ether	73	2.774	2.770	(0.671)	16906	1.00000	0.876 (Q)	
25 trans-1,2-Dichloroethene	61	2.697	2.699	(0.652)	8484	1.00000	0.876	
165 methyl Acetate	43	2.717	2.715	(0.657)	9316	1.00000	1.73 (QM)	BA
26 Acrylonitrile	53	3.118	3.119	(0.754)	19862	10.0000	8.81	
164 n-hexane	57	2.749	2.744	(0.665)	12294	1.00000	0.859 (QM)	LT
162 Diisopropyl ether	45	2.999	2.997	(0.725)	19858	1.00000	0.890	
27 1,1-Dichloroethane	63	3.076	3.078	(0.744)	9918	1.00000	0.872 (Q)	
28 Vinyl Acetate	43	3.224	3.225	(0.780)	24278	1.00000	0.796	
29 Chloroprene	53	3.063	3.058	(0.741)	8646	1.00000	0.866 (Q)	
166 Ethyl-tert-butyl ether	59	3.214	3.216	(0.777)	29858	1.00000	0.802	
30 2,2-Dichloropropane	77	3.461	3.459	(0.837)	6450	1.00000	0.750 (QM)	BA
31 cis-1,2-Dichloroethene	61	3.400	3.398	(0.822)	6846	1.00000	0.853	
161 Ethyl Acetate	43	3.621	3.623	(0.876)	12447	2.00000	2.11 (Q)	
32 2-Butanone	43	3.737	3.742	(0.904)	4877	1.00000	0.906 (Q)	
33 Propionitrile	54	3.923	3.928	(0.949)	7164	10.0000	7.88 (Q)	
34 Bromochloromethane	130	3.512	3.514	(0.849)	3158	1.00000	0.190 (aQM)	LT
167 Tetrahydrofuran	42	3.657	3.655	(0.884)	13861	10.0000	8.05	
35 Methacrylonitrile	41	3.926	3.934	(0.950)	32876	10.0000	7.50	
36 Chloroform	83	3.557	3.553	(0.860)	8695	1.00000	0.867	
172 tert-Butyl Formate	59	3.214	3.216	(0.777)	29858	5.00000	4.01	
171 cyclohexane	56	3.512	3.514	(0.849)	7773	1.00000	0.783 (Q)	
37 1,1,1-Trichloroethane	97	3.682	3.678	(0.891)	7351	1.00000	0.808 (Q)	
38 Carbon Tetrachloride	117	3.638	3.636	(0.880)	4198	1.00000	4.43 (Q)	
39 1,1-Dichloropropene	75	3.750	3.748	(0.907)	5881	1.00000	0.768 (Q)	
40 Isobutyl alcohol	43	4.010	4.018	(0.970)	3306	20.0000	2.00 (QM)	LT
41 Benzene	78	3.891	3.896	(0.941)	19802	1.00000	1.59 (M)	LT
163 tert-amyl Alcohol	59	4.074	4.078	(0.985)	6775	20.0000	15.2 (Q)	
169 tert-amyl methyl ether	73	3.955	3.957	(0.957)	27849	1.00000	0.760	
42 1,2-Dichloroethane	62	4.016	4.018	(0.971)	6688	1.00000	0.786 (Q)	
43 Trichloroethene	132	4.234	4.236	(1.024)	5713	1.00000	0.800	
168 Methylcyclohexane	83	4.231	4.230	(1.023)	7816	1.00000	0.739 (Q)	
44 1,2-Dichloropropane	63	4.549	4.550	(1.100)	5261	1.00000	0.850	
45 Methyl methacrylate	69	4.668	4.666	(1.129)	3132	1.00000	0.758 (Q)	
46 1,4-Dioxane	88	4.761	4.717	(1.151)	63	20.0000	2.11 (Q)	
47 Dibromomethane	174	4.488	4.489	(1.085)	3512	1.00000	0.835	
48 Bromodichloromethane	83	4.581	4.583	(1.108)	5257	1.00000	2.67	
49 2-Chloroethyl Vinyl Ether	63	4.921	4.919	(1.190)	2928	1.00000	2.82 (QM)	LT
50 cis-1,3-Dichloropropene	75	4.960	4.964	(1.199)	5952	1.00000	2.42 (QM)	LT
51 4-Methyl-2-Pentanone	43	5.345	5.343	(0.881)	9669	1.00000	0.798 (QM)	NI
52 Toluene	91	5.110	5.112	(0.842)	23397	1.00000	0.906	
53 trans-1,3-Dichloropropene	75	5.364	5.369	(0.884)	5285	1.00000	2.61 (Q)	
54 Ethyl methacrylate	41	5.460	5.459	(0.900)	4528	1.00000	0.814 (M)	BA
55 1,1,2-Trichloroethane	97	5.467	5.471	(0.901)	5028	1.00000	0.908 (Q)	
56 Tetrachloroethene	166	5.348	5.353	(0.881)	6311	1.00000	0.840 (M)	LT
57 1,3-Dichloropropane	76	5.646	5.648	(0.930)	7728	1.00000	0.838 (Q)	
58 2-Hexanone	43	5.877	5.879	(0.968)	7340	1.00000	5.17 (QM)	LT
59 Dibromochloromethane	129	5.582	5.587	(0.920)	2885	1.00000	2.76 (Q)	
160 3,3-dimethyl-1-butanol	57	5.852	5.856	(0.964)	3724	20.0000	196 (Q)	
60 1,2-Dibromoethane	107	5.742	5.744	(0.946)	4434	1.00000	0.796	
61 Chlorobenzene	112	6.083	6.084	(1.002)	16303	1.00000	0.872 (Q)	
62 Ethylbenzene	91	6.095	6.097	(1.004)	25986	1.00000	0.835	
63 1,1,1,2-Tetrachloroethane	131	6.121	6.126	(1.008)	3952	1.00000	2.14 (Q)	

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
64 m&p-Xylene	91	6.192	6.097	(1.020)	35466	2.00000	1.56	
65 o-Xylene	91	6.484	6.485	(1.068)	17883	1.00000	0.750	
66 Styrene	104	6.519	6.521	(1.074)	12347	1.00000	1.31	
67 Bromoform	173	6.538	6.543	(1.077)	1224	1.00000	4.96 (QM)	LT
68 Isopropylbenzene (cumene)	105	6.699	6.697	(1.104)	21242	1.00000	0.690 (Q)	
69 Bromobenzene	77	6.978	6.976	(0.906)	10439	1.00000	0.863 (QM)	LT
70 1,1,2,2-Tetrachloroethane	83	7.036	7.037	(0.914)	5714	1.00000	0.886 (Q)	
71 n-Propylbenzene	91	6.984	6.989	(0.907)	26069	1.00000	0.765	
72 1,2,3-Trichloropropane	75	7.138	7.137	(0.927)	5207	1.00000	0.838 (Q)	
73 trans 1,4-Dichloro-2-butene	53	7.167	7.166	(0.931)	948	1.00000	5.32 (Q)	
170 cis-1,4-dichloro-2-butene	53	6.943	6.944	(0.902)	894	1.00000	9.09 (QM)	LT
74 2-Chlorotoluene	91	7.222	7.223	(0.938)	15812	1.00000	0.796 (Q)	
75 1,3,5-Trimethylbenzene	105	7.125	7.130	(0.925)	16391	1.00000	0.707	
76 4-Chlorotoluene	91	7.222	7.223	(0.938)	15812	1.00000	0.796 (Q)	
77 tert-Butylbenzene	119	7.357	7.358	(0.955)	15886	1.00000	2.96	
78 1,2,4-Trimethylbenzene	105	7.408	7.409	(0.962)	16072	1.00000	0.707	
79 Pentachloroethane	167	7.369	7.374	(0.957)	2103	1.00000	5.34 (QM)	LT
80 sec-Butylbenzene	105	7.482	7.486	(0.972)	18474	1.00000	0.717	
81 p-Isopropyltoluene	119	7.588	7.592	(0.985)	14384	1.00000	1.82	
82 1,3-Dichlorobenzene	146	7.649	7.650	(0.993)	11101	1.00000	0.848	
83 1,4-Dichlorobenzene	146	7.709	7.714	(1.001)	11704	1.00000	0.873 (Q)	
84 1,2,3-Trimethylbenzene	105	7.726	7.730	(1.868)	19799	1.00000	0.794	
85 n-Butylbenzene	91	7.902	7.904	(1.026)	12260	1.00000	1.90	
86 1,2-Dichlorobenzene	146	8.024	8.026	(1.042)	9412	1.00000	0.850	
87 1,2-Dibromo-3-Chloropropane	75	8.627	8.629	(1.120)	602	1.00000	2.88 (QM)	LT
88 1,2,4-Trichlorobenzene	180	9.157	9.155	(1.189)	2710	1.00000	0.765 (Q)	
89 Hexachloro-1,3-butadiene	225	9.131	9.129	(1.186)	1368	1.00000	0.823 (Q)	
90 Naphthalene	128	9.413	9.412	(1.223)	4817	1.00000	2.25 (Q)	
91 1,2,3-Trichlorobenzene	180	9.555	9.556	(1.241)	1584	1.00000	4.37 (QM)	LT

QC Flag Legend

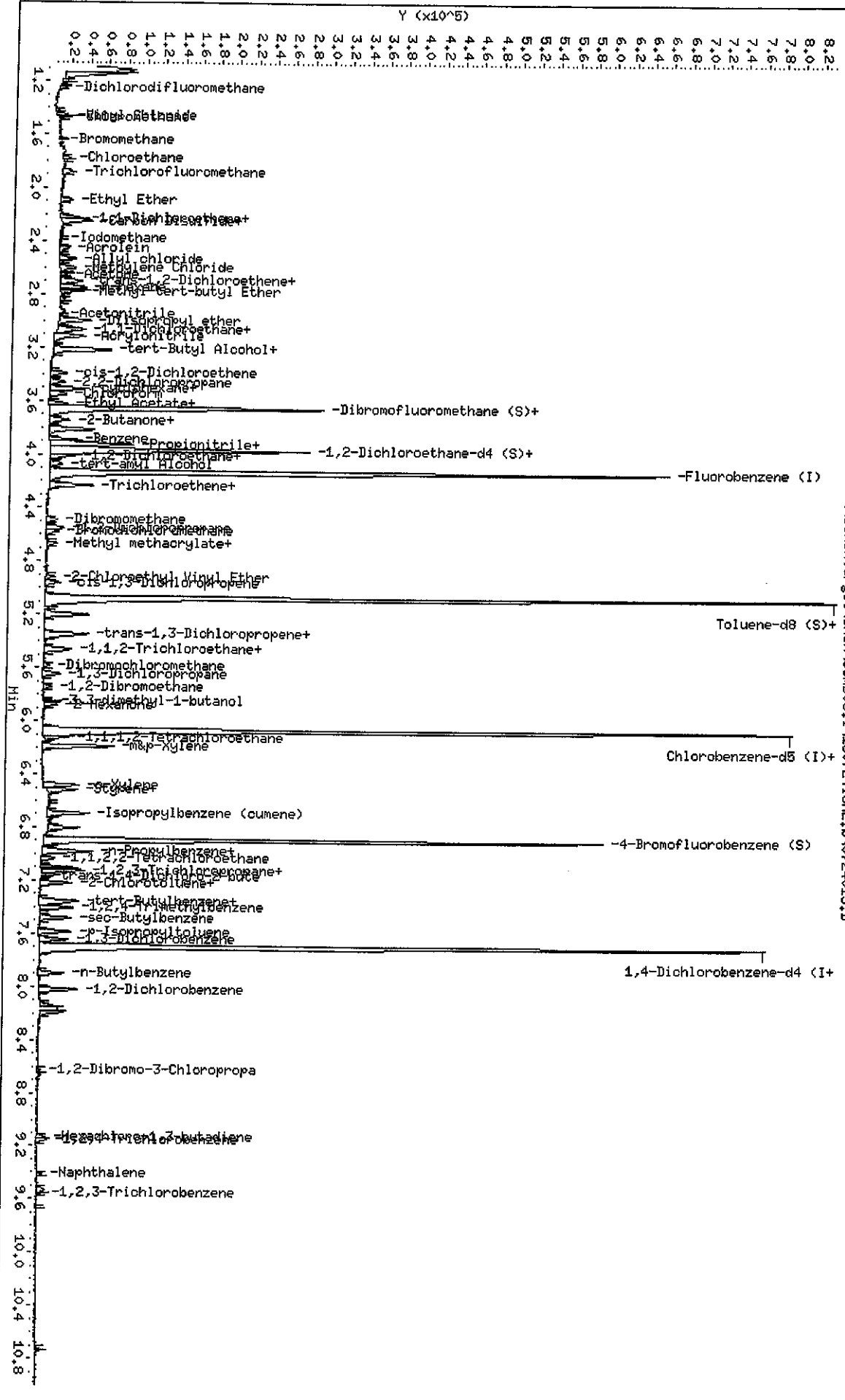
- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Client ID:
Sample Info: ICAL2
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 35msv3.1

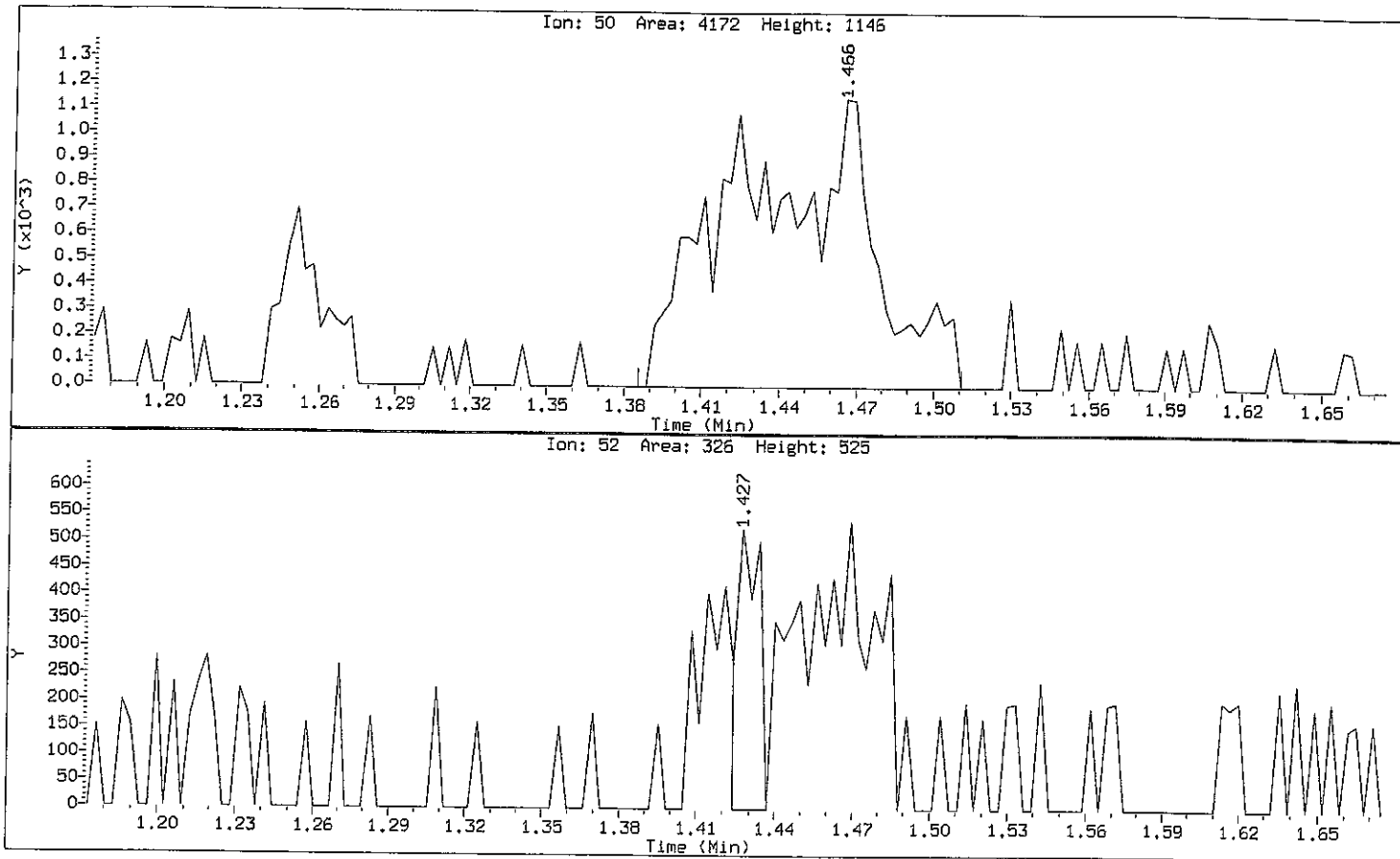
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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: Chloromethane
CAS Number: 74-87-3



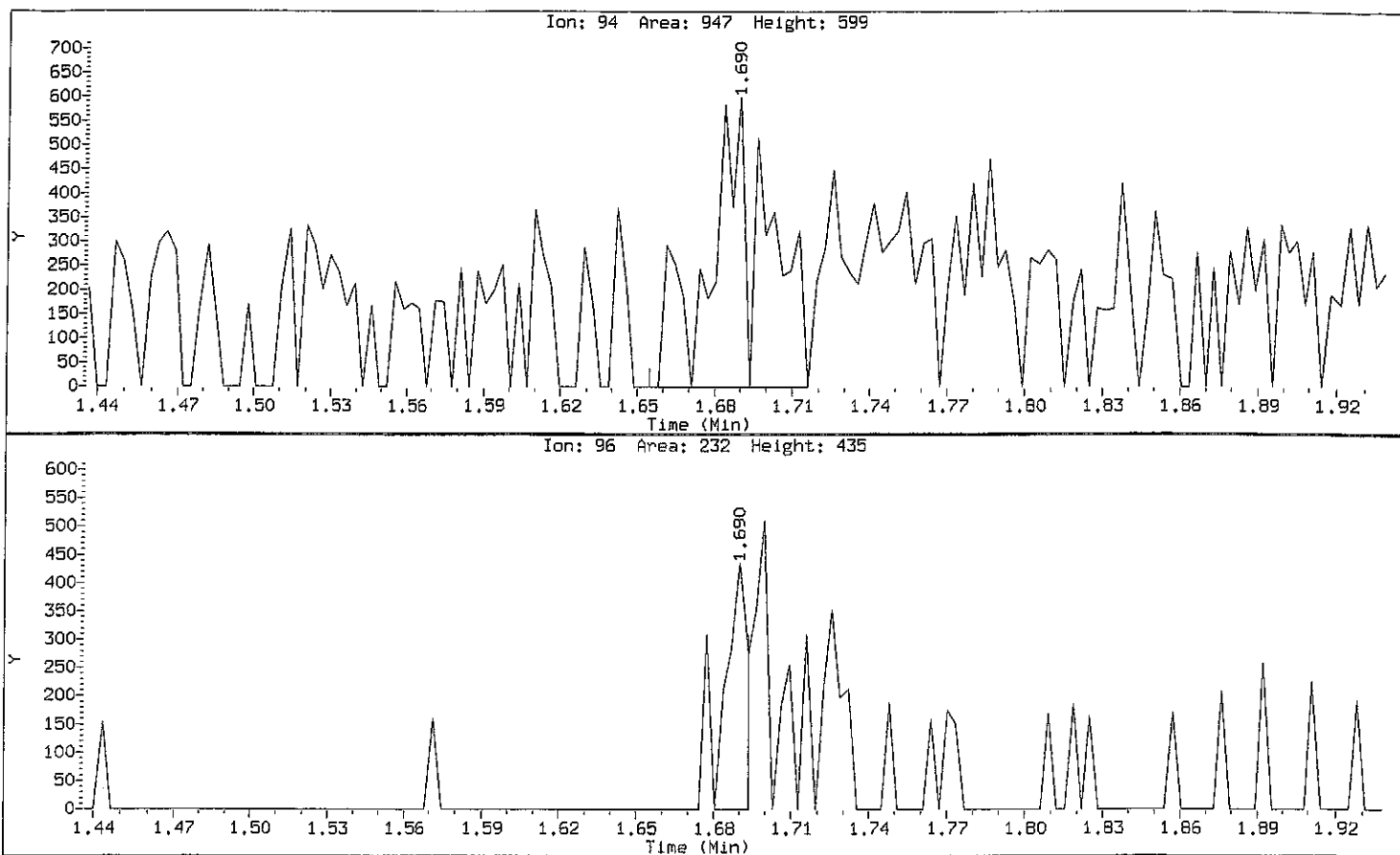
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Instrument: 35msv3.i

Lab Sample ID: ICAL2

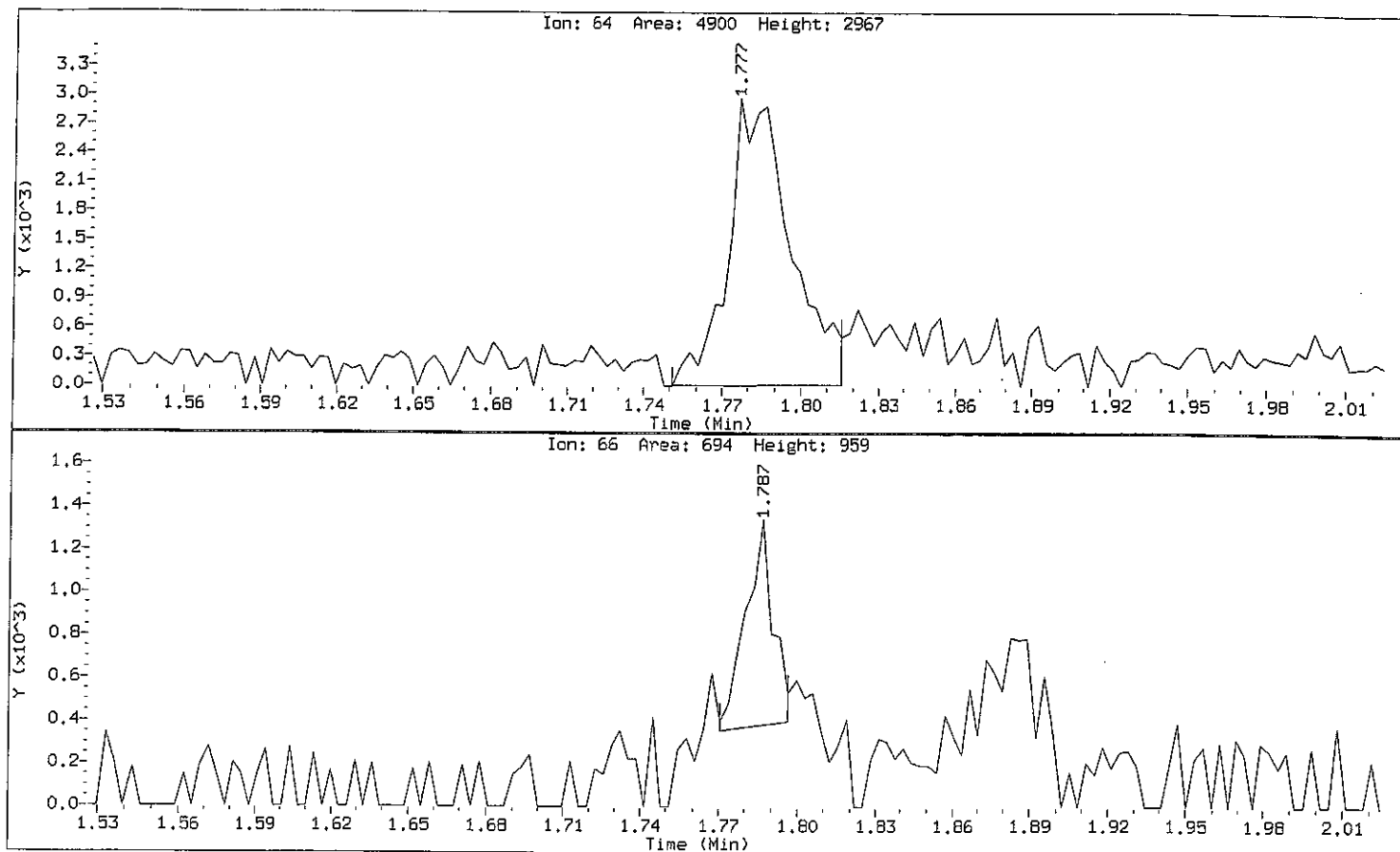
Compound: Bromomethane

CAS Number: 74-83-9



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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: Chloroethane
CAS Number: 75-00-3



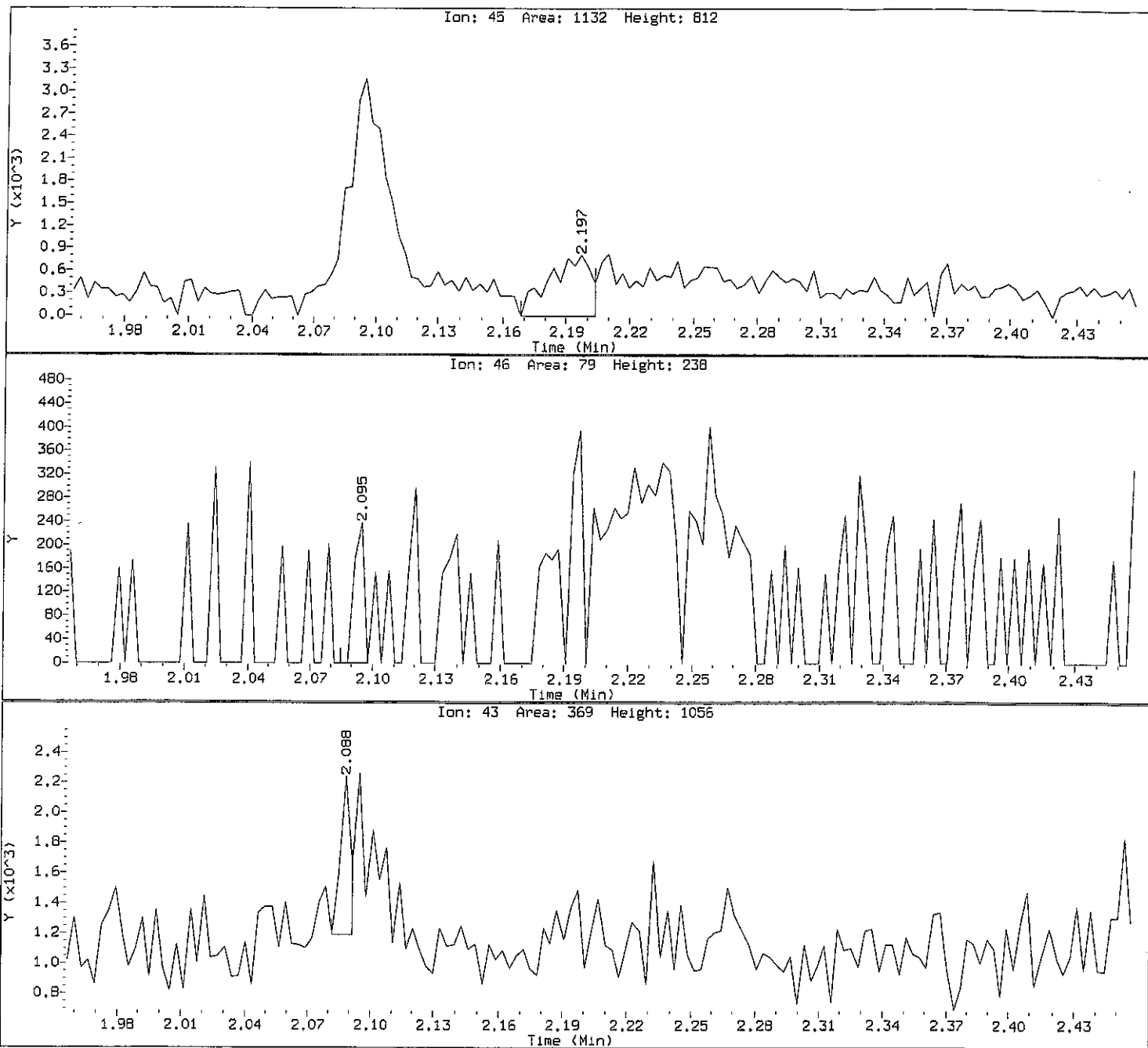
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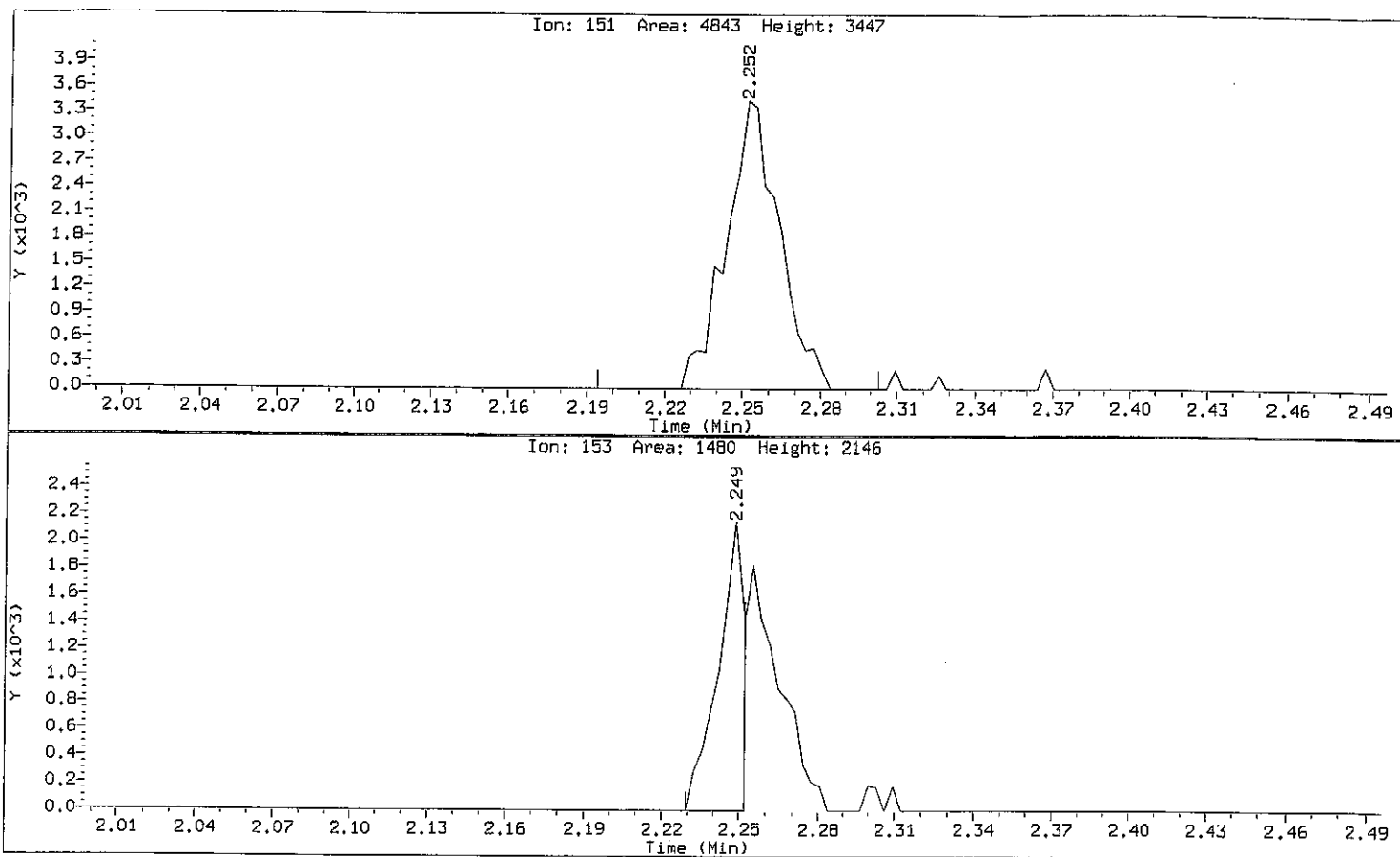
Compound: Ethanol

CAS Number: 64-17-5



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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: 1,1,2-Trichlorotrifluoroethan
CAS Number: 76-13-1



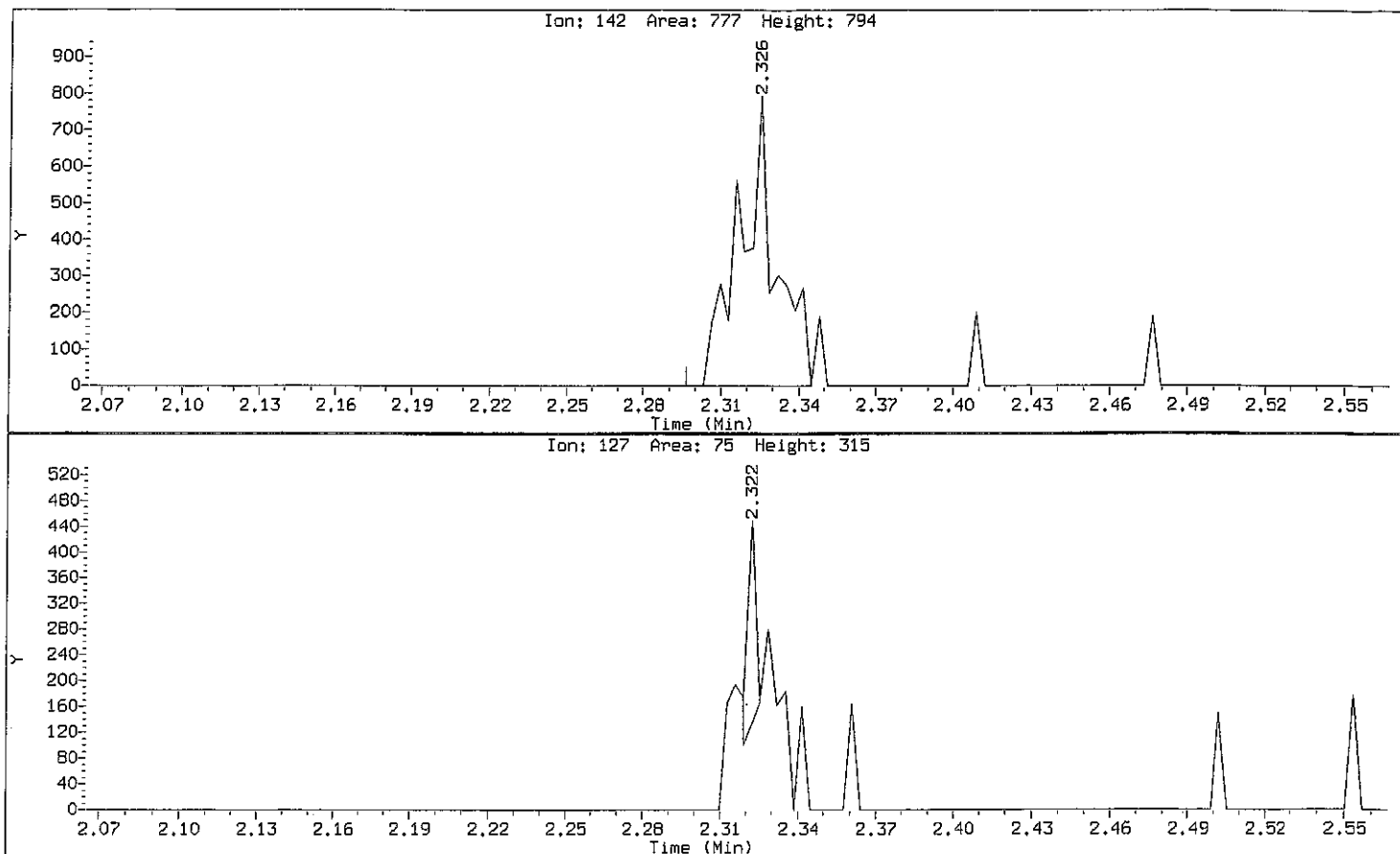
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Instrument: 35msv3.i

Lab Sample ID: ICAL2

Compound: Iodomethane

CAS Number: 74-88-4



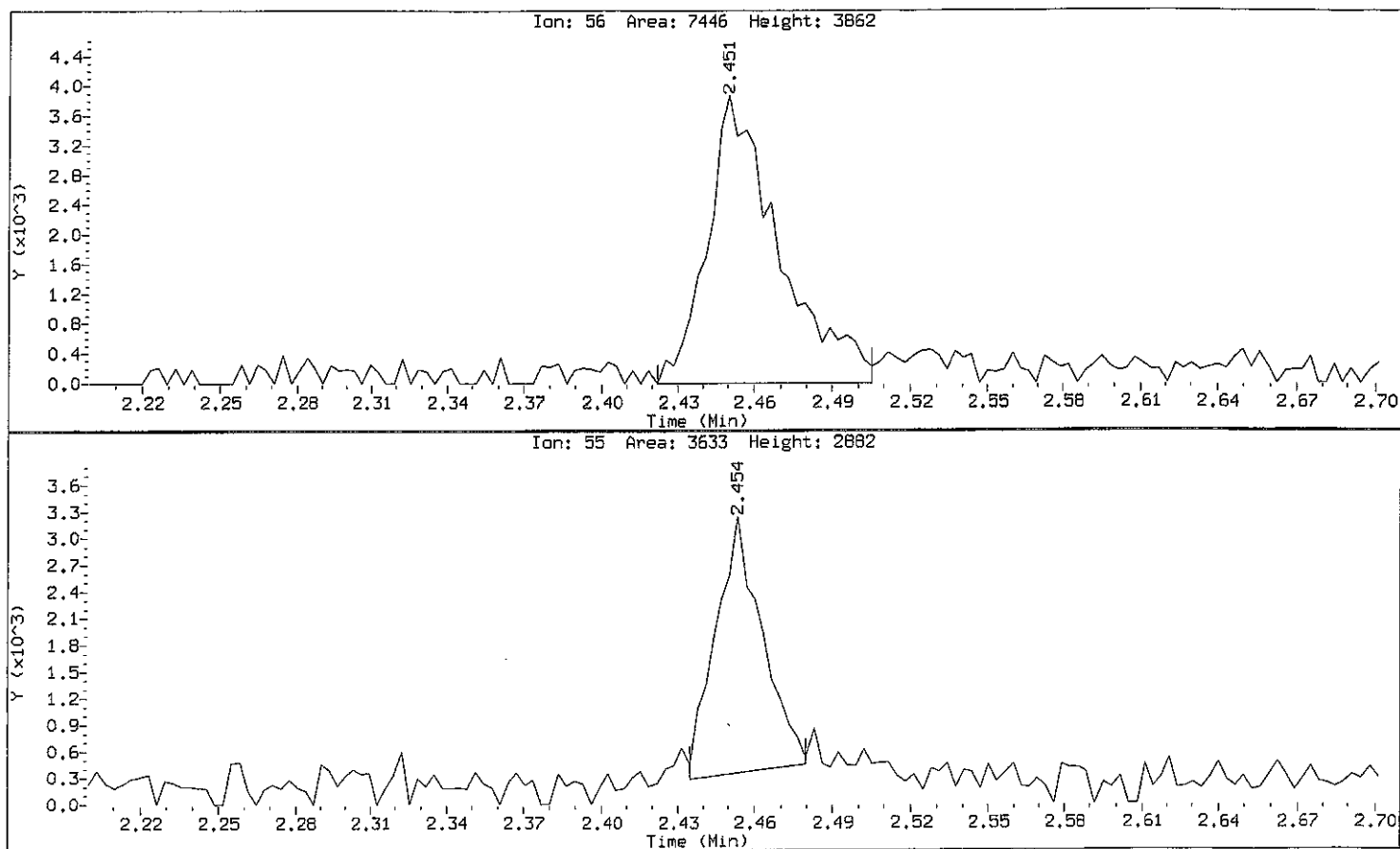
Injection Date: 24-JUL-2013 14:33

Instrument: 35msv3.i

Lab Sample ID: ICAL2

Compound: Acrolein

CAS Number: 107-02-8



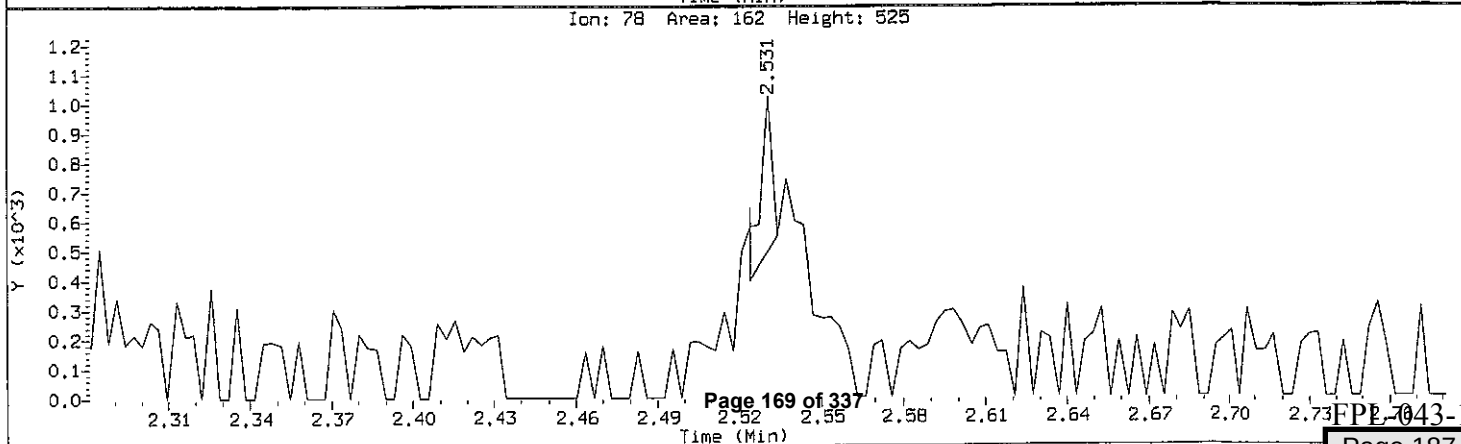
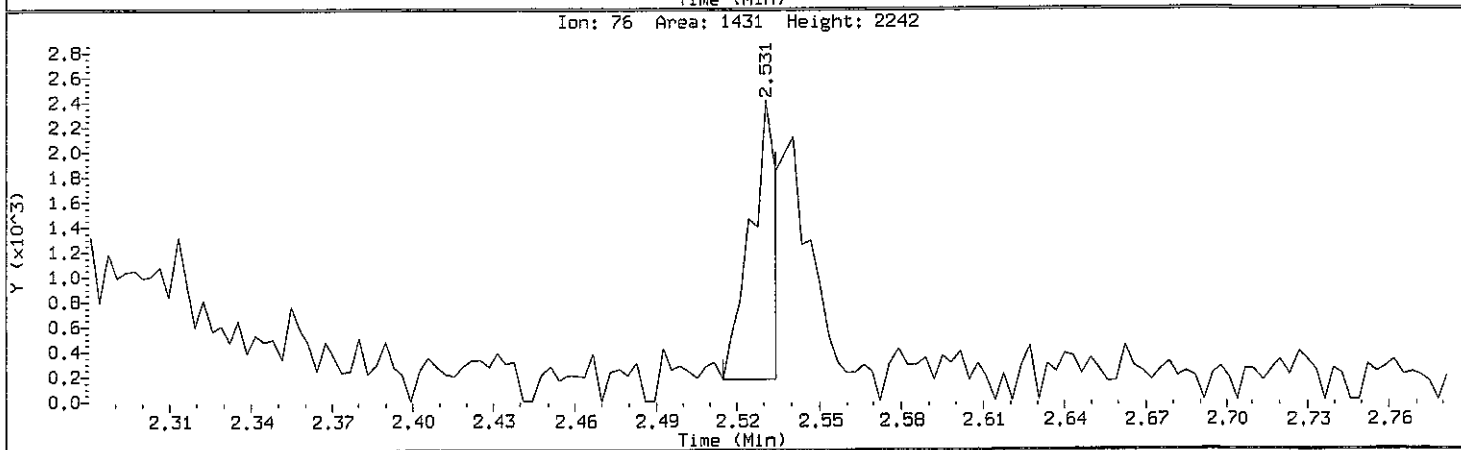
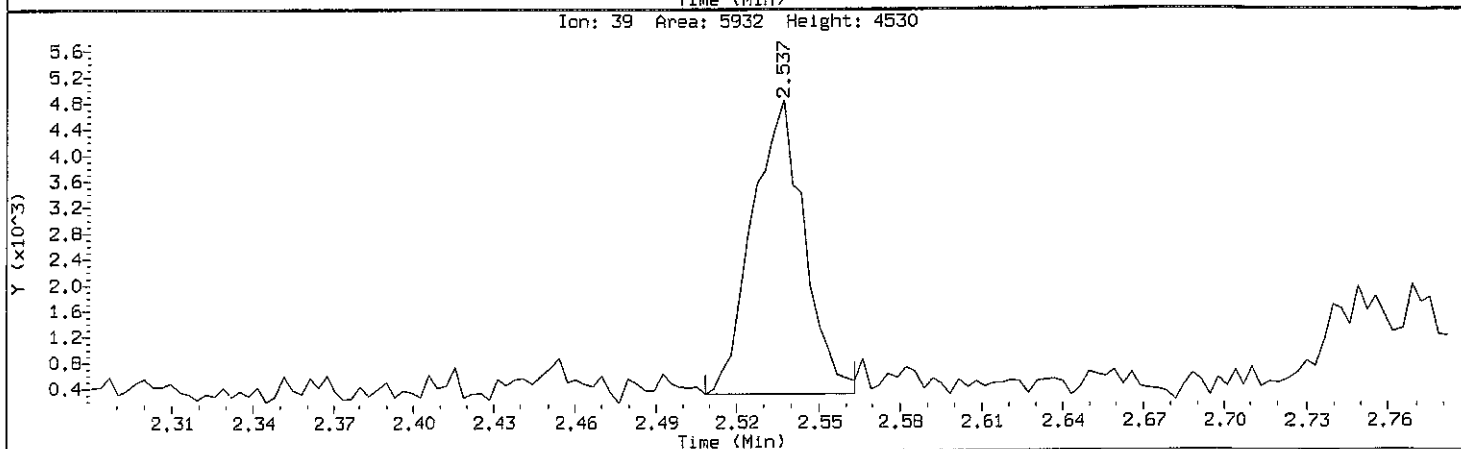
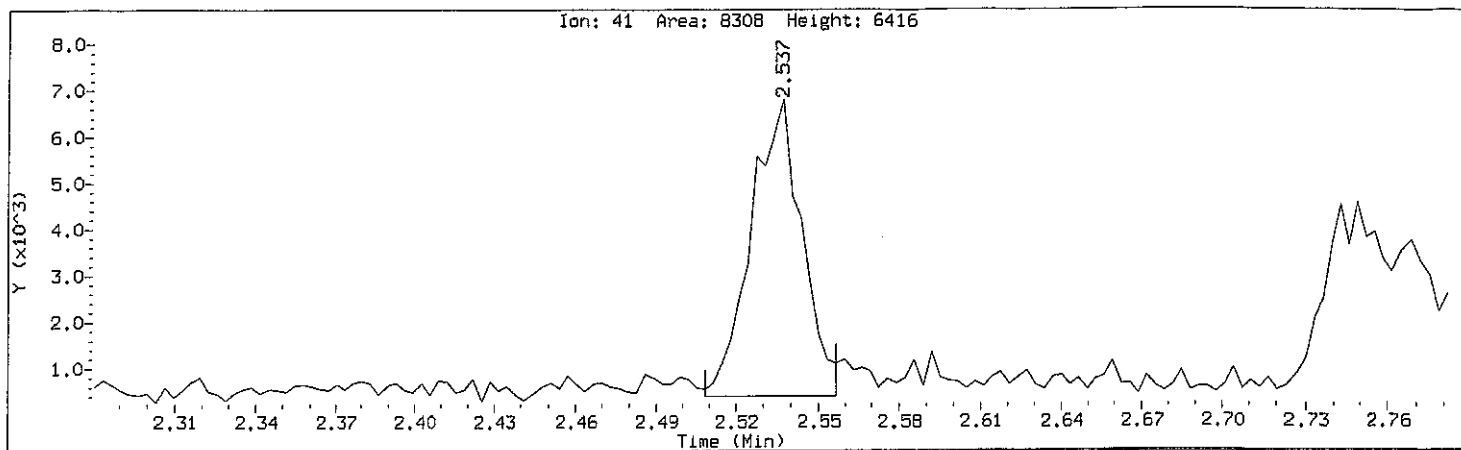
Injection Date: 24-JUL-2013 14:33

Instrument: 35msv3.i

Lab Sample ID: ICAL2

Compound: Allyl chloride

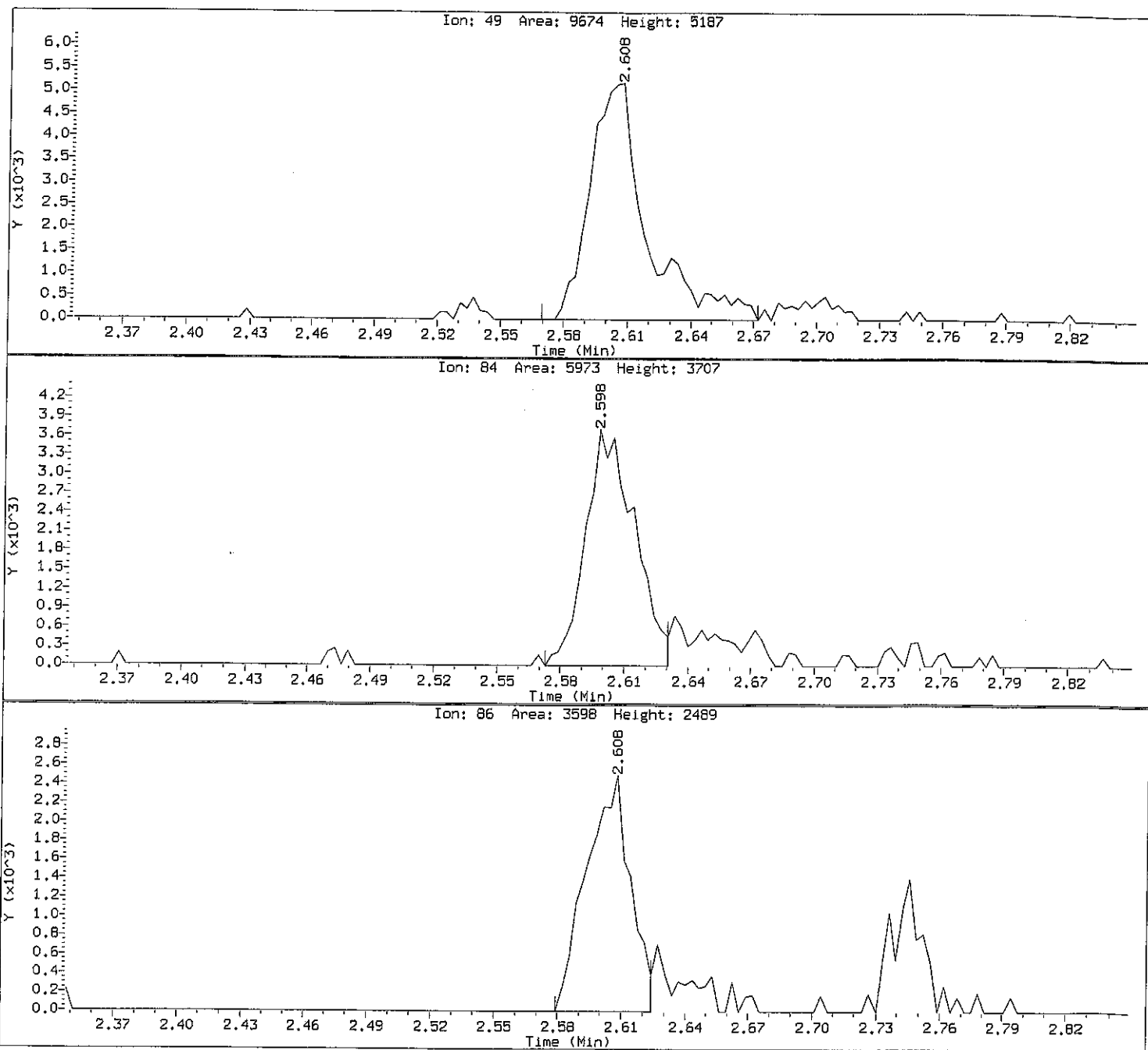
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Instrument: 35msv3.i
Lab Sample ID: ICAL2

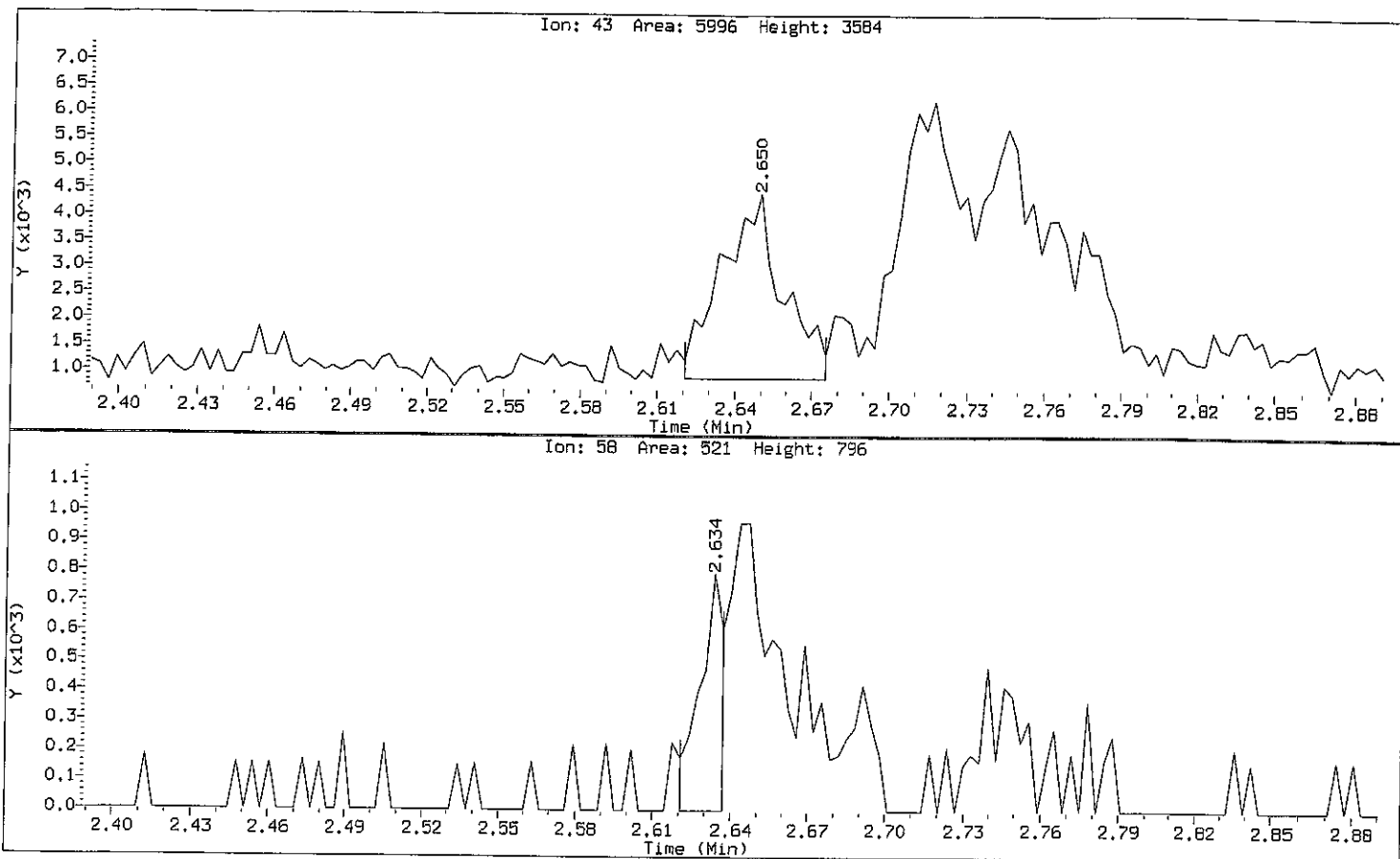
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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: Methylene Chloride
CAS Number: 75-09-2



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: Acetone
CAS Number: 67-64-1



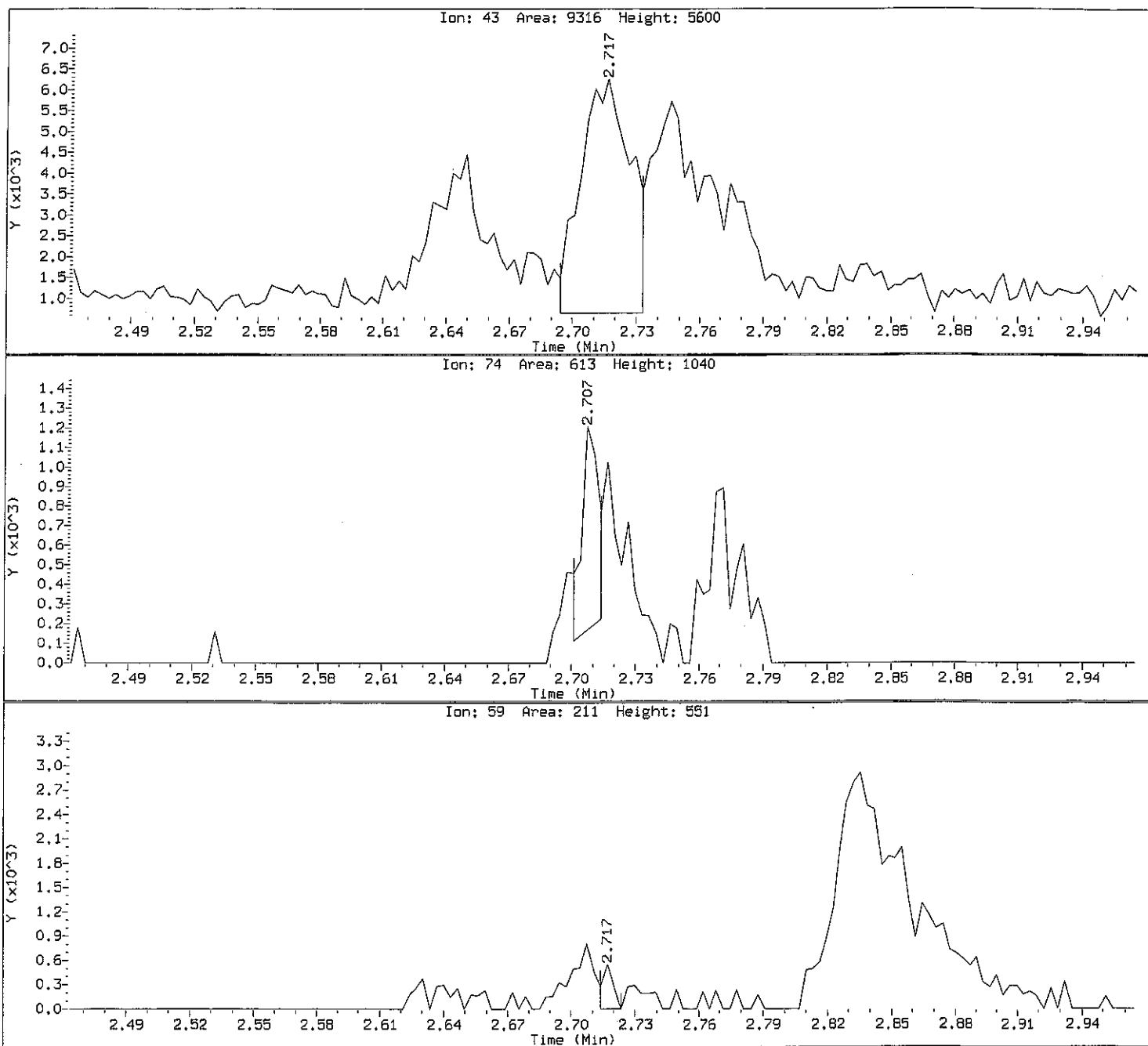
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Instrument: 35msv3.i

Lab Sample ID: ICAL2

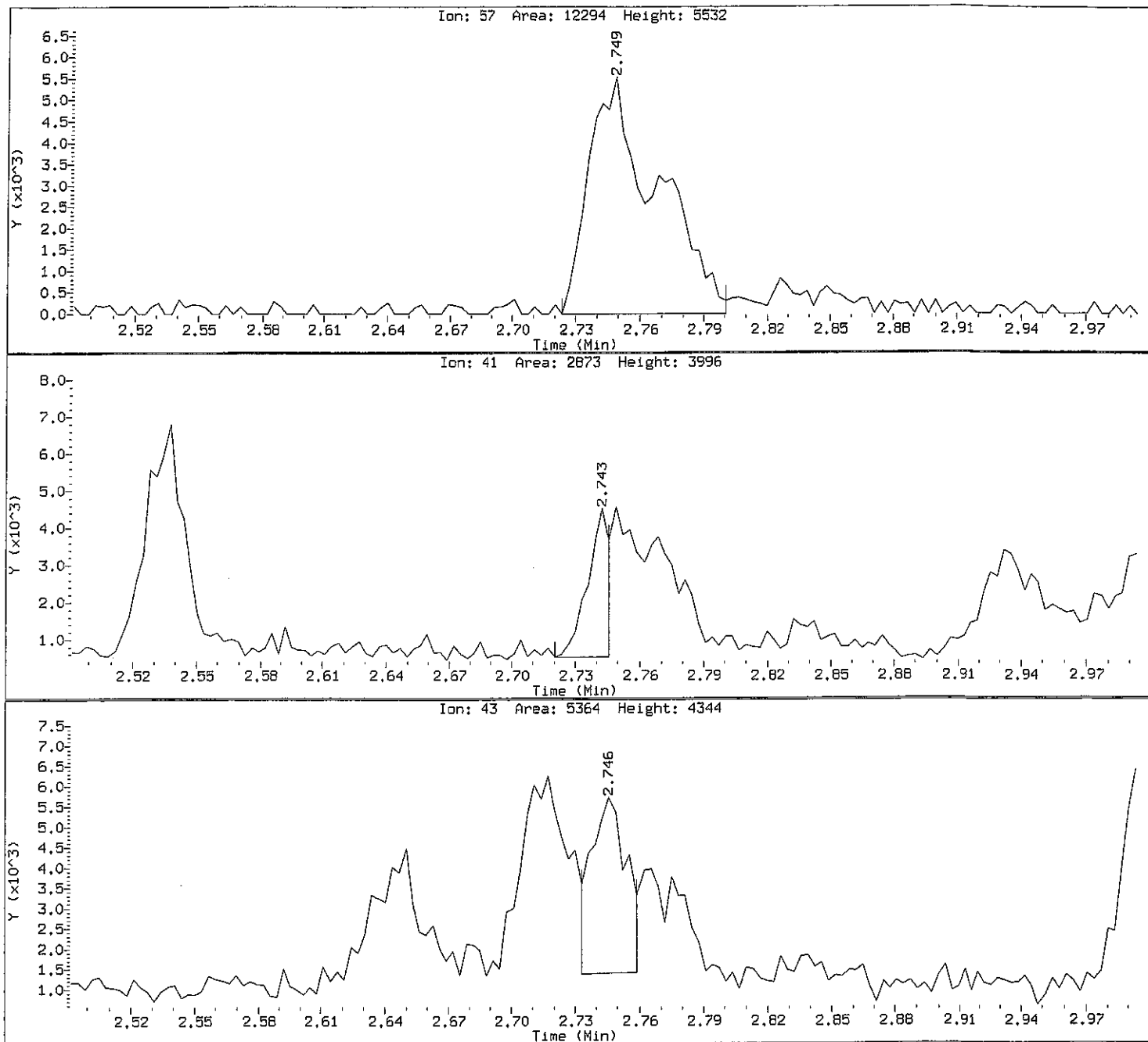
Compound: methyl Acetate

CAS Number: 79-20-9



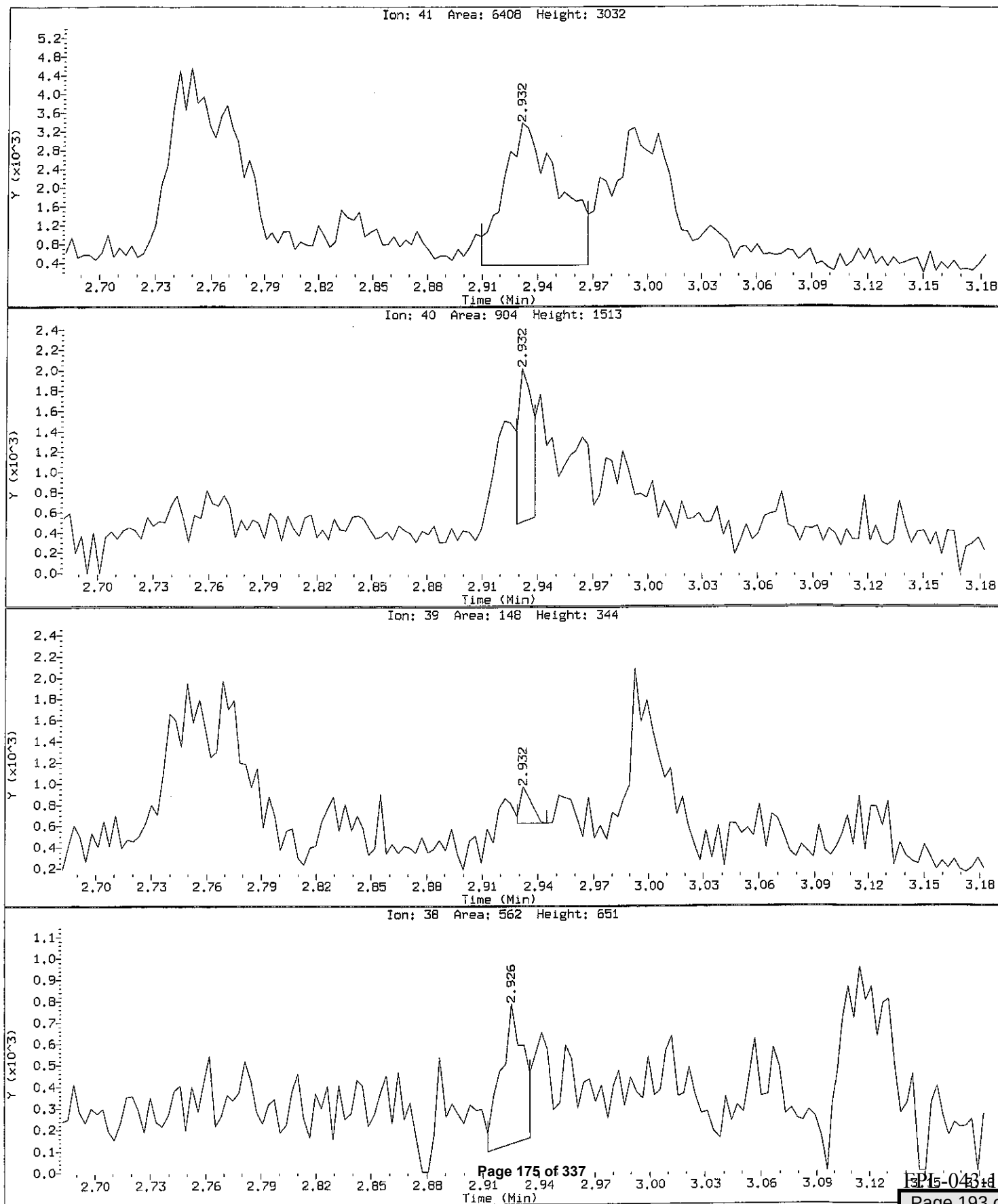
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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: n-hexane
CAS Number: 110-54-3



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

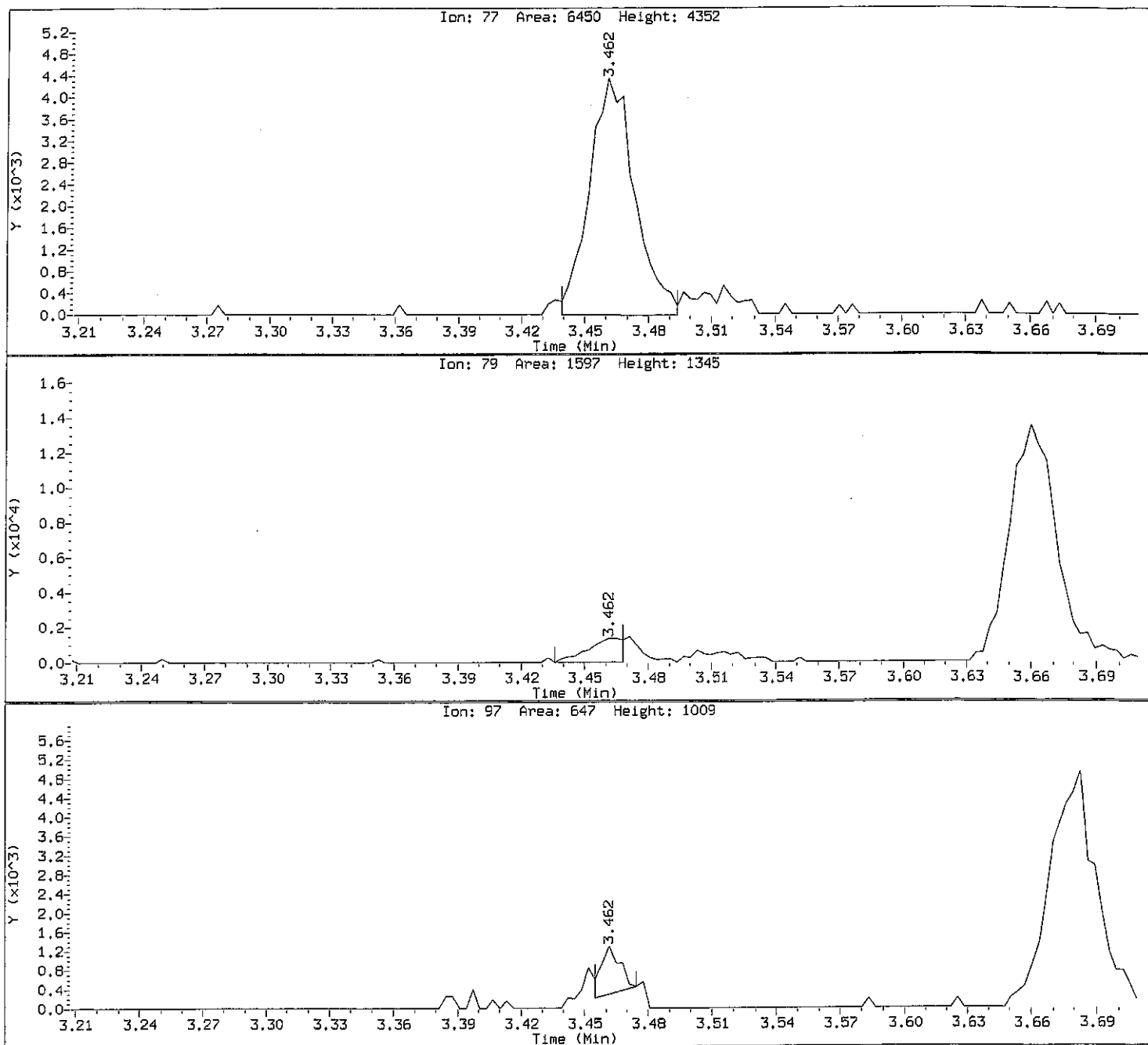
Compound: Acetonitrile
CAS Number: 75-05-8



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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

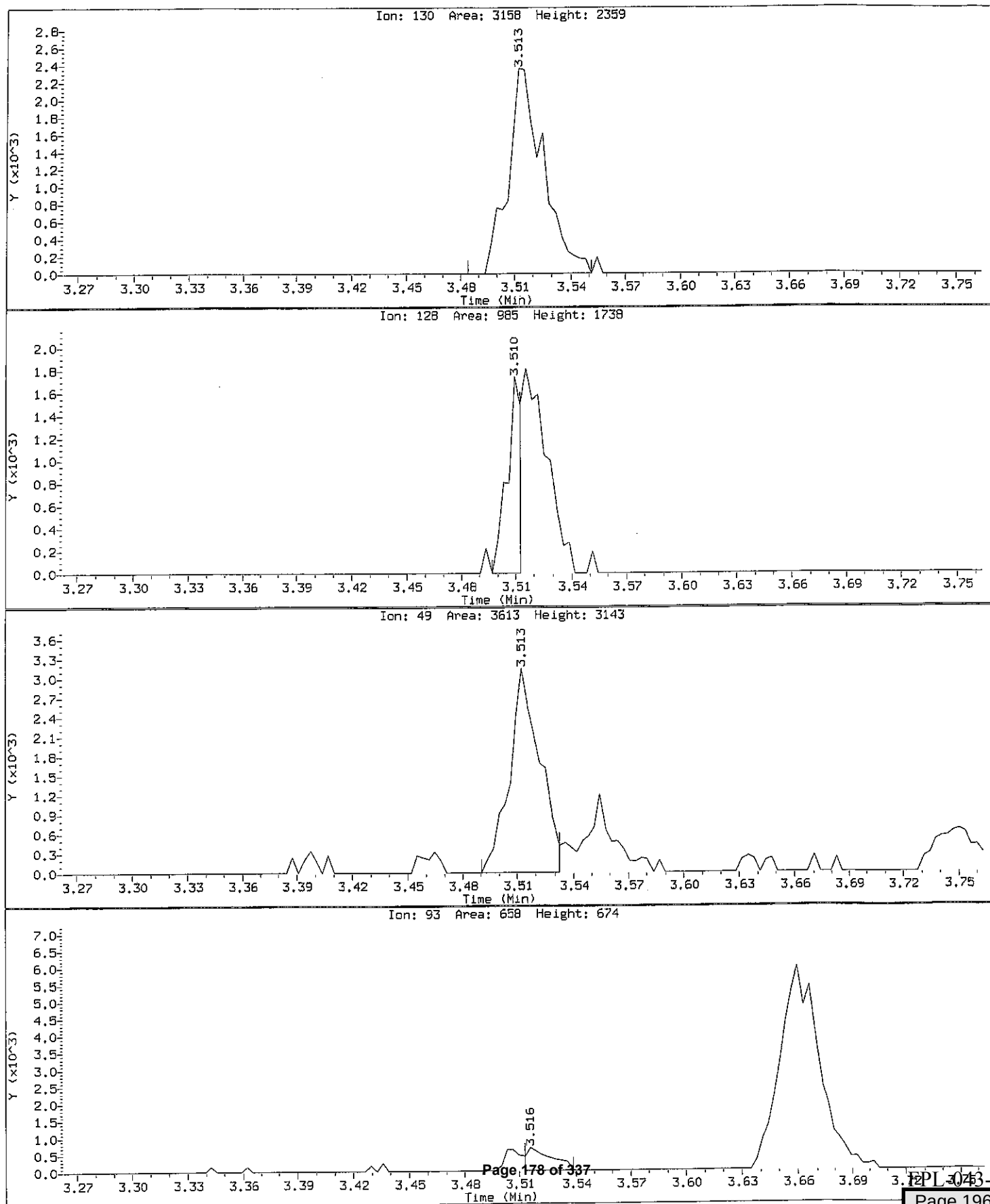
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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: 2,2-Dichloropropane
CAS Number: 594-20-7



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

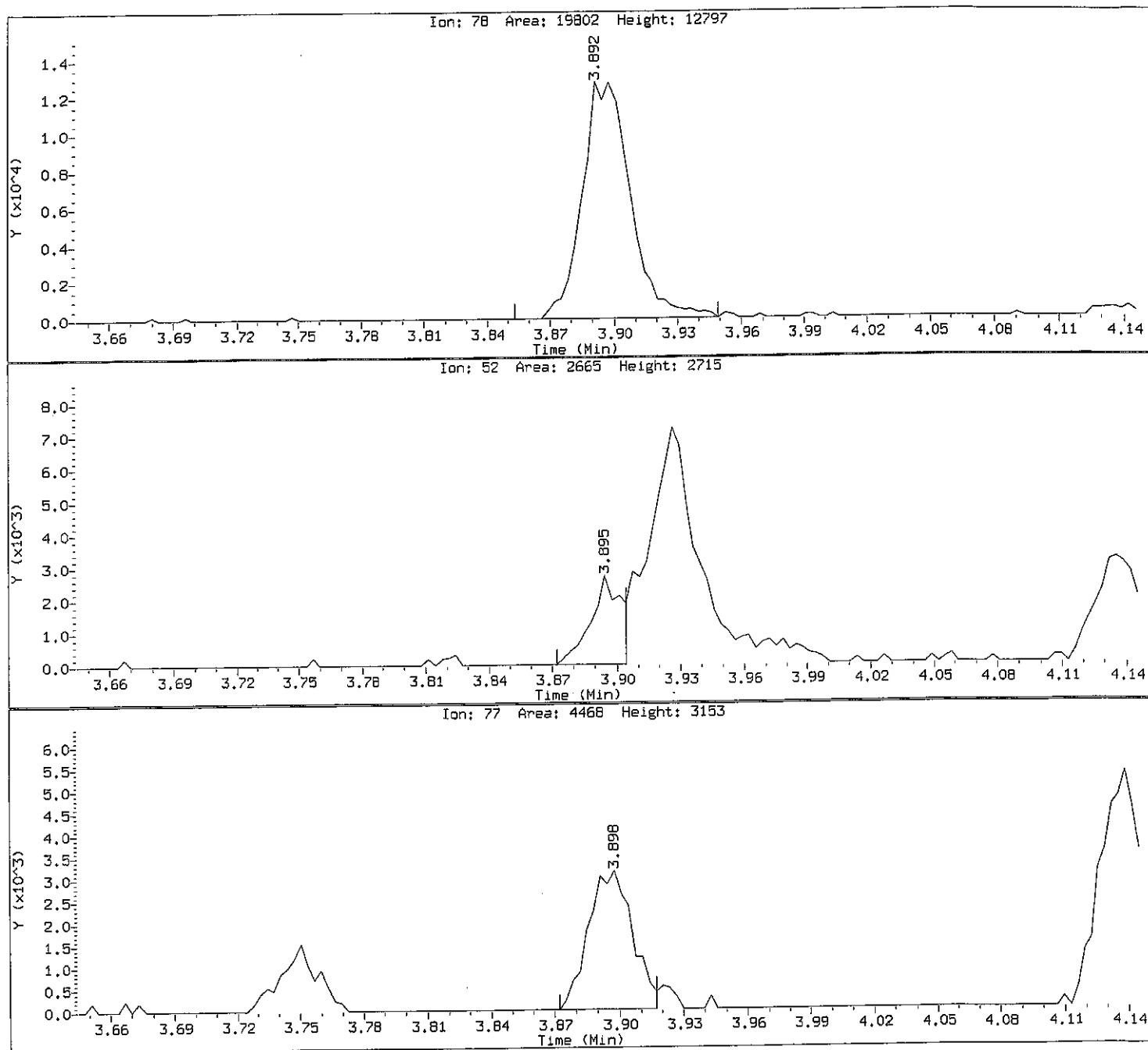
Compound: Bromochloromethane
CAS Number: 74-97-5



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: Benzene
CAS Number: 71-43-2



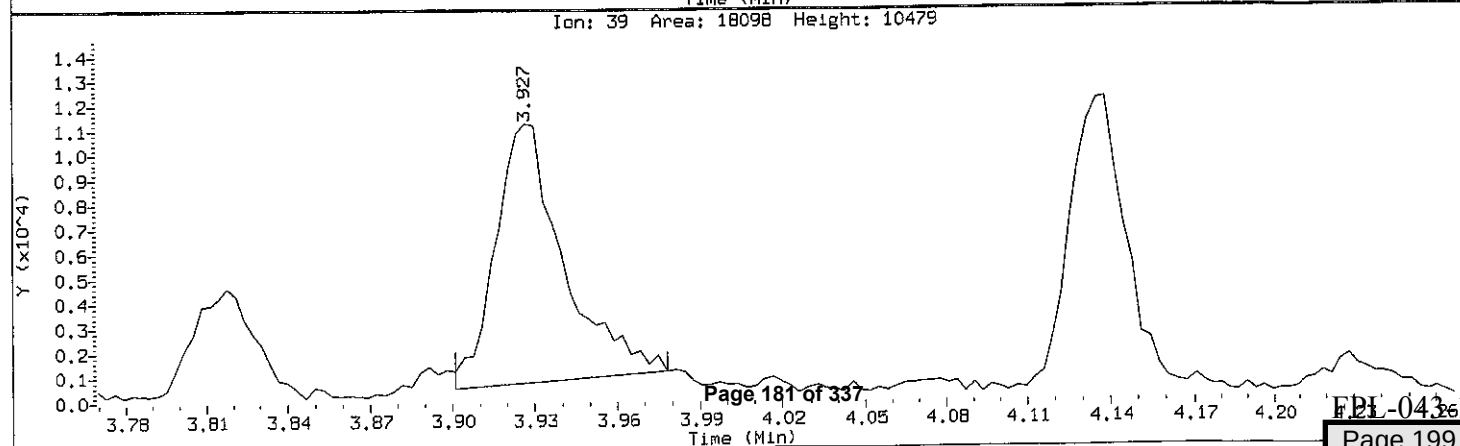
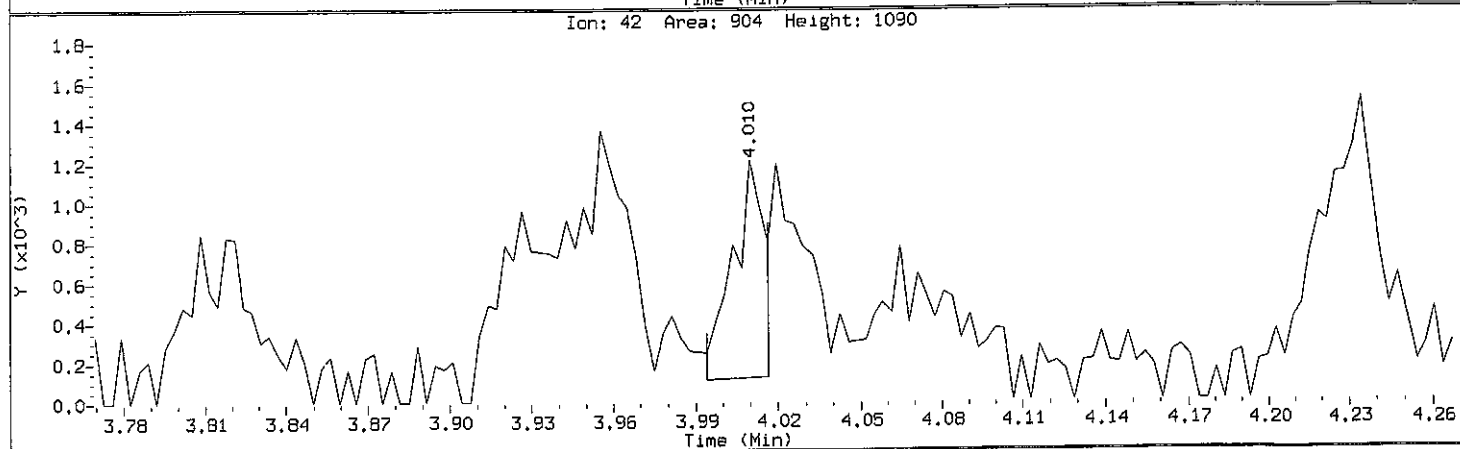
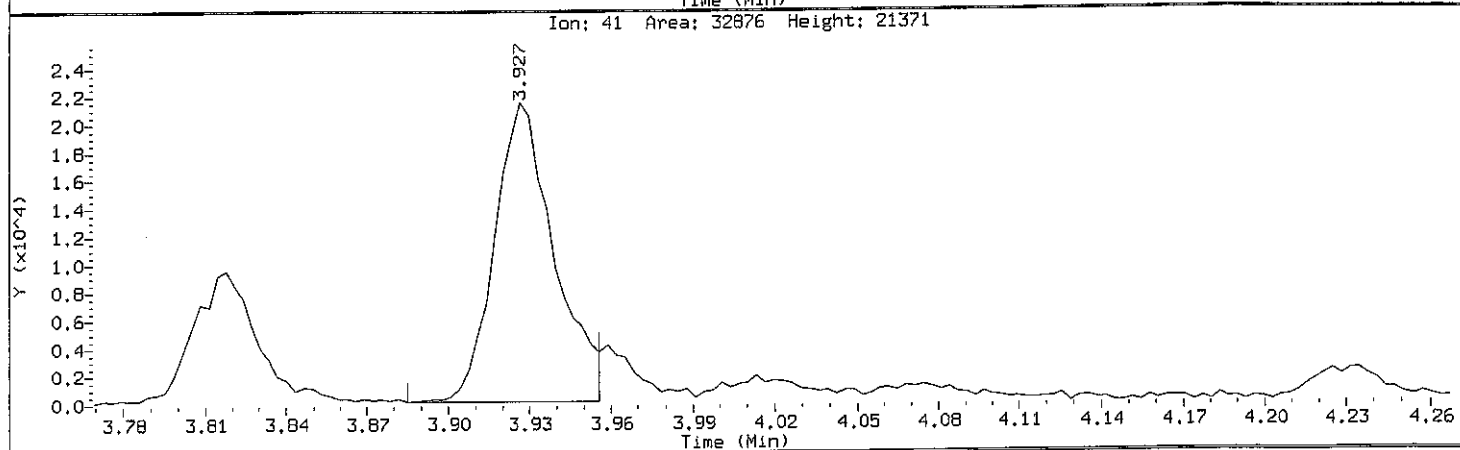
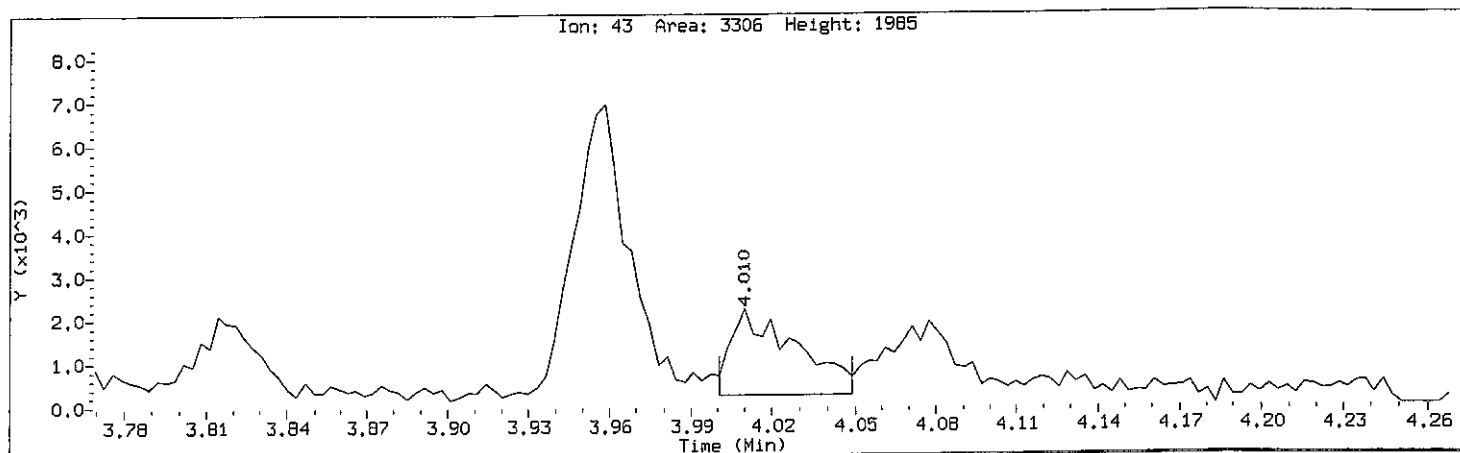
Injection Date: 24-JUL-2013 14:33

Instrument: 35msv3.i

Lab Sample ID: ICAL2

Compound: Isobutyl alcohol

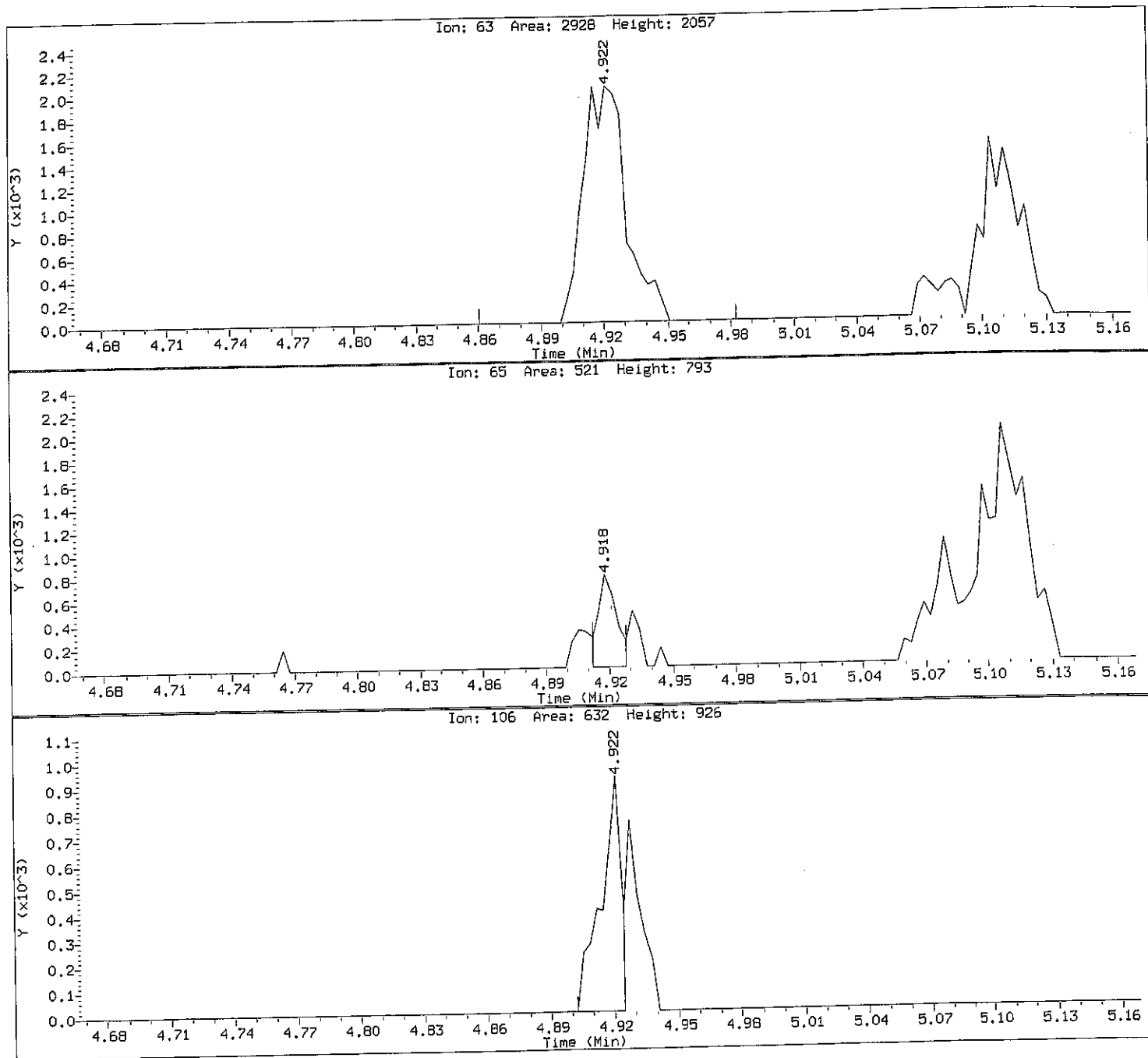
CAS Number: 78-83-1



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

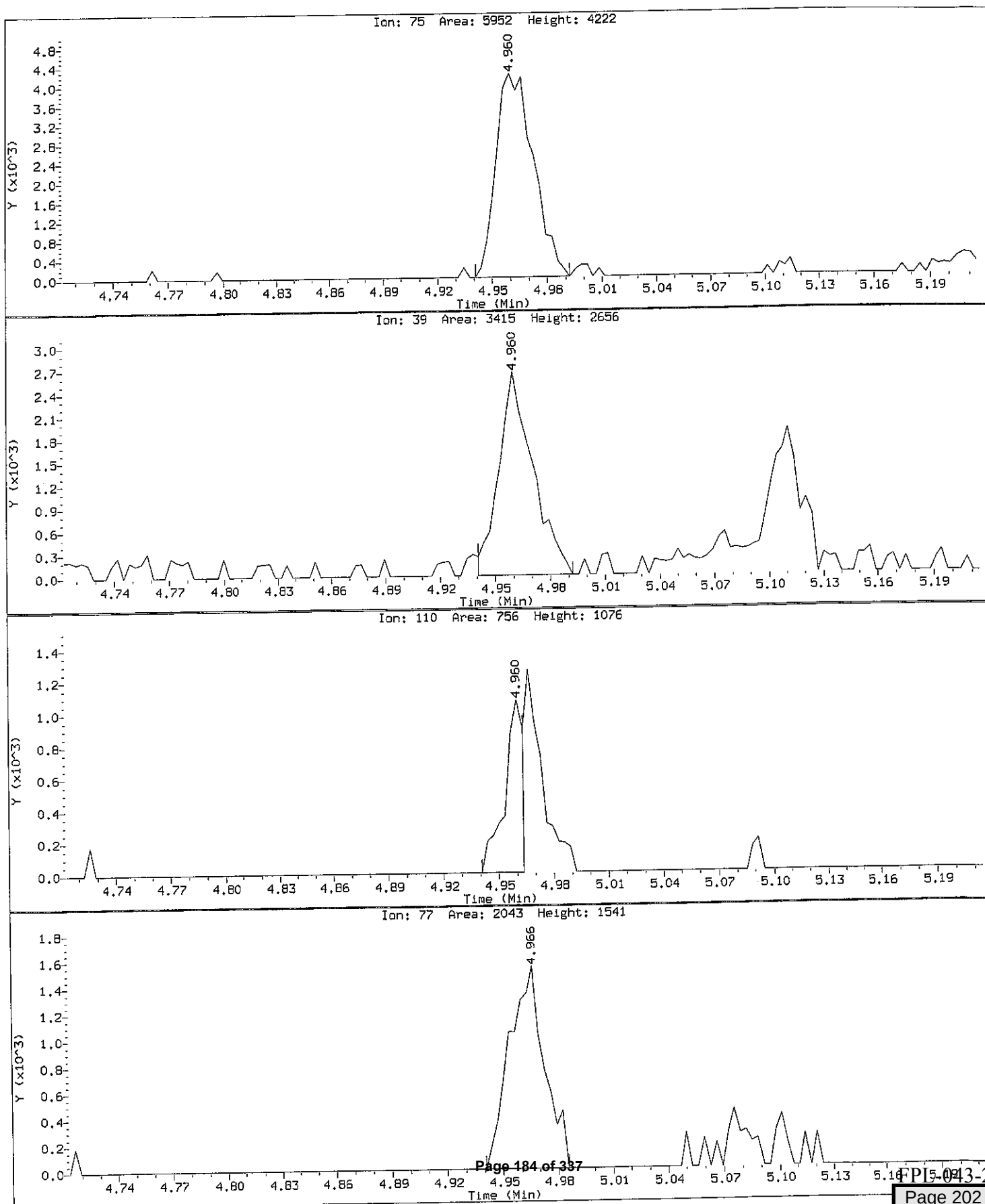
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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: 2-Chloroethyl Vinyl Ether
CAS Number: 110-75-8



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

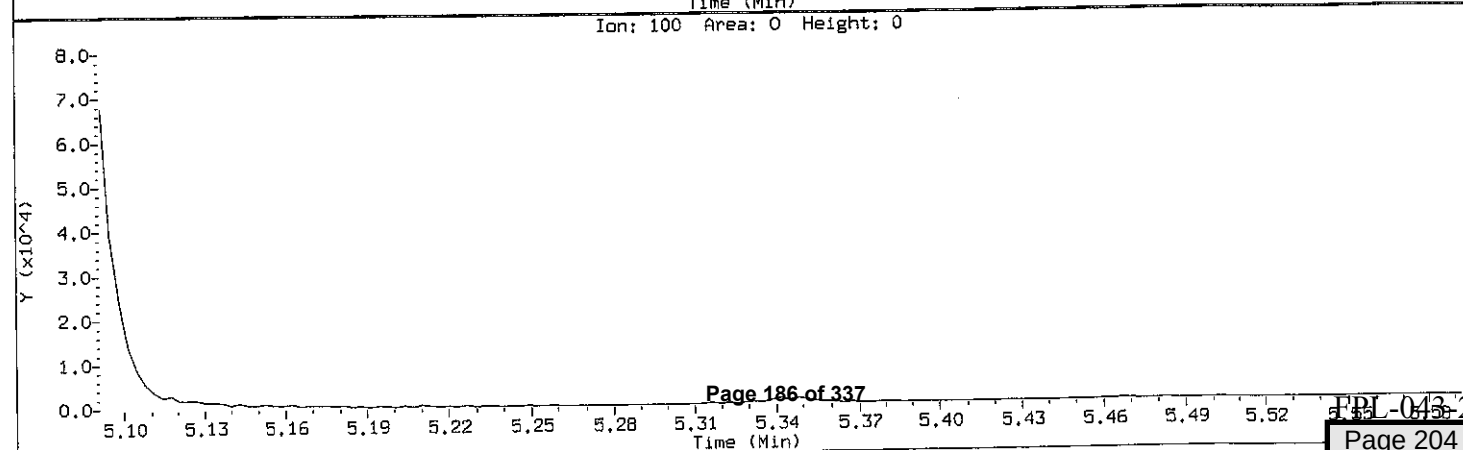
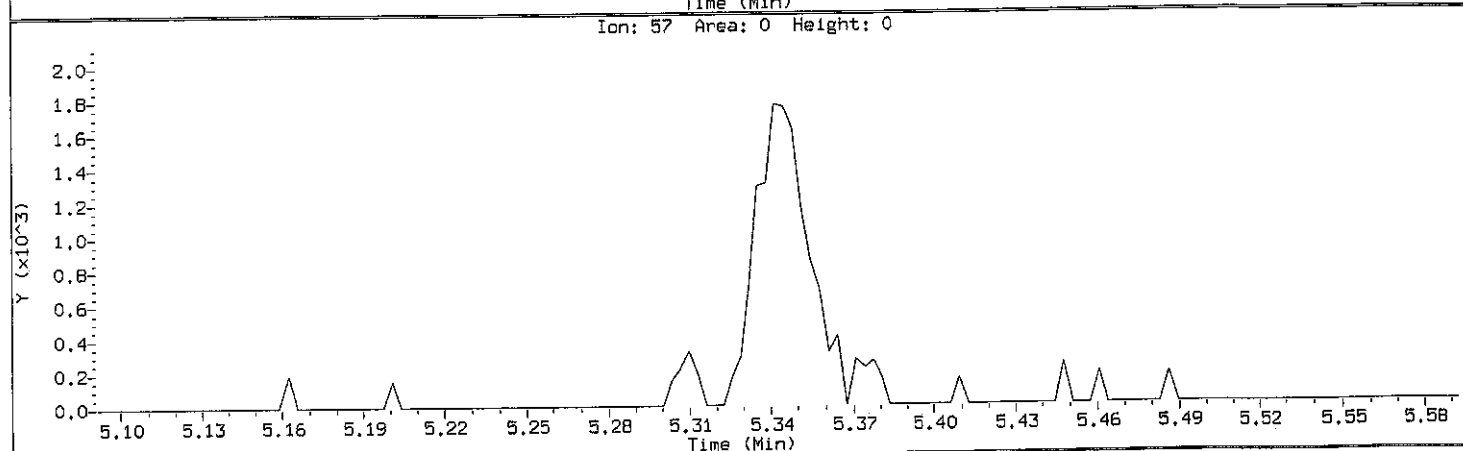
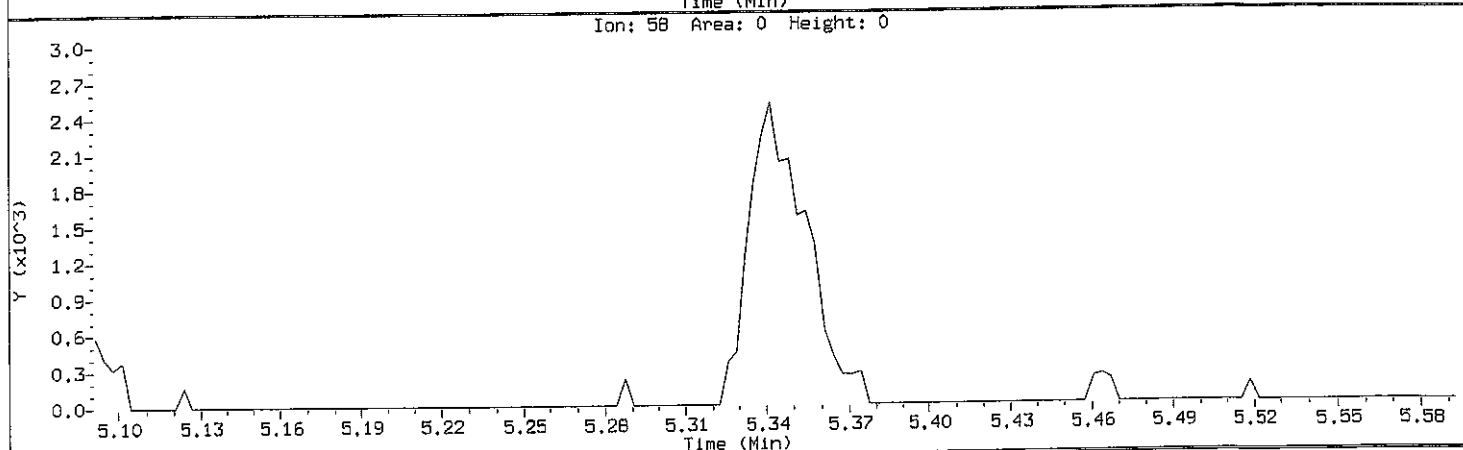
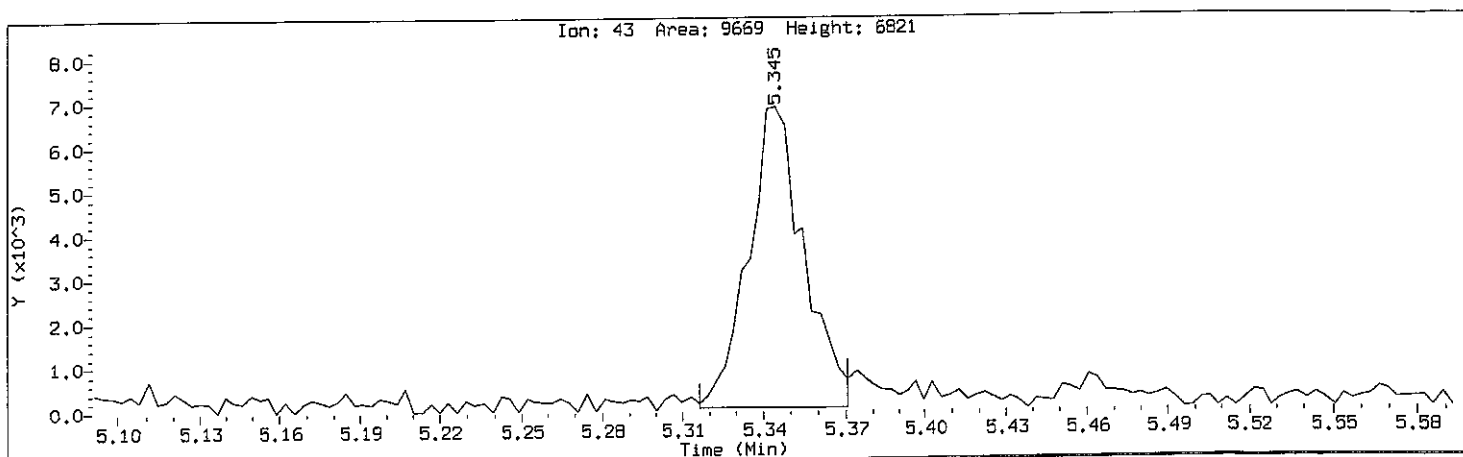
Compound: cis-1,3-Dichloropropene
CAS Number: 10061-01-5



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: 4-Methyl-2-Pentanone
CAS Number: 108-10-1



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

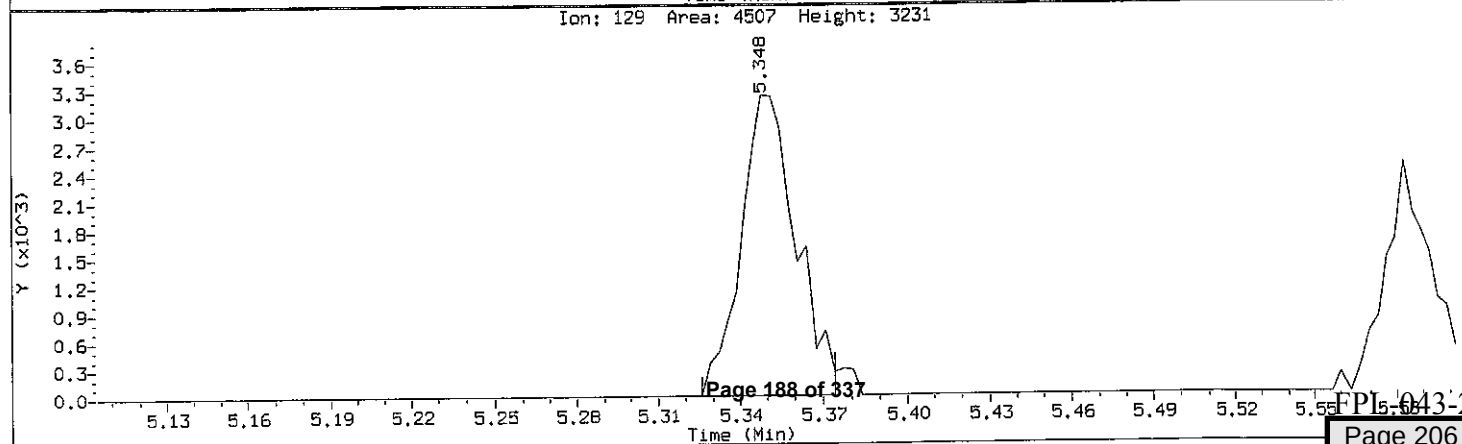
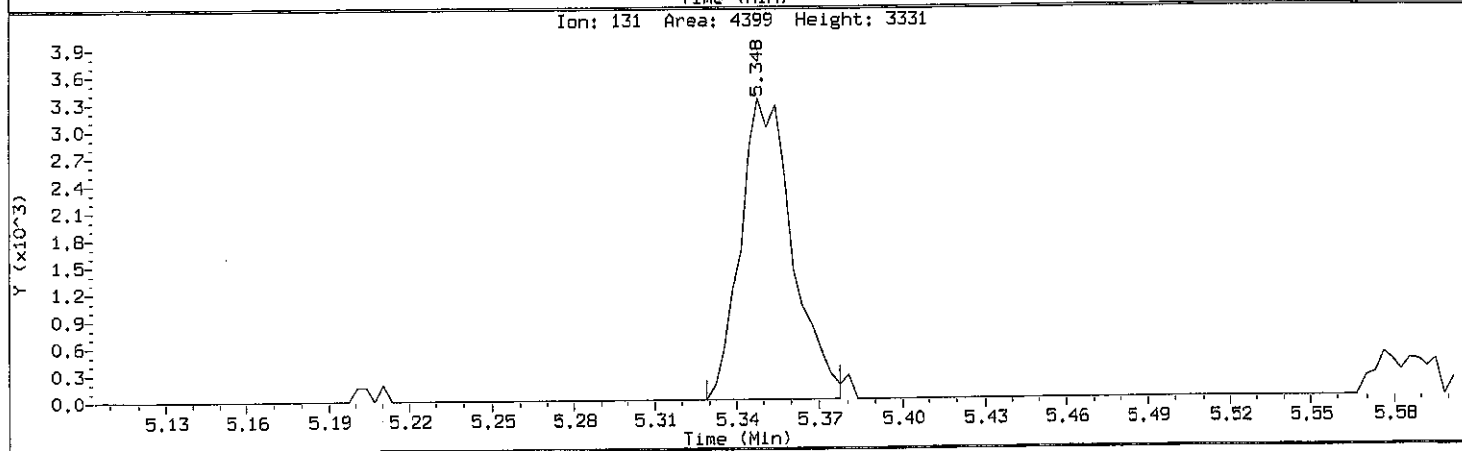
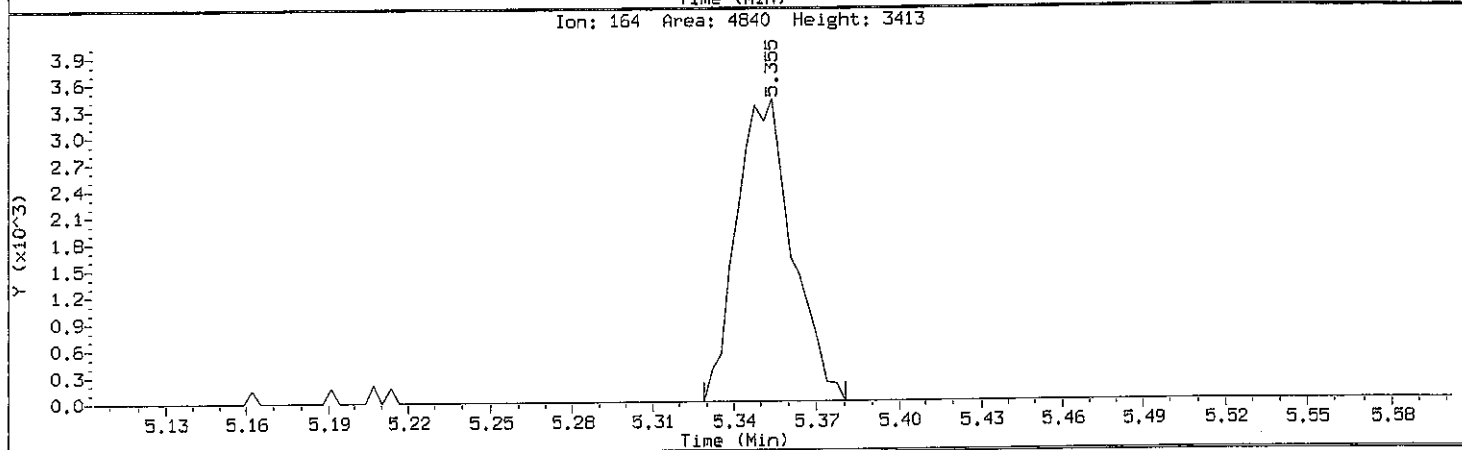
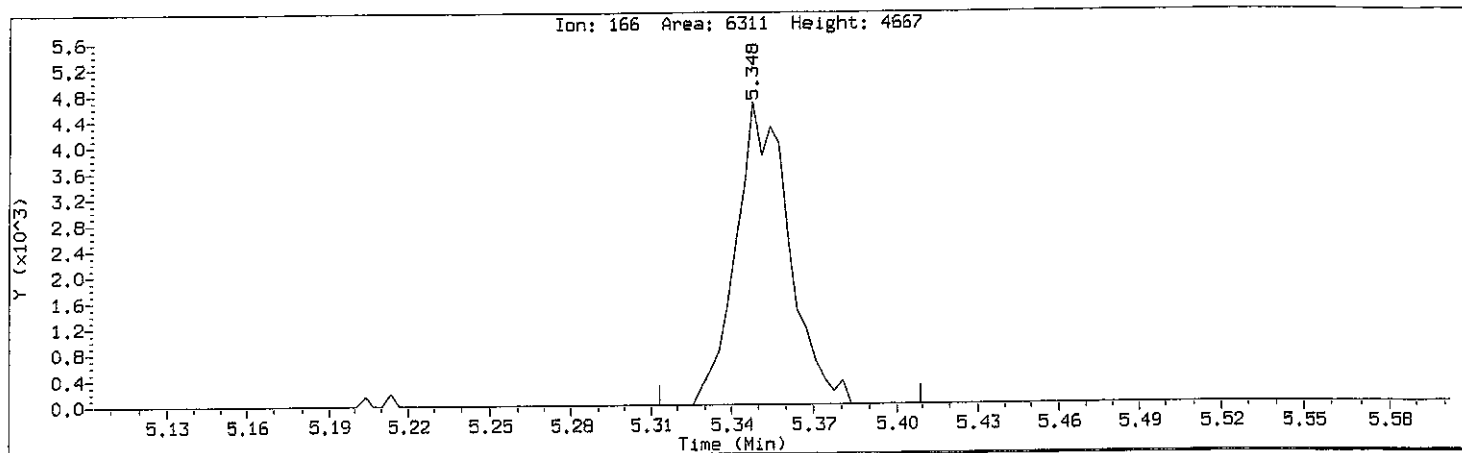
Injection Date: 24-JUL-2013 14:33

Instrument: 35msv3.i

Lab Sample ID: ICAL2

Compound: Tetrachloroethene

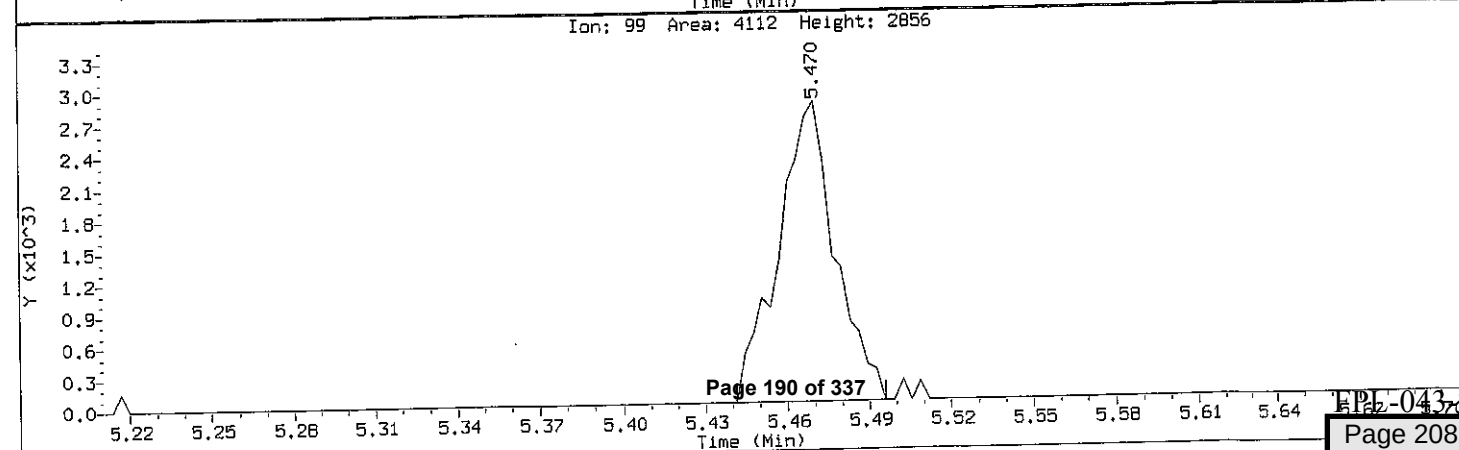
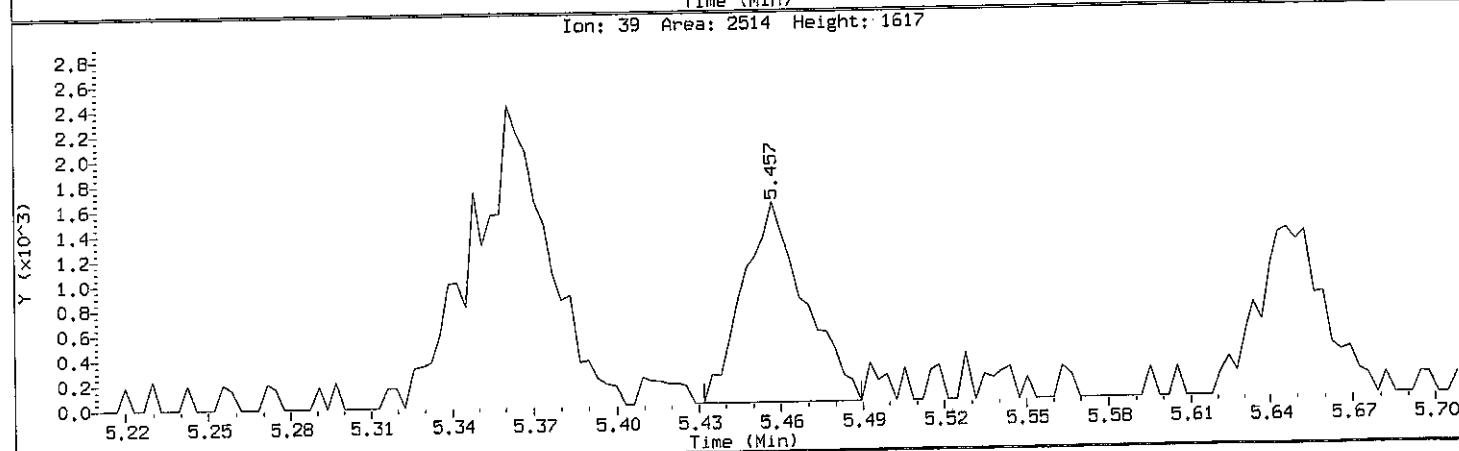
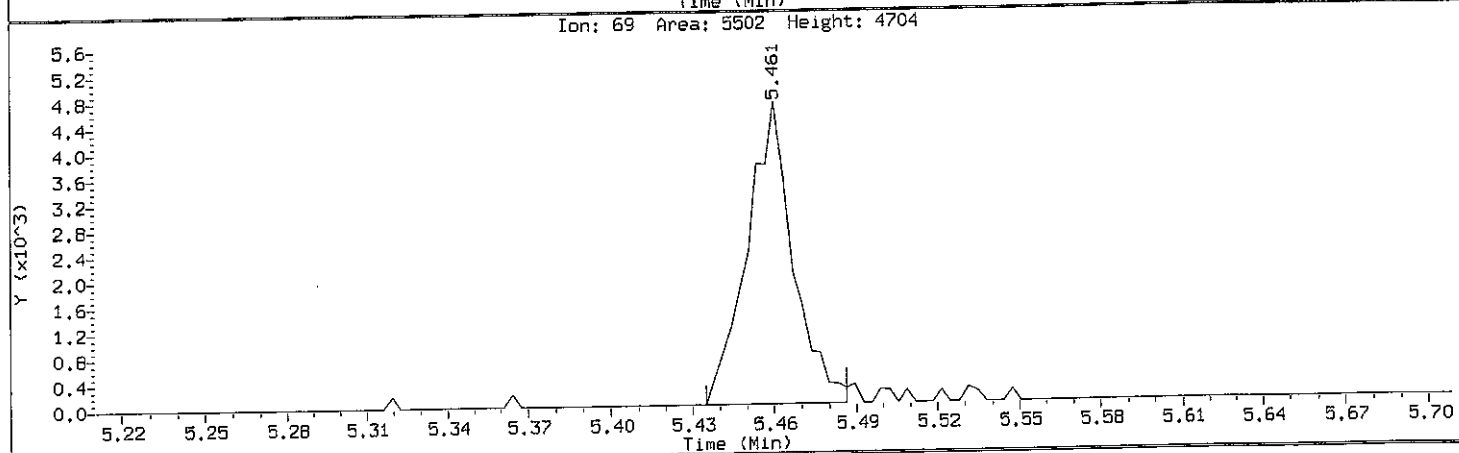
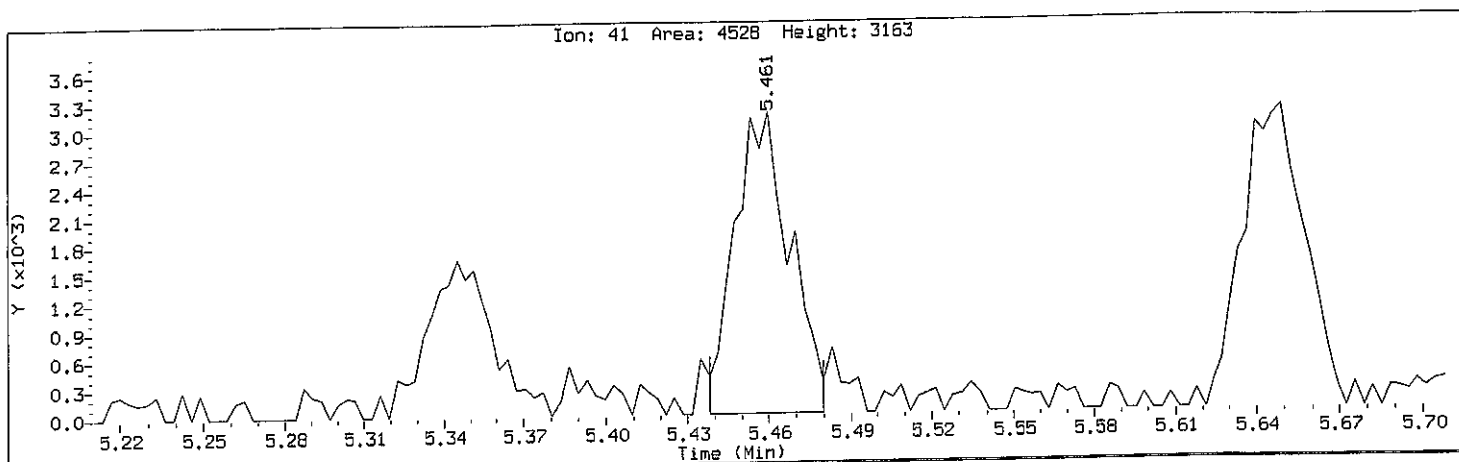
CAS Number: 127-18-4



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

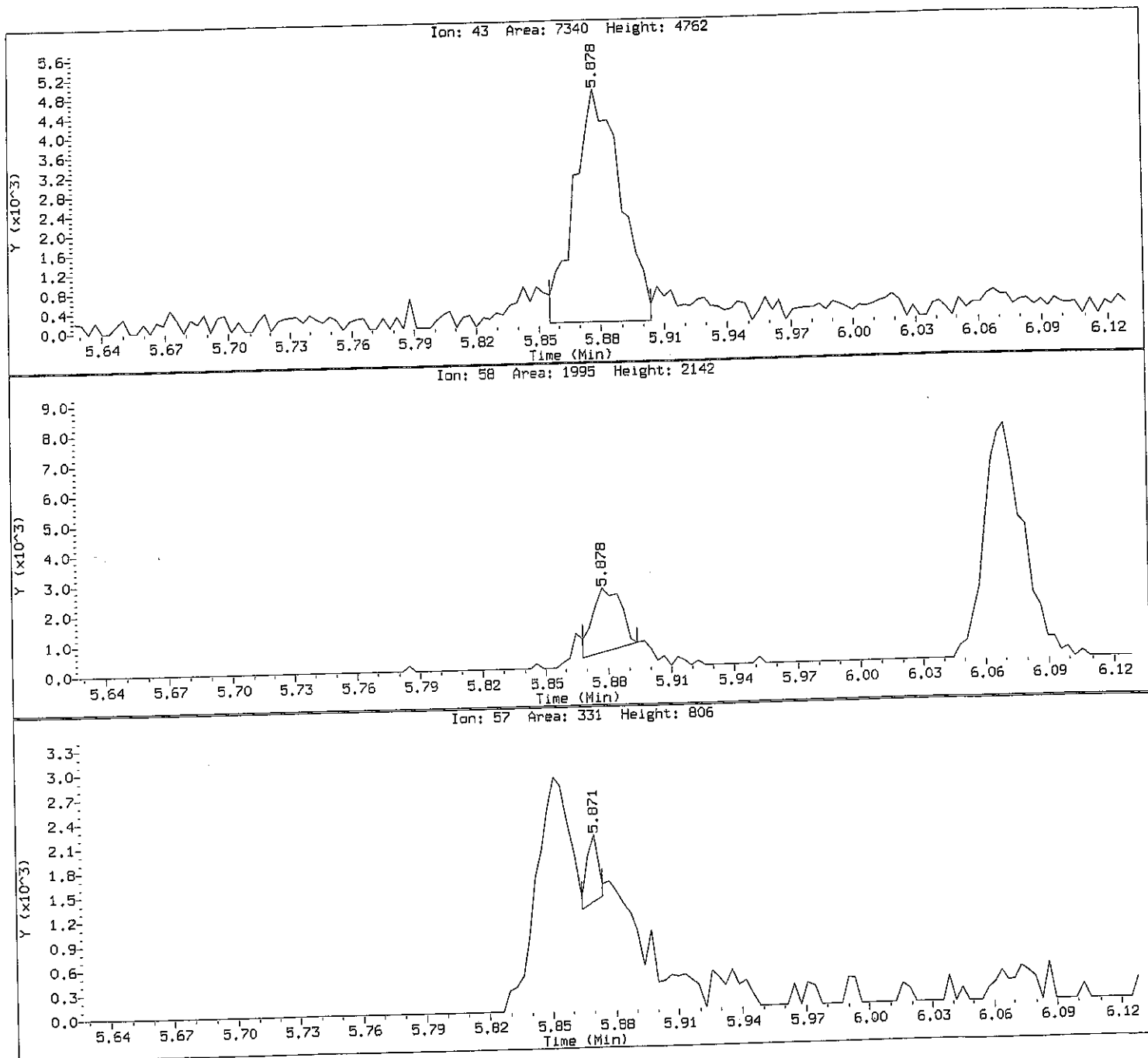
Compound: Ethyl methacrylate
CAS Number: 97-63-2



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

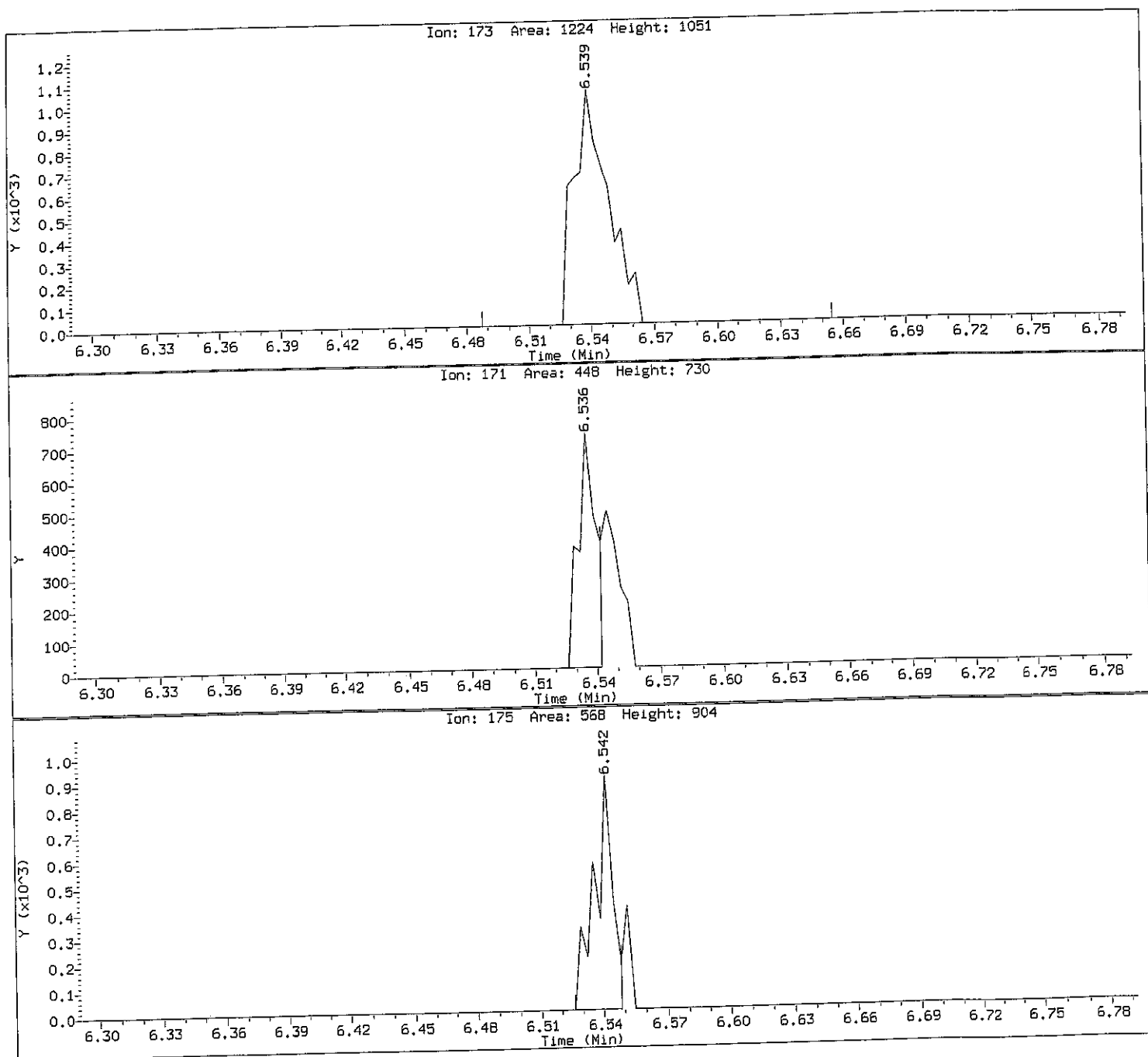
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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: 2-Hexanone
CAS Number: 591-78-6



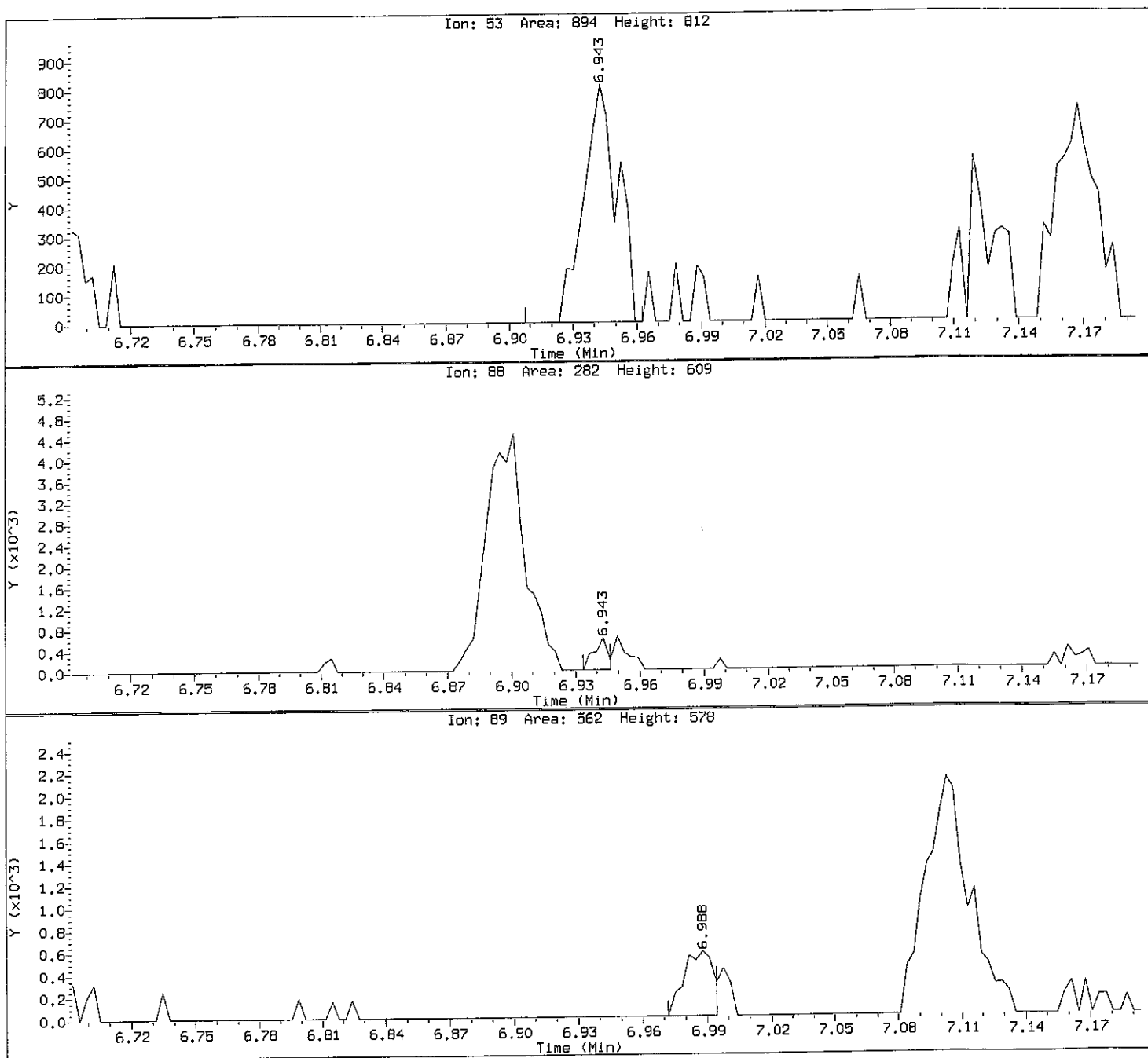
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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: Bromoform
CAS Number: 75-25-2



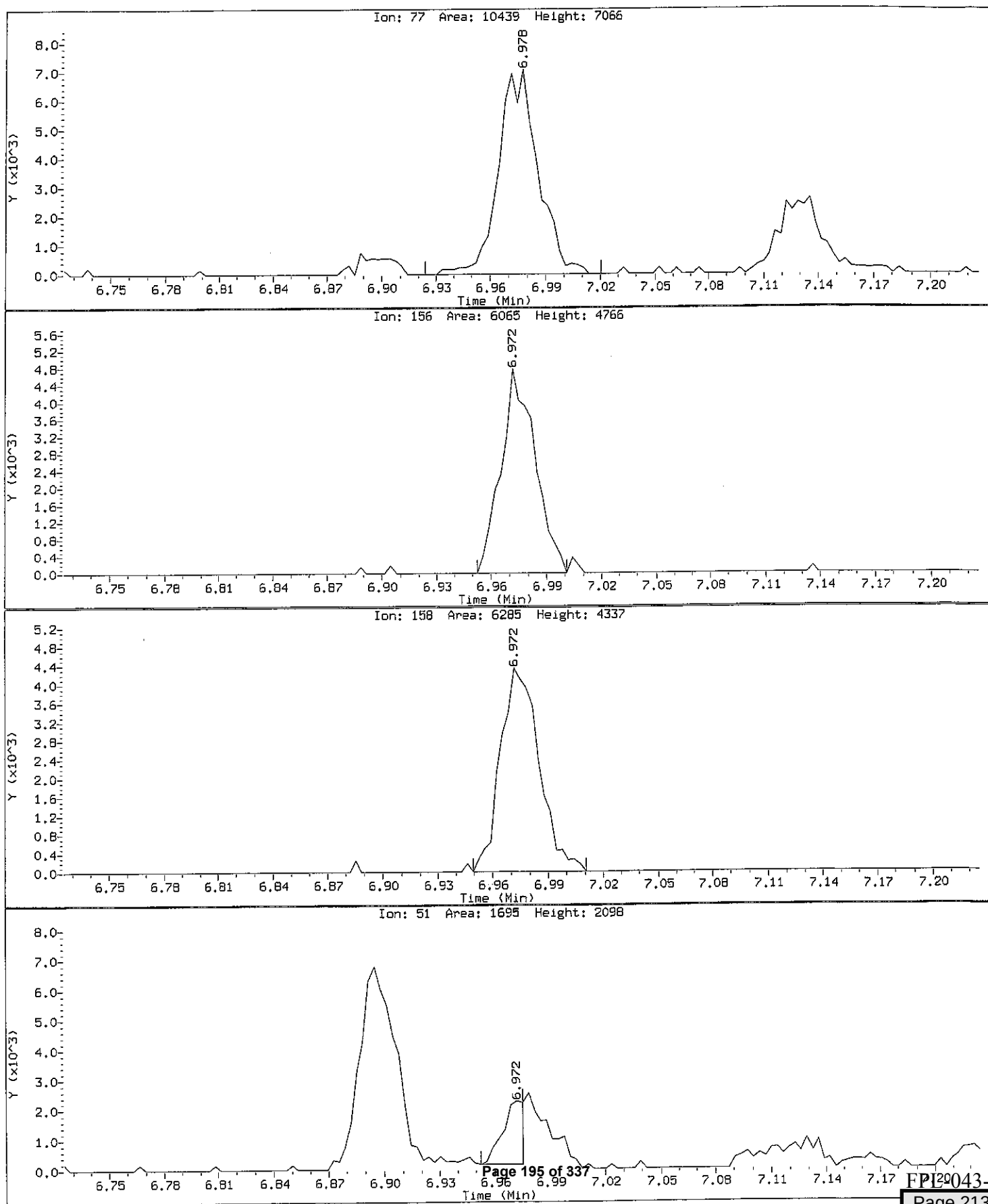
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Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: cis-1,4-dichloro-2-butene
CAS Number: 1476-11-5



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

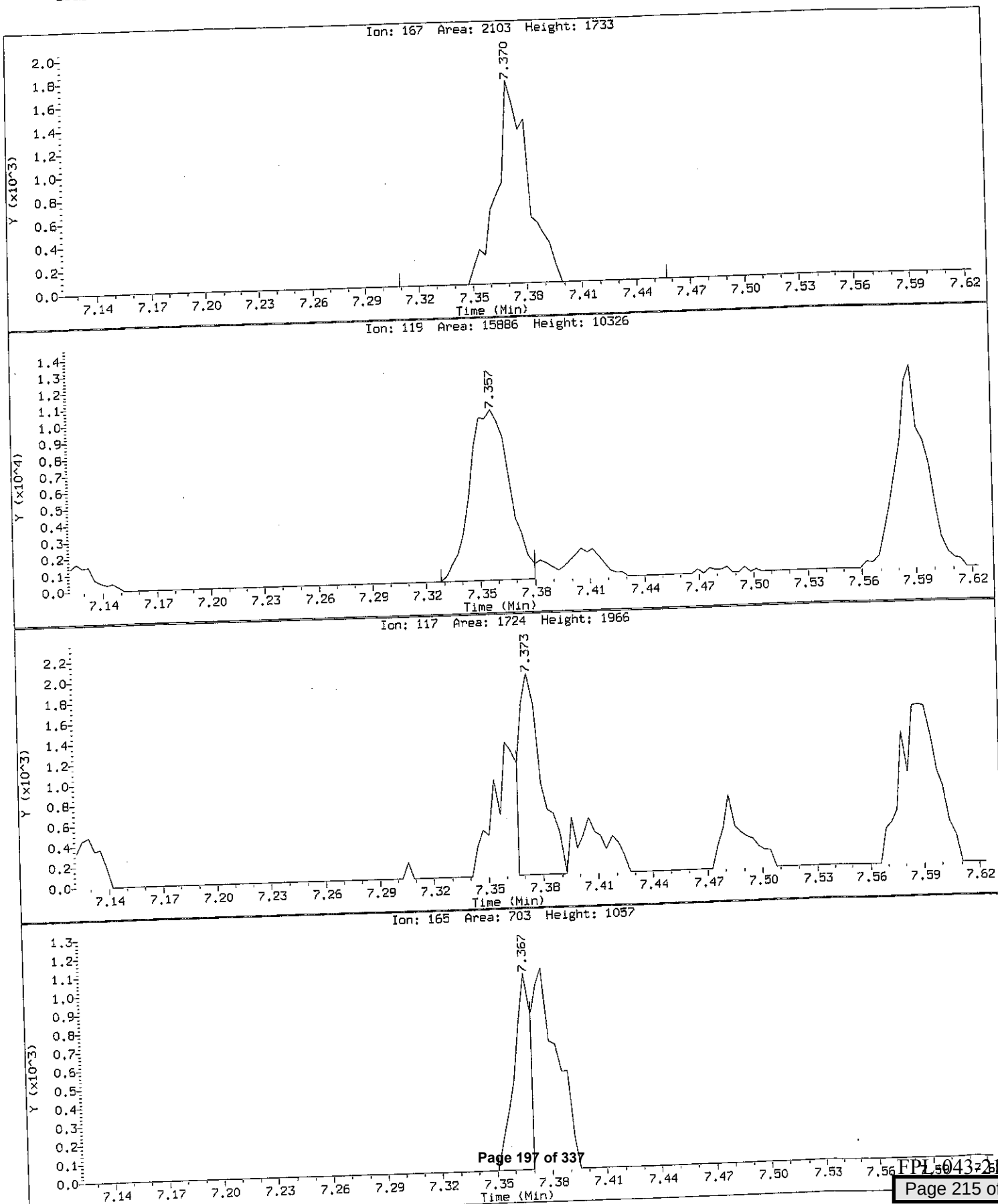
Compound: Bromobenzene
CAS Number: 108-86-1



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

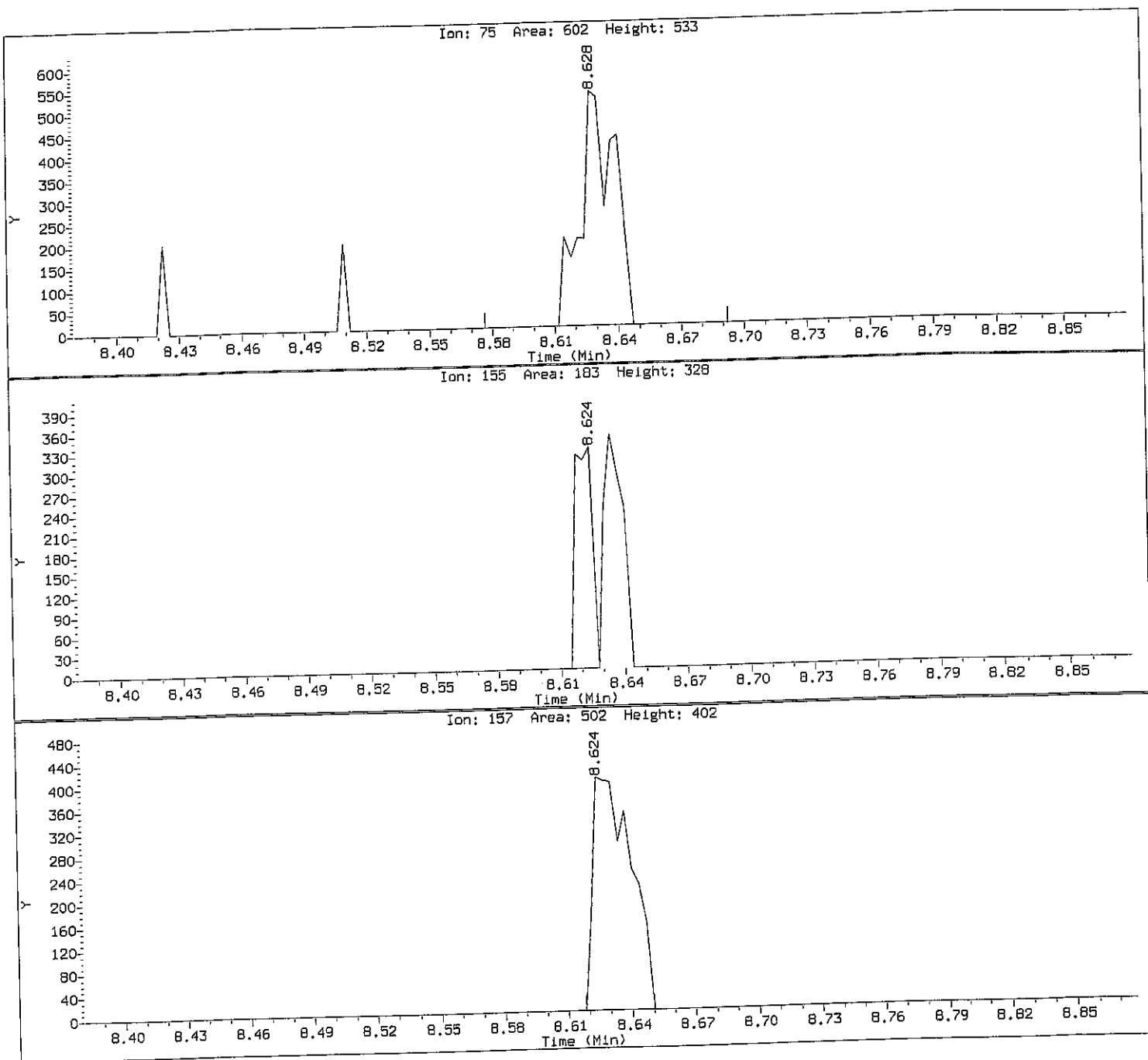
Compound: Pentachloroethane
CAS Number: 76-01-7



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

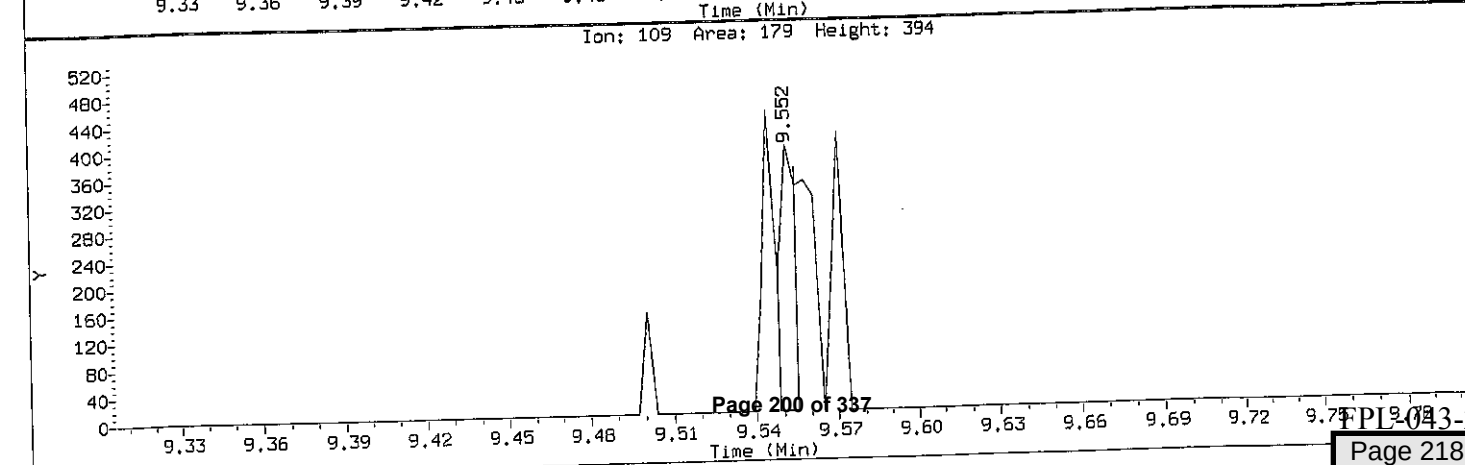
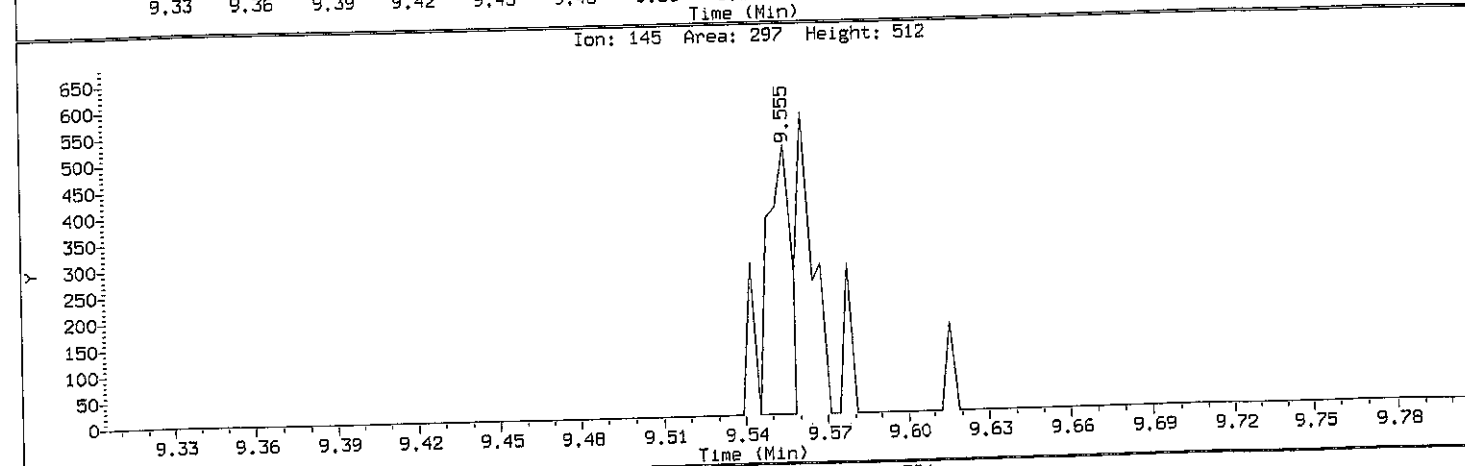
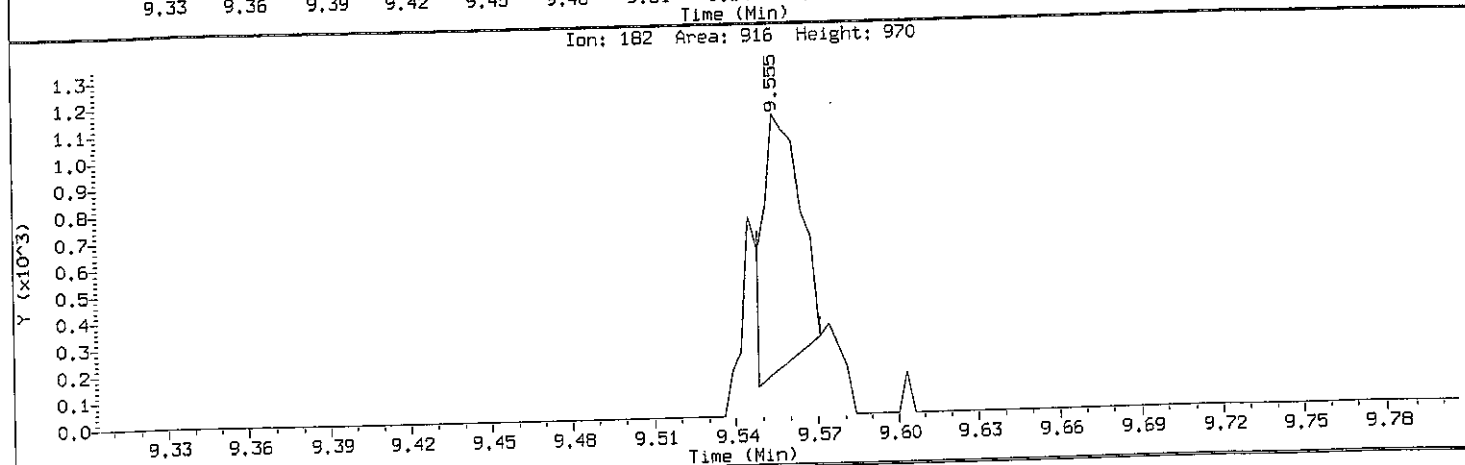
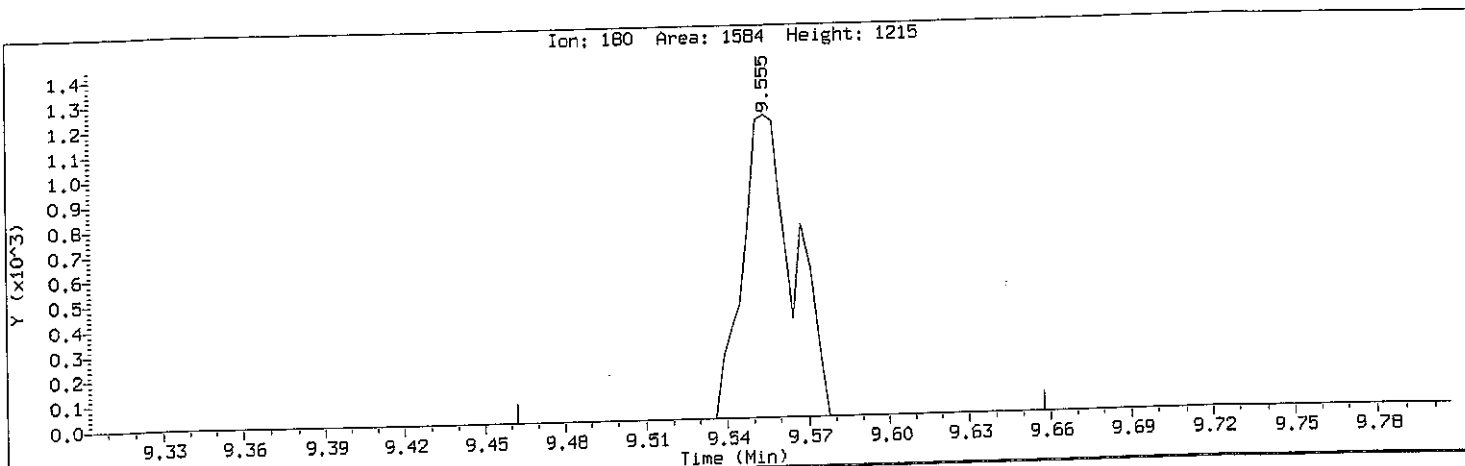
Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.i
Lab Sample ID: ICAL2

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724013.D
Injection Date: 24-JUL-2013 14:33
Instrument: 35msv3.1
Lab Sample ID: ICAL2

Compound: 1,2,3-Trichlorobenzene
CAS Number: 87-61-6



SK
8/21/13

Pace Analytical Services, Inc.

SW846-8260B
 Data file : \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724014.D
 Lab Smp Id: ICAL3
 Inj Date : 24-JUL-2013 14:57 Inst ID: 35msv3.i
 Operator : SK
 Smp Info : ICAL3
 Misc Info : ,,SW846-8260B_W
 Comment : SW846-8260B
 Method : \\35Wintarget\chem\35msv3.i\130724ICAL.b\8260-3-130724.m
 Meth Date : 25-Jul-2013 10:05 skaneyama Quant Type: ISTD
 Cal Date : 24-JUL-2013 14:57 Cal File: 0724014.D
 Als bottle: 8 Calibration Sample, Level: 3
 Dil Factor: 1.00000 Compound Sublist: all.sub
 Integrator: HP RTE
 Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS					AMOUNTS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene (I)	96	4.135	4.136 (1.000)		448575	40.0000		
* 2 Chlorobenzene-d5 (I)	82	6.070	6.074 (1.000)		184590	40.0000		
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.700	7.704 (1.000)		181271	40.0000		
\$ 4 Dibromofluoromethane (S)	111	3.660	3.662 (0.885)		122813	40.0000	40.2	
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.975	3.979 (0.961)		135648	40.0000	39.6 (Q)	
\$ 6 Toluene-d8 (S)	98	5.079	5.080 (1.228)		437218	40.0000	40.2	
\$ 7 4-Bromofluorobenzene (S)	174	6.898	6.902 (1.136)		142518	40.0000	39.8	
8 Dichlorodifluoromethane	85	1.254	1.249 (0.303)		29018	5.00000	5.38	
9 Chloromethane	50	1.421	1.425 (0.344)		19300	5.00000	4.62 (QM)	LT
10 Vinyl Chloride	62	1.456	1.451 (0.352)		33094	5.00000	6.44	
11 Bromomethane	94	1.690	1.688 (0.409)		2752	5.00000	9.31 (QM)	BA
12 Chloroethane	64	1.783	1.775 (0.431)		24372	5.00000	5.18	
13 Trichlorofluoromethane	101	1.883	1.874 (0.455)		49644	5.00000	7.84	
14 Ethanol	45	2.197	2.208 (0.531)		1748	200.000	101 (QH)	
150 Ethyl Ether	45	2.098	2.093 (0.507)		19472	5.00000	4.72	
15 1,1,2-Trichlorotrifluoroethan	151	2.248	2.247 (0.544)		25842	5.00000	4.77	
16 Acrolein	56	2.451	2.452 (0.593)		31858	50.0000	39.5	
17 1,1-Dichloroethene	61	2.226	2.221 (0.538)		42919	5.00000	4.75	
18 Acetone	43	2.643	2.641 (0.639)		21441	5.00000	6.00 (Q)	
19 Iodomethane	142	2.319	2.317 (0.561)		6364	5.00000	6.14 (Q)	
20 Carbon Disulfide	76	2.248	2.240 (0.544)		77637	5.00000	4.55	
21 Allyl chloride	41	2.534	2.532 (0.613)		44953	5.00000	5.28	
22 Acetonitrile	41	2.935	2.933 (0.710)		34859	50.0000	56.0 (QM)	WP

Compounds	QUANT SIG MASS					AMOUNTS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49	2.601	2.599	(0.629)	39662	5.00000	4.65	
159 tert-Butyl Alcohol	59	3.214	3.216	(0.777)	160723	50.0000	44.3	
24 Methyl-tert-butyl Ether	73	2.772	2.770	(0.670)	88190	5.00000	4.69 (Q)	
25 trans-1,2-Dichloroethene	61	2.701	2.699	(0.653)	44105	5.00000	4.67	
165 methyl Acetate	43	2.714	2.715	(0.656)	24759	5.00000	4.73 (Q)	
26 Acrylonitrile	53	3.115	3.119	(0.753)	101270	50.0000	46.1	
164 n-hexane	57	2.749	2.744	(0.665)	68185	5.00000	4.89 (M)	LT
162 Diisopropyl ether	45	2.996	2.997	(0.725)	105255	5.00000	4.84	
27 1,1-Dichloroethane	63	3.080	3.078	(0.745)	50758	5.00000	4.58	
28 Vinyl Acetate	43	3.224	3.225	(0.780)	129812	5.00000	4.37	
29 Chloroprene	53	3.060	3.058	(0.740)	44370	5.00000	4.56 (QM)	NI
166 Ethyl-tert-butyl ether	59	3.214	3.216	(0.777)	160723	5.00000	4.43	
30 2,2-Dichloropropane	77	3.461	3.459	(0.837)	37470	5.00000	4.47	
31 cis-1,2-Dichloroethene	61	3.400	3.398	(0.822)	35559	5.00000	4.55 (Q)	
161 Ethyl Acetate	43	3.622	3.623	(0.876)	52258	10.0000	9.09	
32 2-Butanone	43	3.741	3.742	(0.905)	26495	5.00000	5.05 (Q)	
33 Propionitrile	54	3.920	3.928	(0.948)	38472	50.0000	43.4	
34 Bromochloromethane	130	3.513	3.514	(0.849)	17097	5.00000	4.15	
167 Tetrahydrofuran	42	3.657	3.655	(0.884)	72107	50.0000	43.0	
35 Methacrylonitrile	41	3.923	3.934	(0.949)	193187	50.0000	45.2 (Q)	
36 Chloroform	83	3.554	3.553	(0.860)	46495	5.00000	4.76	
172 tert-Butyl Formate	59	3.214	3.216	(0.777)	160723	25.0000	22.2	
171 cyclohexane	56	3.516	3.514	(0.850)	42581	5.00000	4.40	
37 1,1,1-Trichloroethane	97	3.680	3.678	(0.890)	40183	5.00000	4.53	
38 Carbon Tetrachloride	117	3.635	3.636	(0.879)	26726	5.00000	7.13	
39 1,1-Dichloropropene	75	3.747	3.748	(0.906)	33961	5.00000	4.55	
40 Isobutyl alcohol	43	4.013	4.018	(0.971)	18217	100.000	76.9 (Q)	
41 Benzene	78	3.898	3.896	(0.943)	108802	5.00000	5.19 (Q)	
163 tert-amyl Alcohol	59	4.074	4.078	(0.985)	33975	100.000	78.0 (Q)	
169 tert-amyl methyl ether	73	3.956	3.957	(0.957)	162251	5.00000	4.54	
42 1,2-Dichloroethane	62	4.013	4.018	(0.971)	38055	5.00000	4.59	
43 Trichloroethene	132	4.232	4.236	(1.023)	32478	5.00000	4.67	
168 Methylcyclohexane	83	4.232	4.230	(1.023)	45873	5.00000	4.45	
44 1,2-Dichloropropane	63	4.549	4.550	(1.100)	27534	5.00000	4.56	
45 Methyl methacrylate	69	4.668	4.666	(1.129)	17135	5.00000	4.25	
46 1,4-Dioxane	88	4.713	4.717	(1.140)	3358	100.000	116 (M)	NI
47 Dibromomethane	174	4.491	4.489	(1.086)	19062	5.00000	4.65	
48 Bromodichloromethane	83	4.581	4.583	(1.108)	28114	5.00000	5.51	
49 2-Chloroethyl Vinyl Ether	63	4.918	4.919	(1.189)	22348	5.00000	5.59	
50 cis-1,3-Dichloropropene	75	4.963	4.964	(1.200)	37900	5.00000	5.35	
51 4-Methyl-2-Pentanone	43	5.345	5.343	(0.881)	52050	5.00000	4.32	
52 Toluene	91	5.108	5.112	(0.841)	122857	5.00000	4.78	
53 trans-1,3-Dichloropropene	75	5.367	5.369	(0.884)	32824	5.00000	5.34	
54 Ethyl methacrylate	41	5.454	5.459	(0.899)	23101	5.00000	4.17	
55 1,1,2-Trichloroethane	97	5.467	5.471	(0.901)	26118	5.00000	4.74	
56 Tetrachloroethene	166	5.355	5.353	(0.882)	35488	5.00000	4.75	
57 1,3-Dichloropropane	76	5.643	5.648	(0.930)	44067	5.00000	4.80	
58 2-Hexanone	43	5.878	5.879	(0.968)	44265	5.00000	7.95 (QM)	LT
59 Dibromochloromethane	129	5.586	5.587	(0.920)	18034	5.00000	5.29 (Q)	
160 3,3-dimethyl-1-butanol	57	5.852	5.856	(0.964)	29391	100.000	227 (Q)	
60 1,2-Dibromoethane	107	5.743	5.744	(0.946)	26751	5.00000	4.82	
61 Chlorobenzene	112	6.083	6.084	(1.002)	88341	5.00000	4.75 (Q)	
62 Ethylbenzene	91	6.093	6.097	(1.004)	143489	5.00000	4.64	
63 1,1,1,2-Tetrachloroethane	131	6.118	6.126	(1.008)	24280	5.00000	5.19	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW CODE
						CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
64 m&p-Xylene	91	6.192	6.097	(1.020)	215039	10.0000	9.54	
65 o-Xylene	91	6.481	6.485	(1.068)	104982	5.00000	4.43	
66 Styrene	104	6.519	6.521	(1.074)	80244	5.00000	4.53	
67 Bromoform	173	6.539	6.543	(1.077)	8356	5.00000	6.82 (Q)	
68 Isopropylbenzene (cumene)	105	6.696	6.697	(1.103)	133238	5.00000	4.22	
69 Bromobenzene	77	6.975	6.976	(0.906)	54839	5.00000	4.41	
70 1,1,2,2-Tetrachloroethane	83	7.033	7.037	(0.913)	31631	5.00000	4.77	
71 n-Propylbenzene	91	6.988	6.989	(0.907)	158110	5.00000	4.51	
72 1,2,3-Trichloropropane	75	7.135	7.137	(0.927)	24731	5.00000	3.87 (Q)	
73 trans 1,4-Dichloro-2-butene	53	7.164	7.166	(0.930)	4822	5.00000	7.35 (QM)	BA
170 cis-1,4-dichloro-2-butene	53	6.940	6.944	(0.901)	4474	5.00000	10.6 (Q)	
74 2-Chlorotoluene	91	7.222	7.223	(0.938)	92347	5.00000	4.52	
75 1,3,5-Trimethylbenzene	105	7.126	7.130	(0.925)	108067	5.00000	4.53	
76 4-Chlorotoluene	91	7.222	7.223	(0.938)	92347	5.00000	4.52	
77 tert-Butylbenzene	119	7.357	7.358	(0.955)	99180	5.00000	6.06	
78 1,2,4-Trimethylbenzene	105	7.405	7.409	(0.962)	104820	5.00000	4.48	
79 Pentachloroethane	167	7.373	7.374	(0.957)	13007	5.00000	7.68	
80 sec-Butylbenzene	105	7.482	7.486	(0.972)	120244	5.00000	4.54	
81 p-Isopropyltoluene	119	7.585	7.592	(0.985)	98015	5.00000	5.11	
82 1,3-Dichlorobenzene	146	7.646	7.650	(0.993)	63227	5.00000	4.70	
83 1,4-Dichlorobenzene	146	7.710	7.714	(1.001)	65820	5.00000	4.77	
84 1,2,3-Trimethylbenzene	105	7.726	7.730	(1.868)	112951	5.00000	4.64	
85 n-Butylbenzene	91	7.899	7.904	(1.026)	81966	5.00000	5.20	
86 1,2-Dichlorobenzene	146	8.028	8.026	(1.043)	52890	5.00000	4.64	
87 1,2-Dibromo-3-Chloropropane	75	8.634	8.629	(1.121)	2557	5.00000	5.12 (QM)	
88 1,2,4-Trichlorobenzene	180	9.154	9.155	(1.189)	15495	5.00000	4.26	
89 Hexachloro-1,3-butadiene	225	9.128	9.129	(1.185)	7324	5.00000	4.28 (QM)	LT
90 Naphthalene	128	9.414	9.412	(1.223)	26519	5.00000	4.89	
91 1,2,3-Trichlorobenzene	180	9.555	9.556	(1.241)	9327	5.00000	7.24	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\35Mintarget\chem\35msv3.1\130724ICAL.b\0724014.D

Date: 24-JUL-2013 14:57

Client ID:

Sample Info: ICAL3

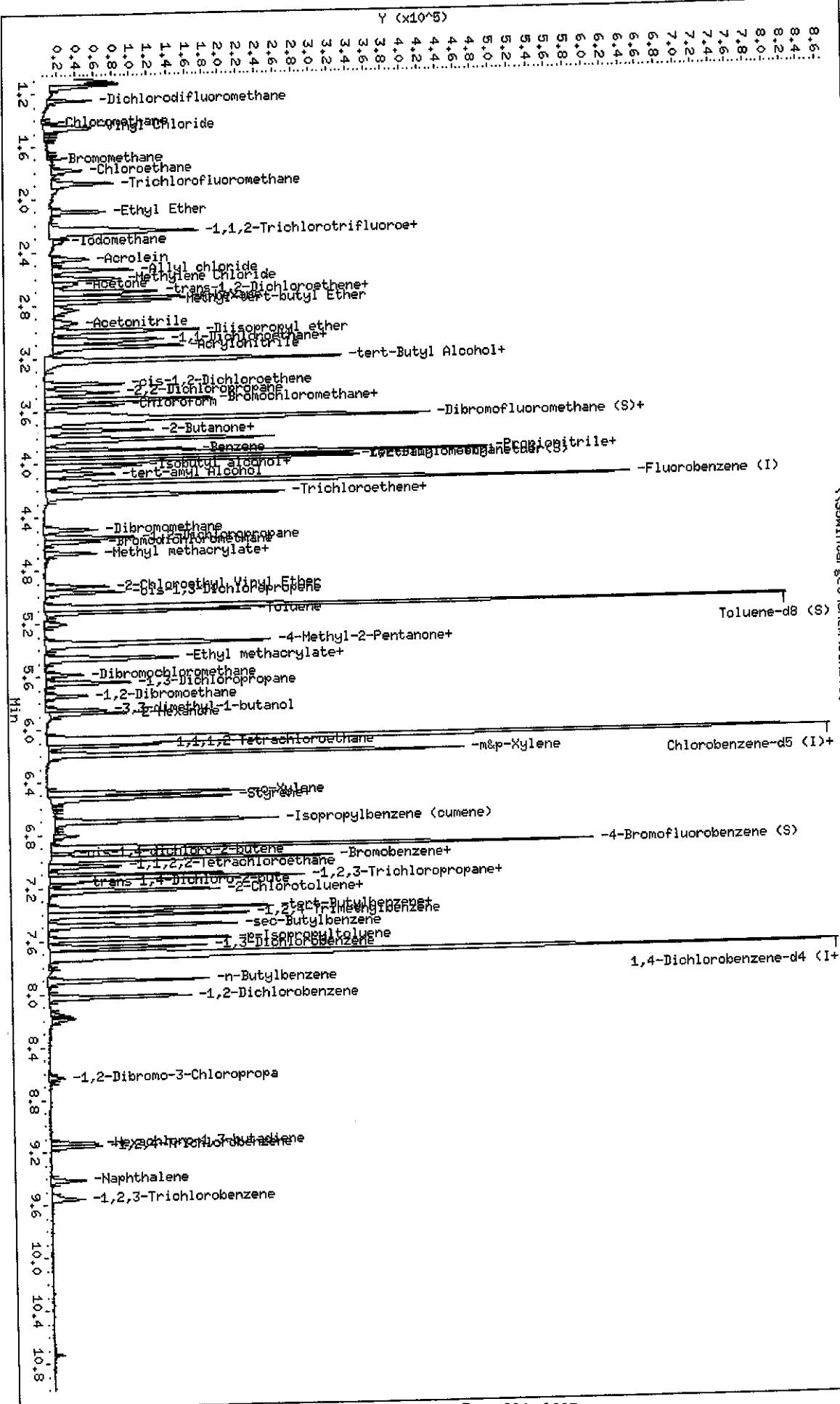
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: 35msv3.1

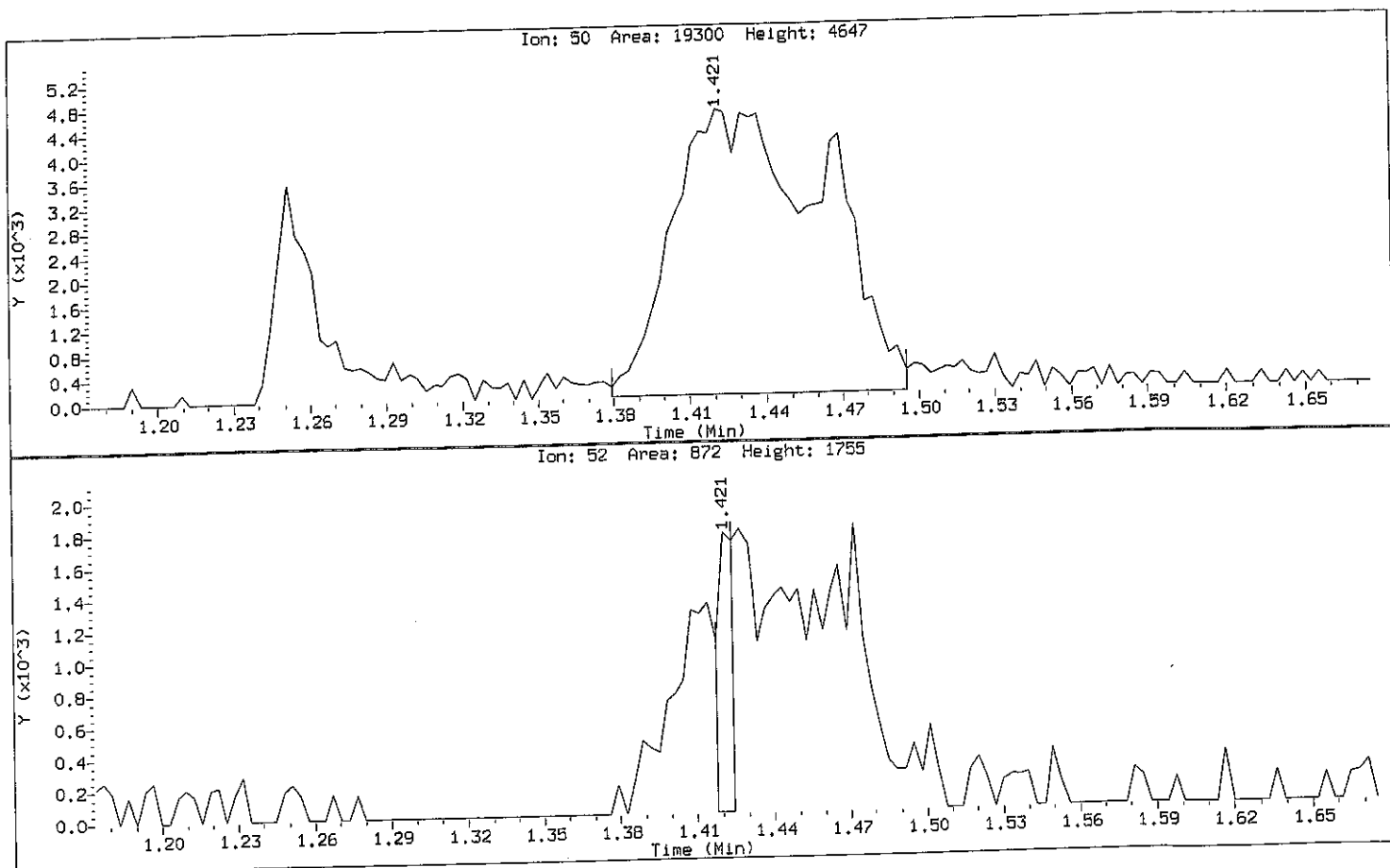
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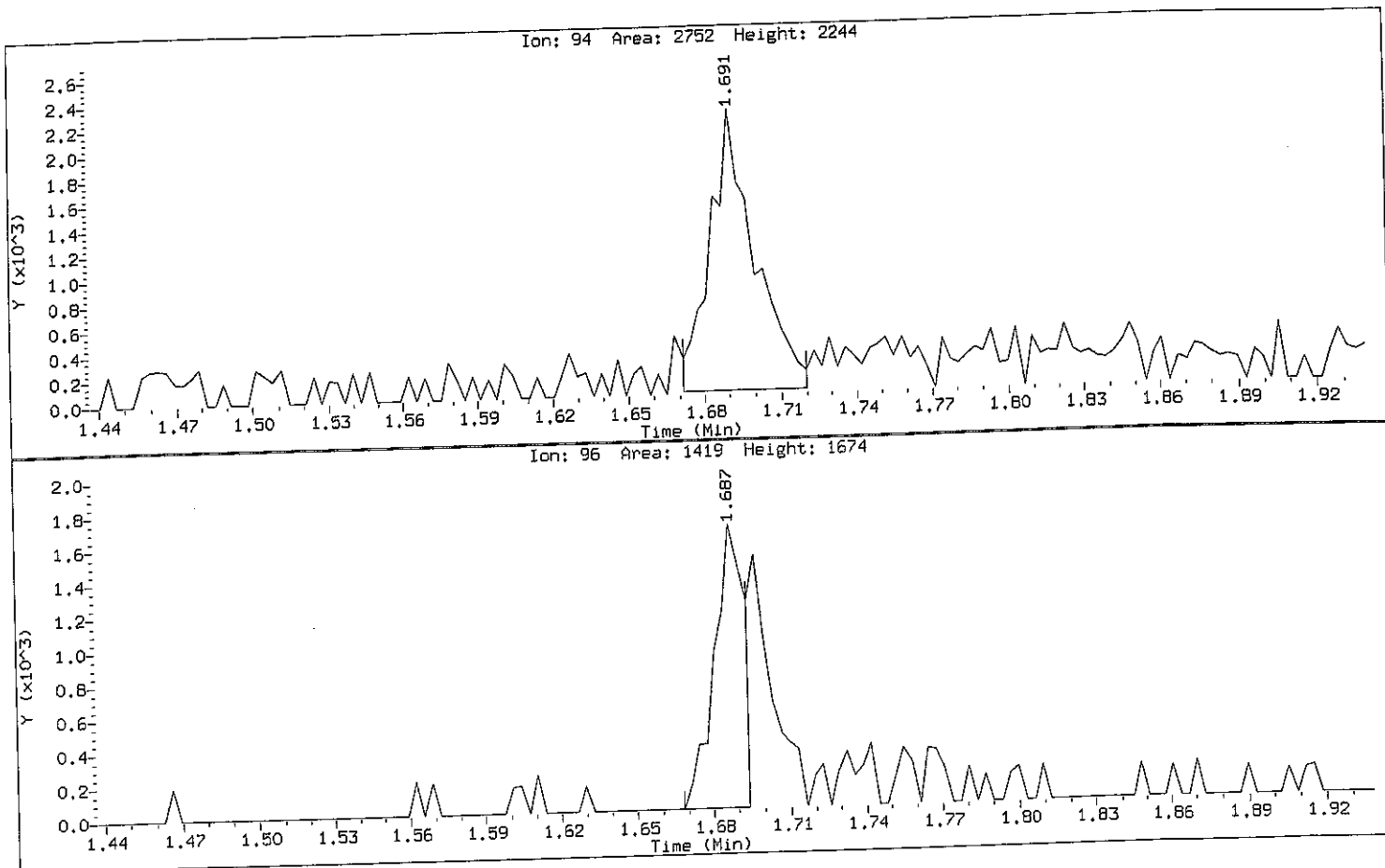
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Injection Date: 24-JUL-2013 14:57
Instrument: 35msv3.i
Lab Sample ID: ICAL3

Compound: Chloromethane
CAS Number: 74-87-3



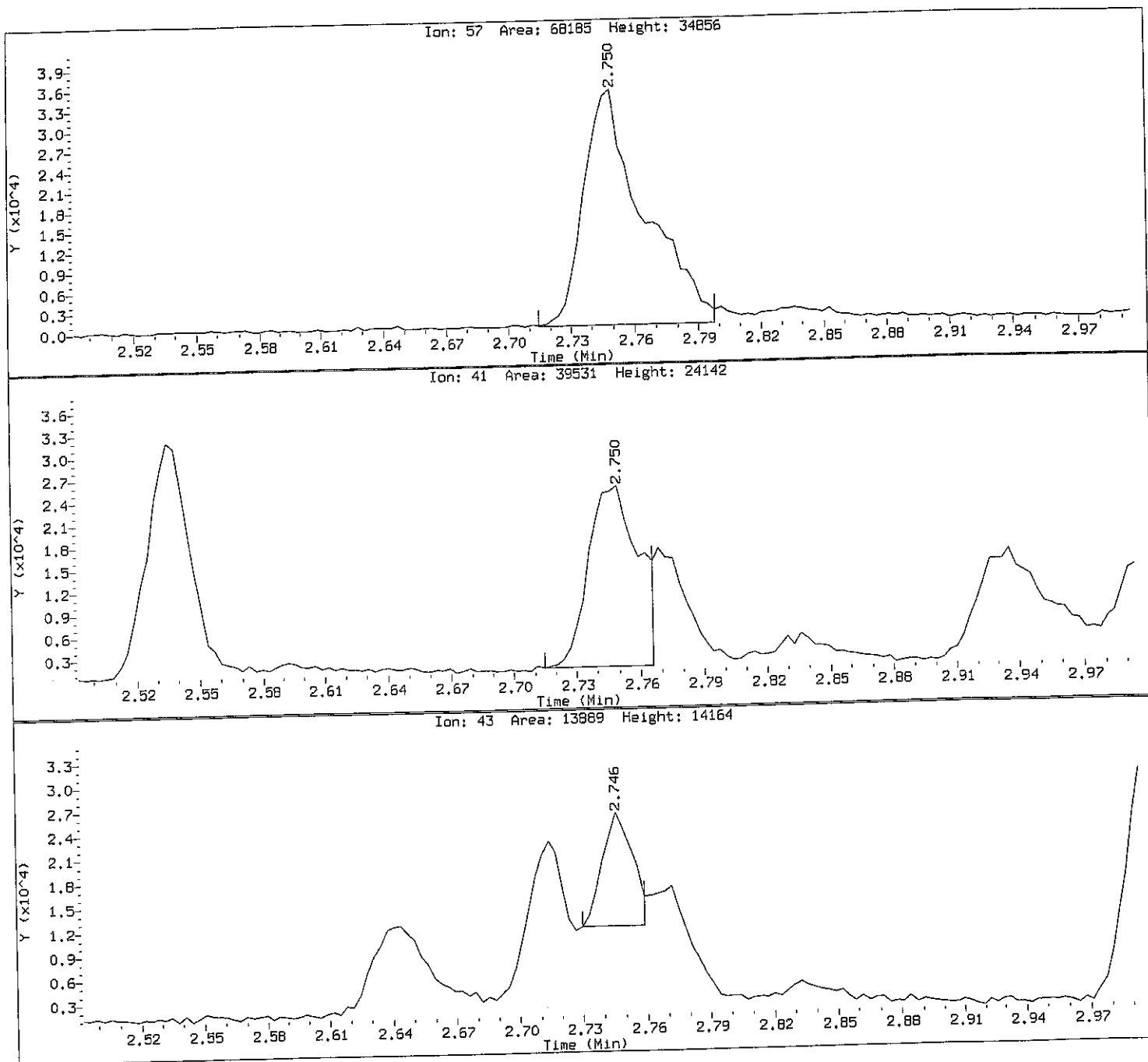
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Instrument: 35msv3.i
Lab Sample ID: ICAL3

Compound: Bromomethane
CAS Number: 74-83-9



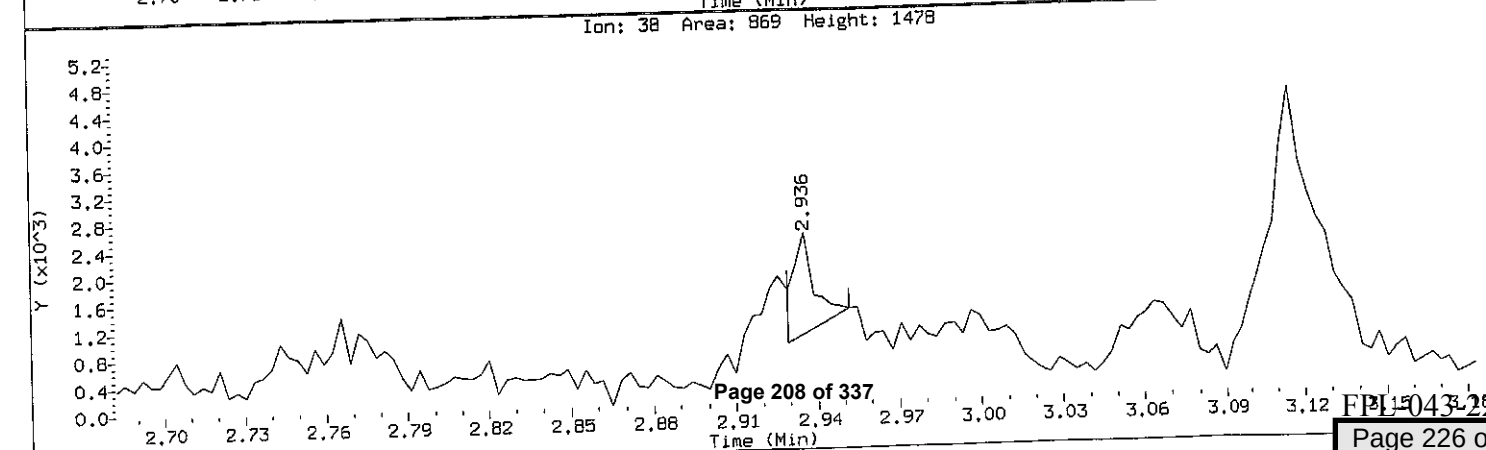
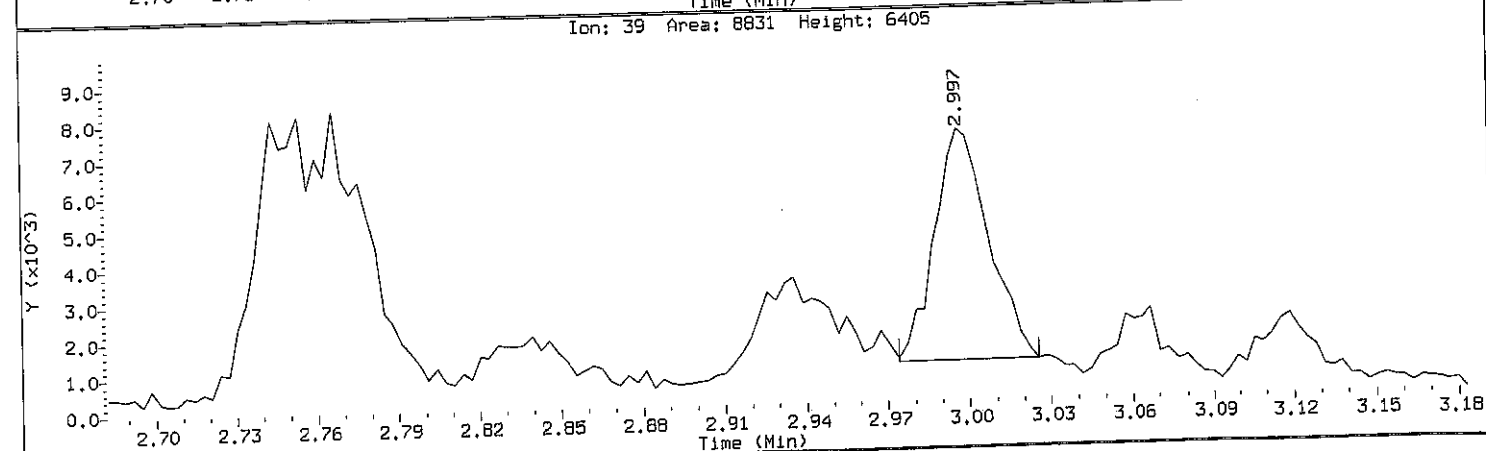
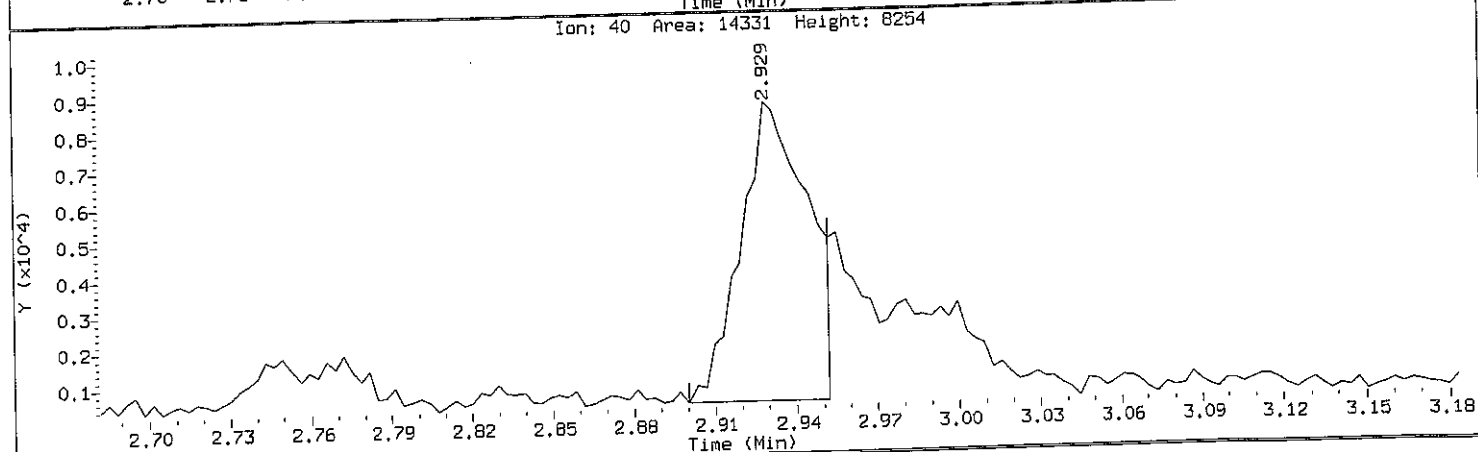
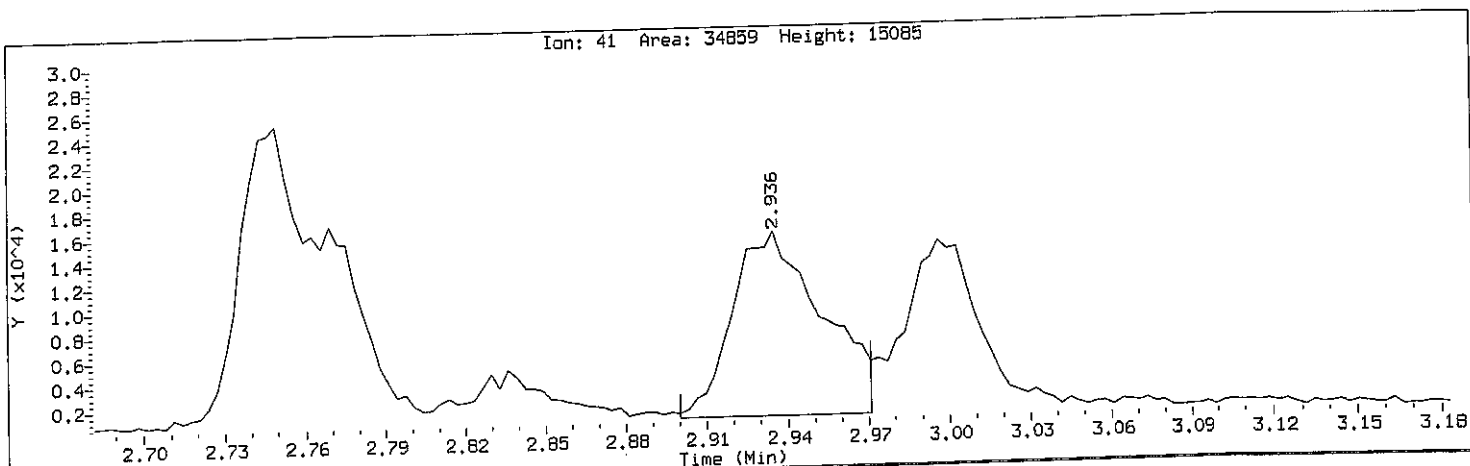
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Injection Date: 24-JUL-2013 14:57
Instrument: 35msv3.i
Lab Sample ID: ICAL3

Compound: n-hexane
CAS Number: 110-54-3



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724014.D
Injection Date: 24-JUL-2013 14:57
Instrument: 35msv3.i
Lab Sample ID: ICAL3

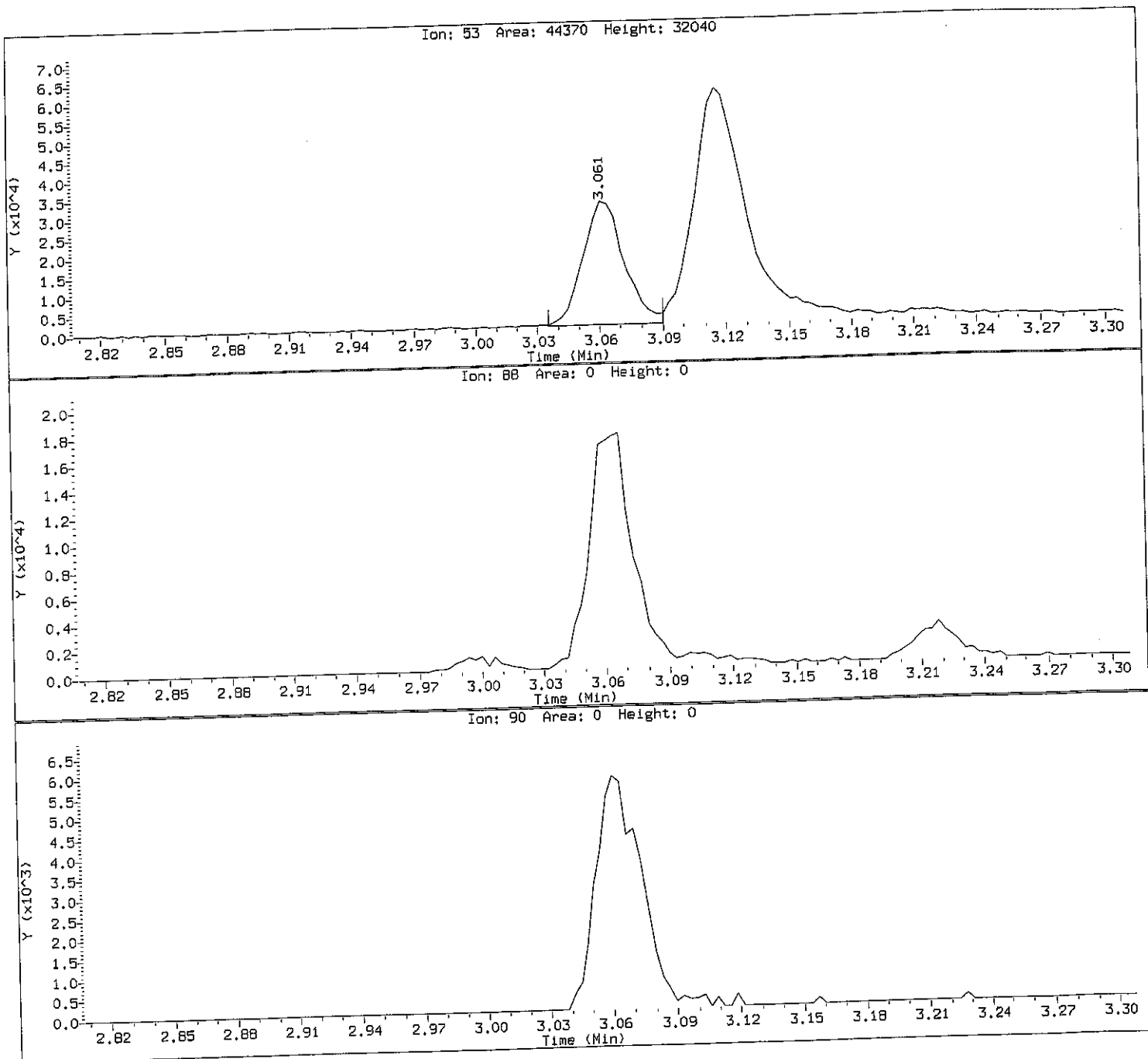
Compound: Acetonitrile
CAS Number: 75-05-8



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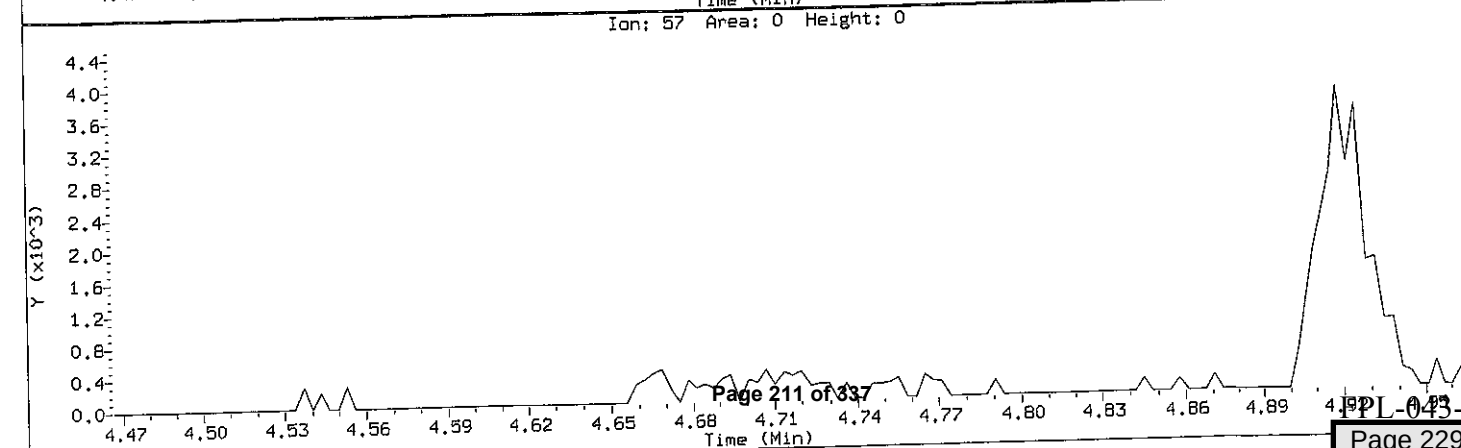
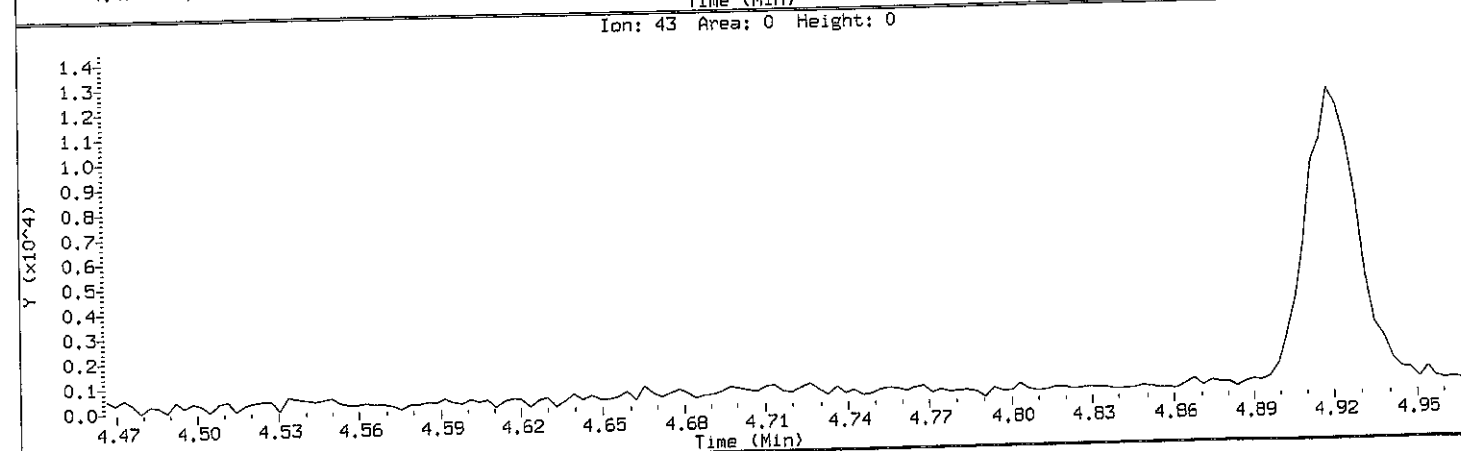
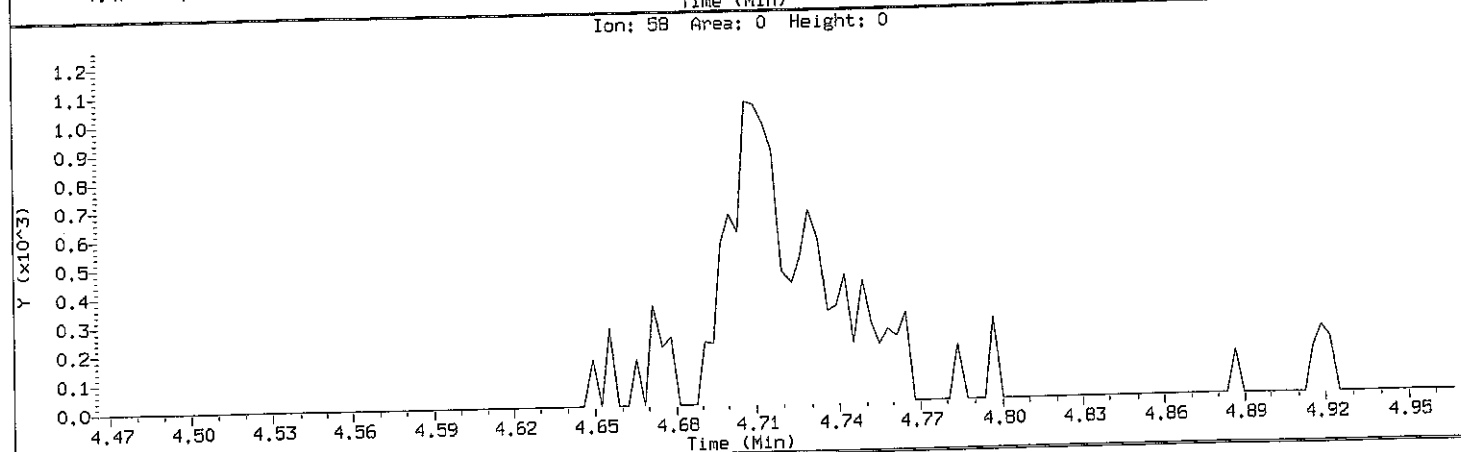
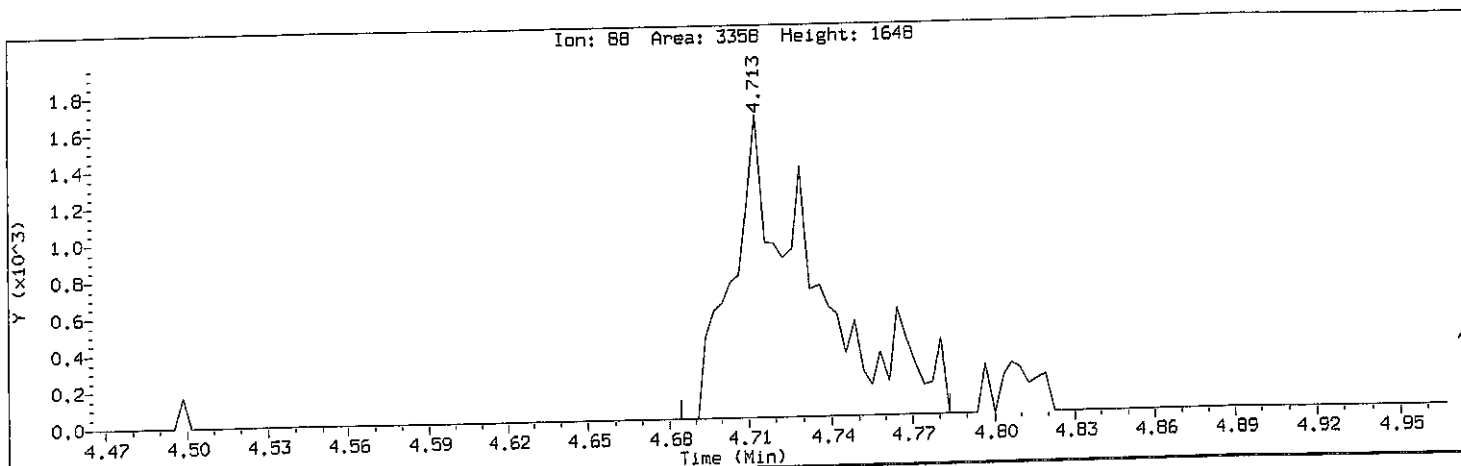
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Injection Date: 24-JUL-2013 14:57
Instrument: 35msv3.i
Lab Sample ID: ICAL3

Compound: Chloroprene
CAS Number: 126-99-8



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724014.D
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Instrument: 35msv3.i
Lab Sample ID: ICAL3

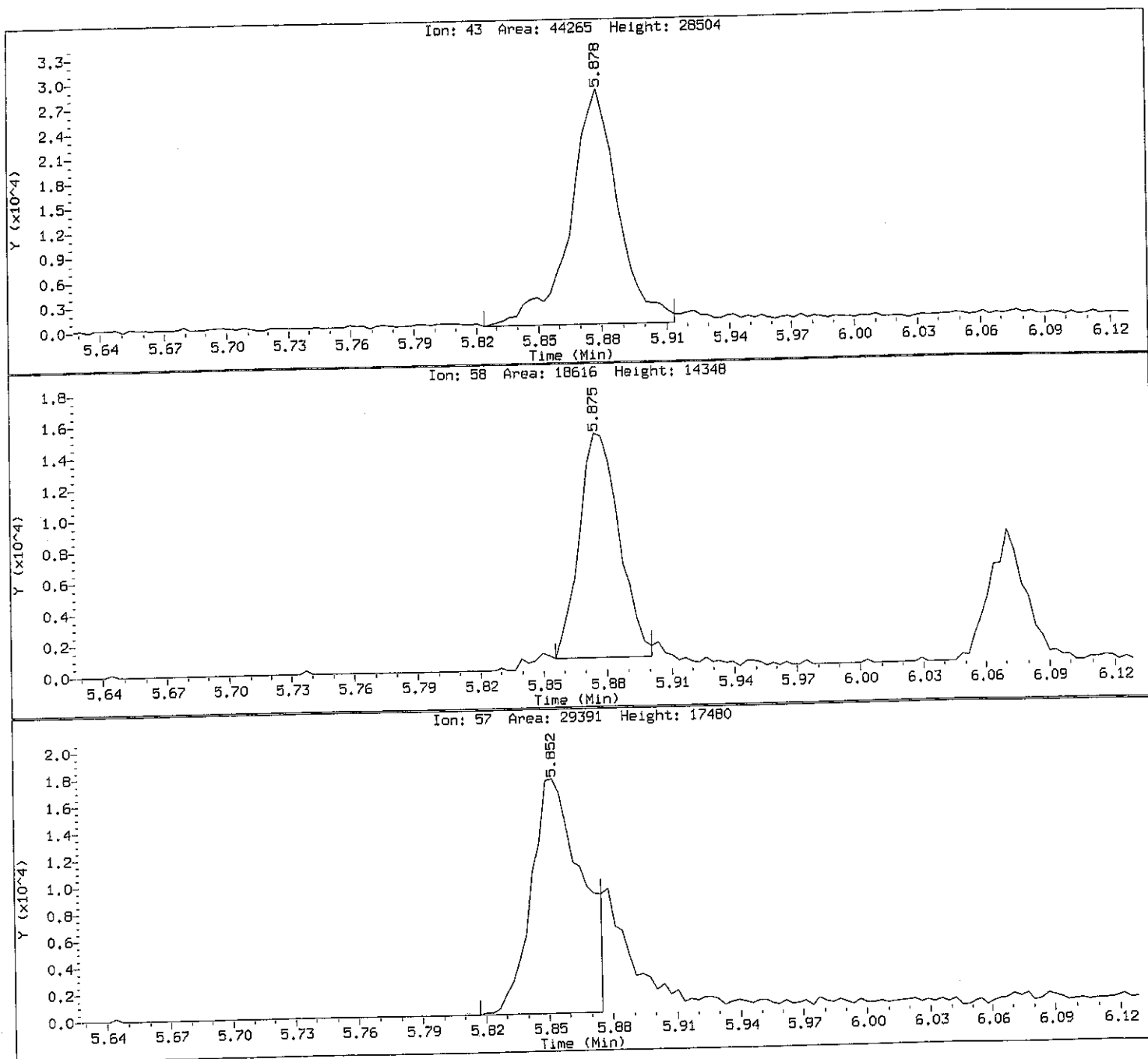
Compound: 1,4-Dioxane
CAS Number: 123-91-1



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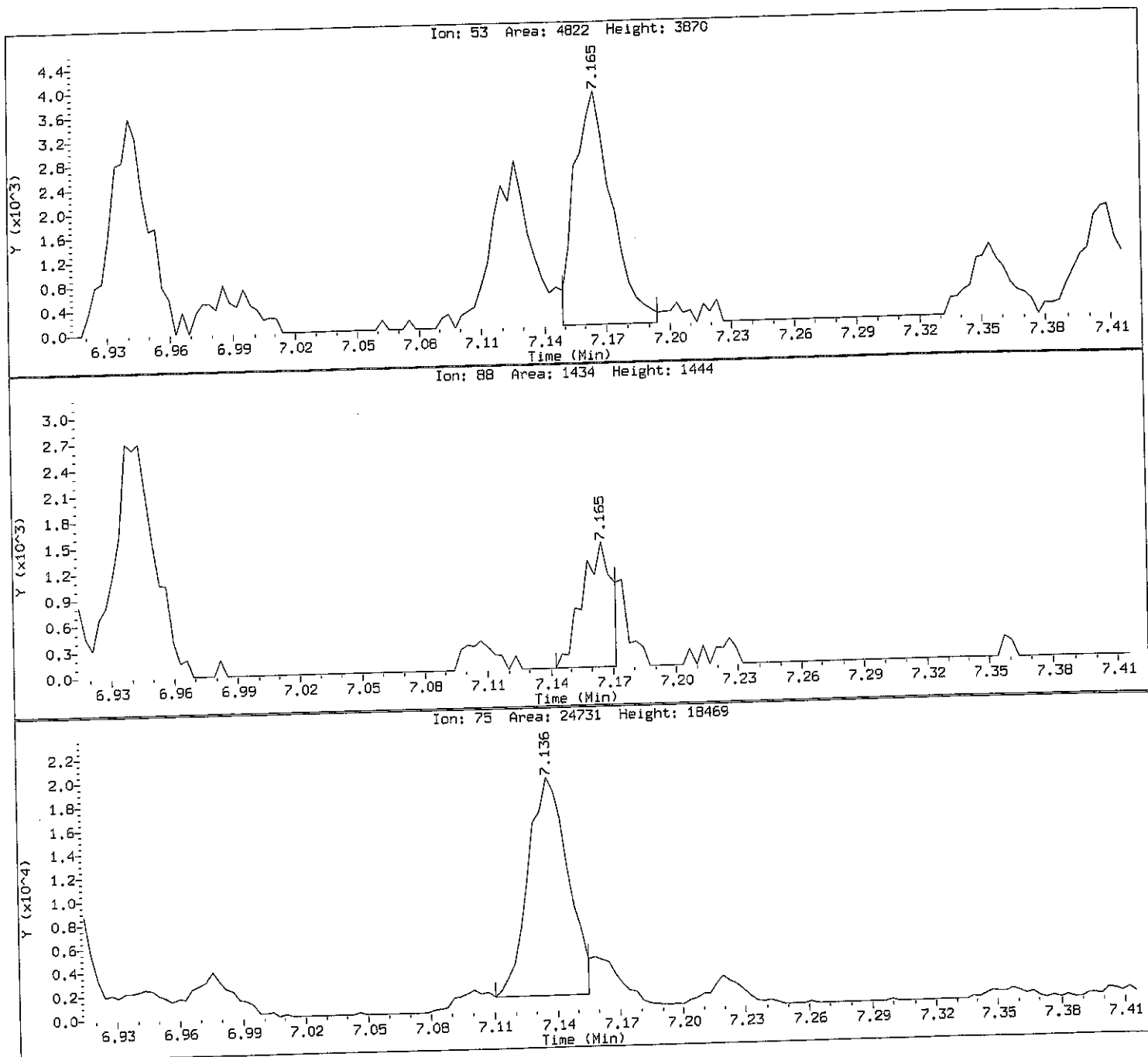
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Instrument: 35msv3.i
Lab Sample ID: ICAL3

Compound: 2-Hexanone
CAS Number: 591-78-6



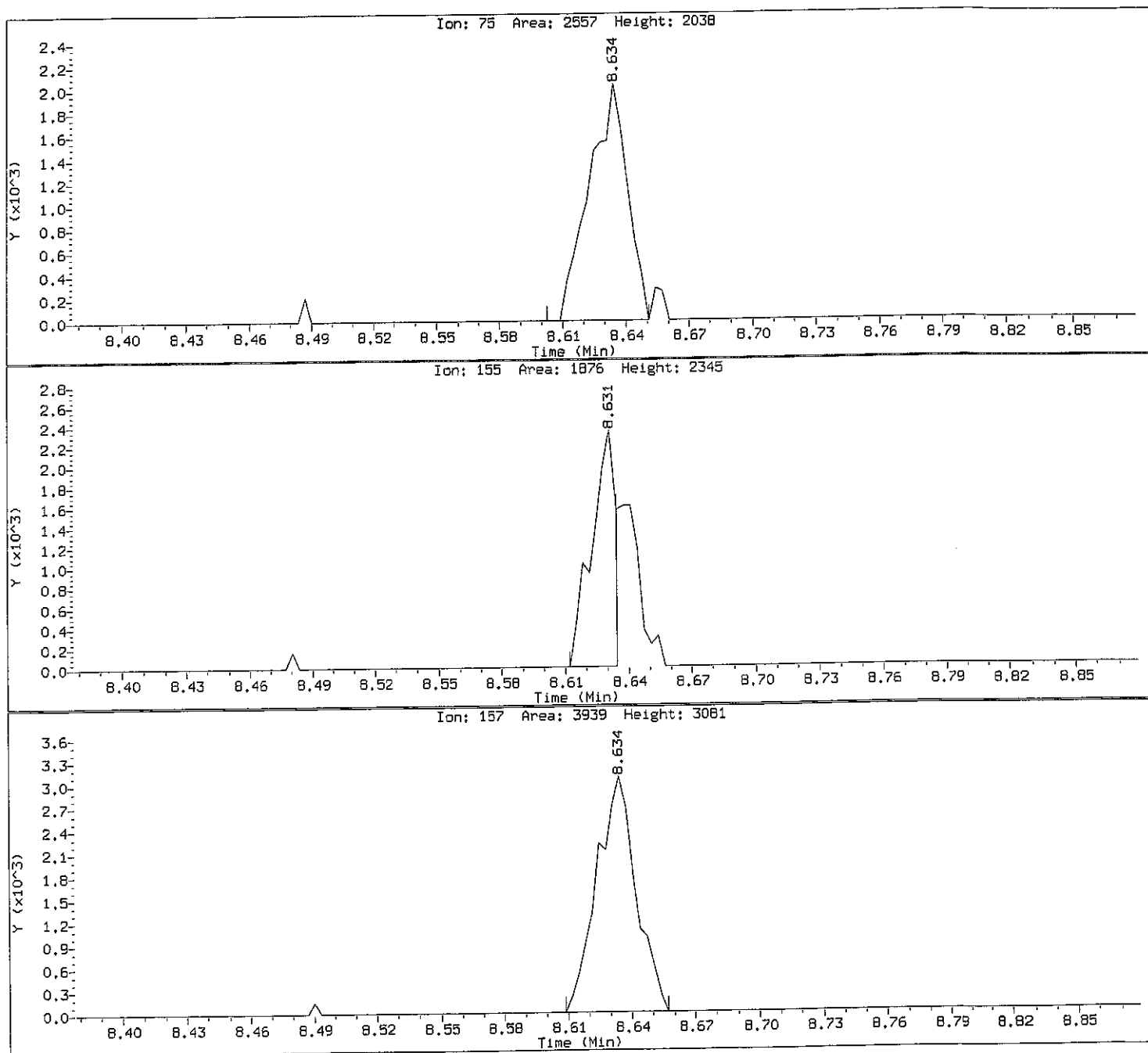
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Injection Date: 24-JUL-2013 14:57
Instrument: 35msv3.i
Lab Sample ID: ICAL3

Compound: trans 1,4-Dichloro-2-butene
CAS Number: 110-57-6



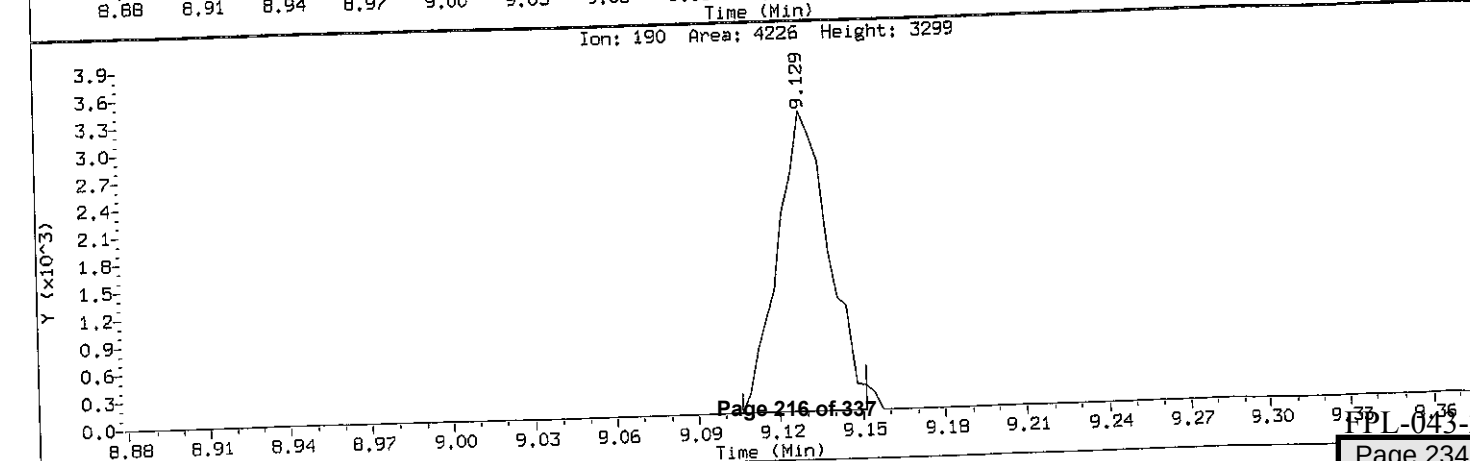
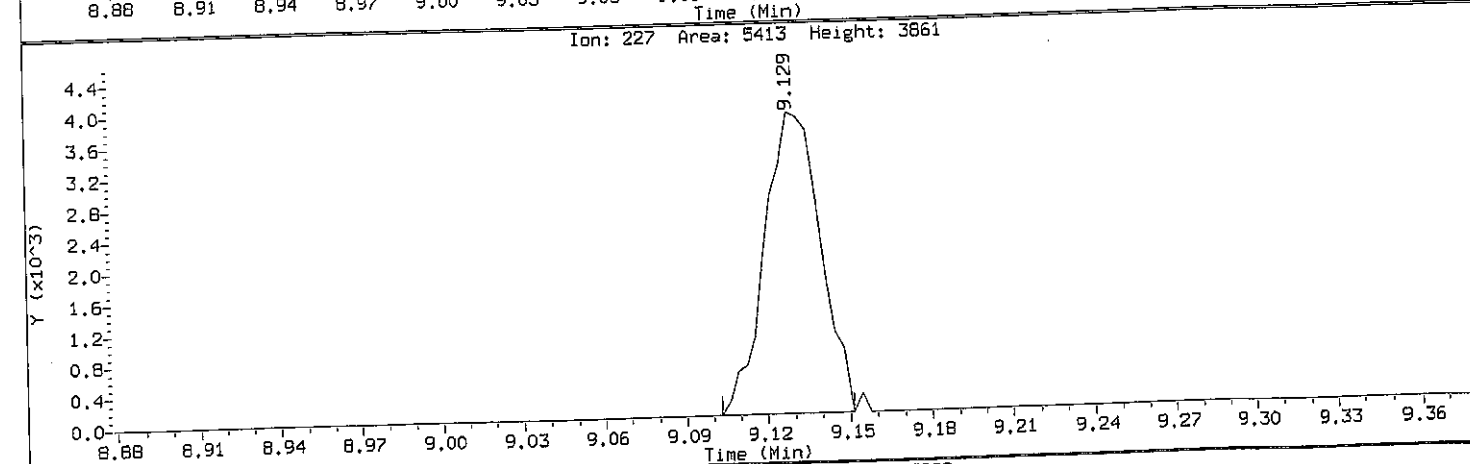
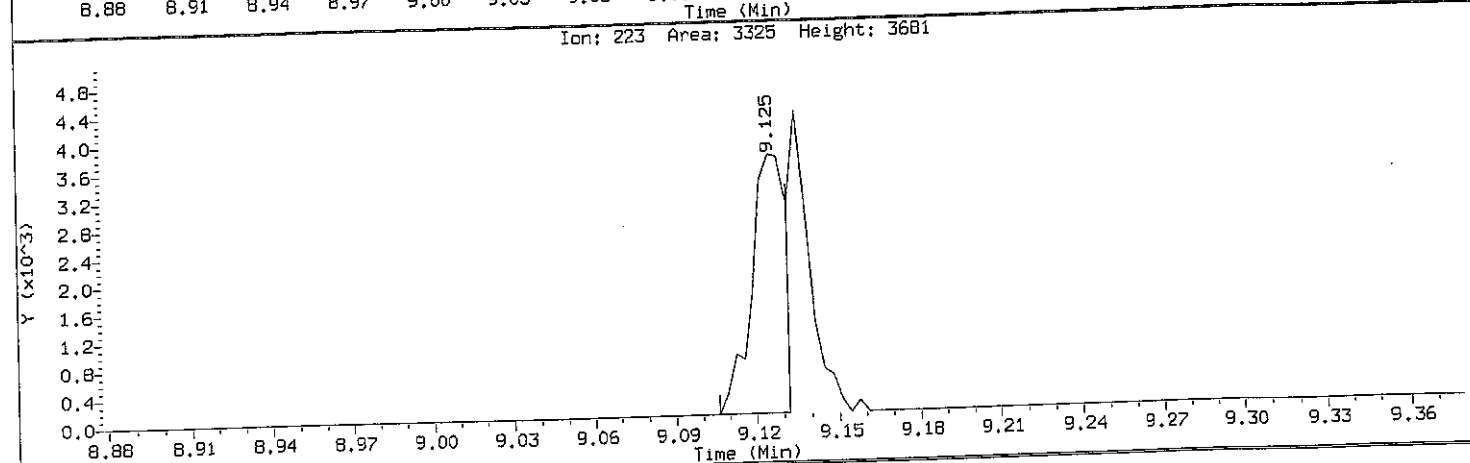
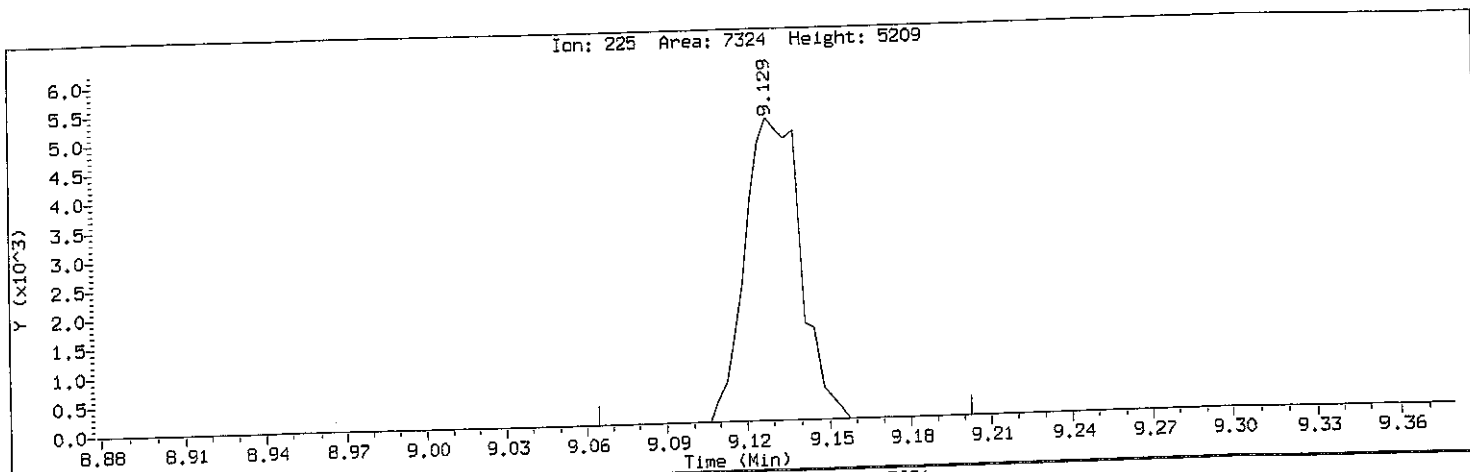
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Injection Date: 24-JUL-2013 14:57
Instrument: 35msv3.i
Lab Sample ID: ICAL3

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724014.D
Injection Date: 24-JUL-2013 14:57
Instrument: 35msv3.i
Lab Sample ID: ICAL3

Compound: Hexachloro-1,3-butadiene
CAS Number: 87-68-3



4
8/21/13

Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724015.D
Lab Smp Id: ICAL4
Inj Date : 24-JUL-2013 15:21 Inst ID: 35msv3.i
Operator : SK
Smp Info : ICAL4
Misc Info : ,,SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130724ICAL.b\8260-3-130724.m
Meth Date : 25-Jul-2013 10:05 skaneyama Quant Type: ISTD
Cal Date : 24-JUL-2013 15:21 Cal File: 0724015.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000 Compound Sublist: all.sub
Integrator: HP RTE
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS					AMOUNTS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene (I)	96	4.135	4.136 (1.000)		470753	40.0000		
* 2 Chlorobenzene-d5 (I)	82	6.070	6.074 (1.000)		195104	40.0000		
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.700	7.704 (1.000)		193269	40.0000		
\$ 4 Dibromofluoromethane (S)	111	3.663	3.662 (0.886)		127132	40.0000	39.6	
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.977	3.979 (0.962)		140193	40.0000	39.0 (Q)	
\$ 6 Toluene-d8 (S)	98	5.078	5.080 (1.228)		455579	40.0000	39.9	
\$ 7 4-Bromofluorobenzene (S)	174	6.901	6.902 (1.137)		153106	40.0000	40.5	
8 Dichlorodifluoromethane	85	1.253	1.249 (0.303)		63935	10.0000	10.3	
9 Chloromethane	50	1.423	1.425 (0.344)		42870	10.0000	9.78 (QM)	LT
10 Vinyl Chloride	62	1.455	1.451 (0.352)		74290	10.0000	11.1	
11 Bromomethane	94	1.690	1.688 (0.409)		5092	10.0000	10.6	
12 Chloroethane	64	1.779	1.775 (0.430)		52537	10.0000	10.6	
13 Trichlorofluoromethane	101	1.882	1.874 (0.455)		97060	10.0000	11.2	
14 Ethanol	45	2.193	2.208 (0.531)		7118	400.000	393 (QMH)	
158 Ethyl Ether	45	2.094	2.093 (0.506)		42695	10.0000	9.86	
15 1,1,2-Trichlorotrifluoroethan	151	2.251	2.247 (0.544)		58394	10.0000	10.3	
16 Acrolein	56	2.456	2.452 (0.594)		85961	100.000	98.7	
17 1,1-Dichloroethene	61	2.225	2.221 (0.538)		93141	10.0000	9.82	
18 Acetone	43	2.643	2.641 (0.639)		49949	10.0000	12.4 (Q)	
19 Iodomethane	142	2.318	2.317 (0.561)		15769	10.0000	8.49	
20 Carbon Disulfide	76	2.248	2.240 (0.544)		167200	10.0000	9.33	
21 Allyl chloride	41	2.533	2.532 (0.613)		93746	10.0000	10.5	
22 Acetonitrile	41	2.935	2.933 (0.710)		70864	100.000	108 (QH)	WP

Compounds	QUANT SIG MASS					AMOUNTS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49	2.601	2.599 (0.629)		85162	10.0000	9.52	
159 tert-Butyl Alcohol	59	3.217	3.216 (0.778)		361955	100.000	95.1	
24 Methyl-tert-butyl Ether	73	2.771	2.770 (0.670)		194874	10.0000	9.87	
25 trans-1,2-Dichloroethene	61	2.700	2.699 (0.653)		99991	10.0000	10.1	
165 methyl Acetate	43	2.713	2.715 (0.656)		54146	10.0000	9.85	
26 Acrylonitrile	53	3.117	3.119 (0.754)		244246	100.000	106	
164 n-hexane	57	2.745	2.744 (0.664)		148574	10.0000	10.2 (M)	
162 Diisopropyl ether	45	2.999	2.997 (0.725)		239391	10.0000	10.5	
27 1,1-Dichloroethane	63	3.076	3.078 (0.744)		118968	10.0000	10.2	
28 Vinyl Acetate	43	3.227	3.225 (0.780)		309255	10.0000	9.91	
29 Chloroprene	53	3.060	3.058 (0.740)		100983	10.0000	9.89	
166 Ethyl-tert-butyl ether	59	3.217	3.216 (0.778)		361955	10.0000	9.51	
30 2,2-Dichloropropane	77	3.461	3.459 (0.837)		85925	10.0000	9.77 (Q)	
31 cis-1,2-Dichloroethene	61	3.397	3.398 (0.822)		84739	10.0000	10.3	
161 Ethyl Acetate	43	3.621	3.623 (0.876)		126180	20.0000	20.9	
32 2-Butanone	43	3.743	3.742 (0.905)		58172	10.0000	10.6	
33 Propionitrile	54	3.920	3.928 (0.948)		98850	100.000	106 (Q)	
34 Bromochloromethane	130	3.519	3.514 (0.851)		38215	10.0000	9.60	
167 Tetrahydrofuran	42	3.657	3.655 (0.884)		190323	100.000	108	
35 Methacrylonitrile	41	3.926	3.934 (0.950)		463020	100.000	103	
36 Chloroform	83	3.554	3.553 (0.860)		102854	10.0000	10.0	
172 tert-Butyl Formate	59	3.217	3.216 (0.778)		361955	50.0000	47.5	
171 cyclohexane	56	3.515	3.514 (0.850)		98890	10.0000	9.74	
37 1,1,1-Trichloroethane	97	3.679	3.678 (0.890)		90681	10.0000	9.75	
38 Carbon Tetrachloride	117	3.634	3.636 (0.879)		61762	10.0000	10.9	
39 1,1-Dichloropropene	75	3.746	3.748 (0.906)		78425	10.0000	10.0	
40 Isobutyl alcohol	43	4.016	4.018 (0.971)		47523	200.000	210 (Q)	
41 Benzene	78	3.897	3.896 (0.943)		243626	10.0000	10.2	
163 tert-amyl Alcohol	59	4.074	4.078 (0.985)		95075	200.000	208	
169 tert-amyl methyl ether	73	3.955	3.957 (0.957)		365511	10.0000	9.75	
42 1,2-Dichloroethane	62	4.016	4.018 (0.971)		86354	10.0000	9.93	
43 Trichloroethene	132	4.234	4.236 (1.024)		72737	10.0000	9.96	
168 Methylcyclohexane	83	4.231	4.230 (1.023)		105996	10.0000	9.80	
44 1,2-Dichloropropane	63	4.549	4.550 (1.100)		63320	10.0000	10.0	
45 Methyl methacrylate	69	4.667	4.666 (1.129)		42235	10.0000	9.99	
46 1,4-Dioxane	88	4.706	4.717 (1.138)		8358	200.000	274 (M)	NI
47 Dibromomethane	174	4.491	4.489 (1.086)		44395	10.0000	10.3	
48 Bromodichloromethane	83	4.577	4.583 (1.107)		65961	10.0000	9.79	
49 2-Chloroethyl Vinyl Ether	63	4.918	4.919 (1.189)		54542	10.0000	9.80	
50 cis-1,3-Dichloropropene	75	4.963	4.964 (1.200)		88022	10.0000	9.55	
51 4-Methyl-2-Pentanone	43	5.341	5.343 (0.880)		129785	10.0000	10.2	
52 Toluene	91	5.110	5.112 (0.842)		278103	10.0000	10.2	
53 trans-1,3-Dichloropropene	75	5.367	5.369 (0.884)		81356	10.0000	9.72	
54 Ethyl methacrylate	41	5.457	5.459 (0.899)		55579	10.0000	9.50	
55 1,1,2-Trichloroethane	97	5.470	5.471 (0.901)		60487	10.0000	10.4	
56 Tetrachloroethene	166	5.351	5.353 (0.882)		83177	10.0000	10.5	
57 1,3-Dichloropropane	76	5.649	5.648 (0.931)		101362	10.0000	10.4	
58 2-Hexanone	43	5.874	5.879 (0.968)		116207	10.0000	12.9 (M)	LT
59 Dibromochloromethane	129	5.585	5.587 (0.920)		44488	10.0000	9.30	
160 3,3-dimethyl-1-butanol	57	5.851	5.856 (0.964)		106203	200.000	312	
60 1,2-Dibromoethane	107	5.745	5.744 (0.947)		62244	10.0000	10.6	
61 Chlorobenzene	112	6.082	6.084 (1.002)		197768	10.0000	10.1	
62 Ethylbenzene	91	6.095	6.097 (1.004)		323828	10.0000	9.90	
63 1,1,1,2-Tetrachloroethane	131	6.121	6.126 (1.008)		57017	10.0000	9.64	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW CODE
						CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
64 m&p-Xylene	91	6.191	6.097	(1.020)	497662	20.0000	20.9	
65 o-Xylene	91	6.484	6.485	(1.068)	247170	10.0000	9.86	
66 Styrene	104	6.519	6.521	(1.074)	197174	10.0000	9.56	
67 Bromoform	173	6.541	6.543	(1.078)	22464	10.0000	10.2	
68 Isopropylbenzene (cumene)	105	6.695	6.697	(1.103)	307438	10.0000	9.19	
69 Bromobenzene	77	6.971	6.976	(0.905)	129049	10.0000	9.73	
70 1,1,2,2-Tetrachloroethane	83	7.032	7.037	(0.913)	75995	10.0000	10.7	
71 n-Propylbenzene	91	6.987	6.989	(0.907)	374571	10.0000	10.0	
72 1,2,3-Trichloropropane	75	7.138	7.137	(0.927)	76055	10.0000	11.2	
73 trans 1,4-Dichloro-2-butene	53	7.161	7.166	(0.930)	11961	10.0000	10.7 (Q)	
170 cis-1,4-dichloro-2-butene	53	6.939	6.944	(0.901)	11020	10.0000	13.1 (Q)	
74 2-Chlorotoluene	91	7.218	7.223	(0.937)	216675	10.0000	9.95	
75 1,3,5-Trimethylbenzene	105	7.125	7.130	(0.925)	253820	10.0000	9.99	
76 4-Chlorotoluene	91	7.218	7.223	(0.937)	216675	10.0000	9.95	
77 tert-Butylbenzene	119	7.353	7.358	(0.955)	234340	10.0000	10.6	
78 1,2,4-Trimethylbenzene	105	7.408	7.409	(0.962)	254443	10.0000	10.2	
79 Pentachloroethane	167	7.372	7.374	(0.957)	31219	10.0000	11.2	
80 sec-Butylbenzene	105	7.485	7.486	(0.972)	289435	10.0000	10.2	
81 p-Isopropyltoluene	119	7.587	7.592	(0.985)	238016	10.0000	10.1	
82 1,3-Dichlorobenzene	146	7.648	7.650	(0.993)	146428	10.0000	10.2	
83 1,4-Dichlorobenzene	146	7.712	7.714	(1.002)	149221	10.0000	10.1	
84 1,2,3-Trimethylbenzene	105	7.729	7.730	(1.869)	255169	10.0000	10.0	
85 n-Butylbenzene	91	7.902	7.904	(1.026)	195304	10.0000	10.0	
86 1,2-Dichlorobenzene	146	8.027	8.026	(1.043)	125120	10.0000	10.3	
87 1,2-Dibromo-3-Chloropropane	75	8.633	8.629	(1.121)	7914	10.0000	10.7	
88 1,2,4-Trichlorobenzene	180	9.153	9.155	(1.189)	38834	10.0000	10.0	
89 Hexachloro-1,3-butadiene	225	9.131	9.129	(1.186)	19024	10.0000	10.4	
90 Naphthalene	128	9.413	9.412	(1.223)	80333	10.0000	10.8	
91 1,2,3-Trichlorobenzene	180	9.558	9.556	(1.241)	25707	10.0000	12.7 (Q)	

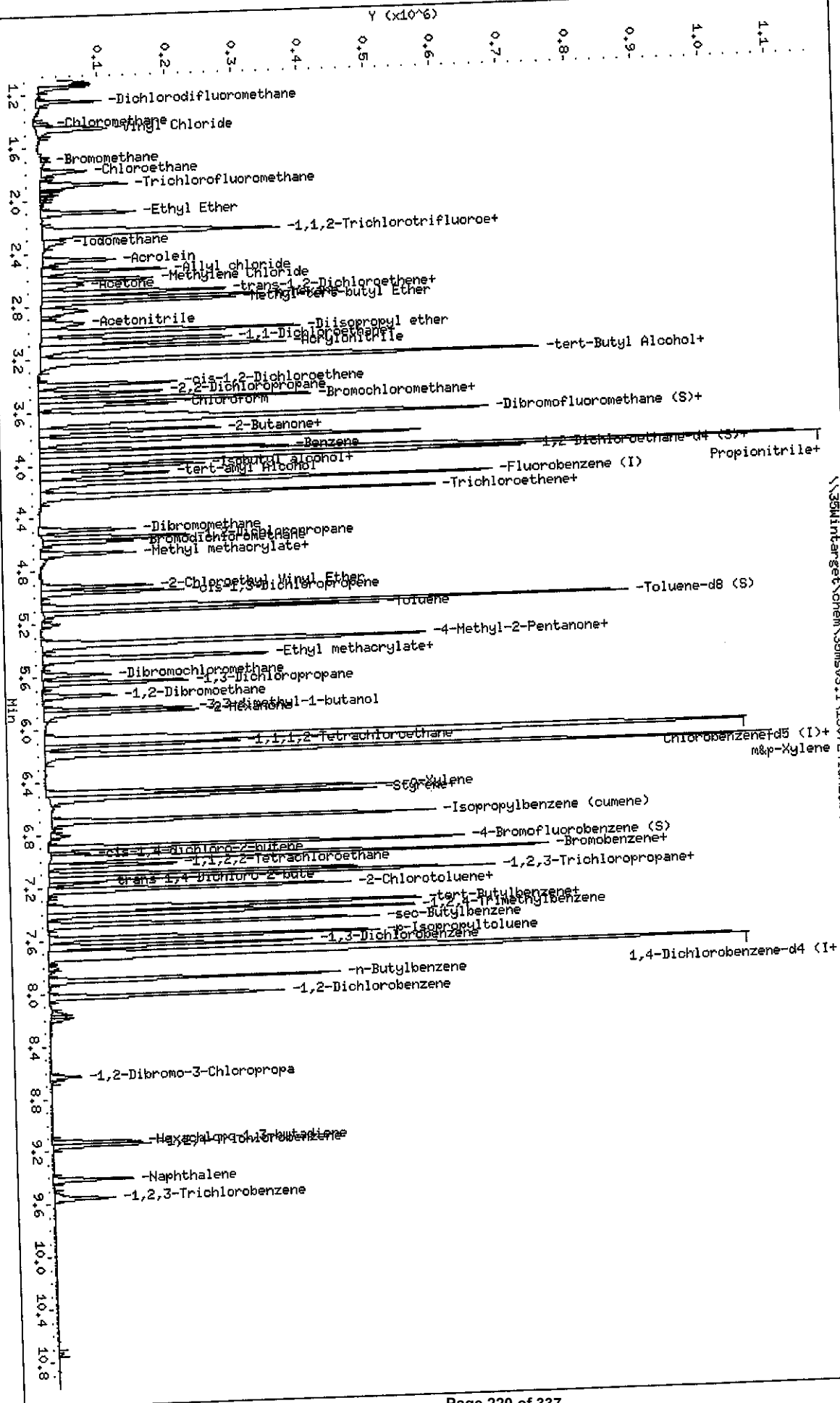
QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

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 Date: 24-JUL-2013 15:24
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 Sample Info: ICAL4
 Purge Volume: 5.0
 Column phase: RTX-WMS

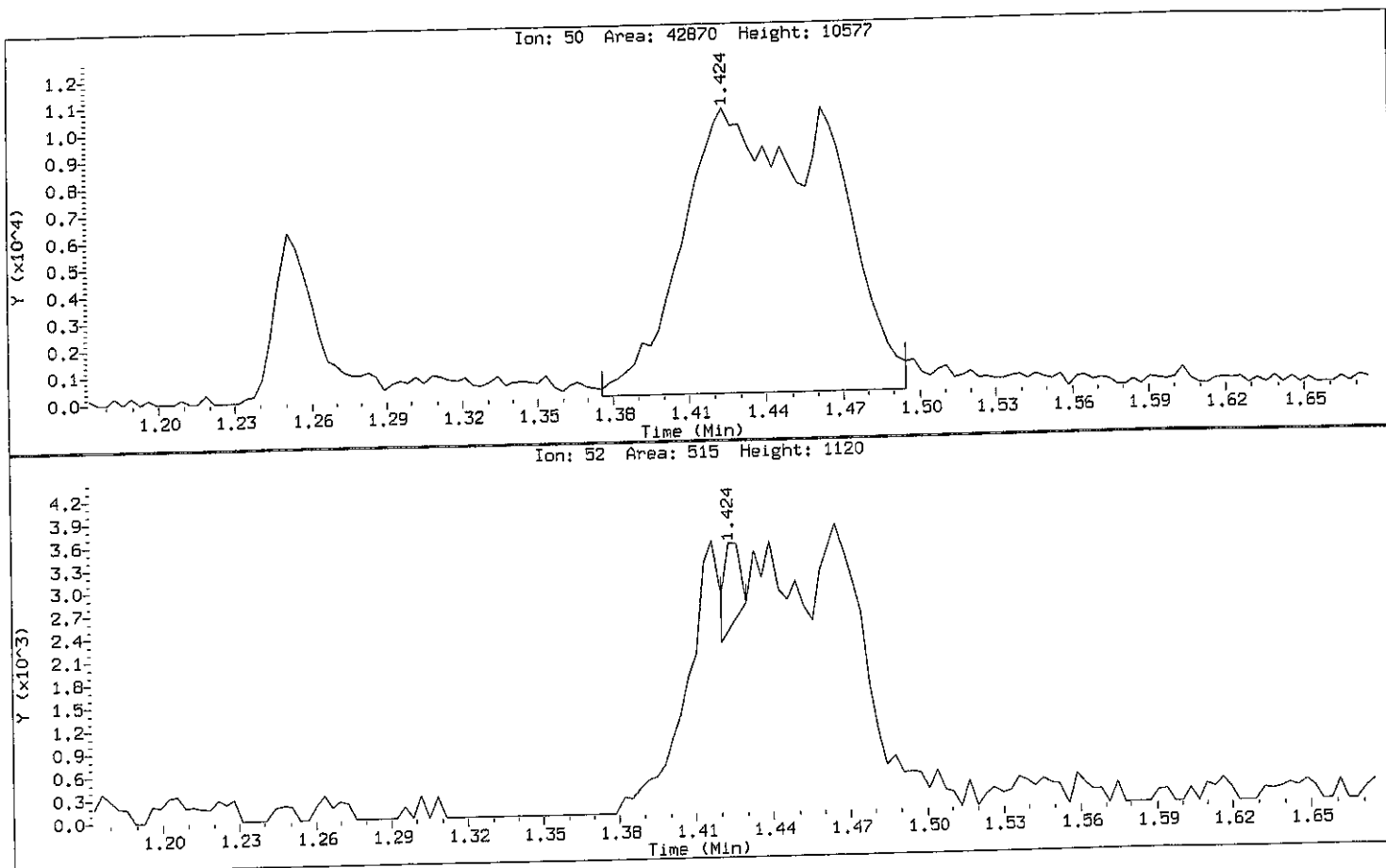
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Instrument: 35msv3.1
 Operator: SK
 Column diameter: 0.18



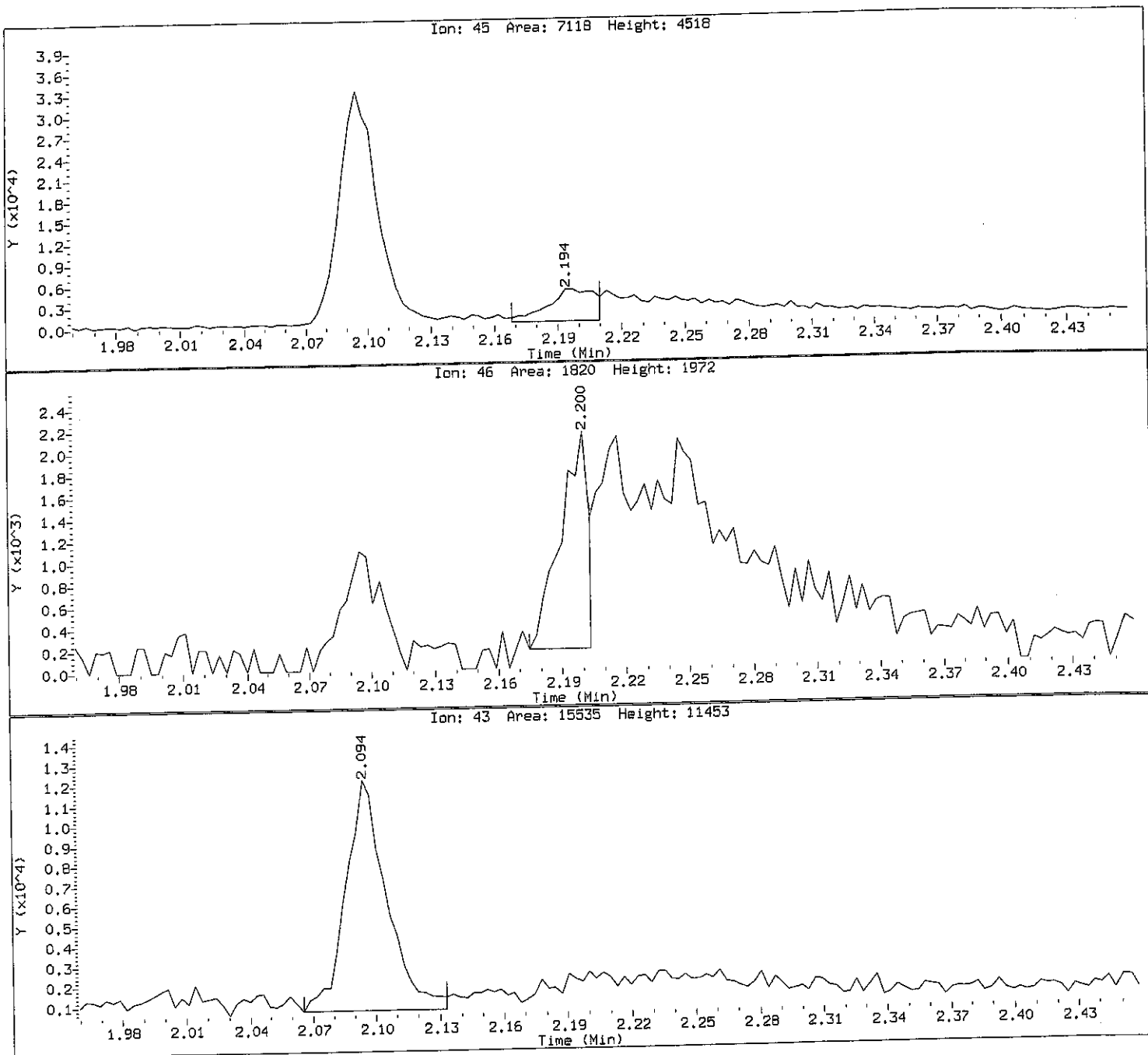
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Instrument: 35msv3.i
Lab Sample ID: ICAL4

Compound: Chloromethane
CAS Number: 74-87-3



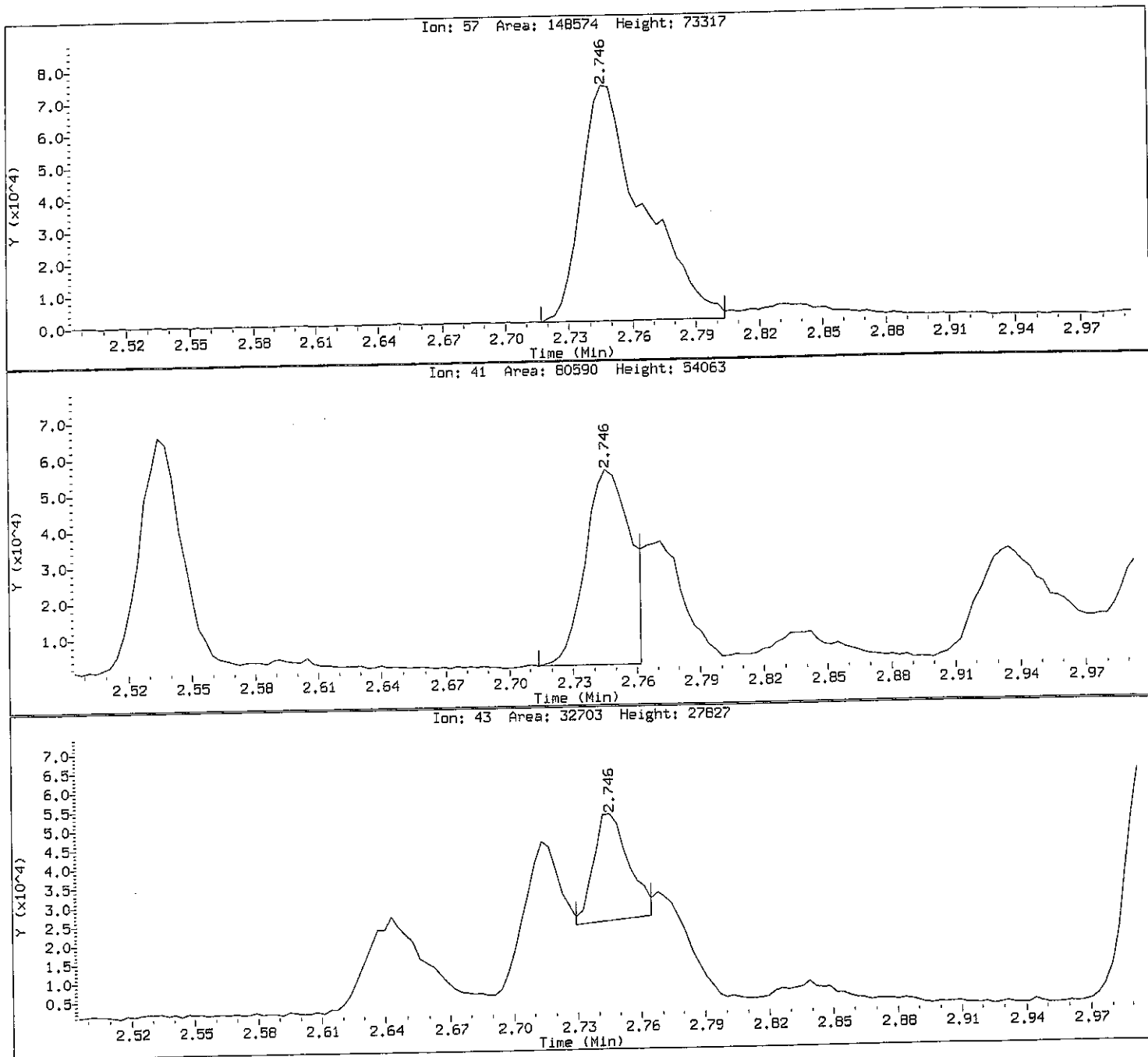
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Instrument: 35msv3.i
Lab Sample ID: ICAL4

Compound: Ethanol
CAS Number: 64-17-5



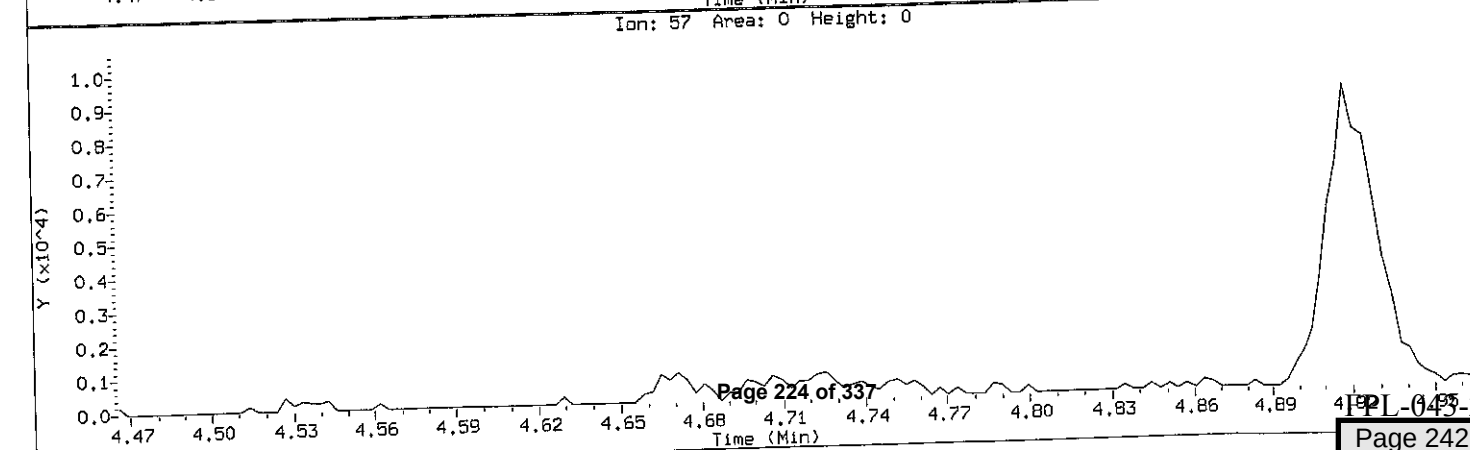
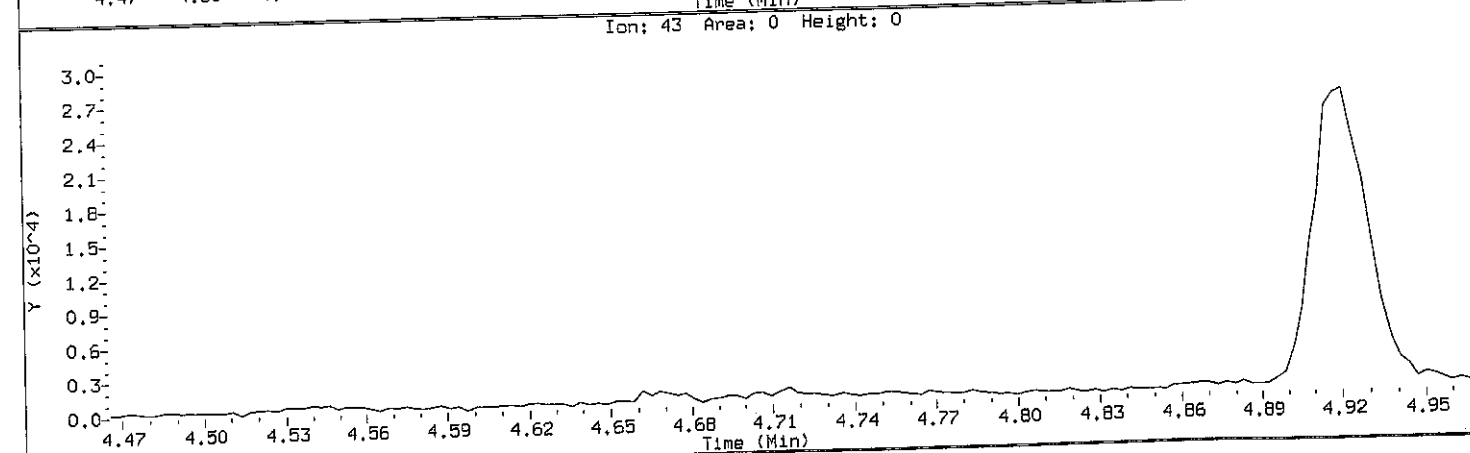
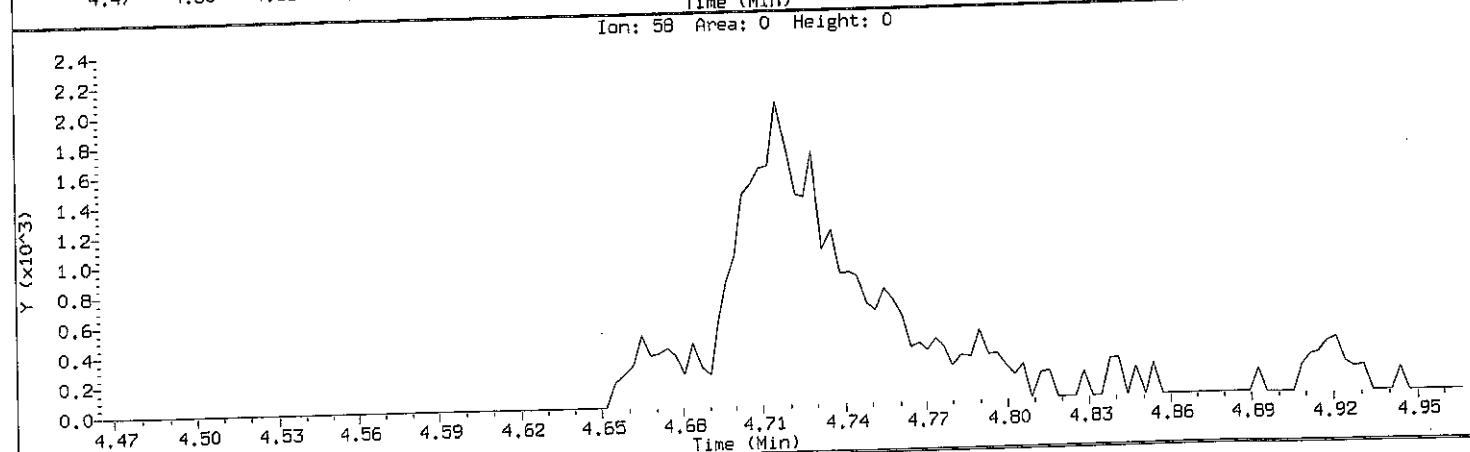
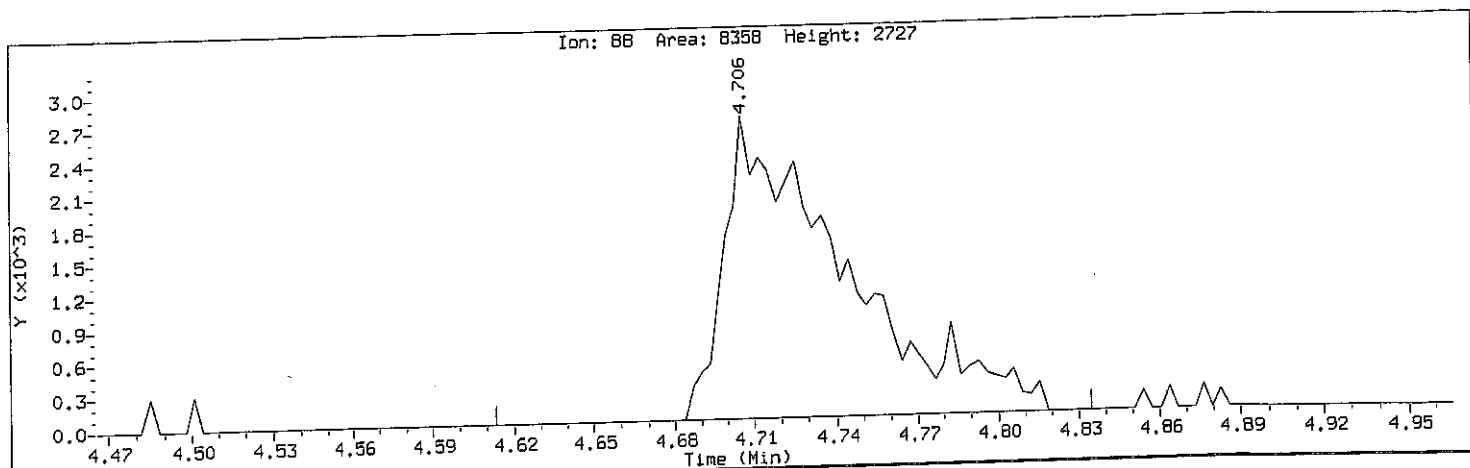
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Instrument: 35msv3.i
Lab Sample ID: ICAL4

Compound: n-hexane
CAS Number: 110-54-3



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724015.D
Injection Date: 24-JUL-2013 15:21
Instrument: 35msv3.i
Lab Sample ID: ICAL4

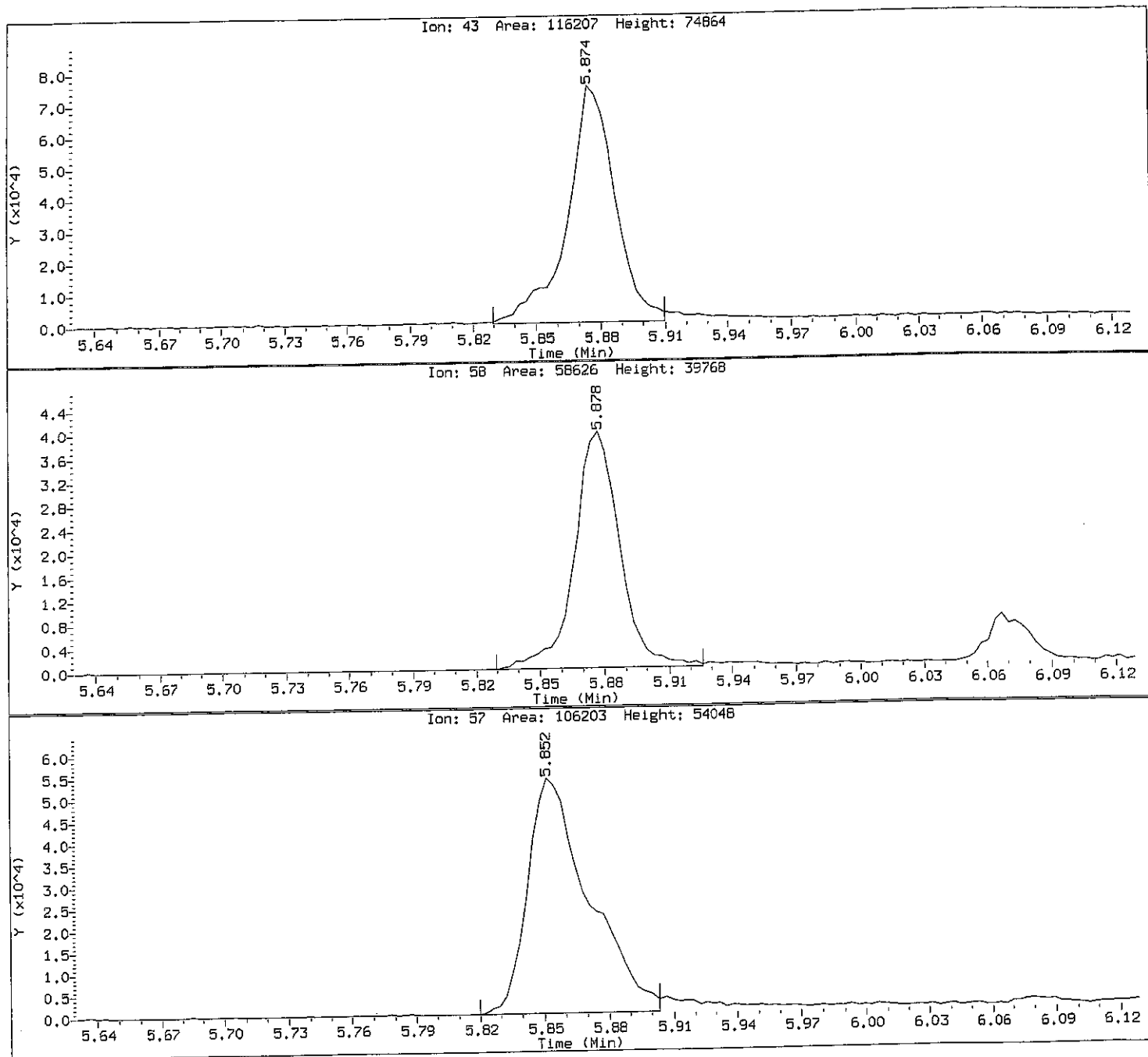
Compound: 1,4-Dioxane
CAS Number: 123-91-1



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Instrument: 35msv3.i
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Injection Date: 24-JUL-2013 15:21
Instrument: 35msv3.1
Lab Sample ID: ICAL4

Compound: 2-Hexanone
CAS Number: 591-78-6



SK
8/21/13

Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724016.D
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 Inj Date : 24-JUL-2013 15:46
 Operator : SK
 Smp Info : ICAL5
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 Comment : SW846-8260B
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 Meth Date : 25-Jul-2013 10:05 skaneyama
 Cal Date : 24-JUL-2013 15:46
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: 35msv3.i

Quant Type: ISTD
 Cal File: 0724016.D
 Calibration Sample, Level: 5

Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW CODE
						CAL-AMT (ug/L)	ON-COL (ug/L)	
*****	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene (I)	96	4.135	4.136	(1.000)	478460	40.0000		
* 2 Chlorobenzene-d5 (I)	82	6.070	6.074	(1.000)	200235	40.0000		
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.700	7.704	(1.000)	199369	40.0000		
\$ 4 Dibromofluoromethane (S)	111	3.660	3.662	(0.885)	133132	40.0000	40.8	
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.975	3.979	(0.961)	144357	40.0000	39.5 (QM)	BA
\$ 6 Toluene-d8 (S)	98	5.079	5.080	(1.228)	468371	40.0000	40.4	
\$ 7 4-Bromofluorobenzene (S)	174	6.898	6.902	(1.136)	157218	40.0000	40.5	
8 Dichlorodifluoromethane	85	1.251	1.249	(0.302)	110269	20.0000	16.9	
9 Chloromethane	50	1.424	1.425	(0.344)	81169	20.0000	18.2 (QM)	LT
10 Vinyl Chloride	62	1.453	1.451	(0.351)	129916	20.0000	17.5	
11 Bromomethane	94	1.687	1.688	(0.408)	14189	20.0000	15.6	
12 Chloroethane	64	1.780	1.775	(0.430)	93995	20.0000	18.7	
13 Trichlorofluoromethane	101	1.879	1.874	(0.455)	186419	20.0000	17.7	
14 Ethanol	45	2.197	2.208	(0.531)	14425	800.000	783 (QMH)	WP
158 Ethyl Ether	45	2.094	2.093	(0.507)	80318	20.0000	18.3	
15 1,1,2-Trichlorotrifluoroethan	151	2.252	2.247	(0.545)	102210	20.0000	17.7	
16 Acrolein	56	2.454	2.452	(0.593)	168301	200.000	188	
17 1,1-Dichloroethene	61	2.226	2.221	(0.538)	179249	20.0000	18.6	
18 Acetone	43	2.643	2.641	(0.639)	77374	20.0000	18.5	
19 Iodomethane	142	2.322	2.317	(0.562)	47845	20.0000	16.4	
20 Carbon Disulfide	76	2.245	2.240	(0.543)	320011	20.0000	17.6	
21 Allyl chloride	41	2.534	2.532	(0.613)	180924	20.0000	19.9	
22 Acetonitrile	41	2.929	2.933	(0.708)	128385	200.000	193 (QH)	WP

Compounds	QUANT SIG MASS	AMOUNTS						REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
						(ug/L)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49	2.601	2.599	{0.629}	161193	20.0000	17.7	
159 tert-Butyl Alcohol	59	3.218	3.216	{0.778}	719050	200.000	186	
24 Methyl-tert-butyl Ether	73	2.768	2.770	{0.669}	354415	20.0000	17.7	
25 trans-1,2-Dichloroethene	61	2.701	2.699	{0.653}	185004	20.0000	18.4	
165 methyl Acetate	43	2.711	2.715	{0.656}	87945	20.0000	15.7	
26 Acrylonitrile	53	3.115	3.119	{0.753}	450251	200.000	192	
164 n-hexane	57	2.746	2.744	{0.664}	268651	20.0000	18.1	
162 Diisopropyl ether	45	2.996	2.997	{0.725}	432546	20.0000	18.6	
27 1,1-Dichloroethane	63	3.076	3.078	{0.744}	229862	20.0000	19.4	
28 Vinyl Acetate	43	3.224	3.225	{0.780}	586919	20.0000	18.5	
29 Chloroprene	53	3.060	3.058	{0.740}	197678	20.0000	19.0	
166 Ethyl-tert-butyl ether	59	3.218	3.216	{0.778}	719050	20.0000	18.6	
30 2,2-Dichloropropane	77	3.461	3.459	{0.837}	166027	20.0000	18.6	
31 cis-1,2-Dichloroethene	61	3.397	3.398	{0.822}	159918	20.0000	19.2	
161 Ethyl Acetate	43	3.622	3.623	{0.876}	224682	40.0000	36.6	
32 2-Butanone	43	3.737	3.742	{0.904}	100270	20.0000	17.9	
33 Propionitrile	54	3.920	3.928	{0.948}	172561	200.000	182 (Q)	
34 Bromochloromethane	130	3.516	3.514	{0.850}	73726	20.0000	18.8	
167 Tetrahydrofuran	42	3.654	3.655	{0.884}	318066	200.000	178	
35 Methacrylonitrile	41	3.927	3.934	{0.950}	846857	200.000	186	
36 Chloroform	83	3.554	3.553	{0.860}	199749	20.0000	19.2	
172 tert-Butyl Formate	59	3.218	3.216	{0.778}	719050	100.000	92.9	
171 cyclohexane	56	3.513	3.514	{0.849}	182106	20.0000	17.6	
37 1,1,1-Trichloroethane	97	3.676	3.678	{0.889}	178403	20.0000	18.9	
38 Carbon Tetrachloride	117	3.635	3.636	{0.879}	125781	20.0000	18.0	
39 1,1-Dichloropropene	75	3.747	3.748	{0.906}	151550	20.0000	19.0	
40 Isobutyl alcohol	43	4.010	4.018	{0.970}	87560	400.000	388 (Q)	
41 Benzene	78	3.895	3.896	{0.942}	476243	20.0000	18.8	
163 tert-amyl Alcohol	59	4.071	4.078	{0.984}	158958	400.000	342	
169 tert-amyl methyl ether	73	3.956	3.957	{0.957}	694496	20.0000	18.2	
42 1,2-Dichloroethane	62	4.017	4.018	{0.971}	164002	20.0000	18.6	
43 Trichloroethene	132	4.235	4.236	{1.024}	140151	20.0000	18.9	
168 Methylcyclohexane	83	4.228	4.230	{1.022}	194226	20.0000	17.7	
44 1,2-Dichloropropane	63	4.549	4.550	{1.100}	122237	20.0000	19.0	
45 Methyl methacrylate	69	4.665	4.666	{1.128}	79524	20.0000	18.5	
46 1,4-Dioxane	88	4.710	4.717	{1.139}	12680	400.000	409 (M)	NI
47 Dibromomethane	174	4.491	4.489	{1.086}	83643	20.0000	19.1	
48 Bromodichloromethane	83	4.581	4.583	{1.108}	131999	20.0000	17.3	
49 2-Chloroethyl Vinyl Ether	63	4.918	4.919	{1.189}	107574	20.0000	16.7	
50 cis-1,3-Dichloropropene	75	4.963	4.964	{1.200}	183242	20.0000	17.6	
51 4-Methyl-2-Pentanone	43	5.342	5.343	{0.880}	238100	20.0000	18.2	
52 Toluene	91	5.111	5.112	{0.842}	534985	20.0000	19.2	
53 trans-1,3-Dichloropropene	75	5.364	5.369	{0.884}	164915	20.0000	17.2	
54 Ethyl methacrylate	41	5.454	5.459	{0.899}	109029	20.0000	18.1	
55 1,1,2-Trichloroethane	97	5.467	5.471	{0.901}	114475	20.0000	19.2	
56 Tetrachloroethene	166	5.351	5.353	{0.882}	154645	20.0000	19.1	
57 1,3-Dichloropropane	76	5.647	5.648	{0.930}	191889	20.0000	19.3	
58 2-Hexanone	43	5.874	5.879	{0.968}	207104	20.0000	19.0	
59 Dibromochloromethane	129	5.586	5.587	{0.920}	93534	20.0000	16.6 (QM)	NI
160 3,3-dimethyl-1-butanol	57	5.852	5.856	{0.964}	195458	400.000	408	
60 1,2-Dibromoethane	107	5.743	5.744	{0.946}	117293	20.0000	19.5	
61 Chlorobenzene	112	6.083	6.084	{1.002}	382345	20.0000	19.0	
62 Ethylbenzene	91	6.093	6.097	{1.004}	636913	20.0000	19.0	
63 1,1,1,2-Tetrachloroethane	131	6.118	6.126	{1.008}	116534	20.0000	17.7	

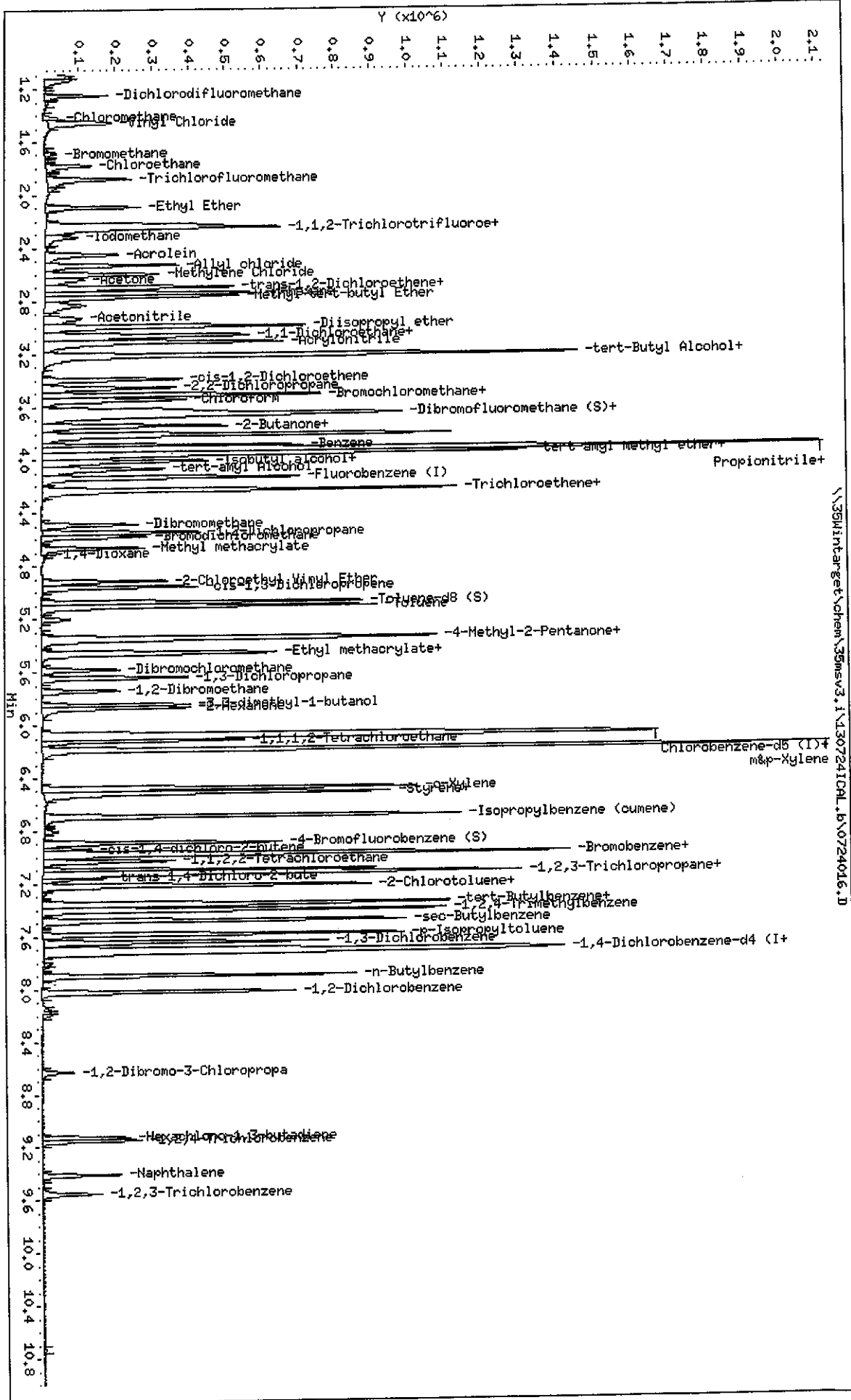
Compounds	QUANT SIG MASS					AMOUNTS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
64 m&p-Xylene	91	6.189	6.097	(1.020)	976301	40.0000	39.9	
65 o-Xylene	91	6.481	6.485	(1.068)	492193	20.0000	19.1	
66 Styrene	104	6.519	6.521	(1.074)	391846	20.0000	17.8	
67 Bromoform	173	6.542	6.543	(1.078)	47431	20.0000	16.0	
68 Isopropylbenzene (cumene)	105	6.696	6.697	(1.103)	614522	20.0000	17.9	
69 Bromobenzene	77	6.972	6.976	(0.905)	254402	20.0000	18.6	
70 1,1,2,2-Tetrachloroethane	83	7.036	7.037	(0.914)	139657	20.0000	19.1	
71 n-Propylbenzene	91	6.985	6.989	(0.907)	740354	20.0000	19.2	
72 1,2,3-Trichloropropane	75	7.135	7.137	(0.927)	152604	20.0000	21.7	
73 trans 1,4-Dichloro-2-butene	53	7.161	7.166	(0.930)	25164	20.0000	16.8 (Q)	
170 cis-1,4-dichloro-2-butene	53	6.943	6.944	(0.902)	23465	20.0000	17.7	
74 2-Chlorotoluene	91	7.219	7.223	(0.937)	421803	20.0000	18.8	
75 1,3,5-Trimethylbenzene	105	7.126	7.130	(0.925)	500101	20.0000	19.1	
76 4-Chlorotoluene	91	7.219	7.223	(0.937)	421803	20.0000	18.8	
77 tert-Butylbenzene	119	7.354	7.358	(0.955)	469882	20.0000	18.4	
78 1,2,4-Trimethylbenzene	105	7.405	7.409	(0.962)	500700	20.0000	19.5	
79 Pentachloroethane	167	7.373	7.374	(0.957)	65008	20.0000	17.6	
80 sec-Butylbenzene	105	7.482	7.486	(0.972)	567203	20.0000	19.5	
81 p-Isopropyltoluene	119	7.588	7.592	(0.985)	475311	20.0000	18.3	
82 1,3-Dichlorobenzene	146	7.646	7.650	(0.993)	285294	20.0000	19.3	
83 1,4-Dichlorobenzene	146	7.710	7.714	(1.001)	283869	20.0000	18.7	
84 1,2,3-Trimethylbenzene	105	7.726	7.730	(1.868)	489291	20.0000	18.9	
85 n-Butylbenzene	91	7.899	7.904	(1.026)	392111	20.0000	18.3	
86 1,2-Dichlorobenzene	146	8.024	8.026	(1.042)	237878	20.0000	19.0	
87 1,2-Dibromo-3-Chloropropane	75	8.634	8.629	(1.121)	14520	20.0000	17.3	
88 1,2,4-Trichlorobenzene	180	9.154	9.155	(1.189)	73294	20.0000	18.3	
89 Hexachloro-1,3-butadiene	225	9.128	9.129	(1.185)	34996	20.0000	18.6	
90 Naphthalene	128	9.411	9.412	(1.222)	145712	20.0000	17.7	
91 1,2,3-Trichlorobenzene	180	9.552	9.556	(1.240)	42945	20.0000	18.3	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

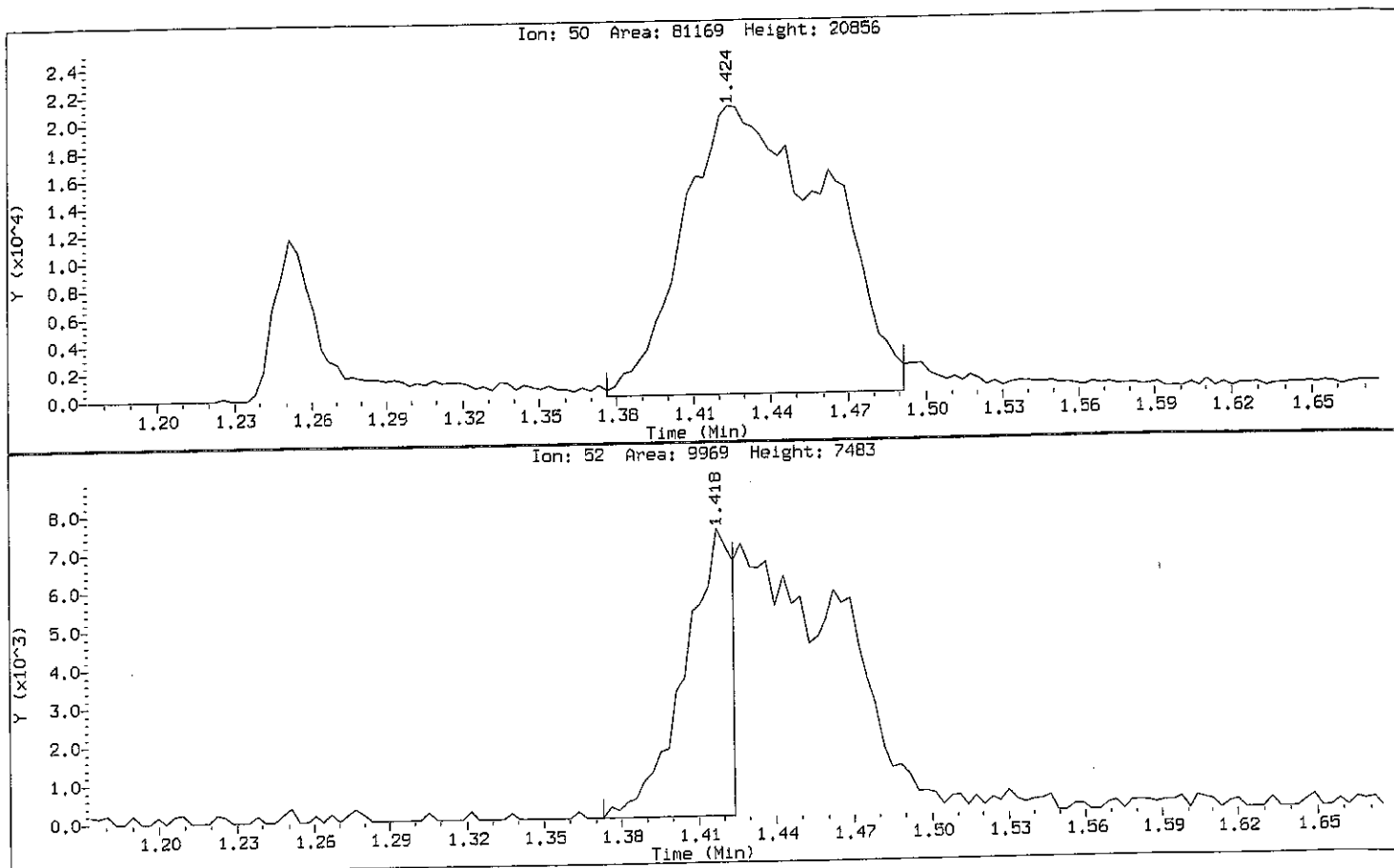
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 Purge Volume: 5.0
 Column phase: RTX-VHS

Instrument: 35msv3.i
 Operator: SK
 Column diameter: 0.18



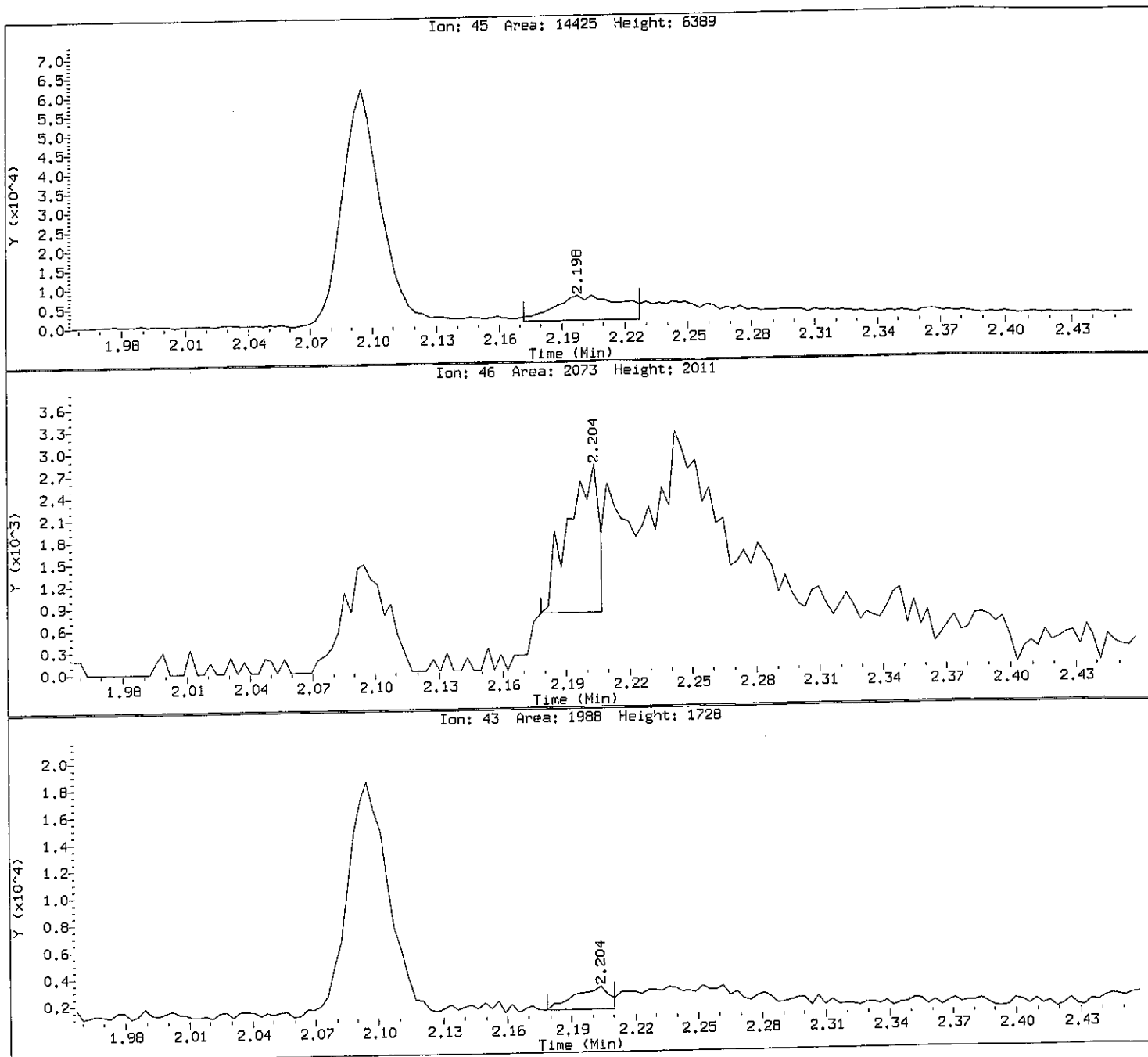
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Instrument: 35msv3.i
Lab Sample ID: ICAL5

Compound: Chloromethane
CAS Number: 74-87-3



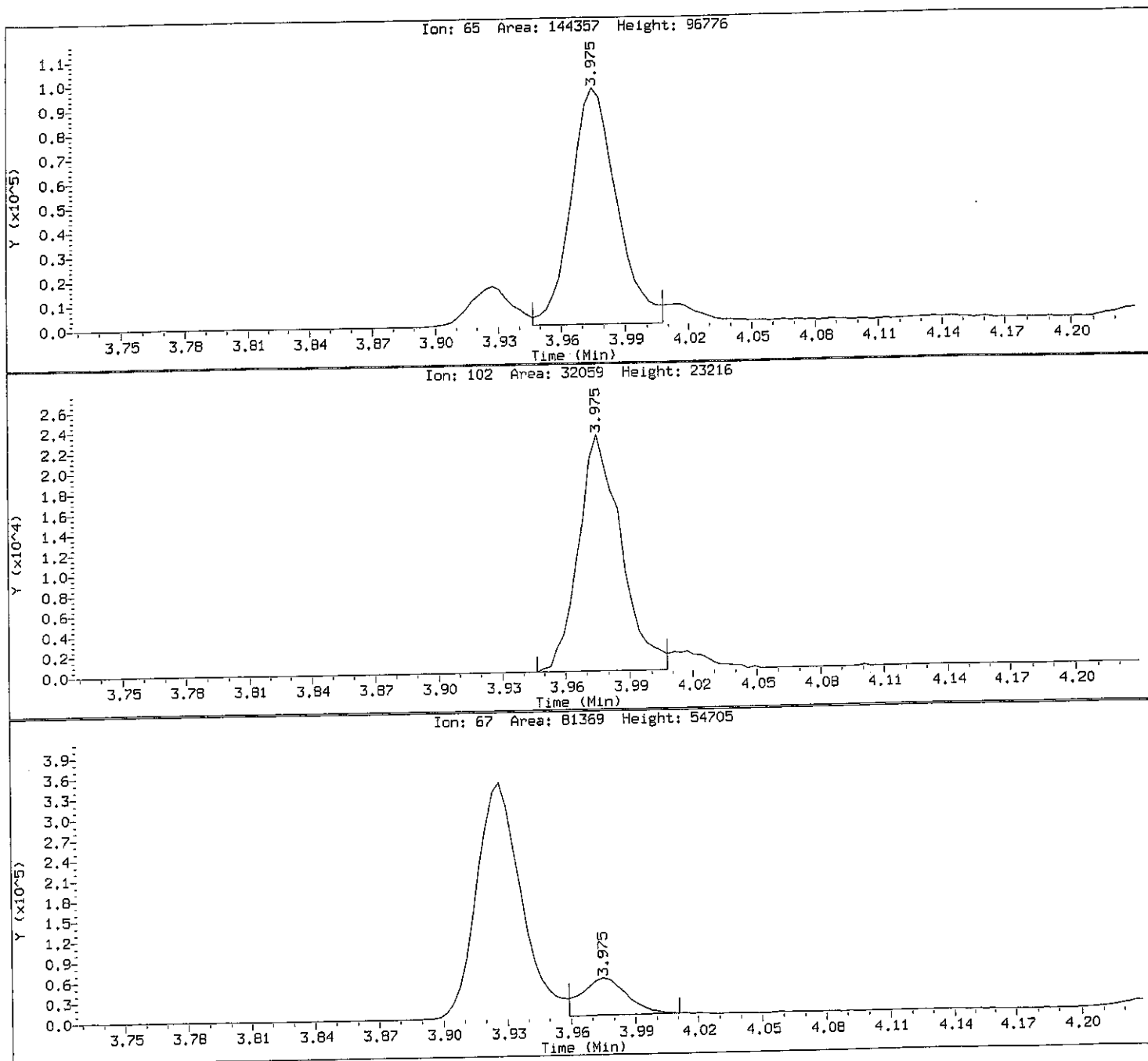
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Instrument: 35msv3.i
Lab Sample ID: ICAL5

Compound: Ethanol
CAS Number: 64-17-5



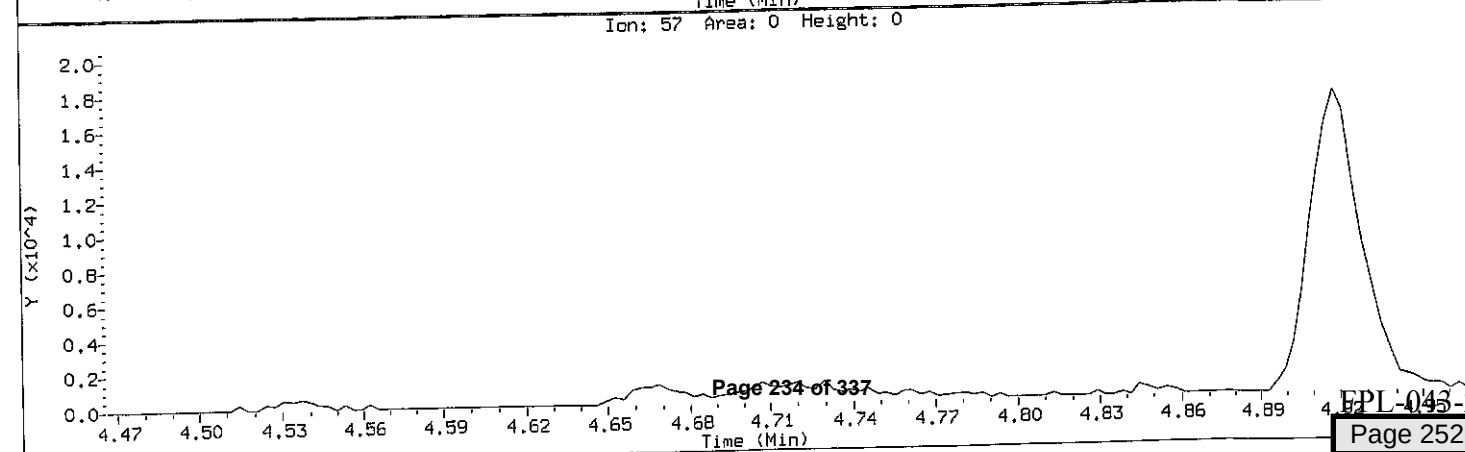
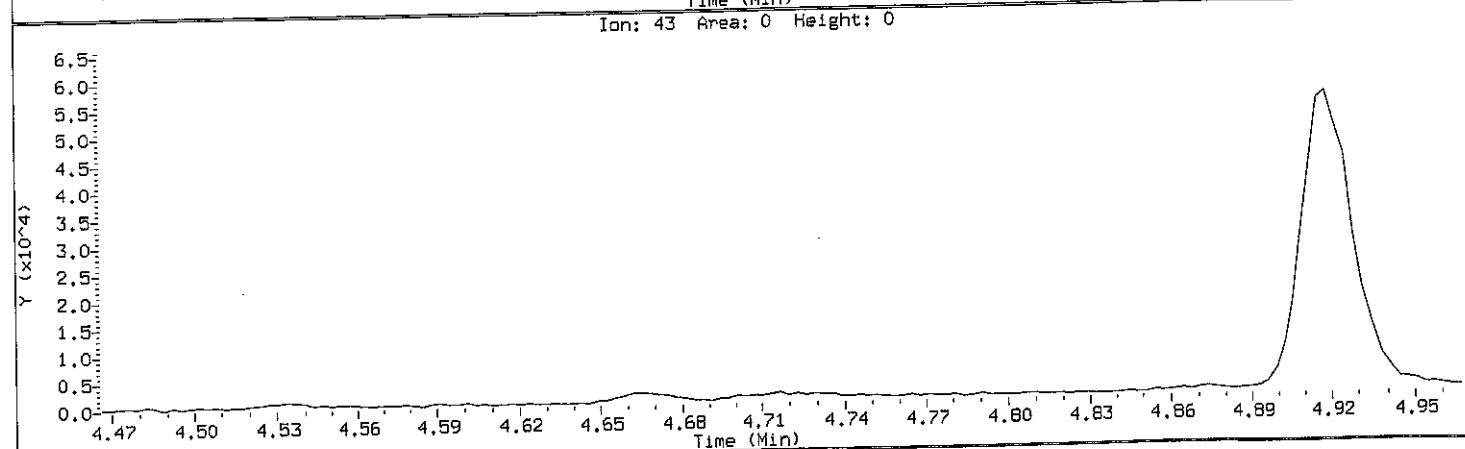
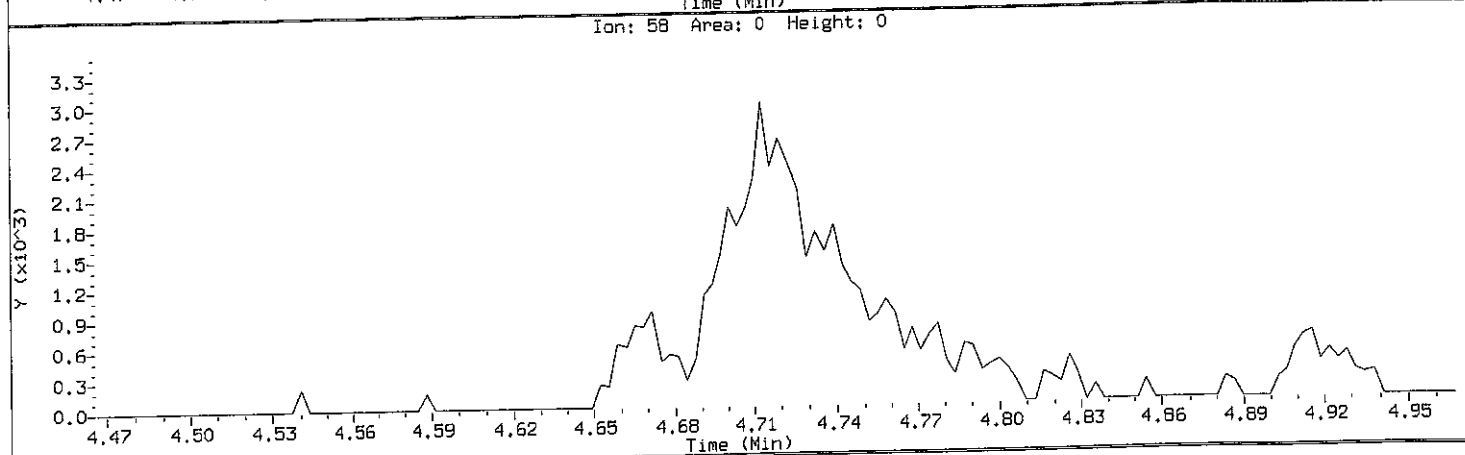
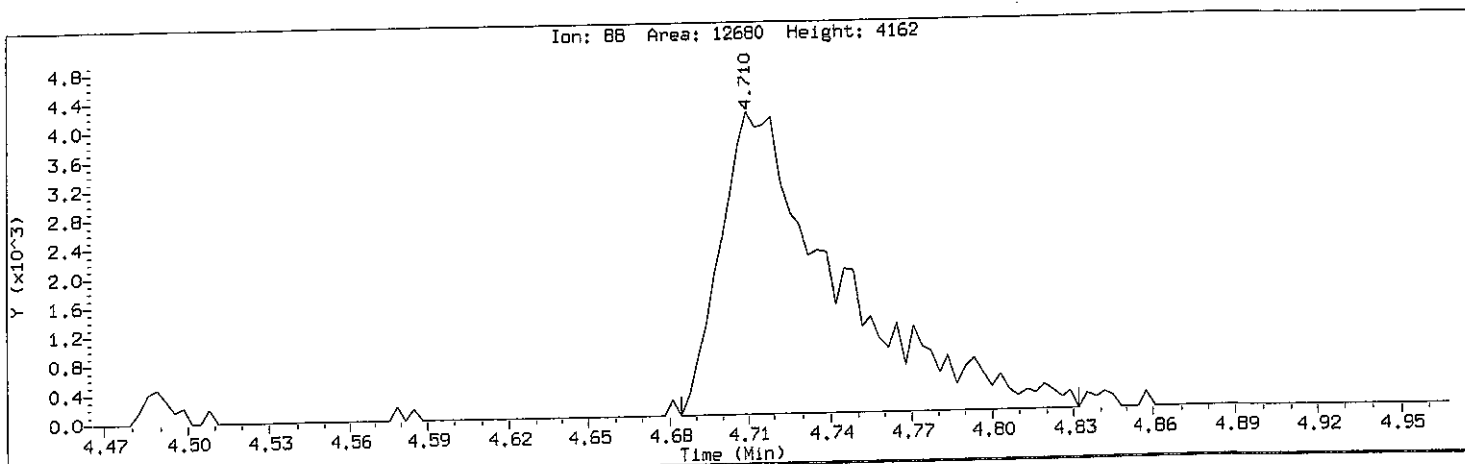
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Injection Date: 24-JUL-2013 15:46
Instrument: 35msv3.i
Lab Sample ID: ICAL5

Compound: 1,2-Dichloroethane-d4 (S)
CAS Number: 17060-07-0



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724016.D
Injection Date: 24-JUL-2013 15:46
Instrument: 35msv3.i
Lab Sample ID: ICAL5

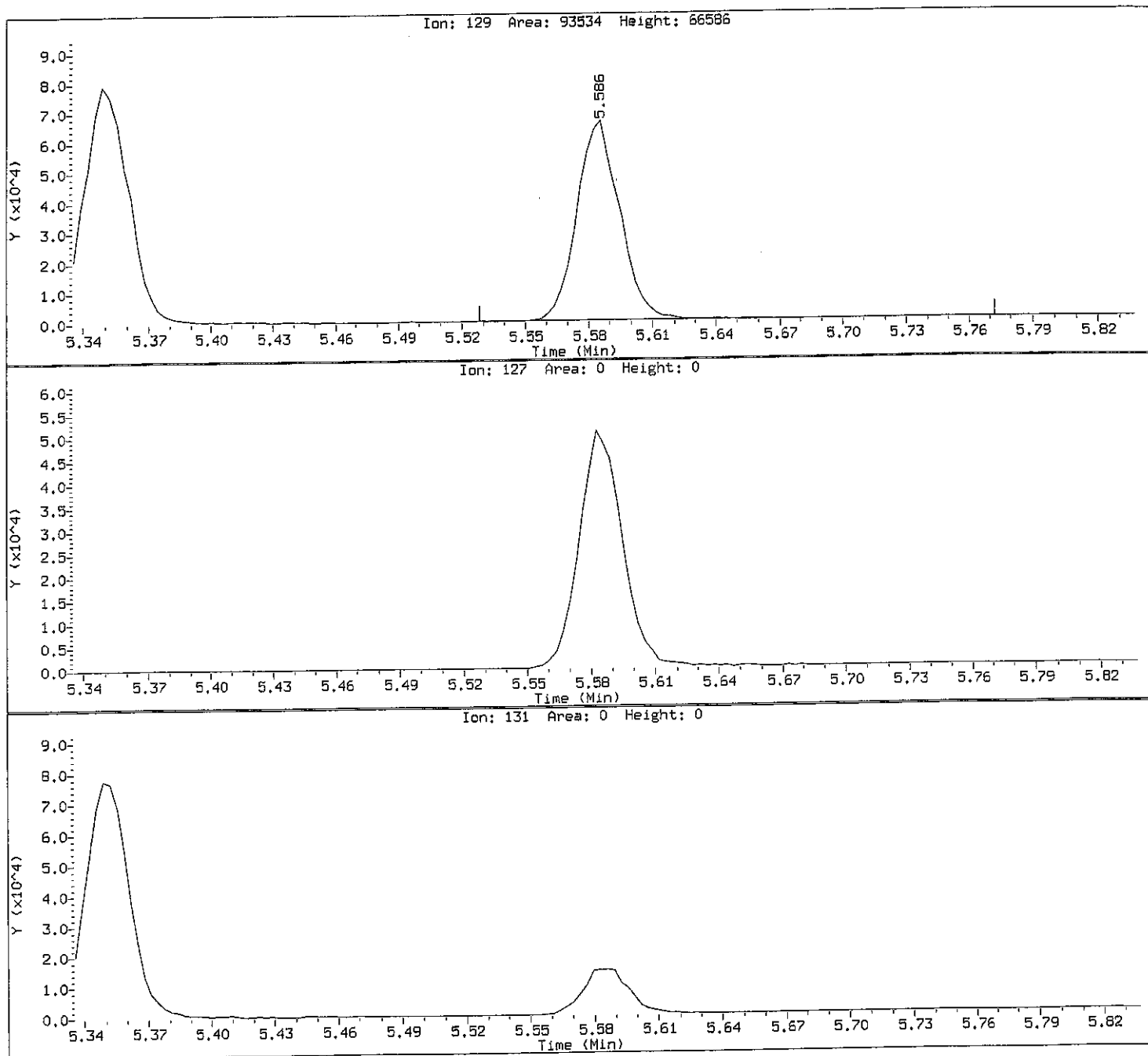
Compound: 1,4-Dioxane
CAS Number: 123-91-1



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724016.D
Injection Date: 24-JUL-2013 15:46
Instrument: 35msv3.i
Lab Sample ID: ICAL5

Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724016.D
Injection Date: 24-JUL-2013 15:46
Instrument: 35msv3.i
Lab Sample ID: ICAL5

Compound: Dibromochloromethane
CAS Number: 124-48-1



Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724017.D

Lab Smp Id: ICAL6

Inj Date : 24-JUL-2013 16:10

Operator : SK

Inst ID: 35msv3.i

Smp Info : ICAL6

Misc Info : ,,SW846-8260B_W

Comment : SW846-8260B

Method : \\35Wintarget\chem\35msv3.i\130724ICAL.b\8260-3-130724.m

Meth Date : 25-Jul-2013 10:05 skaneyama Quant Type: ISTD

Cal Date : 24-JUL-2013 16:10 Cal File: 0724017.D

Als bottle: 11 Calibration Sample, Level: 6

Dil Factor: 1.00000

Compound Sublist: all.sub

Integrator: HP RTE

Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene (I)	96	4.137	4.136	(1.000)	489783	40.0000			
* 2 Chlorobenzene-d5 (I)	82	6.072	6.074	(1.000)	204972	40.0000			
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.702	7.704	(1.000)	209668	40.0000			
\$ 4 Dibromofluoromethane (S)	111	3.662	3.662	(0.885)	134629	40.0000		40.3	
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.976	3.979	(0.961)	142618	40.0000		38.1	
\$ 6 Toluene-d8 (S)	98	5.077	5.080	(1.227)	480008	40.0000		40.4	
\$ 7 4-Bromofluorobenzene (S)	174	6.900	6.902	(1.136)	161478	40.0000		40.7	
8 Dichlorodifluoromethane	85	1.252	1.249	(0.303)	273375	40.0000		39.8	
9 Chloromethane	50	1.429	1.425	(0.345)	188048	40.0000		41.2 (M)	LT
10 Vinyl Chloride	62	1.454	1.451	(0.352)	306959	40.0000		37.3	
11 Bromomethane	94	1.692	1.688	(0.409)	43223	40.0000		31.0	
12 Chloroethane	64	1.782	1.775	(0.431)	216640	40.0000		42.1	
13 Trichlorofluoromethane	101	1.881	1.874	(0.455)	393417	40.0000		32.9	
14 Ethanol	45	2.208	2.208	(0.534)	41887	1600.00		2220 (M)	WP
158 Ethyl Ether	45	2.096	2.093	(0.507)	184137	40.0000		40.9	
15 1,1,2-Trichlorotrifluoroethan	151	2.253	2.247	(0.545)	241081	40.0000		40.7	
16 Acrolein	56	2.452	2.452	(0.593)	433287	400.000		462	
17 1,1-Dichloroethene	61	2.224	2.221	(0.538)	410537	40.0000		41.6	
18 Acetone	43	2.642	2.641	(0.639)	196326	40.0000		44.7	
19 Iodomethane	142	2.321	2.317	(0.561)	150629	40.0000		39.3	
20 Carbon Disulfide	76	2.247	2.240	(0.543)	730450	40.0000		39.2	
21 Allyl chloride	41	2.536	2.532	(0.613)	389106	40.0000		41.8	
22 Acetonitrile	41	2.934	2.933	(0.709)	323954	400.000		476 (H)	WP

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW CODE
						CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49	2.600	2.599	(0.629)	365632	40.0000	39.3	
159 tert-Butyl Alcohol	59	3.216	3.216	(0.777)	1584858	400.000	400	
24 Methyl-tert-butyl Ether	73	2.770	2.770	(0.670)	876221	40.0000	42.7	
25 trans-1,2-Dichloroethene	61	2.699	2.699	(0.653)	437961	40.0000	42.5	
165 methyl Acetate	43	2.715	2.715	(0.656)	218578	40.0000	38.2	
26 Acrylonitrile	53	3.120	3.119	(0.754)	999247	400.000	416	
164 n-hexane	57	2.744	2.744	(0.663)	652093	40.0000	42.8	
162 Diisopropyl ether	45	2.998	2.997	(0.725)	929296	40.0000	39.1	
27 1,1-Dichloroethane	63	3.078	3.078	(0.744)	496981	40.0000	41.0	
28 Vinyl Acetate	43	3.226	3.225	(0.780)	1331692	40.0000	41.0	
29 Chloroprene	53	3.062	3.058	(0.740)	402347	40.0000	37.9	
166 Ethyl-tert-butyl ether	59	3.216	3.216	(0.777)	1584858	40.0000	40.0	
30 2,2-Dichloropropane	77	3.463	3.459	(0.837)	372709	40.0000	40.7	
31 cis-1,2-Dichloroethene	61	3.399	3.398	(0.822)	355968	40.0000	41.7	
161 Ethyl Acetate	43	3.623	3.623	(0.876)	499009	80.0000	79.5	
32 2-Butanone	43	3.742	3.742	(0.905)	247035	40.0000	43.1	
33 Propionitrile	54	3.922	3.928	(0.948)	409000	400.000	423	
34 Bromochloromethane	130	3.518	3.514	(0.850)	162081	40.0000	41.2	
167 Tetrahydrofuran	42	3.656	3.655	(0.884)	818361	400.000	447	
35 Methacrylonitrile	41	3.928	3.934	(0.950)	1991157	400.000	427	
36 Chloroform	83	3.553	3.553	(0.859)	453781	40.0000	42.5	
172 tert-Butyl Formate	59	3.216	3.216	(0.777)	1584858	200.000	200	
171 cyclohexane	56	3.514	3.514	(0.850)	429643	40.0000	40.6	
37 1,1,1-Trichloroethane	97	3.681	3.678	(0.890)	410296	40.0000	42.4	
38 Carbon Tetrachloride	117	3.636	3.636	(0.879)	305347	40.0000	37.2	
39 1,1-Dichloropropene	75	3.749	3.748	(0.906)	349511	40.0000	42.9	
40 Isobutyl alcohol	43	4.015	4.018	(0.971)	229017	800.000	975	
41 Benzene	78	3.896	3.896	(0.942)	1073045	40.0000	40.3	
163 tert-amyl Alcohol	59	4.073	4.078	(0.984)	418012	800.000	879	
169 tert-amyl methyl ether	73	3.957	3.957	(0.957)	1599826	40.0000	41.0	
42 1,2-Dichloroethane	62	4.018	4.018	(0.971)	377168	40.0000	41.7	
43 Trichloroethene	132	4.236	4.236	(1.024)	318953	40.0000	42.0	
168 Methylcyclohexane	83	4.230	4.230	(1.022)	462840	40.0000	41.1	
44 1,2-Dichloropropane	63	4.551	4.550	(1.100)	278906	40.0000	42.4	
45 Methyl methacrylate	69	4.666	4.666	(1.128)	190628	40.0000	43.3	
46 1,4-Dioxane	88	4.711	4.717	(1.139)	34771	800.000	1100 (M)	NI
47 Dibromomethane	174	4.490	4.489	(1.085)	188036	40.0000	42.0	
48 Bromodichloromethane	83	4.580	4.583	(1.107)	321314	40.0000	38.3	
49 2-Chloroethyl Vinyl Ether	63	4.920	4.919	(1.189)	289063	40.0000	39.8	
50 cis-1,3-Dichloropropene	75	4.962	4.964	(1.199)	438134	40.0000	38.6	
51 4-Methyl-2-Pentanone	43	5.343	5.343	(0.880)	578410	40.0000	43.2	
52 Toluene	91	5.109	5.112	(0.841)	1215380	40.0000	42.6	
53 trans-1,3-Dichloropropene	75	5.366	5.369	(0.884)	402456	40.0000	38.0	
54 Ethyl methacrylate	41	5.456	5.459	(0.899)	261575	40.0000	42.5	
55 1,1,2-Trichloroethane	97	5.469	5.471	(0.901)	258988	40.0000	42.3	
56 Tetrachloroethene	166	5.350	5.353	(0.881)	355076	40.0000	42.8	
57 1,3-Dichloropropane	76	5.648	5.648	(0.930)	445273	40.0000	43.7	
58 2-Hexanone	43	5.876	5.879	(0.968)	521132	40.0000	39.9	
59 Dibromochloromethane	129	5.584	5.587	(0.920)	237363	40.0000	37.9	
160 3,3-dimethyl-1-butanol	57	5.850	5.856	(0.964)	553507	800.000	791	
60 1,2-Dibromoethane	107	5.744	5.744	(0.946)	272846	40.0000	44.3	
61 Chlorobenzene	112	6.081	6.084	(1.002)	873296	40.0000	42.3	
62 Ethylbenzene	91	6.094	6.097	(1.004)	1464236	40.0000	42.6	
63 1,1,1,2-Tetrachloroethane	131	6.123	6.126	(1.008)	277822	40.0000	39.1	

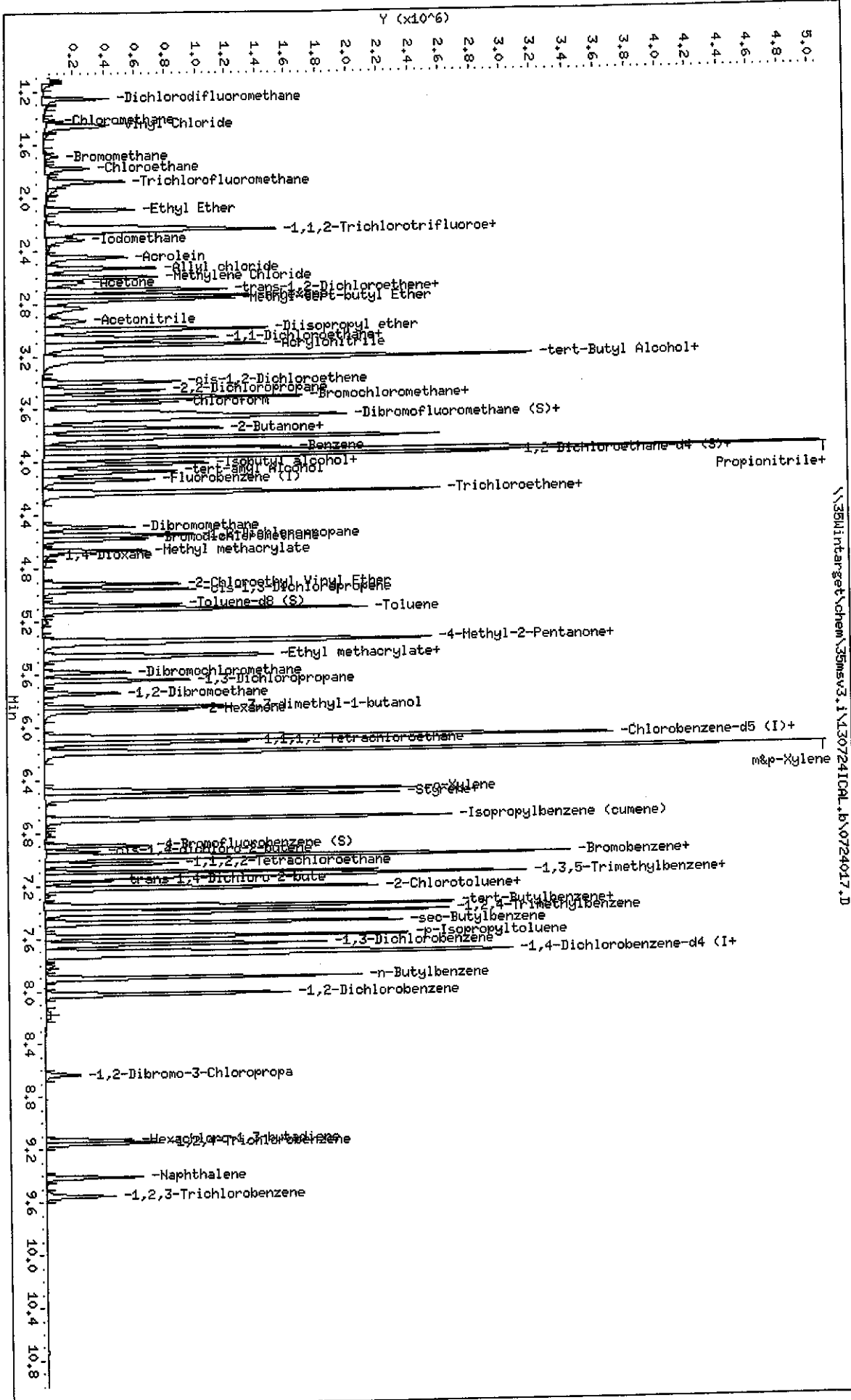
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW CODE
						CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
64 m&p-Xylene	91	6.191	6.097	(1.020)	2296078	80.0000	91.8	
65 o-Xylene	91	6.483	6.485	(1.068)	1158239	40.0000	44.0	
66 Styrene	104	6.521	6.521	(1.074)	936342	40.0000	40.6	
67 Bromoform	173	6.543	6.543	(1.078)	134634	40.0000	35.9	
68 Isopropylbenzene (cumene)	105	6.698	6.697	(1.103)	1447348	40.0000	41.1	
69 Bromobenzene	77	6.973	6.976	(0.905)	601765	40.0000	41.8	
70 1,1,2,2-Tetrachloroethane	83	7.034	7.037	(0.913)	332758	40.0000	43.4	
71 n-Propylbenzene	91	6.986	6.989	(0.907)	1764882	40.0000	43.5	
72 1,2,3-Trichloropropane	75	7.137	7.137	(0.927)	322553	40.0000	43.7 (M)	BA
73 trans 1,4-Dichloro-2-butene	53	7.163	7.166	(0.930)	65429	40.0000	34.0	
170 cis-1,4-dichloro-2-butene	53	6.941	6.944	(0.901)	61554	40.0000	31.2	
74 2-Chlorotoluene	91	7.221	7.223	(0.938)	1016892	40.0000	43.0	
75 1,3,5-Trimethylbenzene	105	7.124	7.130	(0.925)	1189086	40.0000	43.1	
76 4-Chlorotoluene	91	7.221	7.223	(0.938)	1016892	40.0000	43.0	
77 tert-Butylbenzene	119	7.355	7.358	(0.955)	1138468	40.0000	39.3	
78 1,2,4-Trimethylbenzene	105	7.407	7.409	(0.962)	1183386	40.0000	43.8	
79 Pentachloroethane	167	7.371	7.374	(0.957)	162657	40.0000	35.3	
80 sec-Butylbenzene	105	7.484	7.486	(0.972)	1345737	40.0000	43.9	
81 p-Isopropyltoluene	119	7.586	7.592	(0.985)	1139075	40.0000	40.2	
82 1,3-Dichlorobenzene	146	7.647	7.650	(0.993)	661539	40.0000	42.5	
83 1,4-Dichlorobenzene	146	7.711	7.714	(1.001)	674075	40.0000	42.3	
84 1,2,3-Trimethylbenzene	105	7.728	7.730	(1.868)	1157072	40.0000	43.6	
85 n-Butylbenzene	91	7.901	7.904	(1.026)	948614	40.0000	40.3	
86 1,2-Dichlorobenzene	146	8.026	8.026	(1.042)	567957	40.0000	43.1	
87 1,2-Dibromo-3-Chloropropane	75	8.629	8.629	(1.120)	41801	40.0000	42.8	
88 1,2,4-Trichlorobenzene	180	9.152	9.155	(1.188)	191853	40.0000	45.6	
89 Hexachloro-1,3-butadiene	225	9.130	9.129	(1.185)	84439	40.0000	42.7	
90 Naphthalene	128	9.412	9.412	(1.222)	421529	40.0000	44.8	
91 1,2,3-Trichlorobenzene	180	9.553	9.556	(1.240)	120204	40.0000	42.5	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

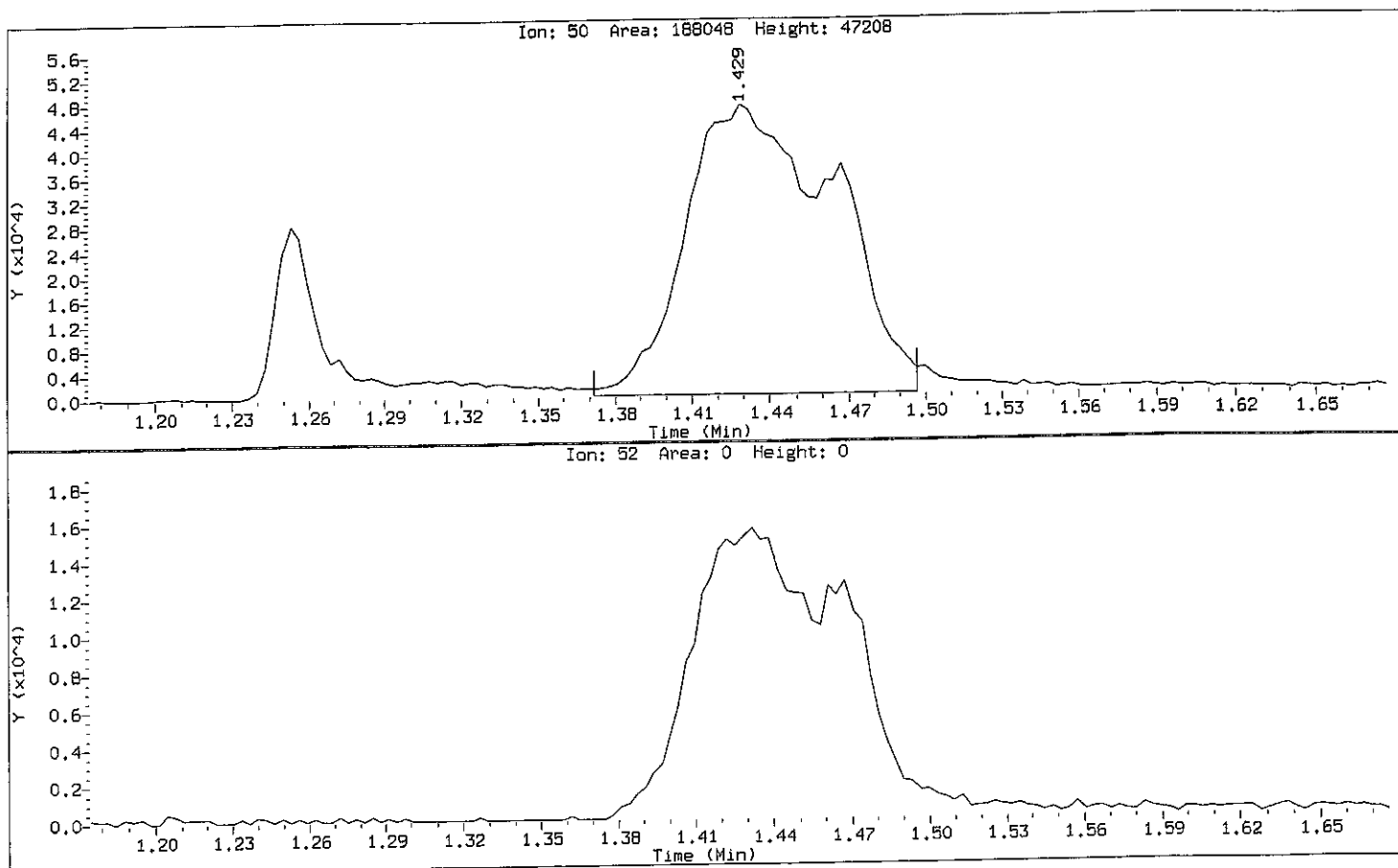
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 Date: 24-JUL-2013 16:10
 Client ID:
 Sample Info: ICAL6
 Purge Volume: 5.0
 Column phase: RTX-VHS

Instrument: 35msv3.1
 Operator: SK
 Column diameter: 0.18



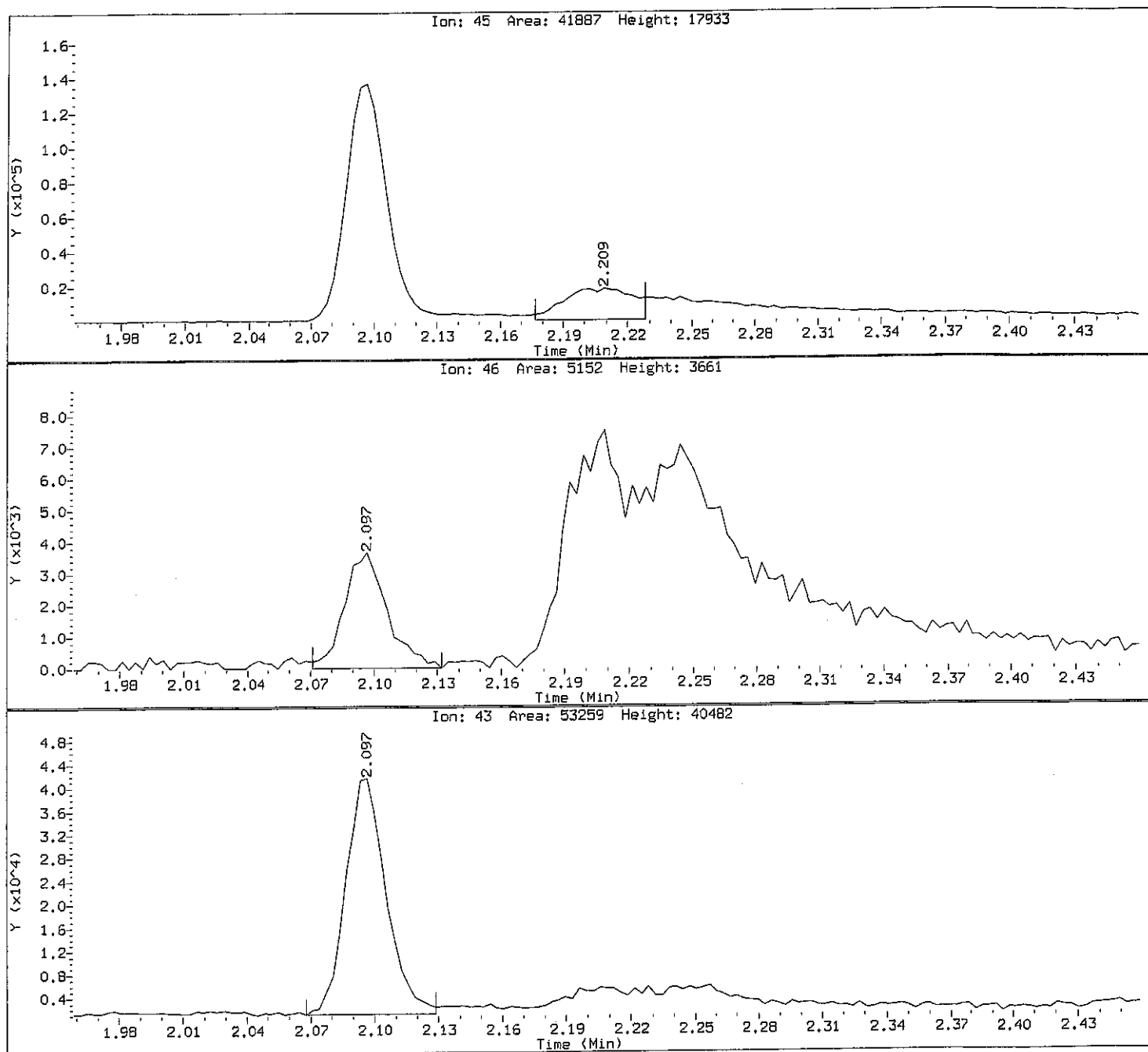
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Injection Date: 24-JUL-2013 16:10
Instrument: 35msv3.i
Lab Sample ID: ICAL6

Compound: Chloromethane
CAS Number: 74-87-3



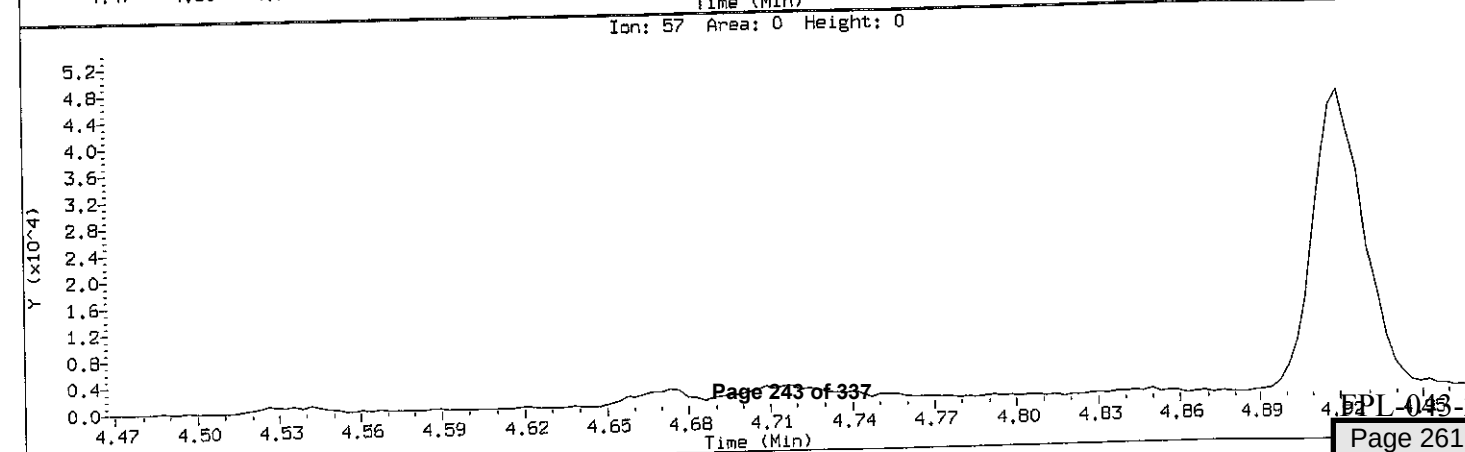
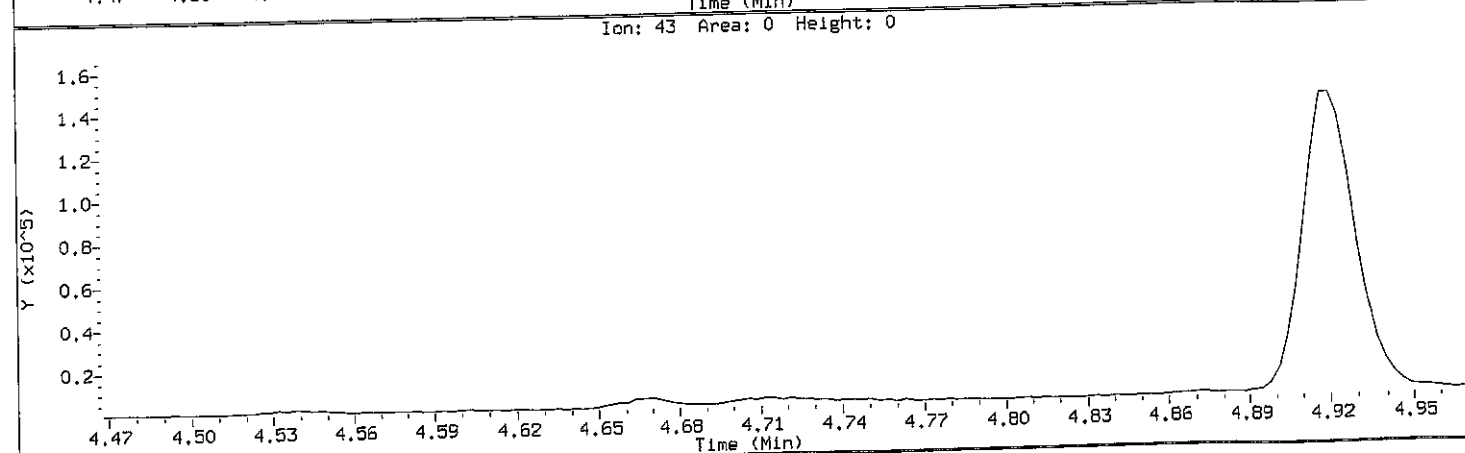
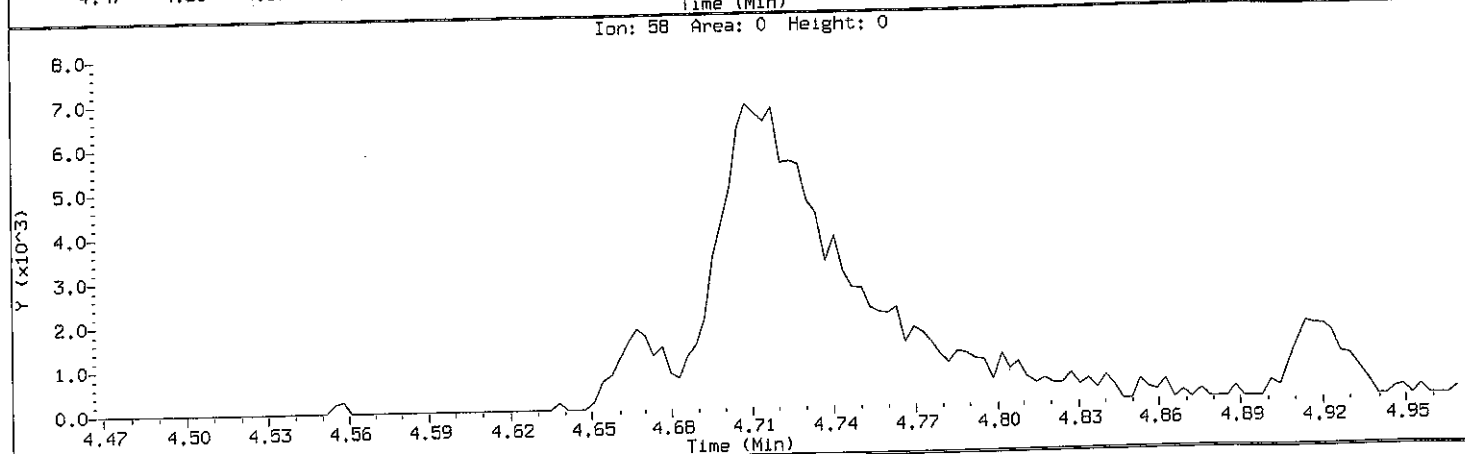
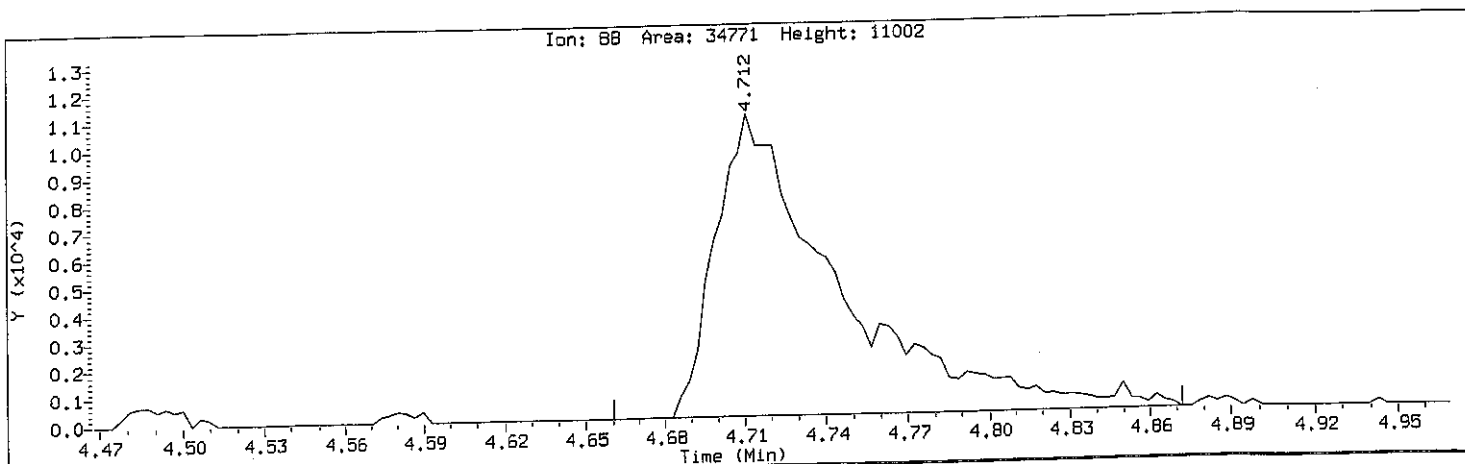
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Injection Date: 24-JUL-2013 16:10
Instrument: 35msv3.i
Lab Sample ID: ICAL6

Compound: Ethanol
CAS Number: 64-17-5



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724017.D
Injection Date: 24-JUL-2013 16:10
Instrument: 35msv3.i
Lab Sample ID: ICAL6

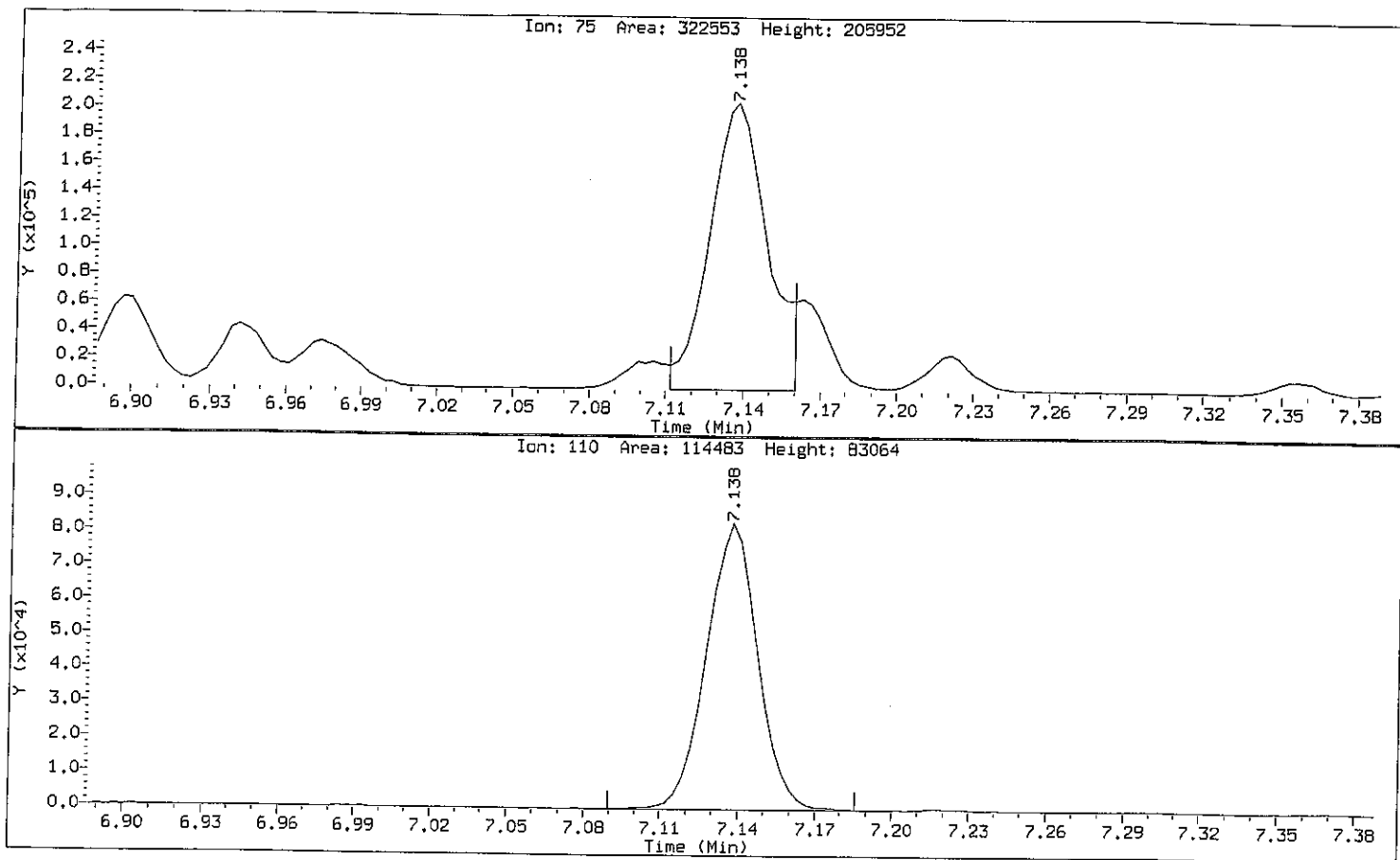
Compound: 1,4-Dioxane
CAS Number: 123-91-1



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724017.D
Injection Date: 24-JUL-2013 16:10
Instrument: 35msv3.i
Lab Sample ID: ICAL6

Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0724017.D
Injection Date: 24-JUL-2013 16:10
Instrument: 35msv3.i
Lab Sample ID: ICAL6

Compound: 1,2,3-Trichloropropane
CAS Number: 96-18-4



Pace Analytical Services, Inc.

SK
8/21/13

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130724ICAL.b\0725003.D
Lab Smp Id: ICAL7
Inj Date : 25-JUL-2013 08:19
Operator : SK
Smp Info : ICAL7
Misc Info : , , SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130724ICAL.b\8260-3-130724.m
Meth Date : 25-Jul-2013 10:05 skaneyama Quant Type: ISTD
Cal Date : 25-JUL-2013 08:19 Cal File: 0725003.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14 Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
*****	----	----	----	-----	-----	-----	-----	-----	-----
* 1 Fluorobenzene (I)	96	4.135	4.136	(1.000)	533001	40.0000			
* 2 Chlorobenzene-d5 (I)	82	6.070	6.074	(1.000)	229809	40.0000			
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.700	7.704	(1.000)	240901	40.0000			
\$ 4 Dibromofluoromethane (S)	111	3.663	3.662	(0.886)	145742	40.0000	40.1		
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.974	3.979	(0.961)	168565	40.0000	41.4 (Q)		
\$ 6 Toluene-d8 (S)	98	5.078	5.080	(1.228)	527115	40.0000	40.8		
\$ 7 4-Bromofluorobenzene (S)	174	6.898	6.902	(1.136)	185813	40.0000	41.7		
8 Dichlorodifluoromethane	85	1.253	1.249	(0.303)	574488	80.0000	76.1		
9 Chloromethane	50	1.427	1.425	(0.345)	405688	80.0000	81.7 (QM)		LT
10 Vinyl Chloride	62	1.452	1.451	(0.351)	719365	80.0000	77.6		
11 Bromomethane	94	1.690	1.688	(0.409)	144053	80.0000	76.1		
12 Chloroethane	64	1.780	1.775	(0.430)	519657	80.0000	92.9		
13 Trichlorofluoromethane	101	1.879	1.874	(0.455)	1001194	80.0000	75.3 (Q)		
14 Ethanol	45	2.203	2.208	(0.533)	35935	3200.00	1750 (Q)		
158 Ethyl Ether	45	2.094	2.093	(0.507)	381808	80.0000	77.9		
15 1,1,2-Trichlorotrifluoroethan	151	2.251	2.247	(0.545)	546218	80.0000	84.8		
16 Acrolein	56	2.450	2.452	(0.593)	785959	800.000	757		
17 1,1-Dichloroethene	61	2.226	2.221	(0.538)	834439	80.0000	77.7		
18 Acetone	43	2.643	2.641	(0.639)	364913	80.0000	75.7		
19 Iodomethane	142	2.319	2.317	(0.561)	417390	80.0000	81.4		
20 Carbon Disulfide	76	2.245	2.240	(0.543)	1583204	80.0000	78.1		
21 Allyl chloride	41	2.534	2.532	(0.613)	842664	80.0000	83.2		
22 Acetonitrile	41	2.932	2.933	(0.709)	501681	800.000	678		

Compounds	QUANT SIG					AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49	2.601	2.599	(0.629)	850900	80.0000	84.0	
159 tert-Butyl Alcohol	59	3.217	3.216	(0.778)	3665282	800.000	850	
24 Methyl-tert-butyl Ether	73	2.771	2.770	(0.670)	1890397	80.0000	84.6 (Q)	
25 trans-1,2-Dichloroethene	61	2.701	2.699	(0.653)	935589	80.0000	83.4	
165 methyl Acetate	43	2.713	2.715	(0.656)	424685	80.0000	68.3	
26 Acrylonitrile	53	3.118	3.119	(0.754)	1939003	800.000	743	
164 n-hexane	57	2.745	2.744	(0.664)	1491286	80.0000	90.0 (Q)	
162 Diisopropyl ether	45	2.999	2.997	(0.725)	1956681	80.0000	75.7	
27 1,1-Dichloroethane	63	3.076	3.078	(0.744)	1041366	80.0000	79.0	
28 Vinyl Acetate	43	3.224	3.225	(0.780)	2978741	80.0000	84.3	
29 Chloroprene	53	3.063	3.058	(0.741)	893717	80.0000	77.3	
166 Ethyl-tert-butyl ether	59	3.217	3.216	(0.778)	3665282	80.0000	85.0	
30 2,2-Dichloropropane	77	3.461	3.459	(0.837)	889952	80.0000	89.4	
31 cis-1,2-Dichloroethene	61	3.397	3.398	(0.822)	783917	80.0000	84.4	
161 Ethyl Acetate	43	3.621	3.623	(0.876)	1042067	160.000	152	
32 2-Butanone	43	3.740	3.742	(0.905)	485290	80.0000	77.8 (Q)	
33 Propionitrile	54	3.923	3.928	(0.949)	812831	800.000	772 (Q)	
34 Bromochloromethane	130	3.516	3.514	(0.850)	349414	80.0000	82.4	
167 Tetrahydrofuran	42	3.654	3.655	(0.884)	1579034	800.000	792	
35 Methacrylonitrile	41	3.926	3.934	(0.950)	4347447	800.000	856	
36 Chloroform	83	3.554	3.553	(0.860)	954626	80.0000	82.2	
172 tert-Butyl Formate	59	3.217	3.216	(0.778)	3665282	400.000	425	
171 cyclohexane	56	3.516	3.514	(0.850)	1007848	80.0000	87.6	
37 1,1,1-Trichloroethane	97	3.679	3.678	(0.890)	900496	80.0000	85.5	
38 Carbon Tetrachloride	117	3.638	3.636	(0.880)	727169	80.0000	76.7	
39 1,1-Dichloropropene	75	3.750	3.748	(0.907)	756661	80.0000	85.4	
40 Isobutyl alcohol	43	4.013	4.018	(0.971)	379873	1600.00	1440 (Q)	
41 Benzene	78	3.897	3.896	(0.943)	2307497	80.0000	78.9	
163 tert-amyl Alcohol	59	4.071	4.078	(0.984)	731991	1600.00	1410	
169 tert-amyl methyl ether	73	3.955	3.957	(0.957)	3708894	80.0000	87.4	
42 1,2-Dichloroethane	62	4.016	4.018	(0.971)	830188	80.0000	84.3	
43 Trichloroethene	132	4.234	4.236	(1.024)	704693	80.0000	85.2	
168 Methylcyclohexane	83	4.231	4.230	(1.023)	1088349	80.0000	88.8	
44 1,2-Dichloropropane	63	4.549	4.550	(1.100)	608377	80.0000	84.9	
45 Methyl methacrylate	69	4.668	4.666	(1.129)	415079	80.0000	86.7	
46 1,4-Dioxane	88	4.712	4.717	(1.140)	40496	1600.00	1170 (M)	NI
47 Dibromomethane	174	4.491	4.489	(1.086)	419755	80.0000	86.2	
48 Bromodichloromethane	83	4.581	4.583	(1.108)	742254	80.0000	79.1	
49 2-Chloroethyl Vinyl Ether	63	4.918	4.919	(1.189)	685641	80.0000	83.2	
50 cis-1,3-Dichloropropene	75	4.963	4.964	(1.200)	1012019	80.0000	79.7	
51 4-Methyl-2-Pentanone	43	5.341	5.343	(0.880)	1240634	80.0000	82.6	
52 Toluene	91	5.110	5.112	(0.842)	2683786	80.0000	83.9	
53 trans-1,3-Dichloropropene	75	5.367	5.369	(0.884)	975423	80.0000	79.7	
54 Ethyl methacrylate	41	5.457	5.459	(0.899)	603820	80.0000	87.6	
55 1,1,2-Trichloroethane	97	5.470	5.471	(0.901)	565979	80.0000	82.5	
56 Tetrachloroethene	166	5.351	5.353	(0.882)	776642	80.0000	83.4	
57 1,3-Dichloropropane	76	5.646	5.648	(0.930)	963973	80.0000	84.4	
58 2-Hexanone	43	5.877	5.879	(0.968)	1083020	80.0000	70.0	
59 Dibromochloromethane	129	5.585	5.587	(0.920)	587959	80.0000	81.0	
160 3,3-dimethyl-1-butanol	57	5.852	5.856	(0.964)	1049955	1600.00	1210	
60 1,2-Dibromoethane	107	5.742	5.744	(0.946)	585862	80.0000	84.8	
61 Chlorobenzene	112	6.083	6.084	(1.002)	1960788	80.0000	84.7	
62 Ethylbenzene	91	6.095	6.097	(1.004)	3337368	80.0000	86.6	
63 1,1,1,2-Tetrachloroethane	131	6.124	6.126	(1.009)	666569	80.0000	81.9	

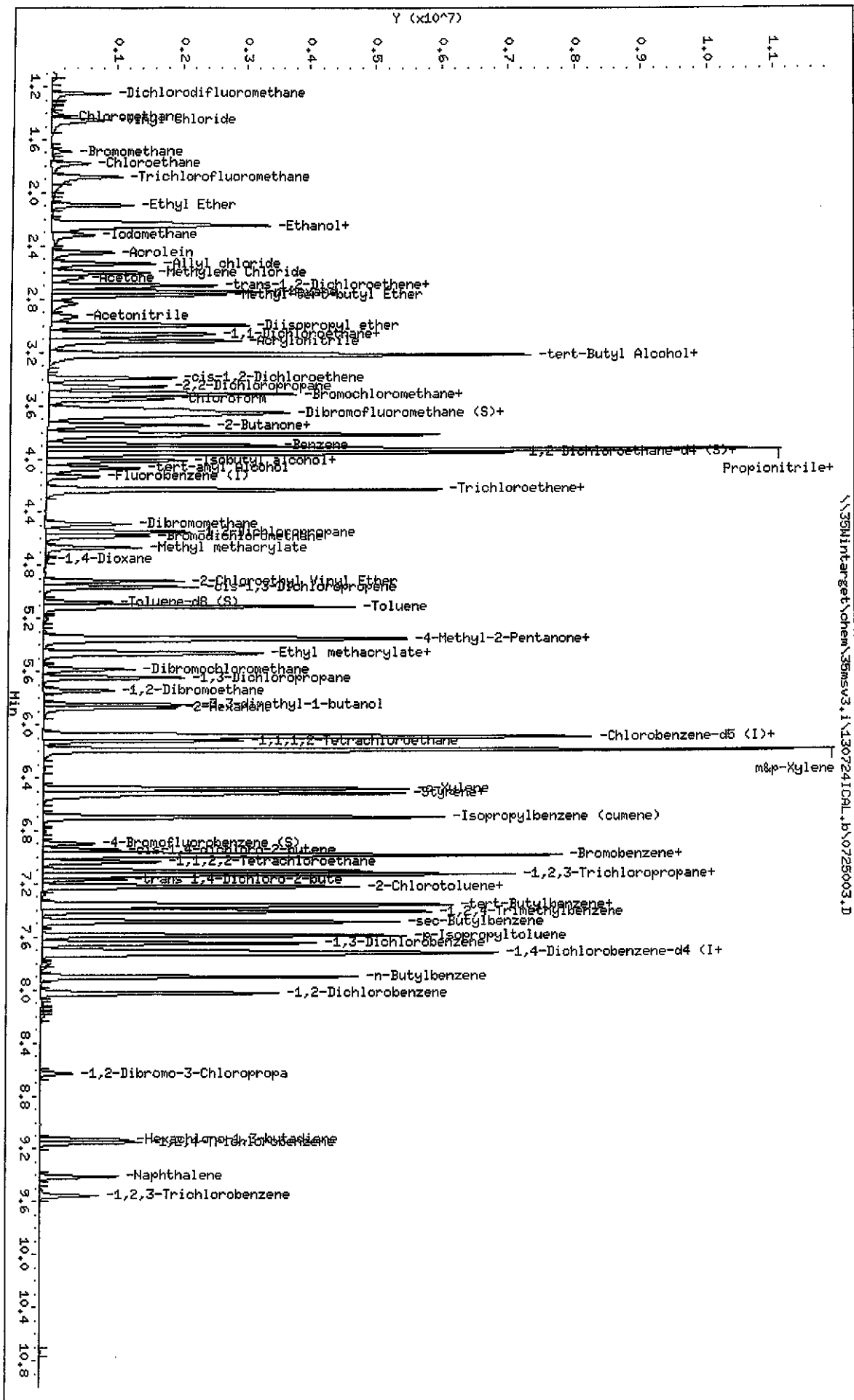
Compounds	QUANT SIG MASS					AMOUNTS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
64 m&p-Xylene	91	6.192	6.097	{1.020}	5295860	160.000	189	
65 o-Xylene	91	6.484	6.485	{1.068}	2625082	80.0000	88.9	
66 Styrene	104	6.519	6.521	{1.074}	2142327	80.0000	82.2	
67 Bromoform	173	6.541	6.543	{1.078}	372319	80.0000	80.5	
68 Isopropylbenzene (cumene)	105	6.699	6.697	{1.104}	3272463	80.0000	82.8	
69 Bromobenzene	77	6.975	6.976	{0.906}	1411872	80.0000	85.4	
70 1,1,2,2-Tetrachloroethane	83	7.036	7.037	{0.914}	696649	80.0000	79.0	
71 n-Propylbenzene	91	6.988	6.989	{0.907}	3979304	80.0000	85.4	
72 1,2,3-Trichloropropane	75	7.138	7.137	{0.927}	658826	80.0000	77.6	
73 trans 1,4-Dichloro-2-butene	53	7.164	7.166	{0.930}	198219	80.0000	78.6 (Q)	
170 cis-1,4-dichloro-2-butene	53	6.943	6.944	{0.902}	202383	80.0000	73.0	
74 2-Chlorotoluene	91	7.222	7.223	{0.938}	2280460	80.0000	84.0	
75 1,3,5-Trimethylbenzene	105	7.125	7.130	{0.925}	2714043	80.0000	85.7	
76 4-Chlorotoluene	91	7.222	7.223	{0.938}	2280460	80.0000	84.0	
77 tert-Butylbenzene	119	7.357	7.358	{0.955}	2625389	80.0000	76.5	
78 1,2,4-Trimethylbenzene	105	7.408	7.409	{0.962}	2667854	80.0000	85.9	
79 Pentachloroethane	167	7.373	7.374	{0.957}	440042	80.0000	76.4	
80 sec-Butylbenzene	105	7.485	7.486	{0.972}	3013643	80.0000	85.6	
81 p-Isopropyltoluene	119	7.588	7.592	{0.985}	2604261	80.0000	78.7	
82 1,3-Dichlorobenzene	146	7.649	7.650	{0.993}	1482367	80.0000	82.9	
83 1,4-Dichlorobenzene	146	7.713	7.714	{1.002}	1504420	80.0000	82.1	
84 1,2,3-Trimethylbenzene	105	7.729	7.730	{1.869}	2633629	80.0000	91.2	
85 n-Butylbenzene	91	7.902	7.904	{1.026}	2171603	80.0000	79.1	
86 1,2-Dichlorobenzene	146	8.024	8.026	{1.042}	1259617	80.0000	83.2	
87 1,2-Dibromo-3-Chloropropane	75	8.630	8.629	{1.121}	86603	80.0000	73.5	
88 1,2,4-Trichlorobenzene	180	9.153	9.155	{1.189}	406878	80.0000	84.1	
89 Hexachloro-1,3-butadiene	225	9.131	9.129	{1.186}	202010	80.0000	88.9	
90 Naphthalene	128	9.410	9.412	{1.222}	806218	80.0000	71.8	
91 1,2,3-Trichlorobenzene	180	9.555	9.556	{1.241}	236303	80.0000	70.0	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

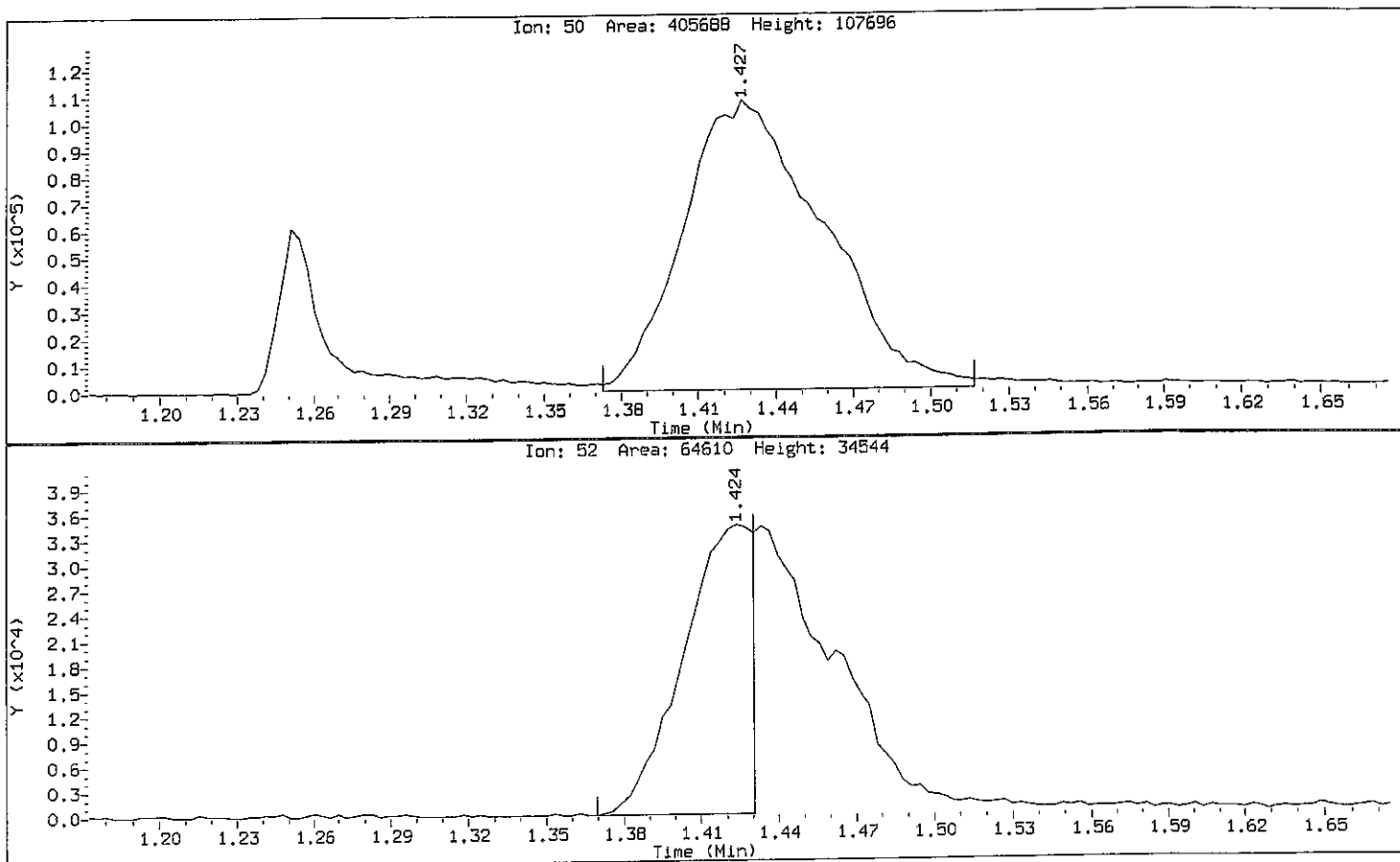
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 Client ID:
 Sample Info: ICAL7
 Purge Volume: 5.0
 Column phase: RTX-VMS

Instrument: 35msv3.1
 Operator: SK
 Column diameter: 0.18



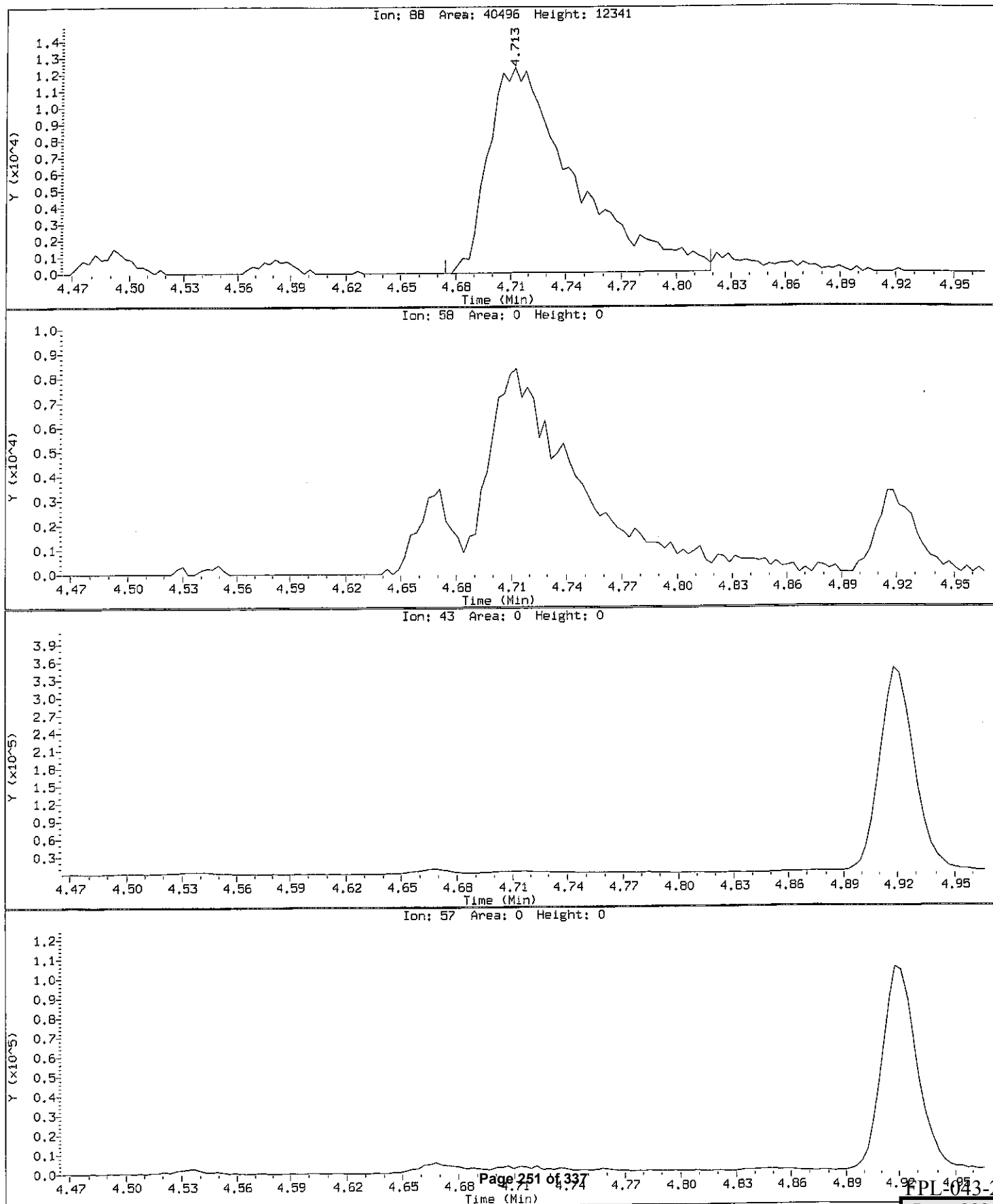
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Lab Sample ID: ICAL7

Compound: Chloromethane
CAS Number: 74-87-3



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Instrument: 35msv3.i
Lab Sample ID: ICAL7

Compound: 1,4-Dioxane
CAS Number: 123-91-1



SK
8/21/13

Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130724ICAL.b\0725004.D
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Inj Date : 25-JUL-2013 08:44
Operator : SK Inst ID: 35msv3.i
Smp Info : ICAL8
Misc Info : ,,SW846-8260B_W
Comment : SW846-8260B
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Meth Date : 25-Jul-2013 10:05 skaneyama Quant Type: ISTD
Cal Date : 25-JUL-2013 08:44 Cal File: 0725004.D
Als bottle: 4 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG					AMOUNTS		REVIEW CODE
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
*****	----	----	----	-----	-----	-----	-----	-----	-----
* 1 Fluorobenzene (I)	96		4.135	4.135	(1.000)	595452	40.0000		
* 2 Chlorobenzene-d5 (I)	82		6.070	6.074	(1.000)	262609	40.0000		
* 3 1,4-Dichlorobenzene-d4 (I)	152		7.703	7.704	(1.000)	253093	40.0000	(Q)	
\$ 4 Dibromofluoromethane (S)	111		3.660	3.662	(0.885)	162092	40.0000	39.9	
\$ 5 1,2-Dichloroethane-d4 (S)	65		3.977	3.979	(0.962)	193332	40.0000	42.5 (Q)	
\$ 6 Toluene-d8 (S)	98		5.078	5.080	(1.228)	574798	40.0000	39.8	
\$ 7 4-Bromofluorobenzene (S)	174		6.901	6.902	(1.137)	198584	40.0000	39.0	
8 Dichlorodifluoromethane	85		1.250	1.249	(0.302)	1131850	120.000	133	
9 Chloromethane	50		1.426	1.425	(0.345)	697254	120.000	126 (Q)	
10 Vinyl Chloride	62		1.452	1.451	(0.351)	1304176	120.000	124	
11 Bromomethane	94		1.690	1.688	(0.409)	296737	120.000	127	
12 Chloroethane	64		1.779	1.775	(0.430)	743156	120.000	119	
13 Trichlorofluoromethane	101		1.879	1.874	(0.454)	1871436	120.000	131 (Q)	
14 Ethanol	45		2.091	2.208	(0.506)	693149	4800.00	30200 (AQ)	
158 Ethyl Ether	45		2.091	2.093	(0.506)	693149	120.000	127	
15 1,1,2-Trichlorotrifluoroethan	151		2.251	2.247	(0.544)	942729	120.000	131	
16 Acrolein	56		2.453	2.452	(0.593)	1436149	1200.00	1200	
17 1,1-Dichloroethene	61		2.222	2.221	(0.537)	1671126	120.000	139	
18 Acetone	43		2.643	2.641	(0.639)	601123	120.000	111	
19 Iodomethane	142		2.318	2.317	(0.561)	943823	120.000	120	
20 Carbon Disulfide	76		2.245	2.240	(0.543)	3175262	120.000	140	
21 Allyl chloride	41		2.533	2.532	(0.613)	1350829	120.000	119	
22 Acetonitrile	41		2.935	2.933	(0.710)	761122	1200.00	921 (Q)	

Compounds	QUANT SIG	AMOUNTS						REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49	2.601	2.599	(0.629)	1440071	120.000	127	
159 tert-Butyl Alcohol	59	3.217	3.216	(0.778)	6921677	1200.00	1440	
24 Methyl-tert-butyl Ether	73	2.768	2.770	(0.669)	3308494	120.000	132 (Q)	
25 trans-1,2-Dichloroethene	61	2.697	2.699	(0.652)	1603743	120.000	128	
165 methyl Acetate	43	2.713	2.715	(0.656)	805553	120.000	116	
26 Acrylonitrile	53	3.117	3.119	(0.754)	3681040	1200.00	1260	
164 n-hexane	57	2.745	2.744	(0.664)	2599884	120.000	140 (Q)	
162 Diisopropyl ether	45	2.999	2.997	(0.725)	3924879	120.000	136	
27 1,1-Dichloroethane	63	3.076	3.078	(0.744)	1985551	120.000	135	
28 Vinyl Acetate	43	3.223	3.225	(0.780)	5590377	120.000	142	
29 Chloroprene	53	3.060	3.058	(0.740)	1827630	120.000	142	
166 Ethyl-tert-butyl ether	59	3.217	3.216	(0.778)	6921677	120.000	144	
30 2,2-Dichloropropane	77	3.461	3.459	(0.837)	1545772	120.000	139	
31 cis-1,2-Dichloroethene	61	3.397	3.398	(0.822)	1377336	120.000	133	
161 Ethyl Acetate	43	3.624	3.623	(0.877)	1862528	240.000	244	
32 2-Butanone	43	3.740	3.742	(0.905)	840585	120.000	121 (Q)	
33 Propionitrile	54	3.926	3.928	(0.950)	1601733	1200.00	1360 (Q)	
34 Bromochloromethane	130	3.515	3.514	(0.850)	575930	120.000	122	
167 Tetrahydrofuran	42	3.657	3.655	(0.884)	2923406	1200.00	1310	
35 Methacrylonitrile	41	3.929	3.934	(0.950)	7880117	1200.00	1390	
36 Chloroform	83	3.554	3.553	(0.860)	1646727	120.000	127	
172 tert-Butyl Formate	59	3.217	3.216	(0.778)	6921677	600.000	719	
171 cyclohexane	56	3.512	3.514	(0.849)	1794324	120.000	140	
37 1,1,1-Trichloroethane	97	3.679	3.678	(0.890)	1574271	120.000	134	
38 Carbon Tetrachloride	117	3.637	3.636	(0.880)	1291231	120.000	120	
39 1,1-Dichloropropene	75	3.746	3.748	(0.906)	1330054	120.000	134	
40 Isobutyl alcohol	43	4.016	4.018	(0.971)	777609	2400.00	2420 (Q)	
41 Benzene	78	3.897	3.896	(0.943)	3980688	120.000	121	
163 tert-amyl Alcohol	59	4.077	4.078	(0.986)	1600527	2400.00	2770	
169 tert-amyl methyl ether	73	3.955	3.957	(0.957)	6718105	120.000	142	
42 1,2-Dichloroethane	62	4.016	4.018	(0.971)	1483215	120.000	135	
43 Trichloroethene	132	4.234	4.236	(1.024)	1214037	120.000	131	
168 Methylcyclohexane	83	4.231	4.230	(1.023)	1909739	120.000	140	
44 1,2-Dichloropropane	63	4.549	4.550	(1.100)	1048180	120.000	131	
45 Methyl methacrylate	69	4.667	4.666	(1.129)	730394	120.000	136	
46 1,4-Dioxane	88	4.722	4.717	(1.142)	114641	2400.00	2970 (AM)	NI
47 Dibromomethane	174	4.491	4.489	(1.086)	703130	120.000	129	
48 Bromodichloromethane	83	4.581	4.583	(1.108)	1284710	120.000	121	
49 2-Chloroethyl Vinyl Ether	63	4.921	4.919	(1.190)	1103879	120.000	118	
50 cis-1,3-Dichloropropene	75	4.963	4.964	(1.200)	1737505	120.000	121	
51 4-Methyl-2-Pentanone	43	5.344	5.343	(0.881)	2323123	120.000	135	
52 Toluene	91	5.110	5.112	(0.842)	4577426	120.000	125	
53 trans-1,3-Dichloropropene	75	5.367	5.369	(0.884)	1723752	120.000	122	
54 Ethyl methacrylate	41	5.457	5.459	(0.899)	1098753	120.000	139	
55 1,1,2-Trichloroethane	97	5.470	5.471	(0.901)	976324	120.000	124	
56 Tetrachloroethene	166	5.351	5.353	(0.882)	1332546	120.000	125	
57 1,3-Dichloropropane	76	5.646	5.648	(0.930)	1639131	120.000	126	
58 2-Hexanone	43	5.877	5.879	(0.968)	2094979	120.000	115	
59 Dibromochloromethane	129	5.585	5.587	(0.920)	1024064	120.000	122	
160 3,3-dimethyl-1-butanol	57	5.855	5.856	(0.965)	2341510	2400.00	2170	
60 1,2-Dibromoethane	107	5.745	5.744	(0.947)	984514	120.000	125	
61 Chlorobenzene	112	6.082	6.084	(1.002)	3400716	120.000	128	
62 Ethylbenzene	91	6.095	6.097	(1.004)	5827886	120.000	132	
63 1,1,1,2-Tetrachloroethane	131	6.124	6.126	(1.009)	1142278	120.000	122	

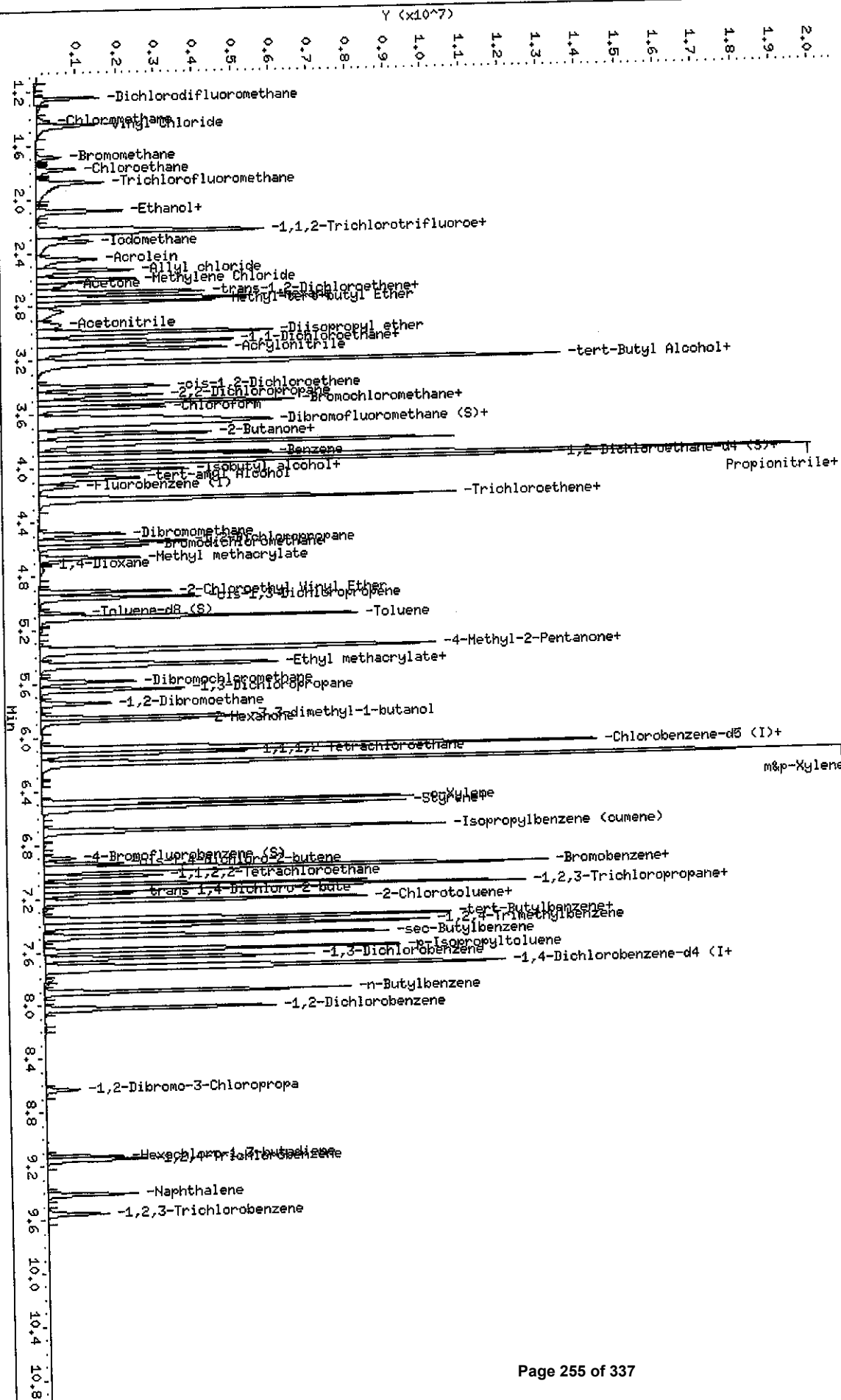
Compounds	QUANT SIG				AMOUNTS			REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
	=====	=====	=====	=====	=====	=====	=====	
64 m&p-Xylene	91	6.192	6.097	(1.020)	9027912	240.000	282	
65 o-Xylene	91	6.484	6.485	(1.068)	4508712	120.000	134	
66 Styrene	104	6.519	6.521	(1.074)	3646670	120.000	122	
67 Bromoform	173	6.541	6.543	(1.078)	671538	120.000	122	
68 Isopropylbenzene (cumene)	105	6.698	6.697	(1.104)	5572293	120.000	123	
69 Bromobenzene	77	6.974	6.976	(0.905)	2354590	120.000	136	
70 1,1,2,2-Tetrachloroethane	83	7.035	7.037	(0.913)	1191503	120.000	129	
71 n-Propylbenzene	91	6.987	6.989	(0.907)	6776211	120.000	138	
72 1,2,3-Trichloropropane	75	7.138	7.137	(0.927)	1140914	120.000	128	
73 trans 1,4-Dichloro-2-butene	53	7.164	7.166	(0.930)	354979	120.000	124 (Q)	
170 cis-1,4-dichloro-2-butene	53	6.942	6.944	(0.901)	354515	120.000	116	
74 2-Chlorotoluene	91	7.222	7.223	(0.938)	3871093	120.000	136	
75 1,3,5-Trimethylbenzene	105	7.125	7.130	(0.925)	4623300	120.000	139	
76 4-Chlorotoluene	91	7.222	7.223	(0.938)	3871093	120.000	136	
77 tert-Butylbenzene	119	7.356	7.358	(0.955)	4446879	120.000	122	
78 1,2,4-Trimethylbenzene	105	7.408	7.409	(0.962)	4446702	120.000	136	
79 Pentachloroethane	167	7.372	7.374	(0.957)	749446	120.000	121	
80 sec-Butylbenzene	105	7.485	7.486	(0.972)	4985372	120.000	135	
81 p-Isopropyltoluene	119	7.591	7.592	(0.985)	4302217	120.000	123	
82 1,3-Dichlorobenzene	146	7.648	7.650	(0.993)	2432231	120.000	129	
83 1,4-Dichlorobenzene	146	7.712	7.714	(1.001)	2484072	120.000	129	
84 1,2,3-Trimethylbenzene	105	7.729	7.730	(1.869)	4441048	120.000	138	
85 n-Butylbenzene	91	7.902	7.904	(1.026)	3536509	120.000	122	
86 1,2-Dichlorobenzene	146	8.024	8.026	(1.042)	2055410	120.000	129	
87 1,2-Dibromo-3-Chloropropane	75	8.630	8.629	(1.120)	163724	120.000	124	
88 1,2,4-Trichlorobenzene	180	9.153	9.155	(1.188)	680922	120.000	134	
89 Hexachloro-1,3-butadiene	225	9.131	9.129	(1.185)	297218	120.000	124	
90 Naphthalene	128	9.410	9.412	(1.222)	1562851	120.000	125	
91 1,2,3-Trichlorobenzene	180	9.554	9.556	(1.240)	418692	120.000	116	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

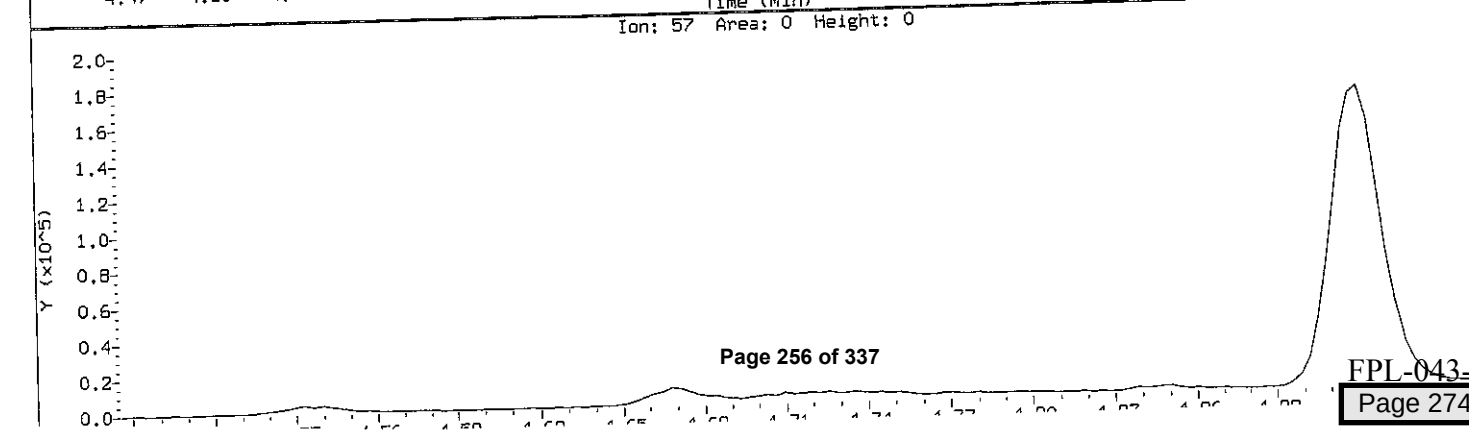
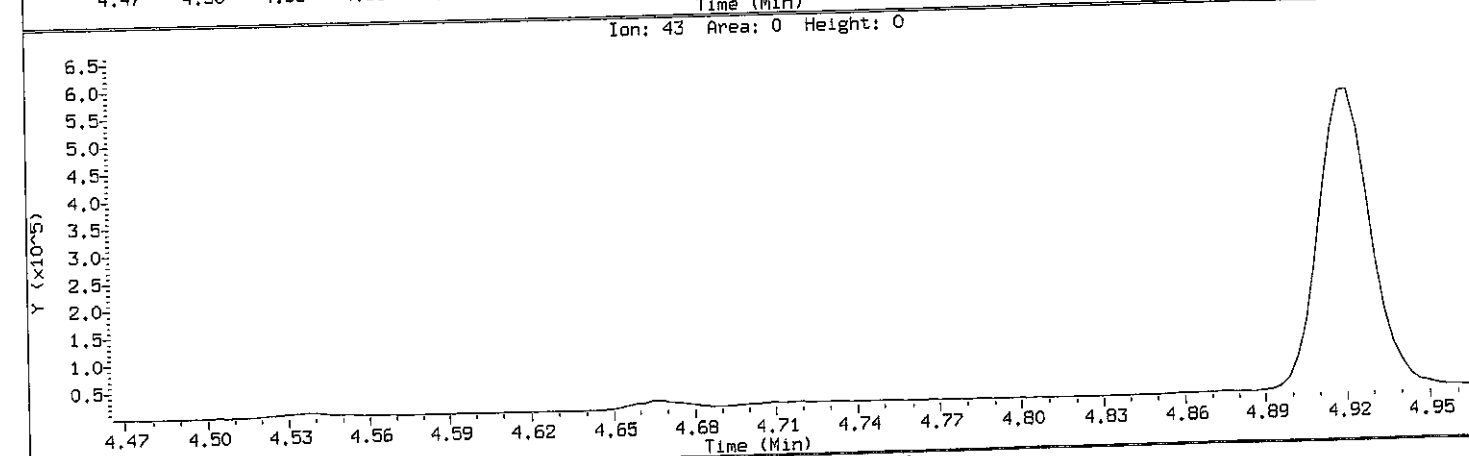
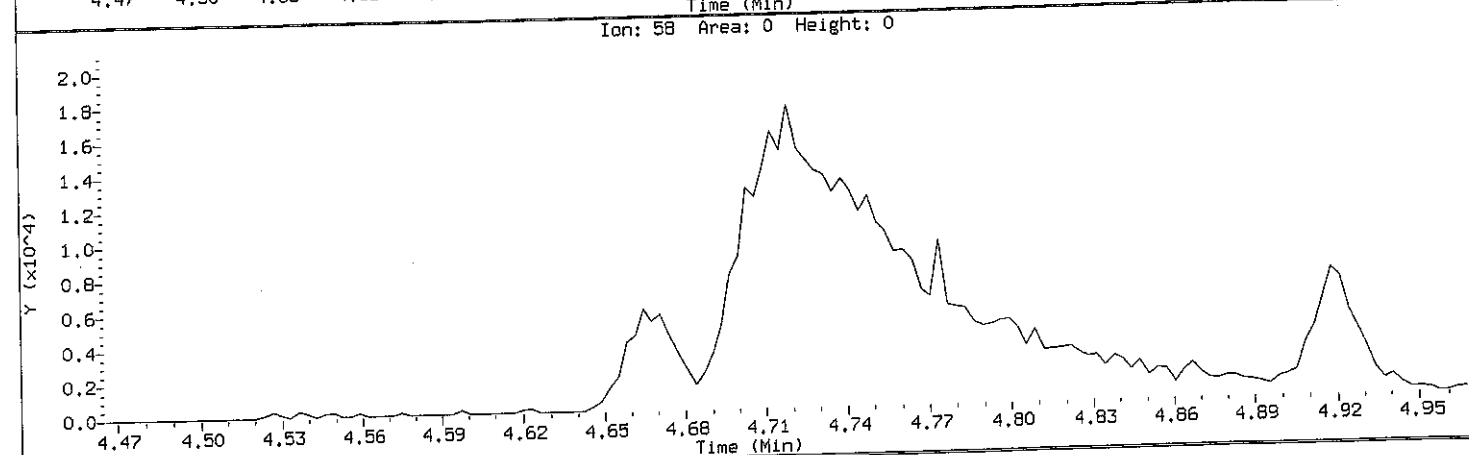
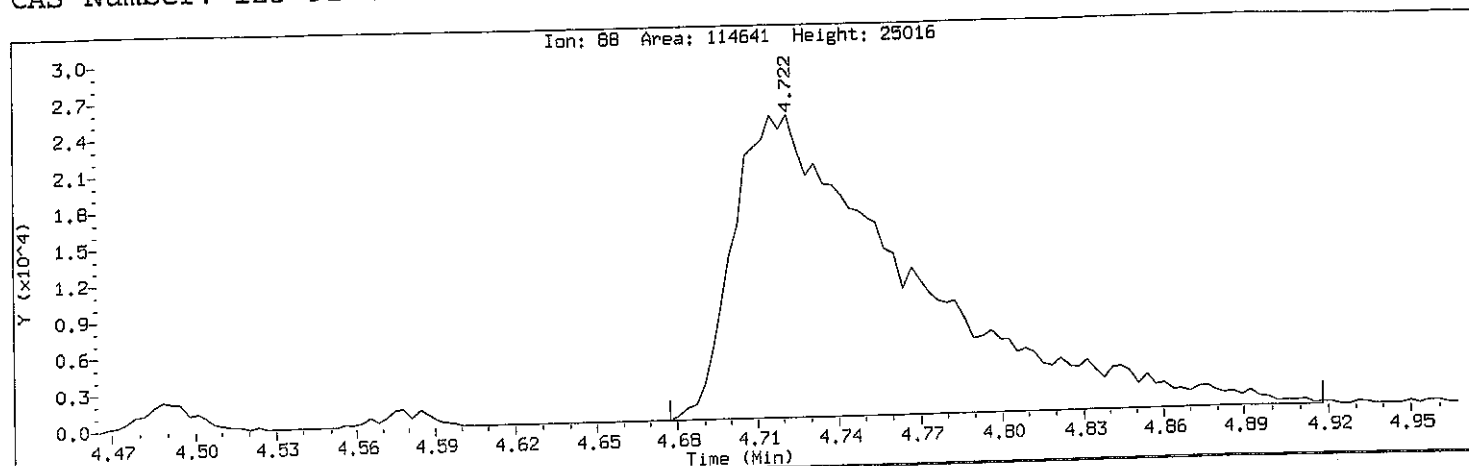
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 Date: 25-JUL-2013 08:44
 Client ID:
 Sample Info: ICAL8
 Purge Volume: 5.0
 Column phase: RTX-VMS

Instrument: 35msv3.i
 Operator: SK
 Column diameter: 0.18



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0725004.D
Injection Date: 25-JUL-2013 08:44
Instrument: 35msv3.i
Lab Sample ID: ICAL8

Compound: 1,4-Dioxane
CAS Number: 123-91-1



Pace Analytical Services, Inc.

8/21/13

SW846-8260B
Data file : \\35Wintarget\chem\35msv3.i\130724ICAL.b\0725005.D
Lab Smp Id: ICAL9
Inj Date : 25-JUL-2013 09:08
Operator : SK
Smp Info : ICAL9
Misc Info : ,,SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130724ICAL.b\8260-3-130724.m
Meth Date : 25-Jul-2013 10:05 skaneyama
Cal Date : 25-JUL-2013 09:08
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14

Inst ID: 35msv3.i

Quant Type: ISTD
Cal File: 0725005.D
Calibration Sample, Level: 9

Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW CODE
						CAL-AMT (ug/L)	ON-COL (ug/L)	
*****	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene (I)	96	4.136	4.136	(1.000)	627597	40.0000		
* 2 Chlorobenzene-d5 (I)	82	6.074	6.074	(1.000)	284273	40.0000		
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.704	7.704	(1.000)	275867	40.0000	(Q)	
\$ 4 Dibromofluoromethane (S)	111	3.661	3.662	(0.885)	172533	40.0000	40.3	
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.979	3.979	(0.962)	216400	40.0000	45.1(Q)	
\$ 6 Toluene-d8 (S)	98	5.079	5.080	(1.228)	602396	40.0000	39.6	
\$ 7 4-Bromofluorobenzene (S)	174	6.902	6.902	(1.136)	212683	40.0000	38.6	
8 Dichlorodifluoromethane	85	1.248	1.249	(0.302)	1723280	200.000	192	
9 Chloromethane	50	1.425	1.425	(0.345)	1300331	200.000	222(AQ)	
10 Vinyl Chloride	62	1.450	1.451	(0.351)	2211504	200.000	199	
11 Bromomethane	94	1.688	1.688	(0.408)	550196	200.000	198	
12 Chloroethane	64	1.774	1.775	(0.429)	983294	200.000	149	
13 Trichlorofluoromethane	101	1.874	1.874	(0.453)	2815843	200.000	196	
14 Ethanol	45	2.208	2.208	(0.534)	98160	8000.00	4060(AQH)	WP
158 Ethyl Ether	45	2.092	2.093	(0.506)	1171432	200.000	203(A)	
15 1,1,2-Trichlorotrifluoroethan	151	2.246	2.247	(0.543)	1656972	200.000	218(A)	
16 Acrolein	56	2.451	2.452	(0.593)	2670798	2000.00	2000(A)	
17 1,1-Dichloroethene	61	2.220	2.221	(0.537)	2826267	200.000	224(A)	
18 Acetone	43	2.641	2.641	(0.639)	1171600	200.000	205(A)	
19 Iodomethane	142	2.317	2.317	(0.560)	1745260	200.000	101	
20 Carbon Disulfide	76	2.240	2.240	(0.542)	5434063	200.000	228(A)	
21 Allyl chloride	41	2.532	2.532	(0.612)	2075257	200.000	174	
22 Acetonitrile	41	2.933	2.933	(0.709)	1780249	2000.00	2040(AQ)	

Compounds	QUANT SIG MASS					AMOUNTS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49	2.599	2.599	(0.628)	2454669	200.000	206 (A)	
159 tert-Butyl Alcohol	59	3.215	3.216	(0.777)	11882267	2000.00	2340 (A)	
24 Methyl-tert-butyl Ether	73	2.769	2.770	(0.670)	5714898	200.000	217 (A)	
25 trans-1,2-Dichloroethene	61	2.698	2.699	(0.652)	2880031	200.000	218 (A)	
165 methyl Acetate	43	2.715	2.715	(0.656)	1131878	200.000	154 (Q)	
26 Acrylonitrile	53	3.119	3.119	(0.754)	7107871	2000.00	2310 (A)	
164 n-hexane	57	2.743	2.744	(0.663)	3428291	200.000	176 (Q)	
162 Diisopropyl ether	45	2.997	2.997	(0.725)	6720544	200.000	221 (A)	
27 1,1-Dichloroethane	63	3.077	3.078	(0.744)	3354158	200.000	216 (A)	
28 Vinyl Acetate	43	3.225	3.225	(0.780)	9582307	200.000	230 (A)	
29 Chloroprene	53	3.058	3.058	(0.739)	3226696	200.000	237 (A)	
166 Ethyl-tert-butyl ether	59	3.215	3.216	(0.777)	11882267	200.000	234 (A)	
30 2,2-Dichloropropane	77	3.459	3.459	(0.836)	2710757	200.000	231 (A)	
31 cis-1,2-Dichloroethene	61	3.398	3.398	(0.822)	2284794	200.000	209 (A)	
161 Ethyl Acetate	43	3.623	3.623	(0.876)	3568342	400.000	444 (A)	
32 2-Butanone	43	3.741	3.742	(0.905)	1578520	200.000	215 (AQ)	
33 Propionitrile	54	3.927	3.928	(0.950)	3009437	2000.00	2430 (AQ)	
34 Bromochloromethane	130	3.514	3.514	(0.850)	983190	200.000	198	
167 Tetrahydrofuran	42	3.655	3.655	(0.884)	5457964	2000.00	2320 (A)	
35 Methacrylonitrile	41	3.934	3.934	(0.951)	13050255	2000.00	2180 (A)	
36 Chloroform	83	3.552	3.553	(0.859)	2926878	200.000	214 (A)	
172 tert-Butyl Formate	59	3.215	3.216	(0.777)	11882267	1000.00	1170 (A)	
171 cyclohexane	56	3.514	3.514	(0.850)	3268093	200.000	241 (A)	
37 1,1,1-Trichloroethane	97	3.677	3.678	(0.889)	2780562	200.000	224 (A)	
38 Carbon Tetrachloride	117	3.635	3.636	(0.879)	2329508	200.000	202 (A)	
39 1,1-Dichloropropene	75	3.748	3.748	(0.906)	2307481	200.000	221 (A)	
40 Isobutyl alcohol	43	4.017	4.018	(0.971)	1776108	4000.00	4000	
41 Benzene	78	3.895	3.896	(0.942)	6912370	200.000	200	
163 tert-amyl Alcohol	59	4.078	4.078	(0.986)	3491425	4000.00	5730 (A)	
169 tert-amyl methyl ether	73	3.956	3.957	(0.957)	11433791	200.000	229 (A)	
42 1,2-Dichloroethane	62	4.017	4.018	(0.971)	2681088	200.000	231 (A)	
43 Trichloroethene	132	4.235	4.236	(1.024)	2169459	200.000	223 (A)	
168 Methylcyclohexane	83	4.229	4.230	(1.022)	3483041	200.000	241 (A)	
44 1,2-Dichloropropane	63	4.550	4.550	(1.100)	1815420	200.000	215 (A)	
45 Methyl methacrylate	69	4.665	4.666	(1.128)	1308834	200.000	232 (A)	
46 1,4-Dioxane	88	4.717	4.717	(1.140)	239781	4000.00	5900 (AM)	NI
47 Dibromomethane	174	4.489	4.489	(1.085)	1192276	200.000	208 (A)	
48 Bromodichloromethane	83	4.582	4.583	(1.108)	2245260	200.000	200	
49 2-Chloroethyl Vinyl Ether	63	4.919	4.919	(1.189)	2031961	200.000	200 (A)	
50 cis-1,3-Dichloropropene	75	4.964	4.964	(1.200)	3028416	200.000	200	
51 4-Methyl-2-Pentanone	43	5.343	5.343	(0.880)	4341281	200.000	234 (A)	
52 Toluene	91	5.111	5.112	(0.842)	7878641	200.000	199	
53 trans-1,3-Dichloropropene	75	5.368	5.369	(0.884)	3064798	200.000	199	
54 Ethyl methacrylate	41	5.458	5.459	(0.899)	2003928	200.000	235 (A)	
55 1,1,2-Trichloroethane	97	5.471	5.471	(0.901)	1726407	200.000	204 (A)	
56 Tetrachloroethene	166	5.352	5.353	(0.881)	2412759	200.000	210 (A)	
57 1,3-Dichloropropane	76	5.647	5.648	(0.930)	2828906	200.000	200 (A)	
58 2-Hexanone	43	5.878	5.879	(0.968)	4117733	200.000	206 (A)	
59 Dibromochloromethane	129	5.586	5.587	(0.920)	1817400	200.000	199	
160 3,3-dimethyl-1-butanol	57	5.856	5.856	(0.964)	5140325	4000.00	4210 (A)	
60 1,2-Dibromoethane	107	5.744	5.744	(0.946)	1700731	200.000	199	
61 Chlorobenzene	112	6.084	6.084	(1.002)	5938035	200.000	207 (A)	
62 Ethylbenzene	91	6.097	6.097	(1.004)	9995914	200.000	210 (A)	
63 1,1,1,2-Tetrachloroethane	131	6.125	6.126	(1.008)	2020295	200.000	198	

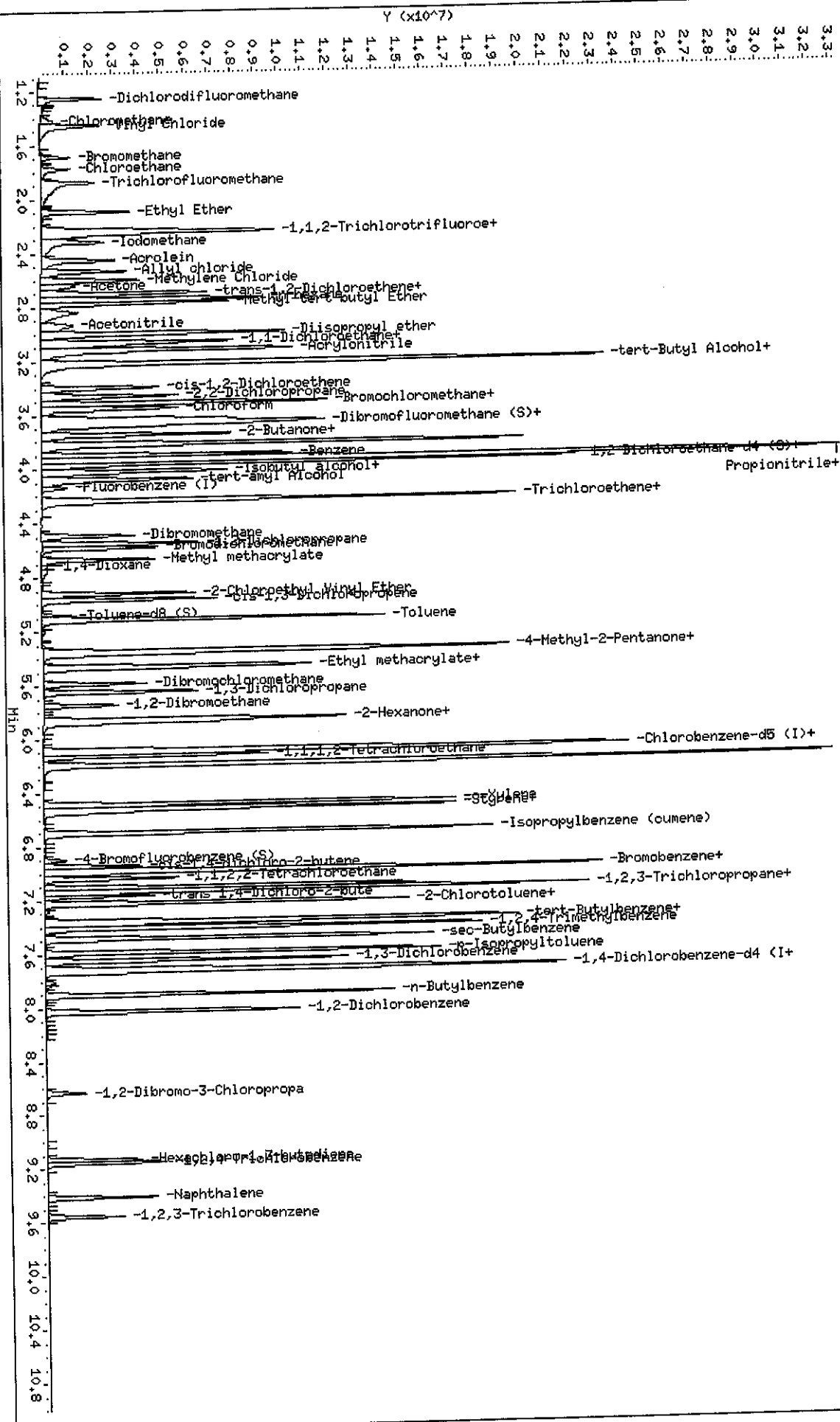
Compounds	QUANT SIG MASS					AMOUNTS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
64 m&p-Xylene	91	6.097	6.097	(1.004)	9995914	400.000	288 (Q)	
65 o-Xylene	91	6.485	6.485	(1.068)	8007023	200.000	219 (A)	
66 Styrene	104	6.520	6.521	(1.073)	6417815	200.000	198	
67 Bromoform	173	6.543	6.543	(1.077)	1241302	200.000	199	
68 Isopropylbenzene (cumene)	105	6.697	6.697	(1.102)	9612888	200.000	197	
69 Bromobenzene	77	6.976	6.976	(0.905)	4212686	200.000	222 (A)	
70 1,1,2,2-Tetrachloroethane	83	7.037	7.037	(0.913)	2153282	200.000	213 (A)	
71 n-Propylbenzene	91	6.989	6.989	(0.907)	11326390	200.000	212 (A)	
72 1,2,3-Trichloropropane	75	7.136	7.137	(0.926)	2100608	200.000	216 (A)	
73 trans 1,4-Dichloro-2-butene	53	7.165	7.166	(0.930)	701684	200.000	199 (Q)	
170 cis-1,4-dichloro-2-butene	53	6.944	6.944	(0.901)	709430	200.000	206 (A)	
74 2-Chlorotoluene	91	7.223	7.223	(0.938)	6884169	200.000	221 (A)	
75 1,3,5-Trimethylbenzene	105	7.130	7.130	(0.925)	8173973	200.000	225 (A)	
76 4-Chlorotoluene	91	7.223	7.223	(0.938)	6884169	200.000	221 (A)	
77 tert-Butylbenzene	119	7.358	7.358	(0.955)	8033600	200.000	200 (A)	
78 1,2,4-Trimethylbenzene	105	7.409	7.409	(0.962)	7824458	200.000	220 (A)	
79 Pentachloroethane	167	7.374	7.374	(0.957)	1385304	200.000	202 (A)	
80 sec-Butylbenzene	105	7.486	7.486	(0.972)	8767371	200.000	217 (A)	
81 p-Isopropyltoluene	119	7.592	7.592	(0.985)	7600047	200.000	199	
82 1,3-Dichlorobenzene	146	7.650	7.650	(0.993)	4309668	200.000	210 (A)	
83 1,4-Dichlorobenzene	146	7.714	7.714	(1.001)	4464853	200.000	213 (A)	
84 1,2,3-Trimethylbenzene	105	7.730	7.730	(1.869)	7734178	200.000	227 (A)	
85 n-Butylbenzene	91	7.903	7.904	(1.026)	6327411	200.000	199	
86 1,2-Dichlorobenzene	146	8.025	8.026	(1.042)	3614178	200.000	209 (A)	
87 1,2-Dibromo-3-Chloropropane	75	8.628	8.629	(1.120)	313280	200.000	199	
88 1,2,4-Trichlorobenzene	180	9.155	9.155	(1.188)	1286685	200.000	232 (A)	
89 Hexachloro-1,3-butadiene	225	9.129	9.129	(1.185)	588134	200.000	226 (A)	
90 Naphthalene	128	9.411	9.412	(1.222)	2998051	200.000	199	
91 1,2,3-Trichlorobenzene	180	9.556	9.556	(1.240)	822274	200.000	205 (A)	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

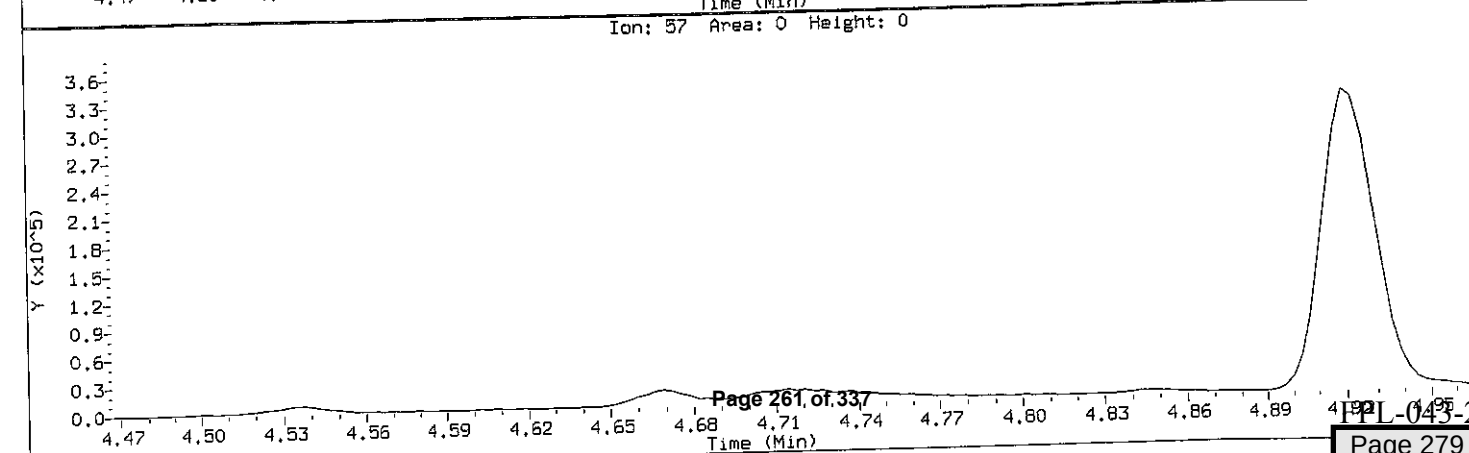
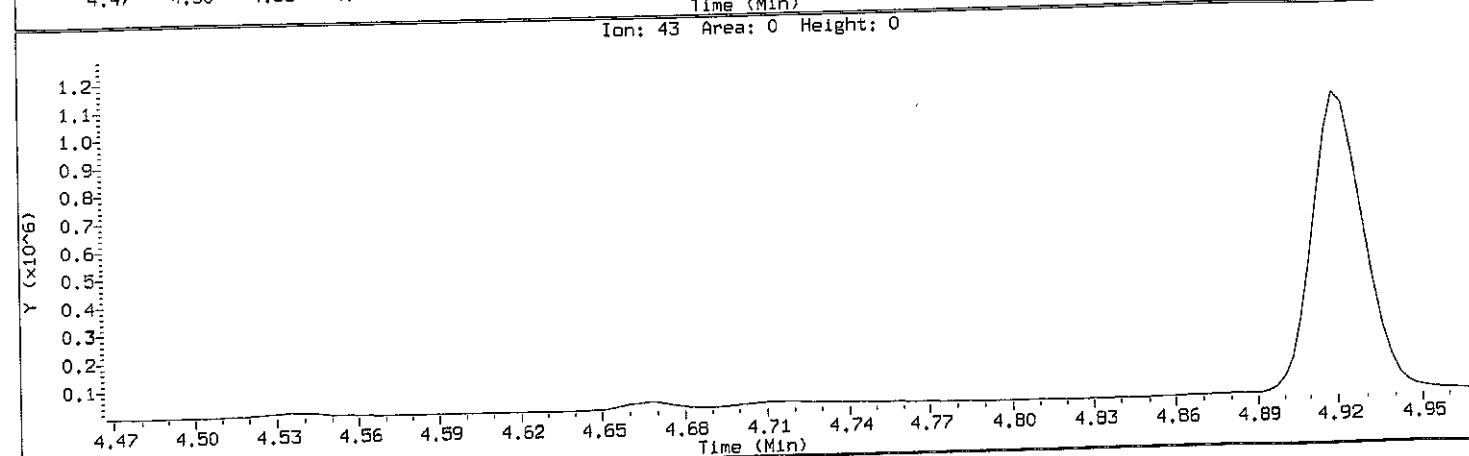
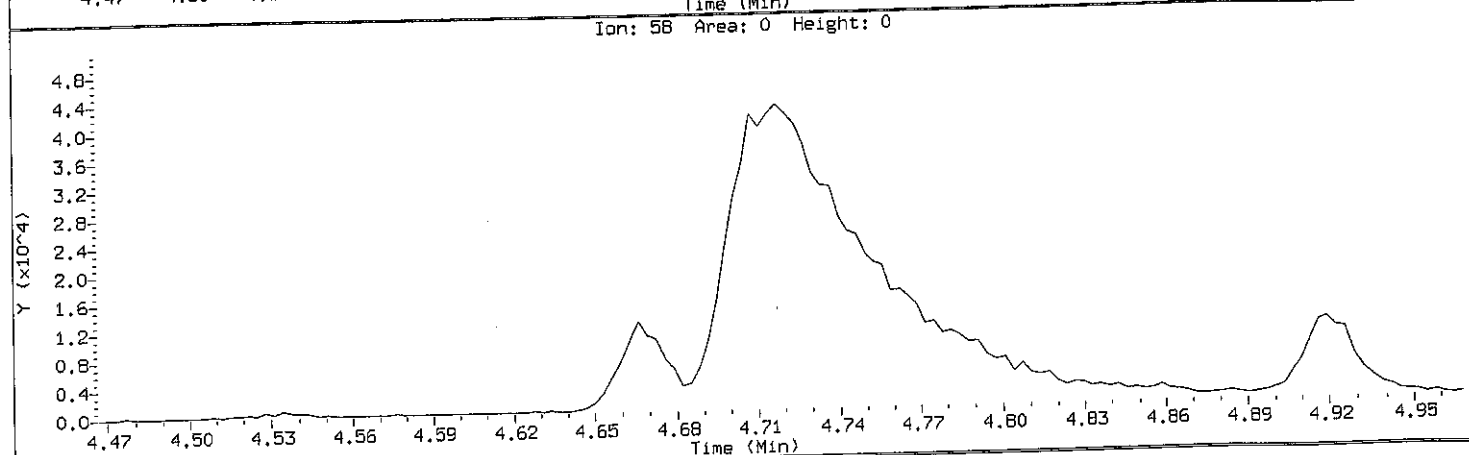
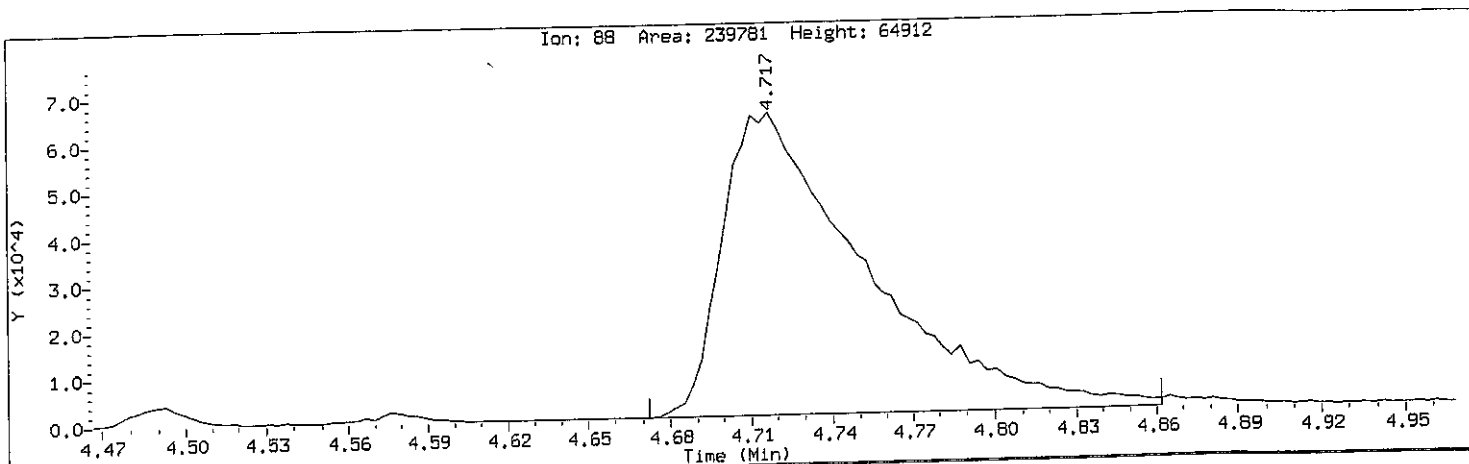
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 Date: 25-JUL-2013 09:08
 Client ID:
 Sample Info: ICAL9
 Purge Volume: 5.0
 Column Phase: RTX-WMS

Instrument: 35msv3.i
 Operator: SK
 Column diameter: 0.18



Data File: \\35Wintarget\chem\35msv3.i\130724ICAL.b\0725005.D
Injection Date: 25-JUL-2013 09:08
Instrument: 35msv3.i
Lab Sample ID: ICAL9

Compound: 1,4-Dioxane
CAS Number: 123-91-1



Report Date : 21-Aug-2013 15:27

Page 4

Page Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:08
End Cal Date : 25-JUL-2013 09:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \35msv3.1\130724ICAL.b\8260-3-130724.m
Last Edit : 25-Jul-2013 10:05 skaneyama

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Calibration File Names:

Level 1: \35msv3.1\130724ICAL.b\0724012.D
Level 2: \35msv3.1\130724ICAL.b\0724013.D
Level 3: \35msv3.1\130724ICAL.b\0724014.D
Level 4: \35msv3.1\130724ICAL.b\0724015.D
Level 5: \35msv3.1\130724ICAL.b\0724016.D
Level 6: \35msv3.1\130724ICAL.b\0724017.D
Level 7: \35msv3.1\130724ICAL.b\0725003.D
Level 8: \35msv3.1\130724ICAL.b\0725004.D
Level 9: \35msv3.1\130724ICAL.b\0725005.D

Compound	0.500000	1.0000	5.0000	10.0000	20.0000	40.0000	Old/New	Crv	WtFactor	b	Coefficients	%RSD	Max %RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv	Crv	Org		m1	m2	or R ²
	80.0000	120.0000	200.0000										
	Level 7	Level 8	Level 9										
8 Dichlorodifluoromethane	++++	0.36509	0.51751	0.54326	0.46093	0.55816	AVG	AVG	N/A	N/A	0.49731	14.70983	15.00000
	0.53892	++++	++++										
9 Chloromethane	++++	0.36257	0.34420	0.36427	0.33929	0.38394	AVG	AVG	N/A	N/A	0.37244	6.68380	15.00000
	0.38057	0.39032	0.41438										

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:08
 End Cal Date : 25-JUL-2013 09:08
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \35msv3.i\130724ICAL.b\8260-3-130724.m
 Last Edit : 25-JUL-2013 10:05 skaneyama

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Old Crv	New Crv	Org	WtFactor	b	Coefficients	m1	m2	%RSD	Max %RSD
10 Vinyl Chloride	++++	4778	33094	74290	129916	306959	INR	INR	NO	N/A	0.05832	0.71753			0.59862	0.99000
11 Bromomethane	++++	947	2752	5092	14189	43223	QUA	QUA	NO	N/A	0.19151	6.72923	-1.47882		0.99302	0.99000
12 Chloroethane	++++	0.42584	0.43466	0.44641	0.39291	0.44232										
13 Trichlorofluoromethane	++++	0.41602	0.31335				AVG	AVG	N/A	N/A		0.41987			12.11810	15.00000
14 Ethanol	++++	0.62633	0.88536	0.82472	0.77925	0.80325	AVG	AVG	N/A	N/A		0.85039			14.63101	15.00000
158 Ethyl Ether	++++	0.00084	0.00970	0.00078	0.00151	0.00214	AVG	AVG	N/A	N/A		0.00168			38.66704	15.00000
	++++	0.40055	0.34727	0.36278	0.33574	0.37596	AVG	AVG	N/A	N/A		0.36772			5.76520	0.000e+001
	0.35817	0.38802	0.37331													

Face Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:08
End Cal Date : 25-JUL-2013 09:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \35msv3.i\130724ICAL.b\8260-3-130724.m
Last Edit : 25-Jul-2013 10:05 skaneyama

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.500000 1.0000 5.0000 10.0000 20.0000 40.0000									Old Ctr	New Ctr	Org	WtFctr	Coefficients			%RSD	Max %RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	CTV	CTV	CTV					b	m1	m2	or R ²	or R ²
15 1,1,2-Trichlorotrifluoroeth	++++	0.42089	0.46087	0.49618	0.42725	0.49222												
	0.51240	0.52774	0.52804				AVG	AVG	N\A	N\A					0.48320		8.78335	15.00000
16 Acrolein	++++	0.06471	0.05682	0.07304	0.07035	0.08847												
	0.07373	0.08040	0.08511				AVG	AVG	N\A	N\A					0.07408		14.15315	15.00000
17 1,1-Dichloroethene	++++	0.68308	0.76543	0.79142	0.74927	0.83820												
	0.78277	0.93549	0.90066				AVG	AVG	N\A	N\A					0.80579		10.22192	15.00000
18 Acetone	++++	5996	21441	49949	77374	196326												
	364913	601123	1171600				INR	INR	N\A	N\A				0.01913	0.36524		0.99559	0.99000
19 Iodomethane	++++	777	6364	15769	47845	150629												
	417390	943823	1745260				QVA	QVA	N\A	N\A				0.18652	2.20428	-0.17777	0.99238	0.99000
20 Carbon Disulfide	++++	1.54789	1.38460	1.42070	1.33767	1.49137												
	1.48518	1.77751	1.73170				AVG	AVG	N\A	N\A					1.52208		10.39817	15.00000

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:08
 End Cal Date : 25-JUL-2013 09:08
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \35msv3.i\130724ICAL.b\8260-3-130724.m
 Last Edit : 25-Jul-2013 10:05 skaneyama

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.5000000	1.0000	5.0000	10.0000	20.0000	40.0000	Old/New	Civ	WtFactor	b	Coefficients m1	m2	%RSD or R ²	Max %RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Civ	Civ	Org					
	80.0000	120.0000	200.0000											
	Level 7	Level 8	Level 9											
21 Allyl chloride	++++	0.72202	0.80170	0.79656	0.75628	0.79445	AVG	AVG	N/A		0.75986		6.36945	15.00000
	0.79049	0.75619	0.66133											
22 Acetonitrile	++++	0.05569	0.06217	0.06021	0.05367	0.06614	AVG	AVG	N/A		0.05554		13.98548	15.00000
	0.04706	0.04261	0.05673											
23 Methylene Chloride	++++	0.84073	0.70734	0.72362	0.67380	0.74652	AVG	AVG	N/A		0.75983		7.43007	15.00000
	0.79822	0.80615	0.78224											
159 tert-Butyl Alcohol	++++	0.25948	0.28664	0.30755	0.30057	0.32358	AVG	AVG	N/A		0.32347		13.71909	15.00000
	0.34383	0.38747	0.37866											
24 Methyl-tert-butyl Ether	++++	1.46924	1.57280	1.65585	1.48148	1.78900	AVG	AVG	N/A		1.67688		9.18271	15.00000
	1.77335	1.85209	1.82120											
25 trans-1,2-Dichloroethene	++++	0.73731	0.78658	0.84963	0.77333	0.89419	AVG	AVG	N/A		0.84178		7.98870	15.00000
	0.87766	0.89777	0.91780											

Face Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:08
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Target Version : 4.14
Integrator : HP RTE
Method file : \3msv3.i\130724ICAL.b\8260-3-130724.m
Last Edit : 25-Jul-2013 10:05 skaneyama

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.500000	1.0000	5.0000	10.0000	20.0000	40.0000	Old Ctv	New Ctv	WtFactor	b	Coefficients	%RSD	Max %RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Ctv	Ctv			ml	ml	or R ²
	80.0000	120.0000	200.0000										
	Level 7	Level 8	Level 9										
165 methyl Acetate	++++	9316	24759	54146	87945	218578	AVG	LMR	NO	N/A	0.02335	0.44090	0.99393
	424685	805553	++++										0.000e+00
26 Acrylonitrile	++++	0.17261	0.18061	0.20754	0.18821	0.20402	AVG	AVG	N/A	N/A			9.19713
	0.18189	0.20606	0.22651										15.00000
164 n-hexane	++++	1.06843	1.21603	1.26244	1.12298	1.33139	AVG	AVG	N/A	N/A			
	1.39895	1.45541	1.09251										11.60917
162 Diisopropyl ether	++++	1.72578	1.87714	2.03411	1.80808	1.89736	AVG	AVG	N/A	N/A			
	1.83553	2.19714	2.14167										8.61887
27 1,1-Dichloroethane	++++	0.86194	0.90523	1.01087	0.96084	1.01470	AVG	AVG	N/A	N/A			
	0.97689	1.11151	1.06889										8.25384
28 Vinyl Acetate	++++	2.10991	2.31510	2.62775	2.45337	2.71894	AVG	AVG	N/A	N/A			
	2.79431	3.12949	3.05365										13.23623
													15.00000

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Compound	0.5000000	1.0000	5.0000	10.0000	20.0000	40.0000	Old	New	CrV	CrV	Org	WtFactor	b	Coefficients	m1	m2	%RSD	Max %RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	CrV	CrV	N/A								OR R^2	OR R^2
29 Chloroprene	0.83838	1.02311	1.02827			0.82148	AVG	AVG	N/A					0.86729			11.86290	15.00000
166 Ethyl-tert-butyl ether	3.43834	2.59485	2.86637	3.07554	3.00568	3.23584	AVG	AVG	N/A					3.23475			13.71909	0.000e+00
30 2,2-Dichloropropane	0.83485	0.56055	0.66825	0.73011	0.69401	0.76097	AVG	AVG	N/A					0.74724			14.27329	15.00000
31 cis-1,2-Dichloroethene	0.73538	0.59496	0.63417	0.72003	0.66847	0.72679	AVG	AVG	N/A					0.69737			8.48551	15.00000
161 Ethyl Acetate	0.48877	0.54086	0.46539	0.53608	0.46959	0.50942	AVG	AVG	N/A					0.51258			7.05676	0.000e+00
32 2-Butanone	0.45524	0.42384	0.47252	0.49429	0.41914	0.50438	AVG	AVG	N/A					0.46787			7.12042	15.00000

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Compound	0.500000	1.0000	5.0000	10.0000	20.0000	40.0000	Old	New	CrV	WtFactor	b	Coefficients	m1	m2	%RSD	Max %RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	CrV	CrV	Orig						or R ²	or R ²
	80.0000	120.0000	200.0000													
	Level 7	Level 8	Level 9													
33 Propionitrile	++++	0.06226	0.06861	0.08399	0.07213	0.08351									14.24641	15.00000
	0.07625	0.08966	0.09590				AVG	AVG	N/A	N/A			0.07904			
34 Bromochloromethane	++++	0.27445	0.30491	0.32471	0.30818	0.33092									5.83428	15.00000
	0.32778	0.32240	0.31332				AVG	AVG	N/A	N/A			0.31334			
167 Tetrahydrofuran	++++	0.12046	0.12860	0.16172	0.13295	0.16709									13.39965	0.000e+00
	0.14813	0.16365	0.17383				AVG	AVG	N/A	N/A			0.14957			
35 Methylacrylonitrile	++++	0.28571	0.34453	0.39343	0.35399	0.40654									13.11774	15.00000
	0.40783	0.44113	0.41588				AVG	AVG	N/A	N/A			0.38113			
36 Chloroform	++++	0.75565	0.82920	0.87395	0.83497	0.92649									7.05292	15.00000
	0.89552	0.92184	0.93273				AVG	AVG	N/A	N/A			0.87129			
172 tert-Butyl Formate	++++	0.51897	0.57327	0.61511	0.60114	0.64717									13.71909	0.000e+00
	0.68767	0.77495	0.75732				AVG	AVG	N/A	N/A			0.64695			

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Compound	0.5000000	1.0000	5.0000	10.0000	20.0000	40.0000	Old	New	CrV	WtFactor	b	Coefficients m1	m2	%RSD or R ²	Max %RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	CrV	CrV	Orig						
	80.0000	120.0000	200.0000												
	Level 7	Level 8	Level 9												
171 cyclohexane	++++	0.67552	0.75340	0.84027	0.76122	0.87721	AVG	AVG	N/A	N/A		0.86312		14.88974	0.000400
	0.94545	1.00446	1.04146												
37 1,1,1-Trichloroethane	++++	0.63885	0.71663	0.77052	0.74574	0.83771	AVG	AVG	N/A	N/A		0.79020		11.05386	15.00000
	0.84474	0.88128	0.88610												
38 Carbon Tetrachloride	++++	4198	26726	61762	125781	305347	LNMR	LNMR	NO	N/A	0.09871	0.74982		0.99873	0.99000
	727169	1291231	2329508												
39 1,1-Dichloropropene	++++	0.51110	0.60567	0.66638	0.63349	0.71360	AVG	AVG	N/A	N/A		0.66499		11.90189	15.00000
	0.70981	0.74456	0.73534												
40 Isobutyl alcohol	++++	3306	18217	47523	87560	229017	QUA	QUA	NO	N/A	-0.35426	56.33935	-7.37805	0.99586	0.99000
	379873	777609	1776108												
41 Benzene	++++	1.72092	1.94040	2.07010	1.99073	2.19086	AVG	AVG	N/A	N/A		2.06360		8.41117	15.00000
	2.16463	2.22838	2.20281												

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Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Old Civ	New Civ	WtFractr	b	Coefficients m1	m2	%RSD or R^2	Max %RSD or R^2
163 tert-amyl Alcohol	++++ 731991	6775 1600527	33975 3491425	95075	158958	418012	AVG QDA	NO	N/A	0.25536	27.88893	-1.79949	0.99571	0.000e+00
169 tert-amyl methyl ether	++++ 3.47926	2.42025 3.76079	2.89363 3.64367	3.10576	2.90305	3.26640	AVG AVG	N/A	N/A		3.18410		13.99815	0.000e+00
42 1,2-Dichloroethane	++++ 0.77879	0.58123 0.83030	0.67868 0.85440	0.73375	0.68554	0.77007	AVG AVG	N/A	N/A		0.73910		12.06012	15.00000
43 Trichloroethene	++++ 0.66106	0.49650 0.67962	0.57922 0.69135	0.61805	0.58584	0.65121	AVG AVG	N/A	N/A		0.62036		10.44533	15.00000
168 Methylcyclohexane	++++ 1.02096	0.67926 ++++	0.81811 ++++	0.90065	0.81188	0.94499	AVG AVG	N/A	N/A		0.86264		13.86047	0.000e+00
44 1,2-Dichloropropane	++++ 0.57071	0.45721 0.58677	0.49105 0.57853	0.53803	0.51096	0.56945	AVG AVG	N/A	N/A		0.53784		8.76094	15.00000

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Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.500000	1.0000	5.0000	10.0000	20.0000	40.0000	Old Crv	New Crv	Org	WtFactor	b	Coefficients	m1	m2	%RSD	Max %RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv	Crv	Org							
	80.0000	120.0000	200.0000													
	Level 7	Level 8	Level 9													
45 Methyl methacrylate	++++	0.27219	0.30559	0.35887	0.33242	0.38921	AVG	AVG	N\A	N\A		0.35920			14.42465	15.00000
	0.38938	0.40887	0.41709													
46 1,4-Dioxane	++++	0.00027	0.00299	0.00355	0.00265	0.00355	AVG	AVG	N\A	N\A		0.00249			50.19769	15.00000
	0.00190	++++	++++													
47 Dibromomethane	++++	0.30521	0.33996	0.37723	0.34963	0.38392	AVG	AVG	N\A	N\A		0.36541			8.53775	15.00000
	0.39377	0.39361	0.37995													
48 Bromodichloromethane	2639	5257	28114	65961	131999	321314	INR	INR	NO	N\A	0.05104	0.72290			0.99949	0.99000
	742254	1284710	2245260													
49 2-Chloroethyl Vinyl Ether	++++	2928	22348	54542	107574	289063	QUA	QUA	NO	N\A	0.06034	1.59665	-0.02139		0.99916	0.99000
	685641	1103879	2031961													
50 cis-1,3-Dichloropropene	3155	5952	37900	88022	183242	438134	QUA	QUA	NO	N\A	0.04473	1.03197	-0.00163		0.99959	0.99000
	1012019	1737505	3028416													

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Compound	0.500000	1.0000	5.0000	10.0000	20.0000	40.0000	Old	New	CrV	WtFactor	b	Coefficients		%RSD	Max %RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	CrV	CrV	Org			m1	m2	or R ²	or R ²
51 4-Methyl-2-Pentanone	++++	2.08494	2.25581	2.66084	2.37821	2.82190	AVG	AVG	N/A	N/A		2.61300		13.11774	15.00000
	2.69927	2.94877	3.05430												
52 Toluene	++++	5.04512	5.32454	5.70164	5.34357	5.92949	AVG	AVG	N/A	N/A		5.56709		5.53393	15.00000
	5.83917	5.81019	5.54301												
53 trans-1,3-Dichloropropene	2784	5285	32824	81356	164915	402456	INR	INR	NO	N/A	0.05230	2.18627		0.99938	0.99000
	975423	1723752	3064798												
54 Ethyl methacrylate	++++	0.97638	1.00118	1.13947	1.08901	1.27615	AVG	AVG	N/A	N/A		1.20006		14.30153	15.00000
	1.31374	1.39466	1.40986												
55 1,1,2-Trichloroethane	++++	1.08419	1.13194	1.24010	1.14341	1.26353	AVG	AVG	N/A	N/A		1.19356		5.42053	15.00000
	1.23141	1.23926	1.21461												
56 Tetrachloroethene	++++	1.36085	1.53802	1.70529	1.54464	1.73231	AVG	AVG	N/A	N/A		1.61997		7.92854	15.00000
	1.68976	1.69142	1.69749												

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Compound	0.500000	1.0000	5.0000	10.0000	20.0000	40.0000	Old	New	CrV	WtFactor	b	Coefficients	m1	m2	%RSD	Max %RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	CrV	CrV	Org							
	80.0000	120.0000	200.0000													
	Level 7	Level 8	Level 9													
57 1,3-Dichloropropane	++++	1.66640	1.90983	2.07811	1.91664	2.17236	AVG	AVG	N/A	N/A		1.98894			8.00086	15.00000
	2.09734	2.08057	1.99027													
58 2-Hexanone	++++	7340	44265	116207	207104	521132	LNMR	LNMR	NO	N/A	0.11546	2.88141			0.99455	0.99000
	1083020	2094979	4117733													
59 Dibromochloromethane		1402	2885	18034	44488	93534	LNMR	LNMR	NO	N/A	0.05713	1.30064			0.99919	0.99000
	587959	1024064	1817400													
160 3,3-dimethyl-1-butanol	++++	3724	29391	106203	195458	553507	AVG	QDA	NO	N/A	0.24937	9.49627	-0.30833		0.99251	0.000e+00
	1049955	2341510	++++													
60 1,2-Dibromomethane	++++	0.95611	1.15937	1.27612	1.17155	1.33114	AVG	AVG	N/A	N/A					9.58806	15.00000
	1.27467	1.24966	1.19655													
61 Chlorobenzene	++++	3.51543	3.82864	4.05462	3.81896	4.26056	AVG	AVG	N/A	N/A		4.02983			7.03953	15.00000
	4.26613	4.31658	4.17770													

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Compound	0.5000000	1.0000	5.0000	10.0000	20.0000	40.0000	Old	New	Crv	Wt	Factor	b	Coefficients	m1	m2	%RSD	Max %RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv	Crv	Org							or R ²	or R ²
	80.0000	120.0000	200.0000														
	Level 7	Level 8	Level 9														
62 Ethylbenzene	+++++	5.60339	6.21871	6.63908	6.36166	7.14359	AVG	AVG	N\A	N\A			6.70721			9.19192	15.00000
	7.26118	7.39742	7.03262														
63 1,1,1,2-Tetrachloroethane	+++++	3952	24280	57017	116534	277822	LNIR	LNIR	NO	N\A		0.03876	1.44433			0.99948	0.99000
	666569	1142278	2020295														
64 mcp-Xylene	+++++	3.82379	4.65982	5.10150	4.87578	5.60096	AVG	AVG	N\A	N\A			5.07895			13.81556	15.00000
	5.76115	5.72963	+++++														
65 o-Xylene	+++++	3.85613	4.54985	5.06745	4.91615	5.65072	AVG	AVG	N\A	N\A			5.13851			13.20430	15.00000
	5.71144	5.72297	5.63333														
66 Styrene	+++++	12347	80244	197174	391846	936342	LNIR	LNIR	NO	N\A		0.01826	4.57905			0.99946	0.99000
	2142327	3646670	6417815														
67 Bromoform	+++++	1224	8356	22464	47431	134634	LNIR	LNIR	NO	N\A		0.14282	0.89283			0.99783	0.99000
	372319	671538	1241302														

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Compound	0.5000000	1.0000	5.0000	10.0000	20.0000	40.0000	Old	New	Crv	Wt	Factor	b	Coefficients	m1	m2	%RSD	Max	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv	Crv	Org							or R ²		or R ²
	80.0000	120.0000	200.0000															
	Level 7	Level 8	Level 9															
68 Isopropylbenzene (cumene)	++++	4.58044	5.77444	6.30306	6.13801	7.06120	AVG	AVG	N/A				6.35165			13.70173	15.00000	
	7.11996	7.07299	6.76314															
69 Bromobenzene	++++	2.36884	2.42020	2.67087	2.55207	2.87009	AVG	AVG	N/A				2.74596			10.31950	15.00000	
	2.93040	3.10109	3.05414															
70 1,1,2,2-Tetrachloroethane	1.34805	1.29663	1.39597	1.57283	1.40099	1.58707	AVG	AVG	N/A				1.46420			7.55442	15.00000	
	1.44592	1.56926	1.56110															
71 n-Propylbenzene	++++	5.91563	6.97784	7.75232	7.42697	8.41751	AVG	AVG	N/A				7.73569			12.32316	15.00000	
	8.25921	8.92453	8.21149															
72 1,2,3-Trichloropropane	1.37386	1.18158	1.09145	1.57408	1.53087	1.53840	AVG	AVG	N/A				1.40924			12.19061	15.00000	
	1.36742	1.50263	1.52291															
73 trans 1,4-Dichloro-2-butene	++++	948	4822	11961	25164	65429	LN	LN	LN				0.51617			0.99251	0.99000	
	198219	354979	701684															

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Compound	0.5000000 1.0000 5.0000 10.0000 20.0000 40.0000									Old/New		WtFac	b	Coefficients		%RSD or R ²	Max or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	CIV	CIV	Org	CIV	Org			m1	m2		
170 cis-1,4-dichloro-2-butene	++++ 202383	894 354515	4474 709430	11020	23465	61554	AVG	LNR	NO	N/A	0.21749	0.52269	0.99175	0.000e+00		11.43779	15.00000
74 2-Chlorotoluene	++++ 4.73319	3.58809 5.09838	4.07553 4.99093	4.48442	4.23138	4.85001	AVG	AVG	N/A	N/A		4.50649				14.57250	15.00000
75 1,3,5-Trimethylbenzene	++++ 5.63311	3.71948 6.08907	4.76930 5.92602	5.25320	5.01684	5.67128	AVG	AVG	N/A	N/A		5.25979				11.43779	15.00000
76 4-Chlorotoluene	++++ 4.73319	3.58809 5.09838	4.07553 4.99093	4.48442	4.23138	4.85001	AVG	AVG	N/A	N/A		4.50649				14.57250	15.00000
77 tert-Butylbenzene	++++ 5.44910	3.60488 5.44910	4.37709 5.44910	4.85003	4.71369	5.42986	AVG	AVG	N/A	N/A		4.73744				14.65991	15.00000
78 1,2,4-Trimethylbenzene	++++ 5.53724	3.64709 5.85648	4.62600 5.67263	5.26609	5.02285	5.64409	AVG	AVG	N/A	N/A		5.15906				14.14672	15.00000

Report Date : 21-Aug-2013 15:27

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Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:08
End Cal Date : 25-JUL-2013 09:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \3smsv3.i\130724ICAL.b\8260-3-130724.m
Last Edit : 25-Jul-2013 10:05 skaneyama

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.500000 1.0000 5.0000 10.0000 20.0000 40.0000						Old New Crv WtFactor			b	Coefficients		%RSD or R ²	Max %RSD or R ²	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv	Crv	Orf		m1	m2			
79 Pentachloroethane	++++	2103	13007	31219	65008	162657	INR	INR	NO	N/A	0.12175	1.02109	0.99793	0.99000	0
	440042	749446	1385304												
80 sec-Butylbenzene	++++	4.19216	5.30671	5.99030	5.68598	6.41842	AVG	AVG	N/A	N/A		5.84683	13.47445	15.00000	0
	6.25494	6.56593	6.35623												
81 p-Isopropyltoluene	++++	14384	98015	238016	475311	1139075	INR	INR	NO	N/A	0.03089	5.58053	0.99953	0.99000	0
	2604261	4302217	7600047												
82 1,3-Dichlorobenzene	++++	2.51906	2.79039	3.03055	2.86197	3.15517	AVG	AVG	N/A	N/A		2.97021	7.79179	15.00000	0
	3.07671	3.20334	3.12445												
83 1,4-Dichlorobenzene	++++	2.65590	2.90482	3.08836	2.84767	3.21496	AVG	AVG	N/A	N/A		3.04285	7.18865	15.00000	0
	3.12249	3.27162	3.23696												
84 1,2,3-Trimethylbenzene	1.78219	1.72066	2.01440	2.16818	2.04527	2.36242	AVG	AVG	N/A	N/A		2.16827	13.70239	15.00000	0
	2.47057	2.48609	2.46470												

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:08
End Cal Date : 25-JUL-2013 09:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \3msv3.1\130724ICAL.b\8260-3-130724.m
Last Edit : 25-Jul-2013 10:05 skaneyama

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.5000000	1.0000	5.0000	10.0000	20.0000	40.0000	Old	New	Criv	Org	WtFactor	b	Coefficients	m1	m2	%RSD	Max	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Criv	Criv								or R ²	or R ²	
	80.0000	120.0000	200.0000															
	Level 7	Level 8	Level 9															
85 n-Butylbenzene	+++++	12260	81966	195304	392111	948614	INR	INR	NO	N/A	0.03239	4.63430				0.99974	0.990000	
	2171603	3536509	6327411															
86 1,2-Dichlorobenzene	+++++	2.13579	2.33418	2.58955	2.38631	2.70884	AVG	AVG	N/A	N/A		2.51204				8.15762	15.00000	
	2.61439	2.70705	2.62023															
87 1,2-Dibromo-3-Chloropropane	+++++	602	2557	7914	14520	41801	INR	INR	NO	N/A	0.13319	0.22822				0.99425	0.99000	
	86603	163724	313280															
88 1,2,4-Trichlorobenzene	+++++	0.61496	0.68384	0.80373	0.73526	0.91503	AVG	AVG	N/A	N/A		0.80337				14.43021	15.00000	
	0.84449	0.89680	0.93283															
89 Hexachloro-1,3-butadiene	+++++	0.31043	0.32323	0.39373	0.35107	0.40273	AVG	AVG	N/A	N/A		0.37729				11.58461	15.00000	
	0.41928	0.39145	0.42639															
90 Naphthalene	+++++	4817	26519	80333	145712	421529	INR	INR	NO	N/A	0.12629	2.17821				0.99285	0.99000	
	806218	1562851	2998051															

Report Date : 21-Aug-2013 15:27

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Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:08
End Cal Date : 25-JUL-2013 09:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \3msv3.1\130724ICAL.b\8260-3-130724.m
Last Edit : 25-Jul-2013 10:05 skaneyama

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.500000	1.0000	5.0000	10.0000	20.0000	40.0000	Old	New	CrV	CrV	Org	WtFactor	b	Coefficients	m1	m2	%RSD	Max	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	CrV	CrV	CrV	CrV	Org						or R ²		or R ²
	80.0000	120.0000	200.0000																
	Level 7	Level 8	Level 9																
91 1,2,3-Trichlorobenzene	++++	1584	9327	25707	42945	120204	INR	INR	NO	N/A	0.09401	0.59187	0.59484	0.990000					
	236303	418692	822274																
4 Dibromofluoromethane (S)	0.26687	0.26698	0.27378	0.27006	0.27825	0.27487	AVG	AVG	N/A	N/A				0.27260			1.27782	15.00000	0
	0.27344	0.27222	0.27491																
5 1,2-Dichloroethane-d4 (S)	0.28561	0.28654	0.30240	0.29781	0.30171	0.29119	AVG	AVG	N/A	N/A				0.30567			6.41034	15.00000	0
	0.31626	0.32468	0.34481																
6 Toluene-d8 (S)	0.94878	0.95810	0.97468	0.96777	0.97891	0.98004	AVG	AVG	N/A	N/A				0.96916			1.30374	15.00000	0
	0.98896	0.96531	0.95985																
7 4-Bromofluorobenzene (S)	0.75657	0.77492	0.77208	0.78474	0.78517	0.78781	AVG	AVG	N/A	N/A				0.77491			2.46115	15.00000	0
	0.80855	0.75620	0.74816																

Report Date : 21-Aug-2013 15:27

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:08
End Cal Date : 25-JUL-2013 09:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \3msv3.1\130724ICAL.b\8260-3-130724.m
Last Edit : 25-Jul-2013 10:05 skaneyama

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Average %RSD Results.	
Calculated Average %RSD =	11.73187
Maximum Average %RSD =	15.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Resp/ml	Response
Linear	Amt = b + Resp/ml	Response
Quad	Amt = b + ml*Resp + m2*Resp^2	Response

Note: W = Failed %RSD Value.
X = Failed R^2 Value.
Y = Failed Minimum RF.
O = Kept original curve.
D = Curve replaced with the default curve option.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35msv3.i Injection Date: 25-JUL-2013 10:45
Lab File ID: 0725009.D Init. Cal. Date(s): 24-JUL-2013 25-JUL-2013
Analysis Type: WATER Init. Cal. Times: 14:08 09:08
Lab Sample ID: ICV Quant Type: ISTD
Method: \\35Wintarget\chem\35msv3.i\130725.b\8260-3-130724.m

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
4 Dibromofluoromethane (S)	0.27260	0.27138	0.27138	0.010	-0.44598	20.00000	Averaged
5 1,2-Dichloroethane-d4 (S)	0.30567	0.29878	0.29878	0.010	-2.25363	20.00000	Averaged
6 Toluene-d8 (S)	0.96916	0.97909	0.97909	0.010	1.02504	20.00000	Averaged
7 4-Bromofluorobenzene (S)	0.77491	0.80623	0.80623	0.010	4.04188	20.00000	Averaged
8 Dichlorodifluoromethane	0.49731	0.54087	0.54087	0.100	8.75953	20.00000	Averaged
9 Chloromethane	0.37244	0.37622	0.37622	0.100	1.01333	20.00000	Averaged
10 Vinyl Chloride	20.00000	18.11438	0.56619	0.100	-9.42811	20.00000	Linear
11 Bromomethane	20.00000	15.23543	0.05664	0.100	-23.82286	20.00000	Quadratic <-
12 Chloroethane	0.41987	0.42225	0.42225	0.100	0.56603	20.00000	Averaged
13 Trichlorofluoromethane	0.85039	0.84162	0.84162	0.100	-1.03118	20.00000	Averaged
14 Ethanol	0.00168	0.00093	0.00093	0.100	-44.51084	20.00000	Averaged <-
158 Ethyl Ether	0.36772	0.31014	0.31014	0.010	-15.66073	20.00000	Averaged
15 1,1,2-Trichlorotrifluoroeth	0.48320	0.39031	0.39031	0.100	-19.22270	20.00000	Averaged
16 Acrolein	0.07408	0.07236	0.07236	0.100	-2.31266	20.00000	Averaged <-
17 1,1-Dichloroethene	0.80579	0.84378	0.84378	0.100	4.71406	20.00000	Averaged
18 Acetone	20.00000	19.34176	0.33925	0.100	-3.29118	20.00000	Linear
19 Iodomethane	20.00000	12.75103	0.12058	0.100	-36.24483	20.00000	Quadratic <-
20 Carbon Disulfide	1.52208	0.92983	0.92983	0.100	-38.91081	20.00000	Averaged <-
21 Allyl chloride	0.75988	0.70537	0.70537	0.100	-7.17386	20.00000	Averaged
22 Acetonitrile	0.05554	0.05305	0.05305	0.100	-4.48276	20.00000	Averaged <-
23 Methylene Chloride	0.75983	0.81916	0.81916	0.100	7.80861	20.00000	Averaged
159 tert-Butyl Alcohol	0.32347	0.29724	0.29724	0.010	-8.11059	20.00000	Averaged
24 Methyl-tert-butyl Ether	1.67688	1.60620	1.60620	0.100	-4.21476	20.00000	Averaged
25 trans-1,2-Dichloroethene	0.84178	0.84208	0.84208	0.100	0.03491	20.00000	Averaged
165 methyl Acetate	20.00000	20.04213	0.42124	0.010	0.21067	20.00000	Linear
26 Acrylonitrile	0.19593	0.18538	0.18538	0.100	-5.38521	20.00000	Averaged
164 n-hexane	1.24352	1.07156	1.07156	0.010	-13.82808	20.00000	Averaged
162 Diisopropyl ether	1.93960	1.69524	1.69524	0.010	-12.59872	20.00000	Averaged
27 1,1-Dichloroethane	0.98886	0.94827	0.94827	0.100	-4.10493	20.00000	Averaged
28 Vinyl Acetate	2.65031	2.34636	2.34636	0.100	-11.46872	20.00000	Averaged
29 Chloroprene	0.86729	0.71243	0.71243	0.010	-17.85562	20.00000	Averaged
166 Ethyl-tert-butyl ether	3.23475	2.97239	2.97239	0.010	-8.11059	20.00000	Averaged
30 2,2-Dichloropropane	0.74724	0.70913	0.70913	0.100	-5.10039	20.00000	Averaged
31 cis-1,2-Dichloroethene	0.69737	0.69131	0.69131	0.100	-0.86838	20.00000	Averaged
161 Ethyl Acetate	0.51258	0.47802	0.47802	0.010	-6.74181	20.00000	Averaged
32 2-Butanone	0.46787	0.46166	0.46166	0.100	-1.32736	20.00000	Averaged
33 Propionitrile	0.07904	0.07701	0.07701	0.100	-2.56616	20.00000	Averaged <-
34 Bromochloromethane	0.31334	0.31754	0.31754	0.100	1.34179	20.00000	Averaged
167 Tetrahydrofuran	0.14957	0.14687	0.14687	0.010	-1.79930	20.00000	Averaged
35 Methacrylonitrile	0.38113	0.36840	0.36840	0.100	-3.34110	20.00000	Averaged
36 Chloroform	0.87129	0.88127	0.88127	0.100	1.14483	20.00000	Averaged
172 tert-Butyl Formate	0.64695	0.59448	0.59448	0.010	-8.11059	20.00000	Averaged

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35msv3.i Injection Date: 25-JUL-2013 10:45
Lab File ID: 0725009.D Init. Cal. Date(s): 24-JUL-2013 25-JUL-2013
Analysis Type: WATER Init. Cal. Times: 14:08 09:08
Lab Sample ID: ICV Quant Type: ISTD
Method: \\35Wintarget\chem\35msv3.i\130725.b\8260-3-130724.m

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
171 cyclohexane	0.86312	0.72293	0.72293	0.010	-16.24241	20.00000	Averaged
37 1,1,1-Trichloroethane	0.79020	0.78520	0.78520	0.100	-0.63200	20.00000	Averaged
38 Carbon Tetrachloride	20.00000	19.80569	0.59451	0.100	-0.97157	20.00000	Linear
39 1,1-Dichloropropene	0.66499	0.71779	0.71779	0.100	7.93941	20.00000	Averaged
40 Isobutyl alcohol	400	470	0.02213	0.100	17.54113	20.00000	Quadratic
41 Benzene	2.06360	2.09334	2.09334	0.100	1.44096	20.00000	Averaged
163 tert-amyl Alcohol	400	467	0.04211	0.010	16.80815	20.00000	Quadratic
169 tert-amyl methyl ether	3.18410	3.05944	3.05944	0.010	-3.91512	20.00000	Averaged
42 1,2-Dichloroethane	0.73910	0.69336	0.69336	0.100	-6.18801	20.00000	Averaged
43 Trichloroethene	0.62036	0.61511	0.61511	0.010	-0.84552	20.00000	Averaged
168 Methylcyclohexane	0.86264	0.84618	0.84618	0.010	-1.90836	20.00000	Averaged
44 1,2-Dichloropropane	0.53784	0.53763	0.53763	0.100	-0.03852	20.00000	Averaged
45 Methyl methacrylate	0.35920	0.38126	0.38126	0.010	6.13995	20.00000	Averaged
46 1,4-Dioxane	0.00249	++++	++++	0.010	++++	20.00000	Averaged
47 Dibromomethane	0.36541	0.37799	0.37799	0.010	3.44374	20.00000	Averaged
48 Bromodichloromethane	20.00000	18.59960	0.59849	0.010	-7.00198	20.00000	Linear
49 2-Chloroethyl Vinyl Ether	20.00000	19.94753	0.55112	0.010	-0.26234	20.00000	Quadratic
50 cis-1,3-Dichloropropene	20.00000	17.62150	0.76755	0.010	-11.89251	20.00000	Quadratic
51 4-Methyl-2-Pentanone	2.61300	2.70505	2.70505	0.010	3.52271	20.00000	Averaged
52 Toluene	5.56709	5.65377	5.65377	0.100	1.55696	20.00000	Averaged
53 trans-1,3-Dichloropropene	20.00000	19.13659	1.86320	0.010	-4.31703	20.00000	Linear
54 Ethyl methacrylate	1.20006	1.22710	1.22710	0.010	2.25378	20.00000	Averaged
55 1,1,2-Trichloroethane	1.19356	1.14221	1.14221	0.010	-4.30188	20.00000	Averaged
56 Tetrachloroethene	1.61997	1.72849	1.72849	0.010	6.69845	20.00000	Averaged
57 1,3-Dichloropropane	1.98894	2.06244	2.06244	0.010	3.69526	20.00000	Averaged
58 2-Hexanone	20.00000	20.65743	2.31072	0.010	3.28713	20.00000	Linear
59 Dibromochloromethane	20.00000	18.24664	1.03801	0.010	-8.76682	20.00000	Linear
160 3,3-dimethyl-1-butanol	400	469	0.12611	0.010	17.34635	20.00000	Quadratic
60 1,2-Dibromoethane	1.20190	1.22709	1.22709	0.010	2.09590	20.00000	Averaged
61 Chlorobenzene	4.02983	4.01486	4.01486	0.300	-0.37149	20.00000	Averaged
62 Ethylbenzene	6.70721	6.70621	6.70621	0.100	-0.01478	20.00000	Averaged
63 1,1,1,2-Tetrachloroethane	20.00000	18.61001	1.23198	0.010	-6.94997	20.00000	Linear
64 m&p-Xylene	5.07895	5.15257	5.15257	0.010	1.44964	20.00000	Averaged
65 o-Xylene	5.13851	5.04531	5.04531	0.010	-1.81371	20.00000	Averaged
66 Styrene	20.00000	18.66389	4.10589	0.010	-6.68055	20.00000	Linear
67 Bromoform	20.00000	18.48316	0.57009	0.100	-7.58421	20.00000	Linear
68 Isopropylbenzene (cumene)	6.35165	5.87002	5.87002	0.010	-7.58281	20.00000	Averaged
69 Bromobenzene	2.74596	2.68028	2.68028	0.010	-2.39199	20.00000	Averaged
70 1,1,2,2-Tetrachloroethane	1.46420	1.42391	1.42391	0.300	-2.75210	20.00000	Averaged
71 n-Propylbenzene	7.73569	7.51414	7.51414	0.010	-2.86391	20.00000	Averaged
72 1,2,3-Trichloropropane	1.40924	1.34761	1.34761	0.010	-4.37329	20.00000	Averaged
73 trans 1,4-Dichloro-2-butene	20.00000	20.65710	0.32279	0.010	3.28552	20.00000	Linear

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35msv3.i Injection Date: 25-JUL-2013 10:45
Lab File ID: 0725009.D Init. Cal. Date(s): 24-JUL-2013 25-JUL-2013
Analysis Type: WATER Init. Cal. Times: 14:08 09:08
Lab Sample ID: ICV Quant Type: ISTD
Method: \\35Wintarget\chem\35msv3.i\130725.b\8260-3-130724.m

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
170 cis-1,4-dichloro-2-butene	20.00000	20.76291	0.31527	0.010	3.81453	20.00000	Linear
74 2-Chlorotoluene	4.50649	4.55121	4.55121	0.010	0.99231	20.00000	Averaged
75 1,3,5-Trimethylbenzene	5.25979	5.16204	5.16204	0.010	-1.85840	20.00000	Averaged
76 4-Chlorotoluene	4.50649	4.55121	4.55121	0.010	0.99231	20.00000	Averaged
77 tert-Butylbenzene	4.73744	4.89648	4.89648	0.010	3.35691	20.00000	Averaged
78 1,2,4-Trimethylbenzene	5.15906	5.17217	5.17217	0.010	0.25414	20.00000	Averaged
79 Pentachloroethane	20.00000	18.51462	0.69663	0.010	-7.42689	20.00000	Linear
80 sec-Butylbenzene	5.84683	5.89533	5.89533	0.010	0.82940	20.00000	Averaged
81 p-Isopropyltoluene	20.00000	19.62500	5.13116	0.010	-1.87498	20.00000	Linear
82 1,3-Dichlorobenzene	2.97021	2.91647	2.91647	0.010	-1.80927	20.00000	Averaged
83 1,4-Dichlorobenzene	3.04285	2.88959	2.88959	0.010	-5.03672	20.00000	Averaged
84 1,2,3-Trimethylbenzene	2.16827	2.25172	2.25172	0.010	3.84847	20.00000	Averaged
85 n-Butylbenzene	20.00000	18.59623	4.00886	0.010	-7.01887	20.00000	Linear
86 1,2-Dichlorobenzene	2.51204	2.46161	2.46161	0.010	-2.00786	20.00000	Averaged
87 1,2-Dibromo-3-Chloropropane	20.00000	18.96541	0.15562	0.010	-5.17296	20.00000	Linear
88 1,2,4-Trichlorobenzene	0.80337	0.79013	0.79013	0.010	-1.64775	20.00000	Averaged
89 Hexachloro-1,3-butadiene	0.37729	0.40653	0.40653	0.010	7.74953	20.00000	Averaged
90 Naphthalene	20.00000	19.37435	1.55991	0.010	-3.12826	20.00000	Linear
91 1,2,3-Trichlorobenzene	20.00000	20.01574	0.48105	0.010	0.07872	20.00000	Linear

Average %D / Drift Results.

Calculated Average %D/Drift = 6.10835
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.



EPA 624 & SW-846 8260B GC/MS Volatile Data Checklist

Analytical Methods

Instrument ID: 35MSV3

Analysis Date:

8/26/13

EPA 624 & SW-846 8260B

Run Set Up by:

Run Processed by:

SL

Instrument Setup/Run Parameters are located in the most current version of the method SOP

☒ 8260B Water☐ 8260B Soils☐ 260B TCLP☐ EPA 624 Water

Analytical Batch/HBN #

9340

Analytical Batch/HBN #

9341

Standard Traceability

Standards

Trace Number

Expiration Date

Concentration

Primary Calibration Mix 1

1-70

8/29/2013

200ug/mL

Primary Calibration Mix 2

2-55

12/14/2013

200ug/mL

Primary Calibration Mix 3

3-66

9/29/2013

Varied

Primary Calibration Mix 4

4-71

8/22/2013

2mg/mL

ICV/CCV/LCS/MS (2nd Source) Mix 1

680-68

8/27/2013

200ug/mL

ICV/CCV/LCS/MS (2nd Source) Mix 2

685-56

12/14/2013

200ug/mL

ICV/CCV/LCS/MS (2nd Source) Mix 3

686-66

9/29/2013

Varied

ICV/CCV/LCS/MS (2nd Source) Mix 4

687-69

8/22/2013

2mg/mL

Internal STD / Surrogate STD

6-147

2/10/2014

40ug/mL

☒ YES ☐ NO BFB Tune - Was BFB tune criteria demonstrated and met every 12 hours for 8260 and every 24 hours for 624?

Exceptions/Comments:

☒ YES ☐ NO Initial Calibration (ICAL) - within criteria, verified by a peer and/or included in this package for review. If using a previous curve, include reference to approval.

ICAL ID: 8260-3-130724.m

Date Created:

7/24/2013

Calibration Exceptions/Comments: Ethanol failed curve fit. 1,4-Dioxane not calibrated (low responses)

☒ YES ☐ NO System Performance Check Compounds (SPCCs) - Did the SPCCs meet the minimum response factors?

Exceptions/Comments:

☒ YES ☐ NO Calibration Check Compounds (CCCs) - Were the CCCs performed and within control, <30%RSD?

Exceptions/Comments:

☒ YES ☐ NO **Initial Calibration Verification (ICV)** - Was the ICV performed after the calibration? Percent Difference $\pm 30\%$.

Exceptions/Comments: Iodomethane and Carbon Disulfide F.L.

☒ YES ☐ NO **Continuing Calibration Verification (CCV/CCAL)** - Was CCV ran at the beginning of every run and every 12 hours during run? Was the SPCC and CCCs within acceptance limits? Correct ICAL associated with CCALs? If CCAL criteria were not met, list outliers, explain why samples were analyzed and impact on reported results. Also, corrective actions taken to bring into compliance.

Comments:

☒ YES ☐ NO **Hold Time** - Were samples analyzed within method required holding times? 14 day hold time for preserved samples. 7 day hold time for unpreserved samples. 14 day hold time for soil samples.

Comments:

☒ YES ☐ NO **Method Blank (MB)** - Prior to sample analysis, was Method Blank (MB) prepared and analyzed with associated samples? >>Were all target analytes at or below the reporting limits? >>>If not, were samples reanalyzed, reprepared or qualified accordingly?

Comments:

☒ YES ☐ NO **Laboratory Control Sample (LCS)** - Percent recovery of each compound in the LCS with control limits? If not, were samples reanalyzed, reprepared or qualified accordingly?

Comments:

☐ 1° Standard Used

☒ 2° Standard Used

☒ YES ☐ NO **Matrix Spike/Matrix Spike Duplicate (MS/MSD)** - performed with every 20 samples? Were percent recoveries and RPDs within control limits? If not, list the compounds, corrective action and discuss impact on data with appropriate qualifiers?

Comments:

☒ YES ☐ NO **Surrogates Spikes (SS)** - Percent recovery of each surrogate compounds within $\pm 30\%$? If surrogate outside limits, was sample reanalyzed? List outliers, any corrective action and discuss impact on data

Comments:

☒ YES ☐ NO **Internal Standards (IS)** - All samples met internal standard criteria of 50% - 200%? If not, list outliers, discuss impact on data and note if sample was reanalyzed.

Comments:

☐ YES ☐ NO Manual Integrations performed?

☐ YES ☐ NO If so, then are ALL Manual Integrations identified with the reason for the integration according to the following:

NI: not Integrated by software

GT: too much area, i.e. Peak tailing

CO: coeluting peaks had to be split

RT: retention time shifted from expected

Explain any other integrations issues here:

LT: too little area, i.e. Peak area was cut

BA: baseline had to be adjusted by analyst

WP: wrong peak chosen i.e. misidentified by computer

INT: electronic interference, i.e. Noise

ADDITIONAL COMMENTS:

"To the best of my knowledge all of the above information is correct and all supporting documentaion has been provided."

ANALYST: [Signature] DATE: 8/12/13 REVIEWER: [Signature] DATE: 8/12/13

CALIBRATION

Calibration Metric	Parameter / Frequency	Criteria	Comments
BFB Tune	8260 - every 12 hours every 24 hours	624 - See most current method SOP	If not met, recalibrate and repeat.
Calibration Curve Fit	Average Response Factor	%RSD $\leq$ 15%	If not met, try linear regression fit
	Linear Regression	$r^2 \geq 0.990$	If not met, try non-linear regression fit
	Quadratic	COD ≥ 0.990	If not met, remake standards and recalibrate
System Performance	Chloromethane	Avg RF ≥ 0.10	Some possible problems are standard mixture degradation, injection port inlet contamination, contamination at the front end of the analytical column, poor purging efficiency, and active sites in the column or chromatographic system.
Check Compounds (SPCCs)	1,1-Dichloroethane	Avg RF ≥ 0.10	
	Bromoform	Avg RF ≥ 0.10	
	Chlorobenzene	Avg RF ≥ 0.30	
	1,1,2,2-Tetrachloroethane	Avg RF ≥ 0.30	
Calibration Check Compounds (CCC's)	1,1-Dichloroethane	%RSD $< 30\%$	%RSD for the calibration check compounds (CCC's) must be $\leq 30\%$ regardless of curve fit used. If the CCCs are not included on a list of analytes for a project, and therefore not included in the calibration
	Toluene		
	Chloroform		
	Ethylbenzene		standards, then all compounds of interest must meet a $\leq 15\%$ RSD criterion.
	1,2-Dichloropropane		
	Vinyl Chloride		

METHOD CRITERIA

Initial Calibration Verification (ICV) - Second Source STD	Immediately after each initial calibration	% Diff $\pm 30\%$	Acceptance criteria are $\pm 30\%$ for all analytes
Continuing Calibration Verification (CCV) or CCAL	Prior to the analysis of any samples and every 12 hours thereafter		Only 2 injections of a CCV are permitted. If both fail, the analysis must be terminated.
SPCCs	Must meet response criteria listed above		
Internal Standard RT	RT ± 30 sec		Use midpoint calibration standard as reference
Internal Standard Response	50 – 200%		Use midpoint calibration standard as reference
CCCs	RF $\pm 20\%$ Diff.		Use for Avg RF calibration curves
	Result $\pm 20\%$ Drift		Use for linear and non-linear calibration curves

BATCH CRITERIA

QA Sample	Components	Frequency	Acceptance Criteria	Corrective Action
Method Blank (MB)	Reagent water	One (1) per 20 samples or 12 hour window (whichever is most frequent)	1) Target analytes must be less than reporting limit. 2) If results are reported to MDL, target analytes in MB should be non-detect	1) Re-analyze associated samples. <u>Exceptions:</u> 1) If sample ND, report sample without qualification 2) If sample result $>10\times$ MB detects and sample cannot be reanalyzed, report sample with appropriate qualifier indicating blank contamination. 3) If sample result $<10\times$ MB detects, report sample with appropriate qualifier to indicate an estimated value. Client must be alerted and authorize this condition.
Laboratory Control Sample (LCS)	Full Target List compounds	One (1) per batch of up to 20 samples	8260---Laboratory derived limits: 624-Method defined Limits <u>Full Target List:</u> Marginal exceedances allowed according to NELAC 2003 Chap 5 D.1.1.2.1.e	1) Analyze a new LCS 2) If problem persists, check spike solution 3) Perform system maintenance prior to new LCS run <u>Exceptions:</u> 1) If LCS rec $>$ QC limits and these compounds are non-detect in the associated samples, the sample data may be reported with appropriate data qualifiers.
Matrix Spike (MS)	Method specified compounds: Benzene, Chlorobenzene, 1,1-Dichloroethene, Toluene, Trichloroethene <u>OR (alternative)</u> Full Target List compounds	One (1) per batch of up to 20 samples, must include one TCLP MS for any analyzed in sequence	8260 = Laboratory derived limits; 624=Method defined limits	1) If LCS and MBs are acceptable, the MS/MSD chromatogram should be reviewed and it may be reported with appropriate footnote indicating matrix interferences
MSD / Duplicate	MS Duplicate or Sample Duplicate	One (1) for every 5% of all environmental samples	Same as for MS	1) Report results with an appropriate footnote.

Date : 11-AUG-2013 15:34

Client ID:

Instrument: 35msv3.i

Sample Info: CCB

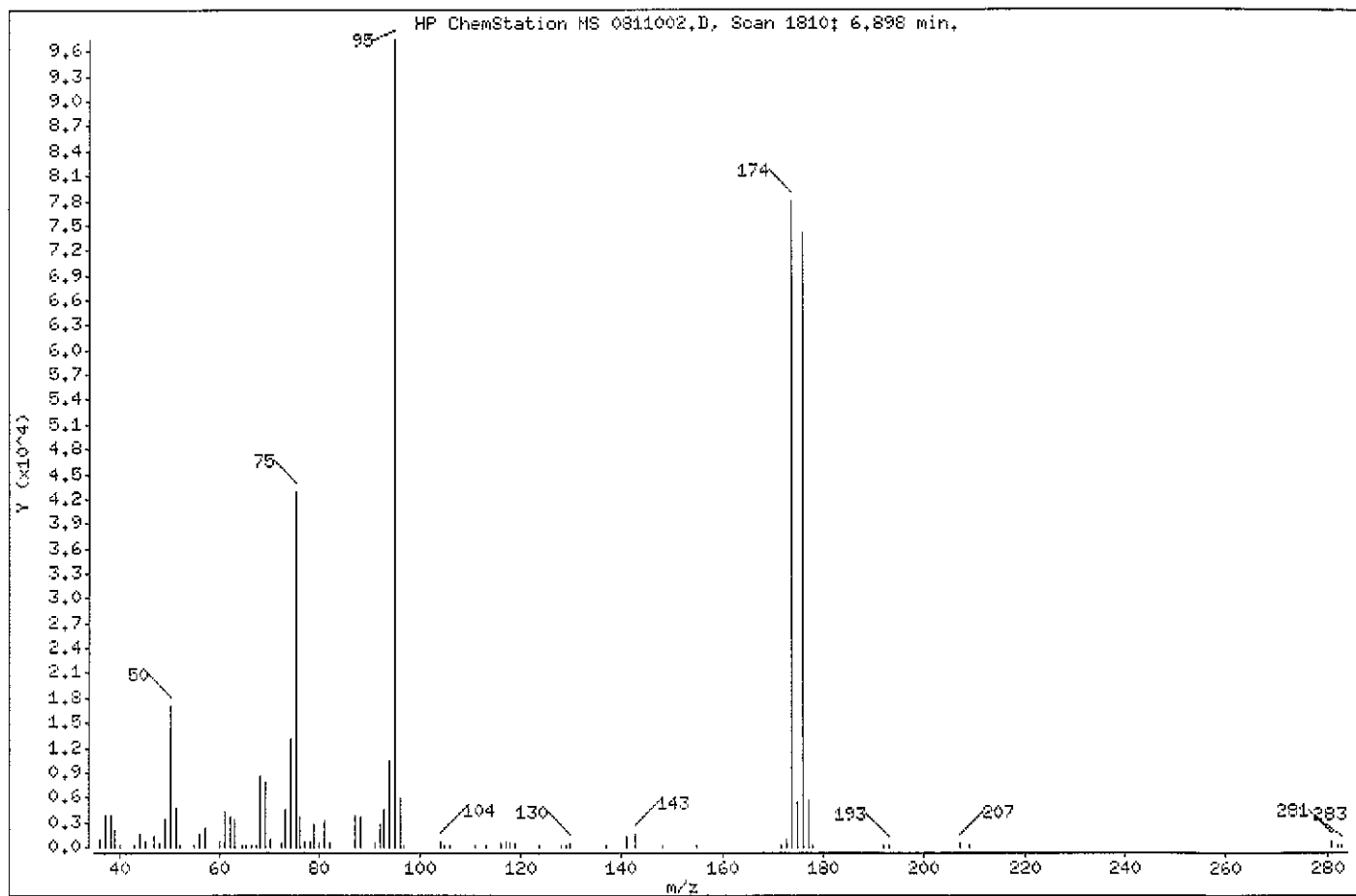
Volume Injected (uL): 1.0

Operator: RGF

Column phase:

Column diameter: 2.00

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.50
75	30.00 - 60.00% of mass 95	43.99
96	5.00 - 9.00% of mass 95	5.89
173	Less than 2.00% of mass 174	0.89 (1.11)
174	50.00 - 200.00% of mass 95	79.95
175	5.00 - 9.00% of mass 174	5.62 (7.03)
176	95.00 - 101.00% of mass 174	75.96 (95.01)
177	5.00 - 9.00% of mass 176	5.71 (7.52)

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35msv3.i Injection Date: 11-AUG-2013 15:58
Lab File ID: 0811003.D Init. Cal. Date(s): 24-JUL-2013 25-JUL-2013
Analysis Type: WATER Init. Cal. Times: 14:08 09:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 4 Dibromofluoromethane (S)	0.27260	0.25178	0.25178	0.010	-7.63568	20.00000	Averaged
\$ 5 1,2-Dichloroethane-d4 (S)	0.30567	0.26661	0.26661	0.010	-12.77783	20.00000	Averaged
\$ 6 Toluene-d8 (S)	0.96916	0.89863	0.89863	0.010	-7.27650	20.00000	Averaged
\$ 7 4-Bromofluorobenzene (S)	0.77491	0.74751	0.74751	0.010	-3.53558	20.00000	Averaged
8 Dichlorodifluoromethane	0.49731	0.45461	0.45461	0.100	-8.58747	20.00000	Averaged
9 Chloromethane	0.37244	0.15096	0.15096	0.100	-59.46682	20.00000	Averaged<-
10 Vinyl Chloride	20.00000	19.17329	0.60418	0.100	-4.13356	20.00000	Linear
11 Bromomethane	20.00000	16.44963	0.06578	0.100	-17.75183	20.00000	Quadratic<-
12 Chloroethane	0.41987	0.36105	0.36105	0.100	-14.00958	20.00000	Averaged
13 Trichlorofluoromethane	0.85039	0.76799	0.76799	0.100	-9.68960	20.00000	Averaged
14 Ethanol	0.00168	0.00824	0.00824	0.100	391	20.00000	Averaged<-
158 Ethyl Ether	0.36772	0.32948	0.32948	0.010	-10.40124	20.00000	Averaged
15 1,1,2-Trichlorotrifluoroeth	0.48320	0.50639	0.50639	0.100	4.79954	20.00000	Averaged
16 Acrolein	0.07408	0.02367	0.02367	0.100	-68.04663	20.00000	Averaged<-
17 1,1-Dichloroethene	0.80579	0.83620	0.83620	0.100	3.77333	20.00000	Averaged
18 Acetone	20.00000	9.70544	0.16327	0.100	-51.47282	20.00000	Linear<-
19 Iodomethane	20.00000	19.39616	0.27375	0.100	-3.01921	20.00000	Quadratic
20 Carbon Disulfide	1.52208	1.54221	1.54221	0.100	1.32293	20.00000	Averaged
21 Allyl chloride	0.75988	0.79514	0.79514	0.100	4.64118	20.00000	Averaged
22 Acetonitrile	0.05554	0.01396	0.01396	0.100	-74.85384	20.00000	Averaged<-
23 Methylene Chloride	0.75983	0.77705	0.77705	0.100	2.26631	20.00000	Averaged
159 tert-Butyl Alcohol	0.32347	0.27641	0.27641	0.010	-14.54963	20.00000	Averaged
24 Methyl-tert-butyl Ether	1.67688	1.41531	1.41531	0.100	-15.59831	20.00000	Averaged
25 trans-1,2-Dichloroethene	0.84178	0.84917	0.84917	0.100	0.87795	20.00000	Averaged
165 methyl Acetate	20.00000	12.21454	0.24868	0.010	-38.92729	20.00000	Linear<-
26 Acrylonitrile	0.19593	0.12024	0.12024	0.100	-38.63065	20.00000	Averaged<-
164 n-hexane	1.24352	1.01240	1.01240	0.010	-18.58574	20.00000	Averaged
162 Diisopropyl ether	1.93960	1.43710	1.43710	0.010	-25.90779	20.00000	Averaged<-
27 1,1-Dichloroethane	0.98886	0.93801	0.93801	0.100	-5.14198	20.00000	Averaged
28 Vinyl Acetate	2.65031	2.26876	2.26876	0.100	-14.39649	20.00000	Averaged
29 Chloroprene	0.86729	0.67748	0.67748	0.010	-21.88559	20.00000	Averaged<-
166 Ethyl-tert-butyl ether	3.23475	2.76410	2.76410	0.010	-14.54963	20.00000	Averaged
30 2,2-Dichloropropane	0.74724	0.72652	0.72652	0.100	-2.77228	20.00000	Averaged
31 cis-1,2-Dichloroethene	0.69737	0.66909	0.66909	0.100	-4.05440	20.00000	Averaged
161 Ethyl Acetate	0.51258	0.34359	0.34359	0.010	-32.96858	20.00000	Averaged<-
32 2-Butanone	0.46787	0.23460	0.23460	0.100	-49.85799	20.00000	Averaged<-
33 Propionitrile	0.07904	0.03714	0.03714	0.100	-53.00537	20.00000	Averaged<-
34 Bromochloromethane	0.31334	0.31203	0.31203	0.100	-0.41636	20.00000	Averaged
167 Tetrahydrofuran	0.14957	0.10523	0.10523	0.010	-29.64576	20.00000	Averaged<-
35 Methacrylonitrile	0.38113	0.33545	0.33545	0.100	-11.98663	20.00000	Averaged
36 Chloroform	0.87129	0.86610	0.86610	0.100	-0.59623	20.00000	Averaged
172 tert-Butyl Formate	0.64695	0.55282	0.55282	0.010	-14.54963	20.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35msv3.i Injection Date: 11-AUG-2013 15:58
Lab File ID: 0811003.D Init. Cal. Date(s): 24-JUL-2013 25-JUL-2013
Analysis Type: WATER Init. Cal. Times: 14:08 09:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
171 cyclohexane	0.86312	0.77789	0.77789	0.010	-9.87533	20.00000	Averaged
37 1,1,1-Trichloroethane	0.79020	0.80878	0.80878	0.100	2.35176	20.00000	Averaged
38 Carbon Tetrachloride	20.00000	20.40942	0.61714	0.100	2.04709	20.00000	Linear
39 1,1-Dichloropropene	0.66499	0.67674	0.67674	0.100	1.76654	20.00000	Averaged
40 Isobutyl alcohol	400	993	0.04765	0.100	148	20.00000	Quadratic <-
41 Benzene	2.06360	2.08836	2.08836	0.100	1.19955	20.00000	Averaged
163 tert-amyl Alcohol	400	216	0.01866	0.010	-46.02323	20.00000	Quadratic <-
169 tert-amyl methyl ether	3.18410	2.86279	2.86279	0.010	-10.09097	20.00000	Averaged
42 1,2-Dichloroethane	0.73910	0.67858	0.67858	0.100	-8.18823	20.00000	Averaged
43 Trichloroethene	0.62036	0.59562	0.59562	0.010	-3.98730	20.00000	Averaged
168 Methylcyclohexane	0.86264	0.86406	0.86406	0.010	0.16434	20.00000	Averaged
44 1,2-Dichloropropane	0.53764	0.52710	0.52710	0.100	-1.99724	20.00000	Averaged
45 Methyl methacrylate	0.35920	0.30281	0.30281	0.010	-15.69864	20.00000	Averaged
46 1,4-Dioxane	0.00249	0.00003	0.00003	0.010	-98.93057	20.00000	Averaged <-
47 Dibromomethane	0.36541	0.34400	0.34400	0.010	-5.86002	20.00000	Averaged
48 Bromodichloromethane	20.00000	18.85678	0.60779	0.010	-5.71609	20.00000	Linear
49 2-Chloroethyl Vinyl Ether	20.00000	21.54383	0.60150	0.010	7.71913	20.00000	Quadratic
50 cis-1,3-Dichloropropene	20.00000	16.26668	0.70183	0.010	-18.66662	20.00000	Quadratic
51 4-Methyl-2-Pentanone	2.61300	2.34890	2.34890	0.010	-10.10746	20.00000	Averaged
52 Toluene	5.56709	5.74202	5.74202	0.100	3.14216	20.00000	Averaged
53 trans-1,3-Dichloropropene	20.00000	18.35611	1.77788	0.010	-8.21944	20.00000	Linear
54 Ethyl methacrylate	1.20006	1.10682	1.10682	0.010	-7.76936	20.00000	Averaged
55 1,1,2-Trichloroethane	1.19356	1.19526	1.19526	0.010	0.14257	20.00000	Averaged
56 Tetrachloroethene	1.61997	1.70289	1.70289	0.010	5.11839	20.00000	Averaged
57 1,3-Dichloropropane	1.98894	1.97860	1.97860	0.010	-0.52003	20.00000	Averaged
58 2-Hexanone	20.00000	16.81576	1.75725	0.010	-15.92121	20.00000	Linear
59 Dibromochloromethane	20.00000	19.38989	1.11236	0.010	-3.05053	20.00000	Linear
160 3,3-dimethyl-1-butanol	400	257	0.06646	0.010	-35.76017	20.00000	Quadratic <-
60 1,2-Dibromoethane	1.20190	1.17087	1.17087	0.010	-2.58101	20.00000	Averaged
61 Chlorobenzene	4.02983	4.10474	4.10474	0.300	1.85906	20.00000	Averaged
62 Ethylbenzene	6.70721	6.80330	6.80330	0.100	1.43267	20.00000	Averaged
63 1,1,1,2-Tetrachloroethane	20.00000	19.06952	1.26517	0.010	-4.65239	20.00000	Linear
64 m&p-Xylene	5.07895	5.32267	5.32267	0.010	4.79868	20.00000	Averaged
65 o-Xylene	5.13851	4.97751	4.97751	0.010	-3.13306	20.00000	Averaged
66 Styrene	20.00000	18.81198	4.13980	0.010	-5.94010	20.00000	Linear
67 Bromoform	20.00000	20.13512	0.64384	0.100	0.67561	20.00000	Linear
68 Isopropylbenzene (cumene)	6.35165	6.30599	6.30599	0.010	-0.71897	20.00000	Averaged
69 Bromobenzene	2.74596	2.51715	2.51715	0.010	-8.33273	20.00000	Averaged
70 1,1,2,2-Tetrachloroethane	1.46420	1.29310	1.29310	0.300	-11.68585	20.00000	Averaged
71 n-Propylbenzene	7.73569	7.59111	7.59111	0.010	-1.86894	20.00000	Averaged
72 1,2,3-Trichloropropane	1.40924	1.44198	1.44198	0.010	2.32287	20.00000	Averaged
73 trans 1,4-Dichloro-2-butene	20.00000	16.52862	0.21624	0.010	-17.35690	20.00000	Linear

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35msv3.i Injection Date: 11-AUG-2013 15:58
Lab File ID: 0811003.D Init. Cal. Date(s): 24-JUL-2013 25-JUL-2013
Analysis Type: WATER Init. Cal. Times: 14:08 09:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m

COMPOUND	RRF / AMOUNT	RF20	CCAL RRF20	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
170 cis-1,4-dichloro-2-butene	20.00000	16.25047	0.19734	0.010	-18.74766	20.00000	Linear
74 2-Chlorotoluene	4.50649	4.32306	4.32306	0.010	-4.07039	20.00000	Averaged
75 1,3,5-Trimethylbenzene	5.25979	5.12081	5.12081	0.010	-2.64229	20.00000	Averaged
76 4-Chlorotoluene	4.50649	4.32306	4.32306	0.010	-4.07039	20.00000	Averaged
77 tert-Butylbenzene	4.73744	4.77997	4.77997	0.010	0.89768	20.00000	Averaged
78 1,2,4-Trimethylbenzene	5.15906	4.96797	4.96797	0.010	-3.70402	20.00000	Averaged
79 Pentachloroethane	20.00000	18.28208	0.68476	0.010	-8.58961	20.00000	Linear
80 sec-Butylbenzene	5.84683	5.94229	5.94229	0.010	1.63260	20.00000	Averaged
81 p-Isopropyltoluene	20.00000	19.09301	4.98272	0.010	-4.53496	20.00000	Linear
82 1,3-Dichlorobenzene	2.97021	2.74206	2.74206	0.010	-7.68124	20.00000	Averaged
83 1,4-Dichlorobenzene	3.04285	2.80812	2.80812	0.010	-7.71402	20.00000	Averaged
84 1,2,3-Trimethylbenzene	2.16827	2.13844	2.13844	0.010	-1.37597	20.00000	Averaged
85 n-Butylbenzene	20.00000	18.83916	4.06515	0.010	-5.80420	20.00000	Linear
86 1,2-Dichlorobenzene	2.51204	2.30989	2.30989	0.010	-8.04722	20.00000	Averaged
87 1,2-Dibromo-3-Chloropropane	20.00000	18.64469	0.15196	0.010	-6.77653	20.00000	Linear
88 1,2,4-Trichlorobenzene	0.80337	0.75823	0.75823	0.010	-5.61807	20.00000	Averaged
89 Hexachloro-1,3-butadiene	0.37729	0.41803	0.41803	0.010	10.79987	20.00000	Averaged
90 Naphthalene	20.00000	19.82190	1.60865	0.010	-0.89051	20.00000	Linear
91 1,2,3-Trichlorobenzene	20.00000	23.19107	0.57502	0.010	15.95537	20.00000	Linear

Average %D / Drift Results.

Calculated Average %D/Drift = 17.80577
Maximum Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130811.b\0811003.D
Lab Smp Id: CCV
Inj Date : 11-AUG-2013 15:58
Operator : RGF
Smp Info : CCV
Misc Info : ,,SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
Meth Date : 11-Aug-2013 17:04 bhardesty Quant Type: ISTD
Cal Date : 25-JUL-2013 09:08 Cal File: 0725005.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 35V4

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS			
		QUANT	SIG			CAL-AMT	ON-COL		
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE
=====		=====	=====	=====	=====	=====	=====	=====	=====
*	1 Fluorobenzene (I)	96	4.139	4.137	(1.000)	383603	40.0000		
*	2 Chlorobenzene-d5 (I)	82	6.074	6.072	(1.000)	155026	40.0000		
*	3 1,4-Dichlorobenzene-d4 (I)	152	7.701	7.699	(1.000)	166173	40.0000		
\$	4 Dibromofluoromethane (S)	111	3.664	3.663	(0.885)	96585	40.0000	36.9	
\$	5 1,2-Dichloroethane-d4 (S)	65	3.979	3.980	(0.961)	102272	40.0000	34.9	
\$	6 Toluene-d8 (S)	98	5.079	5.081	(1.227)	344719	40.0000	37.1	
\$	7 4-Bromofluorobenzene (S)	174	6.899	6.900	(1.136)	115884	40.0000	38.6	
	8 Dichlorodifluoromethane	85	1.255	1.253	(0.303)	87194	20.0000	18.3	
	9 Chloromethane	50	1.412	1.420	(0.341)	28955	20.0000	8.11	
	10 Vinyl Chloride	62	1.457	1.455	(0.352)	115882	20.0000	19.2	
	11 Bromomethane	94	1.691	1.692	(0.409)	12617	20.0000	16.4	
	12 Chloroethane	64	1.787	1.785	(0.432)	69250	20.0000	17.2	
	13 Trichlorofluoromethane	101	1.887	1.885	(0.456)	147301	20.0000	18.1	
	14 Ethanol	45	2.098	2.097	(0.507)	63194	800.000	3920 (A)	
158	Ethyl Ether	45	2.098	2.097	(0.507)	63194	20.0000	17.9	
	15 1,1,2-Trichlorotrifluoroethan	151	2.256	2.254	(0.545)	97126	20.0000	21.0	
	16 Acrolein	56	2.451	2.453	(0.592)	45400	200.000	63.9	
	17 1,1-Dichloroethene	61	2.227	2.228	(0.538)	160384	20.0000	20.8	
	18 Acetone	43	2.644	2.642	(0.639)	31315	20.0000	9.70	
	19 Iodomethane	142	2.320	2.321	(0.561)	52506	20.0000	19.4	
	20 Carbon Disulfide	76	2.246	2.247	(0.543)	295799	20.0000	20.3	
	21 Allyl chloride	41	2.535	2.536	(0.612)	152510	20.0000	20.9	

Compounds	QUANT SIG					AMOUNTS		REVIEW CODE
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
						(ug/L)	(ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
22 Acetonitrile	41	2.936	2.937	{0.709}	26785	200.000	50.3	
23 Methylene Chloride	49	2.602	2.604	{0.629}	149039	20.0000	20.4	
159 tert-Butyl Alcohol	59	3.218	3.217	{0.778}	530159	200.000	171	
24 Methyl-tert-butyl Ether	73	2.772	2.774	{0.670}	271459	20.0000	16.9	
25 trans-1,2-Dichloroethene	61	2.702	2.700	{0.653}	162873	20.0000	20.2	
165 methyl Acetate	43	2.718	2.716	{0.657}	47697	20.0000	12.2	
26 Acrylonitrile	53	3.119	3.120	{0.754}	230626	200.000	123	
164 n-hexane	57	2.743	2.748	{0.663}	194180	20.0000	16.3	
162 Diisopropyl ether	45	3.000	3.002	{0.725}	275637	20.0000	14.8	
27 1,1-Dichloroethane	63	3.080	3.079	{0.744}	179912	20.0000	19.0	
28 Vinyl Acetate	43	3.228	3.226	{0.780}	435152	20.0000	17.1	
29 Chloroprene	53	3.064	3.066	{0.740}	129941	20.0000	15.6	
166 Ethyl-tert-butyl ether	59	3.218	3.217	{0.778}	530159	20.0000	17.1	
30 2,2-Dichloropropane	77	3.465	3.464	{0.837}	139348	20.0000	19.4	
31 cis-1,2-Dichloroethene	61	3.398	3.399	{0.821}	128333	20.0000	19.2	
161 Ethyl Acetate	43	3.626	3.627	{0.876}	131801	40.0000	26.8	
32 2-Butanone	43	3.745	3.746	{0.905}	44997	20.0000	10.0	
33 Propionitrile	54	3.921	3.922	{0.947}	71244	200.000	94.0	
34 Bromochloromethane	130	3.517	3.518	{0.850}	59848	20.0000	19.9	
167 Tetrahydrofuran	42	3.658	3.659	{0.884}	201825	200.000	141	
35 Methacrylonitrile	41	3.931	3.929	{0.950}	643390	200.000	176	
36 Chloroform	83	3.555	3.557	{0.859}	166119	20.0000	19.9	
172 tert-Butyl Formate	59	3.218	3.217	{0.778}	530159	100.000	85.4	
171 cyclohexane	56	3.517	3.515	{0.850}	149200	20.0000	18.0	
37 1,1,1-Trichloroethane	97	3.680	3.682	{0.889}	155125	20.0000	20.5	
38 Carbon Tetrachloride	117	3.639	3.637	{0.879}	118369	20.0000	20.4	
39 1,1-Dichloropropene	75	3.751	3.749	{0.906}	129800	20.0000	20.4	
40 Isobutyl alcohol	43	3.956	3.958	{0.956}	182798	400.000	993	
41 Benzene	78	3.895	3.897	{0.941}	400550	20.0000	20.2	
163 tert-amyl Alcohol	59	4.075	4.077	{0.984}	71593	400.000	216	
169 tert-amyl methyl ether	73	3.960	3.958	{0.957}	549088	20.0000	18.0	
42 1,2-Dichloroethane	62	4.017	4.019	{0.971}	130152	20.0000	18.4	
43 Trichloroethene	132	4.236	4.237	{1.023}	114241	20.0000	19.2	
168 Methylcyclohexane	83	4.232	4.231	{1.022}	165728	20.0000	20.0	
44 1,2-Dichloropropane	63	4.550	4.551	{1.099}	101098	20.0000	19.6	
45 Methyl methacrylate	69	4.669	4.670	{1.128}	58080	20.0000	16.9	
46 1,4-Dioxane	88	4.826	4.837	{1.166}	102	400.000	4.28	
47 Dibromomethane	174	4.492	4.494	{1.085}	65979	20.0000	18.8	
48 Bromodichloromethane	83	4.582	4.583	{1.107}	116575	20.0000	18.8	
49 2-Chloroethyl Vinyl Ether	63	4.922	4.920	{1.189}	115368	20.0000	21.5	
50 cis-1,3-Dichloropropene	75	4.964	4.965	{1.199}	134612	20.0000	16.3	
51 4-Methyl-2-Pentanone	43	5.346	5.344	{0.880}	182070	20.0000	18.0	
52 Toluene	91	5.112	5.110	{0.842}	445081	20.0000	20.6	
53 trans-1,3-Dichloropropene	75	5.365	5.366	{0.883}	137809	20.0000	18.4	
54 Ethyl methacrylate	41	5.458	5.459	{0.899}	85793	20.0000	18.4	
55 1,1,2-Trichloroethane	97	5.471	5.472	{0.901}	92648	20.0000	20.0	
56 Tetrachloroethene	166	5.352	5.354	{0.881}	131996	20.0000	21.0	
57 1,3-Dichloropropane	76	5.647	5.649	{0.930}	153367	20.0000	19.9	
58 2-Hexanone	43	5.878	5.877	{0.968}	136210	20.0000	16.8	
59 Dibromochloromethane	129	5.586	5.588	{0.920}	86222	20.0000	19.4	
160 3,3-dimethyl-1-butanol	57	5.856	5.854	{0.964}	103023	400.000	257	
60 1,2-Dibromoethane	107	5.747	5.745	{0.946}	90758	20.0000	19.5	
61 Chlorobenzene	112	6.084	6.085	{1.002}	318171	20.0000	20.4	
62 Ethylbenzene	91	6.097	6.095	{1.004}	527344	20.0000	20.3	

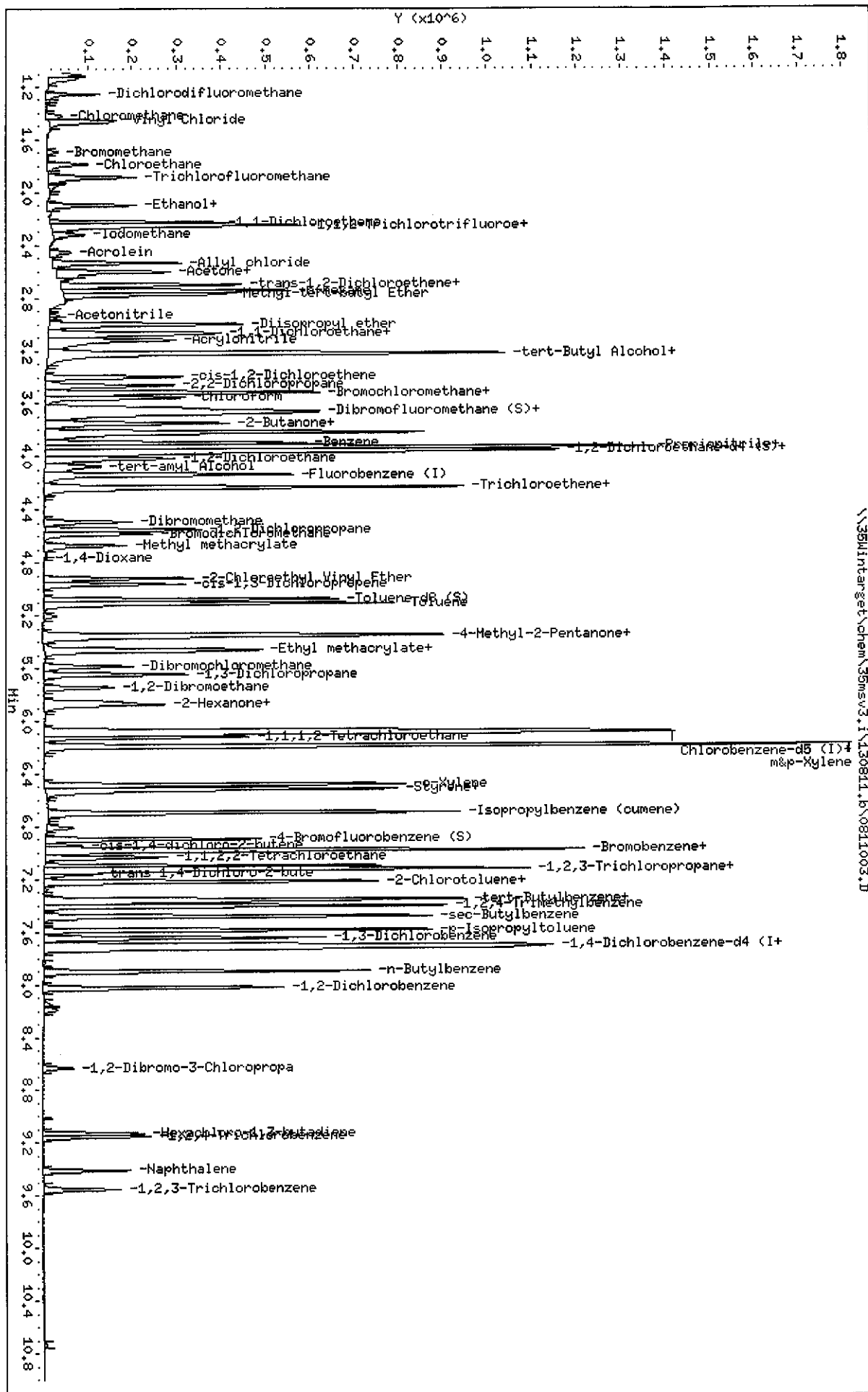
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW CODE
						CAL-AMT (ug/L)	ON-COL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
63 1,1,1,2-Tetrachloroethane	131	6.122	6.124	{1.008}	98067	20.0000	19.1	
64 m&p-Xylene	91	6.193	6.191	{1.020}	825152	40.0000	41.9	
65 o-Xylene	91	6.482	6.483	{1.067}	385822	20.0000	19.4	
66 Styrene	104	6.520	6.518	{1.073}	320888	20.0000	18.8	
67 Bromoform	173	6.543	6.541	{1.077}	49906	20.0000	20.1	
68 Isopropylbenzene (cumene)	105	6.697	6.698	{1.102}	488796	20.0000	19.8	
69 Bromobenzene	77	6.976	6.977	{0.906}	209141	20.0000	18.3	
70 1,1,2,2-Tetrachloroethane	83	7.037	7.035	{0.914}	107439	20.0000	17.7	
71 n-Propylbenzene	91	6.989	6.987	{0.908}	630719	20.0000	19.6	
72 1,2,3-Trichloropropane	75	7.136	7.138	{0.927}	119809	20.0000	20.5	
73 trans 1,4-Dichloro-2-butene	53	7.162	7.163	{0.930}	17967	20.0000	16.5	
170 cis-1,4-dichloro-2-butene	53	6.944	6.945	{0.902}	16396	20.0000	16.2	
74 2-Chlorotoluene	91	7.220	7.221	{0.938}	359188	20.0000	19.2	
75 1,3,5-Trimethylbenzene	105	7.127	7.125	{0.925}	425470	20.0000	19.5	
76 4-Chlorotoluene	91	7.220	7.221	{0.938}	359188	20.0000	19.2	
77 tert-Butylbenzene	119	7.355	7.356	{0.955}	397151	20.0000	20.2	
78 1,2,4-Trimethylbenzene	105	7.406	7.407	{0.962}	412771	20.0000	19.2	
79 Pentachloroethane	167	7.374	7.375	{0.958}	56894	20.0000	18.3	
80 sec-Butylbenzene	105	7.486	7.484	{0.972}	493724	20.0000	20.3	
81 p-Isopropyltoluene	119	7.589	7.587	{0.985}	413997	20.0000	19.1	
82 1,3-Dichlorobenzene	146	7.647	7.648	{0.993}	227828	20.0000	18.5	
83 1,4-Dichlorobenzene	146	7.714	7.712	{1.002}	233317	20.0000	18.4	
84 1,2,3-Trimethylbenzene	105	7.727	7.728	{1.867}	410156	20.0000	19.7	
85 n-Butylbenzene	91	7.900	7.901	{1.026}	337759	20.0000	18.8	
86 1,2-Dichlorobenzene	146	8.025	8.023	{1.042}	191921	20.0000	18.4	
87 1,2-Dibromo-3-Chloropropane	75	8.632	8.633	{1.121}	12626	20.0000	18.6	
88 1,2,4-Trichlorobenzene	180	9.158	9.156	{1.189}	62999	20.0000	18.9	
89 Hexachloro-1,3-butadiene	225	9.132	9.130	{1.186}	34733	20.0000	22.2	
90 Naphthalene	128	9.411	9.413	{1.222}	133657	20.0000	19.8	
91 1,2,3-Trichlorobenzene	180	9.556	9.554	{1.241}	47776	20.0000	23.2	

QC Flag Legend

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

Data File: \\35MIntarget\chem\35msv3.i\130811.b\0811003.D
 Date : 11-AUG-2013 15:58
 Client ID:
 Sample Info: CCV
 Purge Volume: 5.0
 Column phase: RTX-VMS

Instrument: 35msv3.i
 Operator: RGF
 Column diameter: 0.18



Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: SDGa27970
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: LCS Operator: RGF
Level: LOW SampleType: LCS
Data Type: MS DATA Quant Type: ISTD
SpikeList File: LCS-W.spk
Sublist File: all.sub
Method File: \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
Misc Info: ,,SW846-8260B_W

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
8 Dichlorodifluorome	20.0	15.7	78.30	67-130
9 Chloromethane	20.0	8.44	42.19*	68-130
10 Vinyl Chloride	20.0	17.7	88.41	69-140
11 Bromomethane	20.0	17.6	87.78	38-179
12 Chloroethane	20.0	16.7	83.63	59-149
13 Trichlorofluoromet	20.0	18.6	92.89	70-131
14 Ethanol	800	3890	486.40*	50-150
15 1,1,2-Trichlorotri	20.0	19.4	96.83	70-130
16 Acrolein	200	67.4	33.68*	44-170
17 1,1-Dichloroethene	20.0	19.5	97.48	70-130
18 Acetone	20.0	5.65	28.24*	40-150
19 Iodomethane	20.0	20.2	100.77	43-160
20 Carbon Disulfide	20.0	19.0	94.86	51-155
21 Allyl chloride	20.0	18.8	94.16	70-130
22 Acetonitrile	200	53.6	26.78*	63-138
23 Methylene Chloride	20.0	20.6	102.90	70-130
24 Methyl-tert-butyl	20.0	17.4	86.84	70-130
25 trans-1,2-Dichloro	20.0	18.9	94.40	70-130
26 Acrylonitrile	200	135	67.70*	70-130
164 n-hexane	20.0	19.3	96.40	70-130
27 1,1-Dichloroethane	20.0	16.9	84.41	70-130
28 Vinyl Acetate	20.0	17.2	85.97	69-135
29 Chloroprene	20.0	14.6	72.83	70-130
30 2,2-Dichloropropan	20.0	17.7	88.32	70-131
31 cis-1,2-Dichloroet	20.0	18.5	92.62	70-130
32 2-Butanone	20.0	12.7	63.39	55-167
33 Propionitrile	200	143	71.71	70-130
34 Bromochloromethane	20.0	18.0	90.22	70-130
35 Methacrylonitrile	200	181	90.50	70-130
36 Chloroform	20.0	18.1	90.69	70-130
37 1,1,1-Trichloroeth	20.0	18.7	93.55	70-130
38 Carbon Tetrachlori	20.0	18.9	94.61	70-130
39 1,1-Dichloropropan	20.0	19.2	96.04	70-130
40 Isobutyl alcohol	400	1000	250.13*	66-135
41 Benzene	20.0	18.5	92.54	70-130
42 1,2-Dichloroethane	20.0	17.8	89.07	70-130
43 Trichloroethene	20.0	17.6	87.81	70-130
44 1,2-Dichloropropan	20.0	18.6	92.92	70-130
45 Methyl methacrylat	20.0	17.8	88.84	70-130
46 1,4-Dioxane	400	10.7	2.67*	61-150

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
47 Dibromomethane	20.0	18.6	93.20	70-130
48 Bromodichlorometha	20.0	18.3	91.34	70-130
49 2-Chloroethyl Viny	20.0	21.6	107.87	70-130
50 cis-1,3-Dichloropr	20.0	16.0	80.14	70-130
51 4-Methyl-2-Pentano	20.0	18.8	93.77	70-130
52 Toluene	20.0	19.8	98.95	70-130
53 trans-1,3-Dichloro	20.0	18.3	91.72	70-130
54 Ethyl methacrylate	20.0	18.8	94.05	70-130
55 1,1,2-Trichloroeth	20.0	20.2	100.88	70-130
56 Tetrachloroethene	20.0	19.4	97.03	66-133
57 1,3-Dichloropropan	20.0	20.1	100.66	70-130
58 2-Hexanone	20.0	18.3	91.53	65-130
59 Dibromochlorometha	20.0	19.3	96.39	70-130
60 1,2-Dibromoethane	20.0	19.4	97.04	70-130
61 Chlorobenzene	20.0	19.7	98.69	70-130
62 Ethylbenzene	20.0	19.5	97.58	70-130
63 1,1,1,2-Tetrachlor	20.0	18.8	93.75	70-130
64 m&p-Xylene	40.0	40.7	101.66	70-130
65 o-Xylene	20.0	19.0	94.87	70-130
66 Styrene	20.0	18.4	92.19	70-130
67 Bromoform	20.0	20.2	100.88	70-130
68 Isopropylbenzene (	20.0	19.2	96.16	38-144
69 Bromobenzene	20.0	18.2	91.07	70-130
70 1,1,2,2-Tetrachlor	20.0	18.1	90.50	70-130
71 n-Propylbenzene	20.0	18.8	93.82	70-130
72 1,2,3-Trichloropro	20.0	20.6	103.29	70-130
73 trans 1,4-Dichloro	20.0	16.9	84.38	65-130
74 2-Chlorotoluene	20.0	19.1	95.35	70-130
75 1,3,5-Trimethylben	20.0	18.7	93.42	70-130
76 4-Chlorotoluene	20.0	19.1	95.35	70-130
77 tert-Butylbenzene	20.0	19.8	98.84	70-130
79 Pentachloroethane	20.0	18.1	90.61	40-163
78 1,2,4-Trimethylben	20.0	18.5	92.44	70-130
80 sec-Butylbenzene	20.0	19.8	99.12	70-130
81 p-Isopropyltoluene	20.0	18.6	92.88	70-130
82 1,3-Dichlorobenzen	20.0	18.4	92.19	70-130
83 1,4-Dichlorobenzen	20.0	18.4	91.91	70-130
84 1,2,3-Trimethylben	20.0	19.3	96.69	70-135
85 n-Butylbenzene	20.0	18.4	92.06	70-130
86 1,2-Dichlorobenzen	20.0	18.4	92.16	70-130
87 1,2-Dibromo-3-Chlo	20.0	19.9	99.72	64-130
88 1,2,4-Trichloroben	20.0	20.5	102.32	70-130
89 Hexachloro-1,3-but	20.0	23.2	116.17	70-130
90 Naphthalene	20.0	22.3	111.43	70-141
91 1,2,3-Trichloroben	20.0	25.5	127.34	70-137

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Dibromofluorometha	40.0	36.6	91.43	88-117
\$ 5 1,2-Dichloroethane	40.0	33.4	83.52*	86-125

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 Toluene-d8 (S)	40.0	37.0	92.52	87-113
\$ 7 4-Bromofluorobenze	40.0	39.2	97.98	70-114

Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130811.b\0811004.D
Lab Smp Id: 693425
Inj Date : 11-AUG-2013 16:23
Operator : RGF
Smp Info : 693425
Misc Info : 9341,,SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
Meth Date : 11-Aug-2013 17:04 bhardesty Quant Type: ISTD
Cal Date : 25-JUL-2013 09:08 Cal File: 0725005.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS		REVIEW CODE
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
*****	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene (I)	96		4.137	4.137	(1.000)		412621	40.0000		
* 2 Chlorobenzene-d5 (I)	82		6.072	6.072	(1.000)		163493	40.0000		
* 3 1,4-Dichlorobenzene-d4 (I)	152		7.699	7.699	(1.000)		176979	40.0000		
\$ 4 Dibromofluoromethane (S)	111		3.663	3.663	(0.885)		102842	36.5726	36.6	
\$ 5 1,2-Dichloroethane-d4 (S)	65		3.980	3.980	(0.962)		105337	33.4073	33.4 (R)	
\$ 6 Toluene-d8 (S)	98		5.081	5.081	(1.228)		369962	37.0060	37.0	
\$ 7 4-Bromofluorobenzene (S)	174		6.900	6.900	(1.136)		124137	39.1932	39.2	
8 Dichlorodifluoromethane	85		1.253	1.253	(0.303)		80337	15.6601	15.7	
9 Chloromethane	50		1.420	1.420	(0.343)		32415	8.43711	8.44 (R)	
10 Vinyl Chloride	62		1.455	1.455	(0.352)		113616	17.6828	17.7	
11 Bromomethane	94		1.692	1.692	(0.409)		15293	17.5554	17.6	
12 Chloroethane	64		1.785	1.785	(0.432)		72445	16.7263	16.7	
13 Trichlorofluoromethane	101		1.885	1.885	(0.456)		162978	18.5790	18.6	
14 Ethanol	45		2.097	2.097	(0.507)		67405	3891.18	3890 (AR)	
158 Ethyl Ether	45		2.097	2.097	(0.507)		67405	17.7697	17.8	
15 1,1,2-Trichlorotrifluoroethan	151		2.254	2.254	(0.545)		96524	19.3651	19.4	
16 Acrolein	56		2.453	2.453	(0.593)		51475	67.3624	67.4 (R)	
17 1,1-Dichloroethene	61		2.228	2.228	(0.539)		162047	19.4951	19.5	
18 Acetone	43		2.642	2.642	(0.639)		18396	5.64775	5.65 (R)	
19 Iodomethane	142		2.321	2.321	(0.561)		60109	20.1544	20.2	
20 Carbon Disulfide	76		2.247	2.247	(0.543)		297879	18.9719	19.0	
21 Allyl chloride	41		2.536	2.536	(0.613)		147623	18.8330	18.8	
22 Acetonitrile	41		2.937	2.937	(0.710)		30687	53.5667	53.6 (R)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49	2.604	2.604	{0.629}	161306	20.5799	20.6	
159 tert-Butyl Alcohol	59	3.217	3.217	{0.777}	561544	168.288	168	
24 Methyl-tert-butyl Ether	73	2.774	2.774	{0.670}	300422	17.3676	17.4	
25 trans-1,2-Dichloroethene	61	2.700	2.700	{0.653}	163937	18.8793	18.9	
165 methyl Acetate	43	2.716	2.716	{0.656}	60960	14.3374	14.3	
26 Acrylonitrile	53	3.120	3.120	{0.754}	273645	135.392	135 (R)	
164 n-hexane	57	2.748	2.748	{0.664}	247310	19.2796	19.3	
162 Diisopropyl ether	45	3.002	3.002	{0.725}	292701	14.6292	14.6	
27 1,1-Dichloroethane	63	3.079	3.079	{0.744}	172201	16.8815	16.9	
28 Vinyl Acetate	43	3.226	3.226	{0.780}	470068	17.1938	17.2	
29 Chloroprene	53	3.066	3.066	{0.741}	130315	14.5660	14.6	
166 Ethyl-tert-butyl ether	59	3.217	3.217	{0.777}	561544	16.8288	16.8	
30 2,2-Dichloropropane	77	3.464	3.464	{0.837}	136155	17.6638	17.7	
31 cis-1,2-Dichloroethene	61	3.399	3.399	{0.822}	133261	18.5247	18.5	
161 Ethyl Acetate	43	3.627	3.627	{0.877}	144284	27.2878	27.3	
32 2-Butanone	43	3.746	3.746	{0.905}	61187	12.6776	12.7	
33 Propionitrile	54	3.922	3.922	{0.948}	116934	143.417	143	
34 Bromochloromethane	130	3.518	3.518	{0.850}	58322	18.0439	18.0	
167 Tetrahydrofuran	42	3.659	3.659	{0.884}	267844	173.603	174	
35 Methacrylonitrile	41	3.929	3.929	{0.950}	711575	180.990	181	
36 Chloroform	83	3.557	3.557	{0.860}	163023	18.1382	18.1	
172 tert-Butyl Formate	59	3.217	3.217	{0.777}	561544	84.1438	84.1	
171 cyclohexane	56	3.515	3.515	{0.850}	147758	16.5954	16.6	
37 1,1,1-Trichloroethane	97	3.682	3.682	{0.890}	152518	18.7109	18.7	
38 Carbon Tetrachloride	117	3.637	3.637	{0.879}	115820	18.9222	18.9	
39 1,1-Dichloropropene	75	3.749	3.749	{0.906}	131768	19.2088	19.2	
40 Isobutyl alcohol	43	3.958	3.958	{0.957}	198264	1000.53	1000 (R)	
41 Benzene	78	3.897	3.897	{0.942}	393966	18.5072	18.5	
163 tert-amyl Alcohol	59	4.077	4.077	{0.985}	105700	291.260	291	
169 tert-amyl methyl ether	73	3.958	3.958	{0.957}	592882	18.0505	18.0	
42 1,2-Dichloroethane	62	4.019	4.019	{0.971}	135816	17.8139	17.8	
43 Trichloroethene	132	4.237	4.237	{1.024}	112390	17.5629	17.6	
168 Methylcyclohexane	83	4.231	4.231	{1.022}	166304	18.6888	18.7	
44 1,2-Dichloropropane	63	4.551	4.551	{1.100}	103103	18.5835	18.6	
45 Methyl methacrylate	69	4.670	4.670	{1.129}	65837	17.7680	17.8	
46 1,4-Dioxane	88	4.837	4.837	{1.169}	274	10.6830	10.7 (R)	
47 Dibromomethane	174	4.494	4.494	{1.086}	70260	18.6396	18.6	
48 Bromodichloromethane	83	4.583	4.583	{1.108}	121008	18.2687	18.3	
49 2-Chloroethyl Vinyl Ether	63	4.920	4.920	{1.189}	124297	21.5748	21.6	
50 cis-1,3-Dichloropropene	75	4.965	4.965	{1.200}	142401	16.0275	16.0	
51 4-Methyl-2-Pentanone	43	5.344	5.344	{0.880}	200307	18.7550	18.8	
52 Toluene	91	5.110	5.110	{0.841}	450313	19.7901	19.8	
53 trans-1,3-Dichloropropene	75	5.366	5.366	{0.884}	145221	18.3433	18.3	
54 Ethyl methacrylate	41	5.459	5.459	{0.899}	92261	18.8095	18.8	
55 1,1,2-Trichloroethane	97	5.472	5.472	{0.901}	98427	20.1759	20.2	
56 Tetrachloroethene	166	5.354	5.354	{0.882}	128495	19.4062	19.4	
57 1,3-Dichloropropane	76	5.649	5.649	{0.930}	163664	20.1322	20.1	
58 2-Hexanone	43	5.877	5.877	{0.968}	161203	18.3062	18.3	
59 Dibromochloromethane	129	5.588	5.588	{0.920}	90334	19.2776	19.3	
160 3,3-dimethyl-1-butanol	57	5.854	5.854	{0.964}	139265	324.587	324	
60 1,2-Dibromoethane	107	5.745	5.745	{0.946}	95346	19.4087	19.4	
61 Chlorobenzene	112	6.085	6.085	{1.002}	325120	19.7387	19.7	
62 Ethylbenzene	91	6.095	6.095	{1.004}	535045	19.5168	19.5	
63 1,1,1,2-Tetrachloroethane	131	6.124	6.124	{1.008}	101539	18.7504	18.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
64 m&p-Xylene	91	6.191	6.191	(1.020)	844191	40.6657	40.7	
65 o-Xylene	91	6.483	6.483	(1.068)	398495	18.9735	19.0	
66 Styrene	104	6.518	6.518	(1.073)	331401	18.4373	18.4	
67 Bromoform	173	6.541	6.541	(1.077)	52783	20.1766	20.2	
68 Isopropylbenzene (cumene)	105	6.698	6.698	(1.103)	499263	19.2311	19.2	
69 Bromobenzene	77	6.977	6.977	(0.906)	221301	18.2149	18.2	
70 1,1,2,2-Tetrachloroethane	83	7.035	7.035	(0.914)	117257	18.0999	18.1	
71 n-Propylbenzene	91	6.987	6.987	(0.907)	642215	18.7638	18.8	
72 1,2,3-Trichloropropane	75	7.138	7.138	(0.927)	128805	20.6578	20.6	
73 trans 1,4-Dichloro-2-butene	53	7.163	7.163	(0.930)	19927	16.8753	16.9	
170 cis-1,4-dichloro-2-butene	53	6.945	6.945	(0.902)	17646	16.3299	16.3	
74 2-Chlorotoluene	91	7.221	7.221	(0.938)	380236	19.0701	19.1	
75 1,3,5-Trimethylbenzene	105	7.125	7.125	(0.925)	434821	18.6845	18.7	
76 4-Chlorotoluene	91	7.221	7.221	(0.938)	380236	19.0701	19.1	
77 tert-Butylbenzene	119	7.356	7.356	(0.955)	414347	19.7678	19.8	
78 1,2,4-Trimethylbenzene	105	7.407	7.407	(0.962)	422028	18.4888	18.5	
79 Pentachloroethane	167	7.375	7.375	(0.958)	59872	18.1223	18.1	
80 sec-Butylbenzene	105	7.484	7.484	(0.972)	512821	19.8236	19.8	
81 p-Isopropyltoluene	119	7.587	7.587	(0.985)	428158	18.5762	18.6	
82 1,3-Dichlorobenzene	146	7.648	7.648	(0.993)	242309	18.4383	18.4	
83 1,4-Dichlorobenzene	146	7.712	7.712	(1.002)	247480	18.3822	18.4	
84 1,2,3-Trimethylbenzene	105	7.728	7.728	(1.068)	432535	19.3382	19.3	
85 n-Butylbenzene	91	7.901	7.901	(1.026)	350976	18.4126	18.4	
86 1,2-Dichlorobenzene	146	8.023	8.023	(1.042)	204863	18.4321	18.4	
87 1,2-Dibromo-3-Chloropropane	75	8.633	8.633	(1.121)	14760	19.9449	19.9	
88 1,2,4-Trichlorobenzene	180	9.156	9.156	(1.189)	72740	20.4643	20.5	
89 Hexachloro-1,3-butadiene	225	9.130	9.130	(1.186)	38784	23.2337	23.2	
90 Naphthalene	128	9.413	9.413	(1.223)	166100	22.2864	22.3	
91 1,2,3-Trichlorobenzene	180	9.554	9.554	(1.241)	56843	25.4671	25.5	

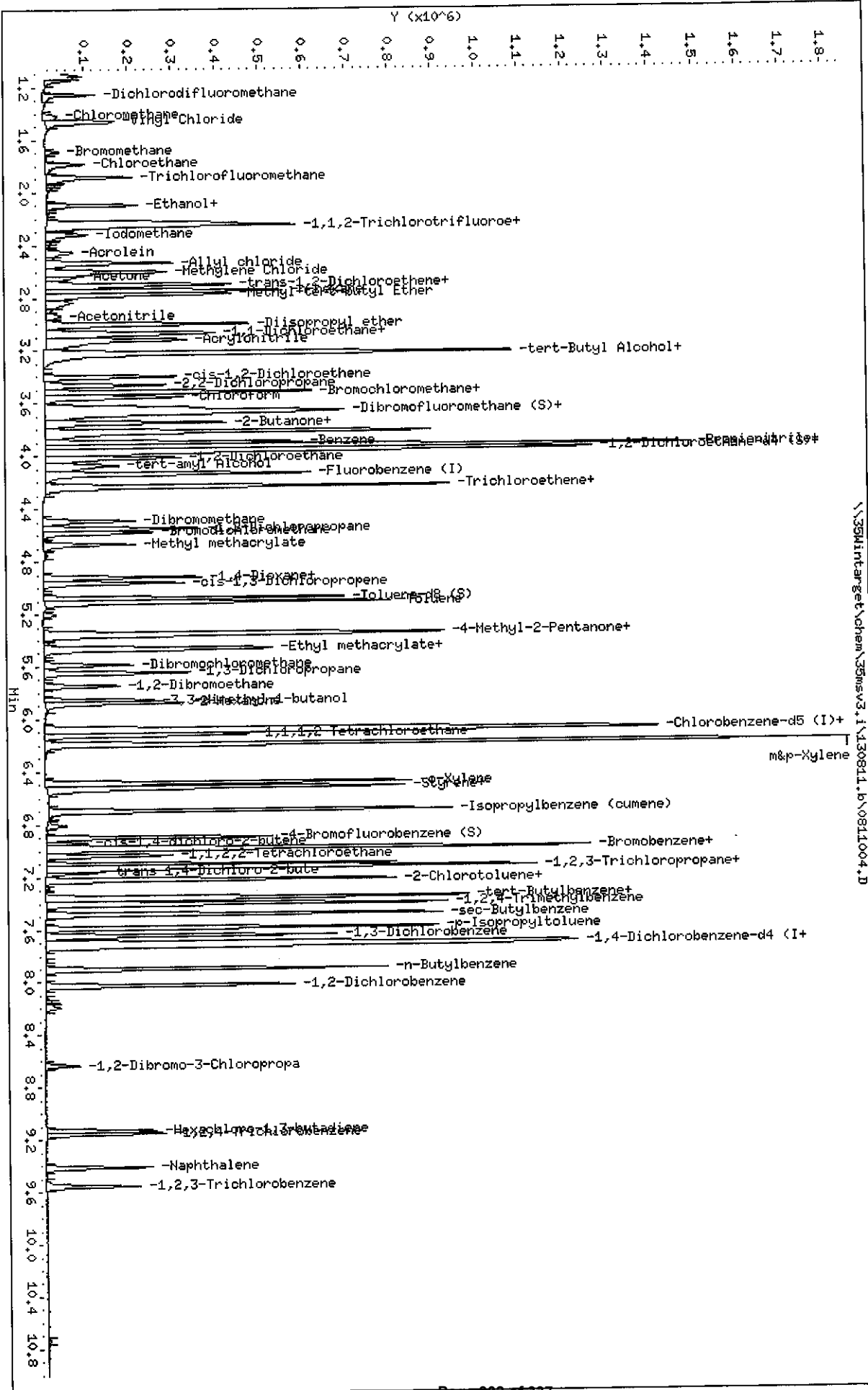
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

Data File: \\35M1inbarget\chem\35mew3.i\130811.b\0811004.D
Date : 11-RUC-2013 16:23
Client ID:
Sample Info: 693425
Purge Volume: 5.0
Column phase: RTX-VHS

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Instrument: 35msv3.1
Operator: RGF
Column diameter: 0.18
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Page 4



Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130811.b\0811006.D
 Lab Smp Id: 693424
 Inj Date : 11-AUG-2013 17:12
 Operator : RGF
 Smp Info : 693424
 Misc Info : 9341,,SW846-8260B_W
 Comment : SW846-8260B
 Method : \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
 Meth Date : 11-Aug-2013 17:04 bhardesty
 Cal Date : 25-JUL-2013 09:08
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: 35V6

Inst ID: 35msv3.i

Quant Type: ISTD
 Cal File: 0725005.D
 QC Sample: BLANK

Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Fluorobenzene (I)	96	4.138	4.137	{1.000}	368362	40.0000		
* 2 Chlorobenzene-d5 (I)	82	6.073	6.072	{1.000}	146631	40.0000		
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.703	7.699	{1.000}	135420	40.0000		
\$ 4 Dibromofluoromethane (S)	111	3.663	3.663	{0.885}	95813	38.1668	38.2	
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.978	3.980	{0.961}	107266	38.1065	38.1{Q}	
\$ 6 Toluene-d8 (S)	98	5.078	5.081	{1.227}	339043	37.9880	38.0	
\$ 7 4-Bromofluorobenzene (S)	174	6.898	6.900	{1.136}	105404	37.1056	37.1	
8 Dichlorodifluoromethane	85	Compound Not Detected.						
9 Chloromethane	50	Compound Not Detected.						
10 Vinyl Chloride	62	Compound Not Detected.						
11 Bromomethane	94	Compound Not Detected.						
12 Chloroethane	64	Compound Not Detected.						
13 Trichlorofluoromethane	101	Compound Not Detected.						
14 Ethanol	45	Compound Not Detected.						
158 Ethyl Ether	45	Compound Not Detected.						
15 1,1,2-Trichlorotrifluoroethan	151	Compound Not Detected.						
16 Acrolein	56	Compound Not Detected.						
17 1,1-Dichloroethene	61	Compound Not Detected.						
18 Acetone	43	Compound Not Detected.						
19 Iodomethane	142	Compound Not Detected.						
21 Allyl chloride	41	Compound Not Detected.						
22 Acetonitrile	41	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49				Compound Not Detected.			
159 tert-Butyl Alcohol	59				Compound Not Detected.			
24 Methyl-tert-butyl Ether	73				Compound Not Detected.			
25 trans-1,2-Dichloroethene	61				Compound Not Detected.			
165 methyl Acetate	43				Compound Not Detected.			
26 Acrylonitrile	53				Compound Not Detected.			
164 n-hexane	57				Compound Not Detected.			
162 Diisopropyl ether	45				Compound Not Detected.			
27 1,1-Dichloroethane	63				Compound Not Detected.			
28 Vinyl Acetate	43				Compound Not Detected.			
29 Chloroprene	53				Compound Not Detected.			
166 Ethyl-tert-butyl ether	59				Compound Not Detected.			
30 2,2-Dichloropropane	77				Compound Not Detected.			
31 cis-1,2-Dichloroethene	61				Compound Not Detected.			
161 Ethyl Acetate	43				Compound Not Detected.			
32 2-Butanone	43				Compound Not Detected.			
33 Propionitrile	54				Compound Not Detected.			
34 Bromochloromethane	130				Compound Not Detected.			
167 Tetrahydrofuran	42				Compound Not Detected.			
35 Methacrylonitrile	41				Compound Not Detected.			
36 Chloroform	83				Compound Not Detected.			
172 tert-Butyl Formate	59				Compound Not Detected.			
171 cyclohexane	56				Compound Not Detected.			
37 1,1,1-Trichloroethane	97				Compound Not Detected.			
38 Carbon Tetrachloride	117				Compound Not Detected.			
39 1,1-Dichloropropene	75				Compound Not Detected.			
40 Isobutyl alcohol	43				Compound Not Detected.			
41 Benzene	78				Compound Not Detected.			
163 tert-amyl Alcohol	59				Compound Not Detected.			
169 tert-amyl methyl ether	73				Compound Not Detected.			
42 1,2-Dichloroethane	62				Compound Not Detected.			
43 Trichloroethene	132				Compound Not Detected.			
168 Methylcyclohexane	83				Compound Not Detected.			
44 1,2-Dichloropropane	63				Compound Not Detected.			
45 Methyl methacrylate	69				Compound Not Detected.			
46 1,4-Dioxane	88				Compound Not Detected.			
47 Dibromomethane	174				Compound Not Detected.			
48 Bromodichloromethane	83				Compound Not Detected.			
49 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.			
50 cis-1,3-Dichloropropene	75				Compound Not Detected.			
51 4-Methyl-2-Pentanone	43				Compound Not Detected.			
52 Toluene	91				Compound Not Detected.			
53 trans-1,3-Dichloropropene	75				Compound Not Detected.			
54 Ethyl methacrylate	41				Compound Not Detected.			
55 1,1,2-Trichloroethane	97				Compound Not Detected.			
56 Tetrachloroethene	166				Compound Not Detected.			
57 1,3-Dichloropropane	76				Compound Not Detected.			
58 2-Hexanone	43				Compound Not Detected.			
59 Dibromochloromethane	129				Compound Not Detected.			
160 3,3-dimethyl-1-butanol	57				Compound Not Detected.			
60 1,2-Dibromoethane	107				Compound Not Detected.			
61 Chlorobenzene	112				Compound Not Detected.			
62 Ethylbenzene	91				Compound Not Detected.			
63 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
64 m&p-Xylene	91				Compound Not Detected.			
65 o-Xylene	91				Compound Not Detected.			
66 Styrene	104				Compound Not Detected.			
67 Bromoform	173				Compound Not Detected.			
68 Isopropylbenzene (cumene)	105				Compound Not Detected.			
69 Bromobenzene	77				Compound Not Detected.			
70 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
71 n-Propylbenzene	91				Compound Not Detected.			
72 1,2,3-Trichloropropane	75				Compound Not Detected.			
73 trans 1,4-Dichloro-2-butene	53				Compound Not Detected.			
170 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
74 2-Chlorotoluene	91				Compound Not Detected.			
75 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
76 4-Chlorotoluene	91				Compound Not Detected.			
77 tert-Butylbenzene	119				Compound Not Detected.			
78 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
79 Pentachloroethane	167				Compound Not Detected.			
80 sec-Butylbenzene	105				Compound Not Detected.			
81 p-Isopropyltoluene	119				Compound Not Detected.			
82 1,3-Dichlorobenzene	146				Compound Not Detected.			
83 1,4-Dichlorobenzene	146				Compound Not Detected.			
84 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
85 n-Butylbenzene	91				Compound Not Detected.			
86 1,2-Dichlorobenzene	146				Compound Not Detected.			
87 1,2-Dibromo-3-Chloropropane	75				Compound Not Detected.			
88 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
89 Hexachloro-1,3-butadiene	225				Compound Not Detected.			
90 Naphthalene	128				Compound Not Detected.			
91 1,2,3-Trichlorobenzene	180				Compound Not Detected.			

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\35Mintarget\chem\35msv3.i\130811.b\0811006.D

Date : 11-AUG-2013 17:12

Client ID:

Sample Info: 693424

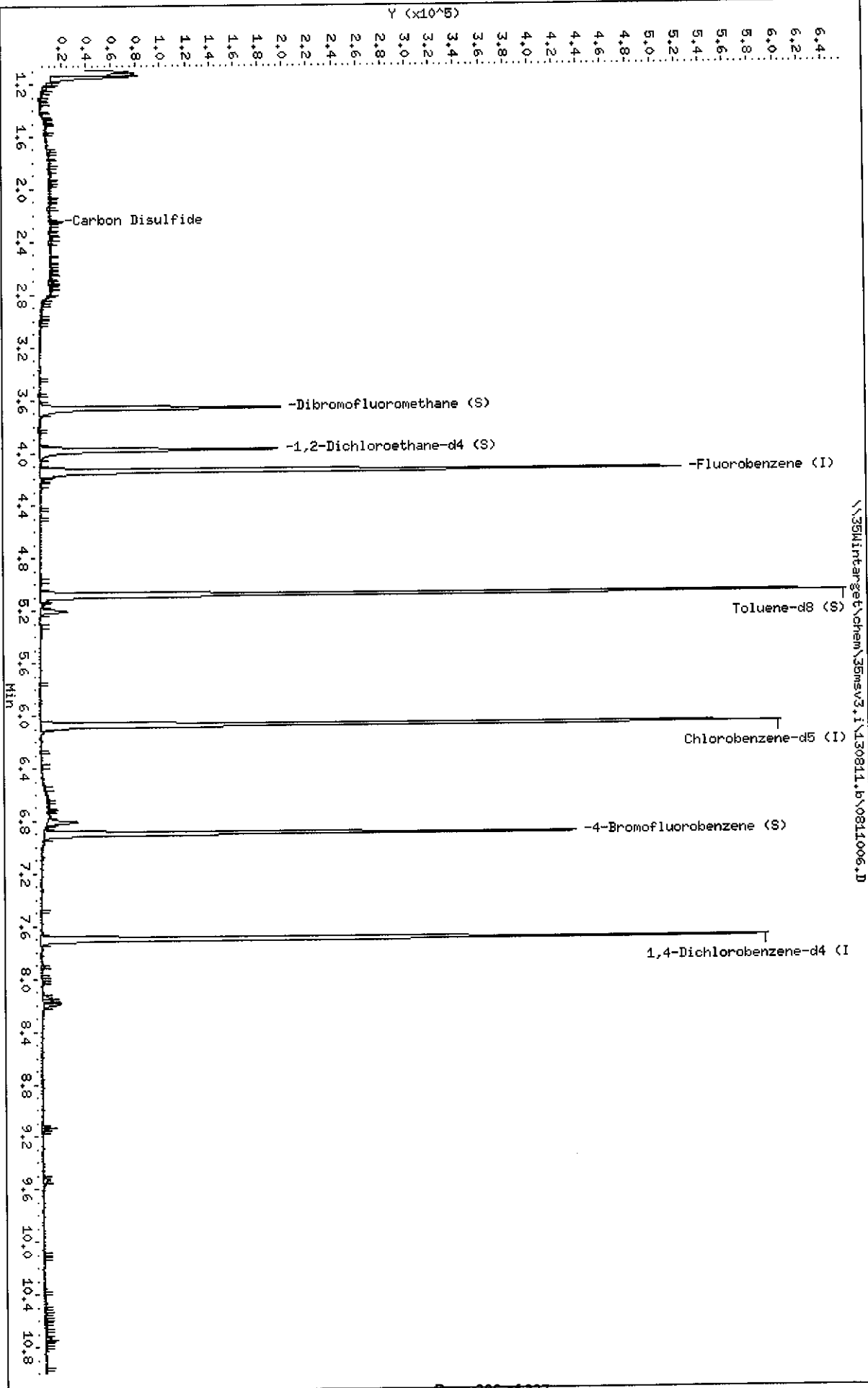
Purge Volume: 5.0

Column phase: RTX-VHS

Instrument: 35msv3.i

Operator: RGF

Column diameter: 0.18



Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130811.b\0811008.D
Lab Smp Id: 35103494003
Inj Date : 11-AUG-2013 18:06
Operator : RGF
Smp Info : 35103494003
Misc Info : 9341,,SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
Meth Date : 11-Aug-2013 17:04 bhardesty Quant Type: ISTD
Cal Date : 25-JUL-2013 09:08 Cal File: 0725005.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: 35V6

Inst ID: 35msv3.i

Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
*****	****	****	*****	*****	*****	*****	*****	*****	*****
* 1 Fluorobenzene (I)	96	4.138	4.137	{1.000}	359873	40.0000			
* 2 Chlorobenzene-d5 (I)	82	6.073	6.072	{1.000}	142836	40.0000			
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.703	7.699	{1.000}	133530	40.0000			
\$ 4 Dibromofluoromethane (S)	111	3.663	3.663	{0.885}	93169	37.9891	38.0		
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.977	3.980	{0.961}	100575	36.5724	36.6 (Q)		
\$ 6 Toluene-d8 (S)	98	5.081	5.081	{1.228}	325989	37.3870	37.4		
\$ 7 4-Bromofluorobenzene (S)	174	6.901	6.900	{1.136}	105388	38.0857	38.1		
8 Dichlorodifluoromethane	85	Compound Not Detected.							
9 Chloromethane	50	Compound Not Detected.							
10 Vinyl Chloride	62	Compound Not Detected.							
11 Bromomethane	94	Compound Not Detected.							
12 Chloroethane	64	Compound Not Detected.							
13 Trichlorofluoromethane	101	Compound Not Detected.							
14 Ethanol	45	Compound Not Detected.							
158 Ethyl Ether	45	Compound Not Detected.							
15 1,1,2-Trichlorotrifluoroethan	151	Compound Not Detected.							
16 Acrolein	56	Compound Not Detected.							
17 1,1-Dichloroethene	61	Compound Not Detected.							
18 Acetone	43	2.646	2.642	{0.639}	14974	5.32203	5.32 (Q)		
19 Iodomethane	142	Compound Not Detected.							
20 Carbon Disulfide	76	Compound Not Detected.							
21 Allyl chloride	41	Compound Not Detected.							

Compounds	QUANT SIG MASS						CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	----	-----	-----	-----		-----	-----	-----
22 Acetonitrile	41				Compound Not Detected.				
23 Methylene Chloride	49				Compound Not Detected.				
159 tert-Butyl Alcohol	59				Compound Not Detected.				
24 Methyl-tert-butyl Ether	73				Compound Not Detected.				
25 trans-1,2-Dichloroethene	61				Compound Not Detected.				
165 methyl Acetate	43				Compound Not Detected.				
26 Acrylonitrile	53				Compound Not Detected.				
164 n-hexane	57				Compound Not Detected.				
162 Diisopropyl ether	45				Compound Not Detected.				
27 1,1-Dichloroethane	63				Compound Not Detected.				
28 Vinyl Acetate	43				Compound Not Detected.				
29 Chloroprene	53				Compound Not Detected.				
166 Ethyl-tert-butyl ether	59				Compound Not Detected.				
30 2,2-Dichloropropane	77				Compound Not Detected.				
31 cis-1,2-Dichloroethene	61				Compound Not Detected.				
161 Ethyl Acetate	43				Compound Not Detected.				
32 2-Butanone	43				Compound Not Detected.				
33 Propionitrile	54				Compound Not Detected.				
34 Bromochloromethane	130				Compound Not Detected.				
167 Tetrahydrofuran	42				Compound Not Detected.				
35 Methacrylonitrile	41				Compound Not Detected.				
36 Chloroform	83	3.554	3.557 (0.859)		26827	3.42230	3.42		
172 tert-Butyl Formate	59				Compound Not Detected.				
171 cyclohexane	56				Compound Not Detected.				
37 1,1,1-Trichloroethane	97				Compound Not Detected.				
38 Carbon Tetrachloride	117				Compound Not Detected.				
39 1,1-Dichloropropene	75				Compound Not Detected.				
40 Isobutyl alcohol	43				Compound Not Detected.				
41 Benzene	78				Compound Not Detected.				
163 tert-amyl Alcohol	59				Compound Not Detected.				
169 tert-amyl methyl ether	73				Compound Not Detected.				
42 1,2-Dichloroethane	62				Compound Not Detected.				
43 Trichloroethene	132				Compound Not Detected.				
168 Methylcyclohexane	83				Compound Not Detected.				
44 1,2-Dichloropropane	63				Compound Not Detected.				
45 Methyl methacrylate	69				Compound Not Detected.				
46 1,4-Dioxane	88				Compound Not Detected.				
47 Dibromomethane	174				Compound Not Detected.				
48 Bromodichloromethane	83				Compound Not Detected.				
49 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.				
50 cis-1,3-Dichloropropene	75				Compound Not Detected.				
51 4-Methyl-2-Pentanone	43				Compound Not Detected.				
52 Toluene	91				Compound Not Detected.				
53 trans-1,3-Dichloropropene	75				Compound Not Detected.				
54 Ethyl methacrylate	41				Compound Not Detected.				
55 1,1,2-Trichloroethane	97				Compound Not Detected.				
56 Tetrachloroethene	166				Compound Not Detected.				
57 1,3-Dichloropropane	76				Compound Not Detected.				
58 2-Hexanone	43				Compound Not Detected.				
59 Dibromochloromethane	129				Compound Not Detected.				
160 3,3-dimethyl-1-butanol	57				Compound Not Detected.				
60 1,2-Dibromoethane	107				Compound Not Detected.				
61 Chlorobenzene	112				Compound Not Detected.				
62 Ethylbenzene	91				Compound Not Detected.				

Compounds	QUANT SIG MASS					CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
63 1,1,1,2-Tetrachloroethane	131	Compound	Not	Detected.				
64 m&p-Xylene	91	Compound	Not	Detected.				
65 o-Xylene	91	Compound	Not	Detected.				
66 Styrene	104	Compound	Not	Detected.				
67 Bromoform	173	Compound	Not	Detected.				
68 Isopropylbenzene (cumene)	105	Compound	Not	Detected.				
69 Bromobenzene	77	Compound	Not	Detected.				
70 1,1,2,2-Tetrachloroethane	83	Compound	Not	Detected.				
71 n-Propylbenzene	91	Compound	Not	Detected.				
72 1,2,3-Trichloropropane	75	Compound	Not	Detected.				
73 trans 1,4-Dichloro-2-butene	53	Compound	Not	Detected.				
170 cis-1,4-dichloro-2-butene	53	Compound	Not	Detected.				
74 2-Chlorotoluene	91	Compound	Not	Detected.				
75 1,3,5-Trimethylbenzene	105	Compound	Not	Detected.				
76 4-Chlorotoluene	91	Compound	Not	Detected.				
77 tert-Butylbenzene	119	Compound	Not	Detected.				
78 1,2,4-Trimethylbenzene	105	Compound	Not	Detected.				
79 Pentachloroethane	167	Compound	Not	Detected.				
80 sec-Butylbenzene	105	Compound	Not	Detected.				
81 p-Isopropyltoluene	119	Compound	Not	Detected.				
82 1,3-Dichlorobenzene	146	Compound	Not	Detected.				
84 1,2,3-Trimethylbenzene	105	Compound	Not	Detected.				
85 n-Butylbenzene	91	Compound	Not	Detected.				
86 1,2-Dichlorobenzene	146	Compound	Not	Detected.				
87 1,2-Dibromo-3-Chloropropane	75	Compound	Not	Detected.				
88 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.				
89 Hexachloro-1,3-butadiene	225	Compound	Not	Detected.				
90 Naphthalene	128	Compound	Not	Detected.				
91 1,2,3-Trichlorobenzene	180	Compound	Not	Detected.				

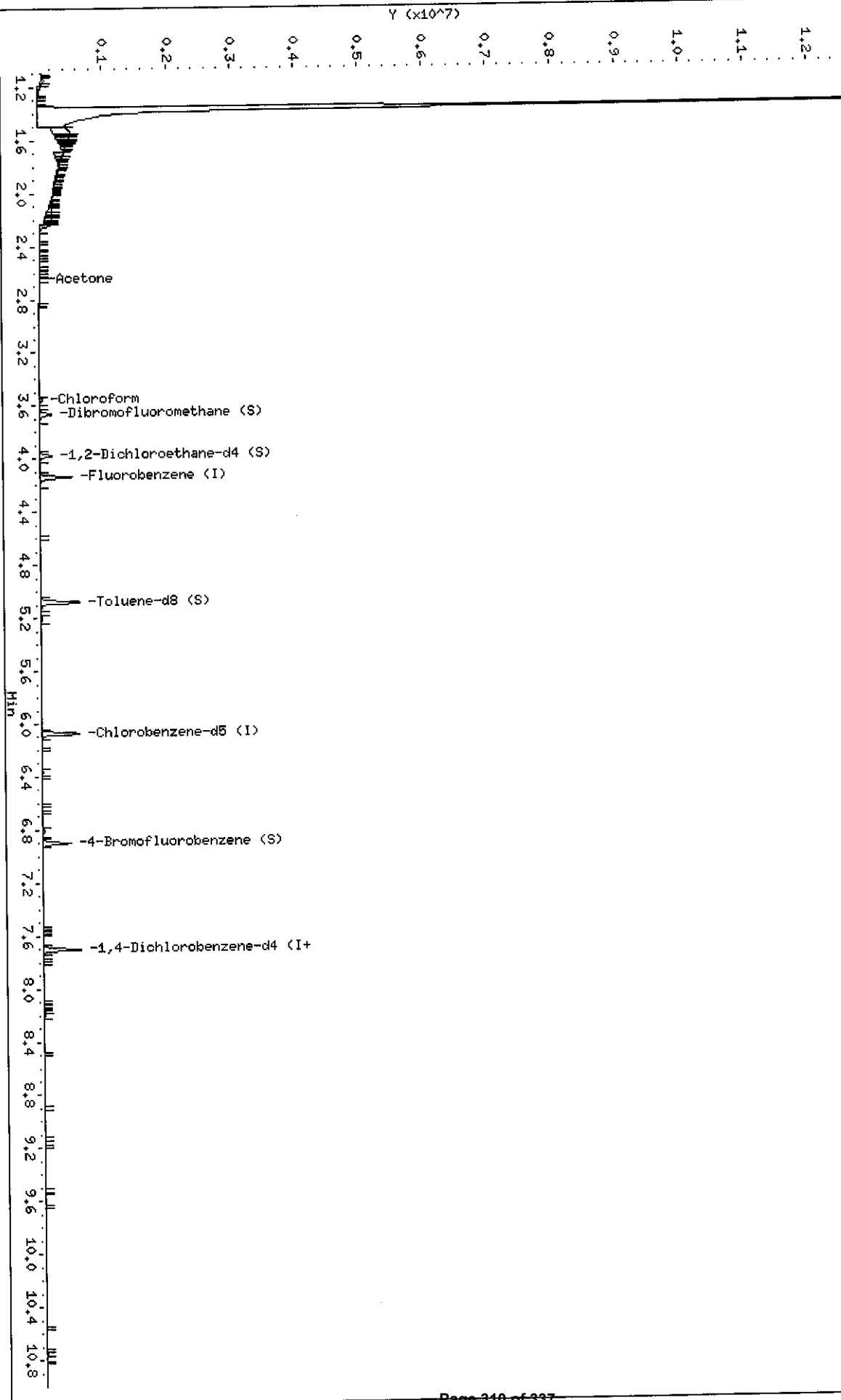
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\35Mintarget\chem\35msv3.1\130811.b\0811008.D
Date : 11-AUG-2013 18:06
Client ID:
Sample Info: 35103494003
Purge Volume: 5.0
Column phase: RTX-VHS

Instrument: 35msv3.1
Operator: RGF
Column diameter: 0.18

\\35Mintarget\chem\35msv3.1\130811.b\0811008.D



Pace Analytical Services, Inc.

SW846-8260B
Data file : \\35Wintarget\chem\35msv3.i\130811.b\0811009.D
Lab Smp Id: 35103494004
Inj Date : 11-AUG-2013 18:30
Operator : RGF
Smp Info : 35103494004
Misc Info : 9341,,SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
Meth Date : 11-Aug-2013 17:04 bhardesty Quant Type: ISTD
Cal Date : 25-JUL-2013 09:08 Cal File: 0725005.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: 35V6
Inst ID: 35msv3.i
Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT		SIG		CONCENTRATIONS				
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	REVIEW CODE	
=====		=====	=====	=====	=====	=====	=====	=====	=====	
*	1 Fluorobenzene (I)	96	4.138	4.137	(1.000)	362433	40.0000			
*	2 Chlorobenzene-d5 (I)	82	6.073	6.072	(1.000)	143983	40.0000			
*	3 1,4-Dichlorobenzene-d4 (I)	152	7.703	7.699	(1.000)	135061	40.0000			
\$	4 Dibromofluoromethane (S)	111	3.663	3.663	(0.885)	96136	38.9220	38.9		
\$	5 1,2-Dichloroethane-d4 (S)	65	3.978	3.980	(0.961)	102305	36.9387	36.9(Q)		
\$	6 Toluene-d8 (S)	98	5.079	5.081	(1.227)	332839	37.9030	37.9		
\$	7 4-Bromofluorobenzene (S)	174	6.898	6.900	(1.136)	103990	37.2811	37.3		
	8 Dichlorodifluoromethane	85	Compound Not Detected.							
	9 Chloromethane	50	Compound Not Detected.							
	10 Vinyl Chloride	62	Compound Not Detected.							
	11 Bromomethane	94	Compound Not Detected.							
	12 Chloroethane	64	Compound Not Detected.							
	13 Trichlorofluoromethane	101	Compound Not Detected.							
	14 Ethanol	45	Compound Not Detected.							
	158 Ethyl Ether	45	Compound Not Detected.							
	15 1,1,2-Trichlorotrifluoroethan	151	Compound Not Detected.							
	16 Acrolein	56	Compound Not Detected.							
	17 1,1-Dichloroethene	61	Compound Not Detected.							
	18 Acetone	43	2.646	2.642	(0.639)	15555	5.46541	5.46(Q)		
	19 Iodomethane	142	Compound Not Detected.							
	21 Allyl chloride	41	Compound Not Detected.							
	22 Acetonitrile	41	Compound Not Detected.							

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49				Compound Not Detected.			
159 tert-Butyl Alcohol	59				Compound Not Detected.			
24 Methyl-tert-butyl Ether	73				Compound Not Detected.			
25 trans-1,2-Dichloroethene	61				Compound Not Detected.			
165 methyl Acetate	43				Compound Not Detected.			
26 Acrylonitrile	53				Compound Not Detected.			
164 n-hexane	57				Compound Not Detected.			
162 Diisopropyl ether	45				Compound Not Detected.			
27 1,1-Dichloroethane	63				Compound Not Detected.			
28 Vinyl Acetate	43				Compound Not Detected.			
29 Chloroprene	53				Compound Not Detected.			
166 Ethyl-tert-butyl ether	59				Compound Not Detected.			
30 2,2-Dichloropropane	77				Compound Not Detected.			
31 cis-1,2-Dichloroethene	61				Compound Not Detected.			
161 Ethyl Acetate	43				Compound Not Detected.			
32 2-Butanone	43				Compound Not Detected.			
33 Propionitrile	54				Compound Not Detected.			
34 Bromochloromethane	130				Compound Not Detected.			
167 Tetrahydrofuran	42				Compound Not Detected.			
35 Methacrylonitrile	41				Compound Not Detected.			
36 Chloroform	83	3.554	3.557	(0.859)	26433	3.34822	3.35	
172 tert-Butyl Formate	59				Compound Not Detected.			
171 cyclohexane	56				Compound Not Detected.			
37 1,1,1-Trichloroethane	97				Compound Not Detected.			
38 Carbon Tetrachloride	117				Compound Not Detected.			
39 1,1-Dichloropropene	75				Compound Not Detected.			
40 Isobutyl alcohol	43				Compound Not Detected.			
41 Benzene	78				Compound Not Detected.			
163 tert-amyl Alcohol	59				Compound Not Detected.			
169 tert-amyl methyl ether	73				Compound Not Detected.			
42 1,2-Dichloroethane	62				Compound Not Detected.			
43 Trichloroethene	132				Compound Not Detected.			
168 Methylcyclohexane	83				Compound Not Detected.			
44 1,2-Dichloropropane	63				Compound Not Detected.			
45 Methyl methacrylate	69				Compound Not Detected.			
46 1,4-Dioxane	88				Compound Not Detected.			
47 Dibromomethane	174				Compound Not Detected.			
48 Bromodichloromethane	83				Compound Not Detected.			
49 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.			
50 cis-1,3-Dichloropropene	75				Compound Not Detected.			
51 4-Methyl-2-Pentanone	43				Compound Not Detected.			
53 trans-1,3-Dichloropropene	75				Compound Not Detected.			
54 Ethyl methacrylate	41				Compound Not Detected.			
55 1,1,2-Trichloroethane	97				Compound Not Detected.			
56 Tetrachloroethene	166				Compound Not Detected.			
57 1,3-Dichloropropane	76				Compound Not Detected.			
58 2-Hexanone	43				Compound Not Detected.			
59 Dibromochloromethane	129				Compound Not Detected.			
160 3,3-dimethyl-1-butanol	57				Compound Not Detected.			
60 1,2-Dibromoethane	107				Compound Not Detected.			
61 Chlorobenzene	112				Compound Not Detected.			
62 Ethylbenzene	91				Compound Not Detected.			
63 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			
64 m&p-Xylene	91				Compound Not Detected.			

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
65 o-Xylene	91				Compound Not Detected.			
66 Styrene	104				Compound Not Detected.			
67 Bromoform	173				Compound Not Detected.			
68 Isopropylbenzene (cumene)	105				Compound Not Detected.			
69 Bromobenzene	77				Compound Not Detected.			
70 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
71 n-Propylbenzene	91				Compound Not Detected.			
72 1,2,3-Trichloropropane	75				Compound Not Detected.			
73 trans 1,4-Dichloro-2-butene	53				Compound Not Detected.			
170 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
74 2-Chlorotoluene	91				Compound Not Detected.			
75 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
76 4-Chlorotoluene	91				Compound Not Detected.			
77 tert-Butylbenzene	119				Compound Not Detected.			
78 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
79 Pentachloroethane	167				Compound Not Detected.			
80 sec-Butylbenzene	105				Compound Not Detected.			
81 p-Isopropyltoluene	119				Compound Not Detected.			
82 1,3-Dichlorobenzene	146				Compound Not Detected.			
84 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
85 n-Butylbenzene	91				Compound Not Detected.			
86 1,2-Dichlorobenzene	146				Compound Not Detected.			
87 1,2-Dibromo-3-Chloropropane	75				Compound Not Detected.			
88 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
89 Hexachloro-1,3-butadiene	225				Compound Not Detected.			
90 Naphthalene	128				Compound Not Detected.			
91 1,2,3-Trichlorobenzene	180				Compound Not Detected.			

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\35Mintarget\chem\35msv3.1\130811.b\0811009.D

Date: 11-AUG-2013 18:30

Client ID:

Sample Info: 35103494004

Purge Volume: 5.0

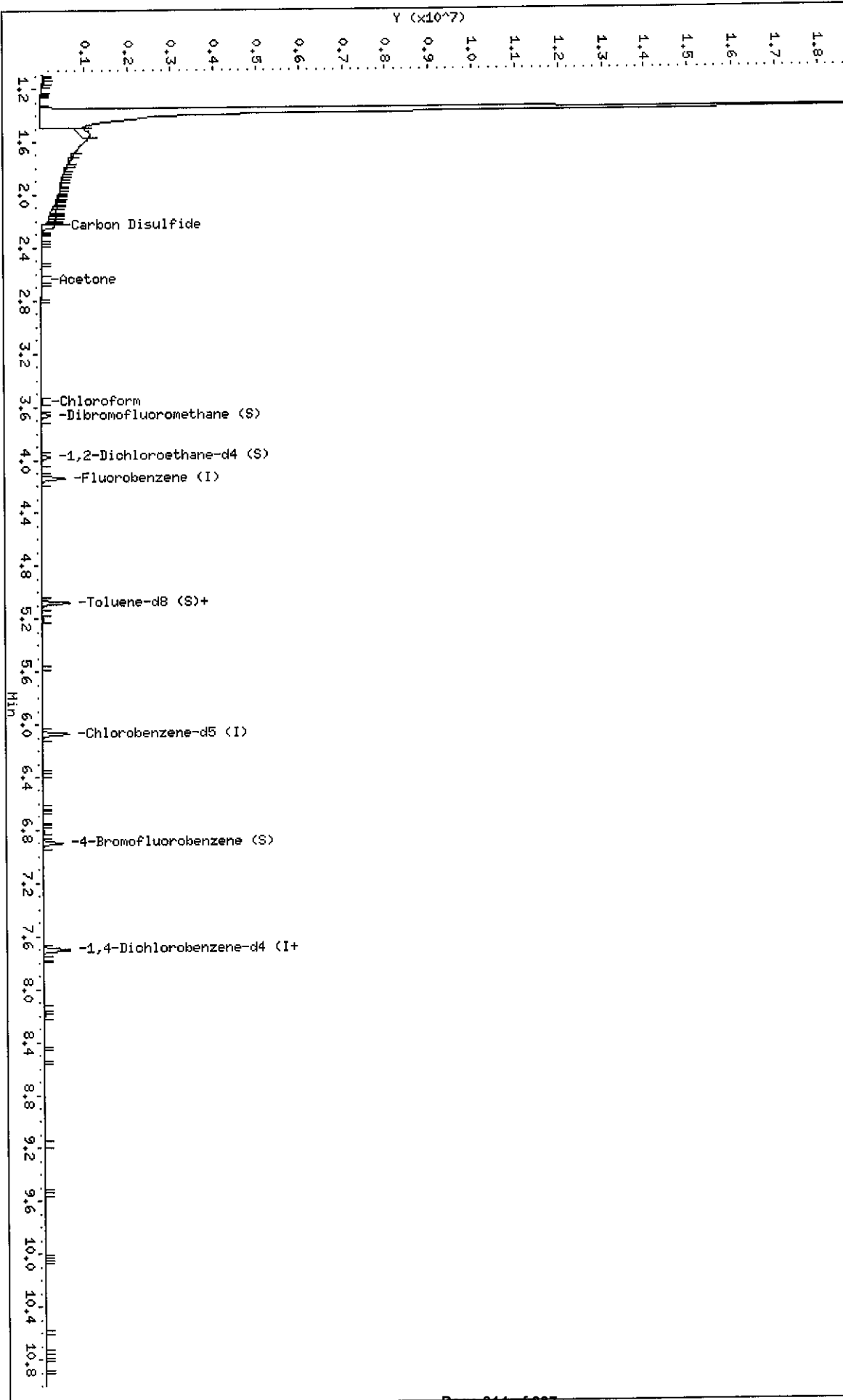
Column phase: RTX-VMS

Instrument: 35msv3.1

Operator: RCF

Column diameter: 0.18

\\35Mintarget\chem\35msv3.1\130811.b\0811009.D



Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130811.b\0811010.D
 Lab Smp Id: 693427
 Inj Date : 11-AUG-2013 18:55
 Operator : RGF
 Smp Info : 693427
 Misc Info : 9341,,SW846-8260B_W
 Comment : SW846-8260B
 Method : \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
 Meth Date : 11-Aug-2013 17:04 bhardesty Quant Type: ISTD
 Cal Date : 25-JUL-2013 09:08 Cal File: 0725005.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: 35V6

Inst ID: 35msv3.i

Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
*****	****	----	----	-----	-----	-----	-----	-----	-----
* 1 Fluorobenzene (I)	96	4.138	4.137	(1.000)	361742	40.0000			
* 2 Chlorobenzene-d5 (I)	82	6.073	6.072	(1.000)	142176	40.0000			
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.703	7.699	(1.000)	131608	40.0000			
\$ 4 Dibromofluoromethane (S)	111	3.663	3.663	(0.885)	93977	38.1206	38.1		
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.981	3.980	(0.962)	101487	36.7133	36.7(Q)		
\$ 6 Toluene-d8 (S)	98	5.081	5.081	(1.228)	327099	37.3204	37.3		
\$ 7 4-Bromofluorobenzene (S)	174	6.897	6.900	(1.136)	102323	37.1497	37.1		
8 Dichlorodifluoromethane	85	Compound Not Detected.							
9 Chloromethane	50	Compound Not Detected.							
10 Vinyl Chloride	62	Compound Not Detected.							
11 Bromomethane	94	Compound Not Detected.							
12 Chloroethane	64	Compound Not Detected.							
13 Trichlorofluoromethane	101	Compound Not Detected.							
14 Ethanol	45	Compound Not Detected.							
158 Ethyl Ether	45	Compound Not Detected.							
15 1,1,2-Trichlorotrifluoroethane	151	Compound Not Detected.							
16 Acrolein	56	Compound Not Detected.							
17 1,1-Dichloroethene	61	Compound Not Detected.							
18 Acetone	43	2.646	2.642	(0.639)	11054	4.11171	4.11(QH)		
19 Iodomethane	142	Compound Not Detected.							
20 Carbon Disulfide	76	Compound Not Detected.							
21 Allyl chloride	41	Compound Not Detected.							

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
22 Acetonitrile	41				Compound Not Detected.			
23 Methylene Chloride	49				Compound Not Detected.			
159 tert-Butyl Alcohol	59				Compound Not Detected.			
24 Methyl-tert-butyl Ether	73				Compound Not Detected.			
25 trans-1,2-Dichloroethene	61				Compound Not Detected.			
165 methyl Acetate	43				Compound Not Detected.			
26 Acrylonitrile	53				Compound Not Detected.			
164 n-hexane	57				Compound Not Detected.			
162 Diisopropyl ether	45				Compound Not Detected.			
27 1,1-Dichloroethane	63				Compound Not Detected.			
28 Vinyl Acetate	43				Compound Not Detected.			
29 Chloroprene	53				Compound Not Detected.			
166 Ethyl-tert-butyl ether	59				Compound Not Detected.			
30 2,2-Dichloropropane	77				Compound Not Detected.			
31 cis-1,2-Dichloroethene	61				Compound Not Detected.			
161 Ethyl Acetate	43				Compound Not Detected.			
32 2-Butanone	43				Compound Not Detected.			
33 Propionitrile	54				Compound Not Detected.			
34 Bromochloromethane	130				Compound Not Detected.			
167 Tetrahydrofuran	42				Compound Not Detected.			
35 Methacrylonitrile	41				Compound Not Detected.			
36 Chloroform	83	3.557	3.557	(0.860)	26647	3.38178	3.38	
172 tert-Butyl Formate	59				Compound Not Detected.			
171 cyclohexane	56				Compound Not Detected.			
37 1,1,1-Trichloroethane	97				Compound Not Detected.			
38 Carbon Tetrachloride	117				Compound Not Detected.			
39 1,1-Dichloropropene	75				Compound Not Detected.			
40 Isobutyl alcohol	43				Compound Not Detected.			
41 Benzene	78				Compound Not Detected.			
163 tert-amyl Alcohol	59				Compound Not Detected.			
169 tert-amyl methyl ether	73				Compound Not Detected.			
42 1,2-Dichloroethane	62				Compound Not Detected.			
43 Trichloroethene	132				Compound Not Detected.			
168 Methylcyclohexane	83				Compound Not Detected.			
44 1,2-Dichloropropane	63				Compound Not Detected.			
45 Methyl methacrylate	69				Compound Not Detected.			
46 1,4-Dioxane	88				Compound Not Detected.			
47 Dibromomethane	174				Compound Not Detected.			
48 Bromodichloromethane	83				Compound Not Detected.			
49 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.			
50 cis-1,3-Dichloropropene	75				Compound Not Detected.			
51 4-Methyl-2-Pentanone	43				Compound Not Detected.			
53 trans-1,3-Dichloropropene	75				Compound Not Detected.			
54 Ethyl methacrylate	41				Compound Not Detected.			
55 1,1,2-Trichloroethane	97				Compound Not Detected.			
56 Tetrachloroethene	166				Compound Not Detected.			
57 1,3-Dichloropropane	76				Compound Not Detected.			
58 2-Hexanone	43				Compound Not Detected.			
59 Dibromochloromethane	129				Compound Not Detected.			
160 3,3-dimethyl-1-butanol	57				Compound Not Detected.			
60 1,2-Dibromoethane	107				Compound Not Detected.			
61 Chlorobenzene	112				Compound Not Detected.			
62 Ethylbenzene	91				Compound Not Detected.			
63 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			

Compounds	QUANT SIG MASS					CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
64 m&p-Xylene	91	Compound	Not	Detected.				
65 o-Xylene	91	Compound	Not	Detected.				
66 Styrene	104	Compound	Not	Detected.				
67 Bromoform	173	Compound	Not	Detected.				
68 Isopropylbenzene (cumene)	105	Compound	Not	Detected.				
69 Bromobenzene	77	Compound	Not	Detected.				
70 1,1,2,2-Tetrachloroethane	83	Compound	Not	Detected.				
71 n-Propylbenzene	91	Compound	Not	Detected.				
72 1,2,3-Trichloropropane	75	Compound	Not	Detected.				
73 trans 1,4-Dichloro-2-butene	53	Compound	Not	Detected.				
170 cis-1,4-dichloro-2-butene	53	Compound	Not	Detected.				
74 2-Chlorotoluene	91	Compound	Not	Detected.				
75 1,3,5-Trimethylbenzene	105	Compound	Not	Detected.				
76 4-Chlorotoluene	91	Compound	Not	Detected.				
77 tert-Butylbenzene	119	Compound	Not	Detected.				
78 1,2,4-Trimethylbenzene	105	Compound	Not	Detected.				
79 Pentachloroethane	167	Compound	Not	Detected.				
80 sec-Butylbenzene	105	Compound	Not	Detected.				
81 p-Isopropyltoluene	119	Compound	Not	Detected.				
82 1,3-Dichlorobenzene	146	Compound	Not	Detected.				
84 1,2,3-Trimethylbenzene	105	Compound	Not	Detected.				
85 n-Butylbenzene	91	Compound	Not	Detected.				
86 1,2-Dichlorobenzene	146	Compound	Not	Detected.				
87 1,2-Dibromo-3-Chloropropane	75	Compound	Not	Detected.				
88 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.				
89 Hexachloro-1,3-butadiene	225	Compound	Not	Detected.				
90 Naphthalene	128	Compound	Not	Detected.				
91 1,2,3-Trichlorobenzene	180	Compound	Not	Detected.				

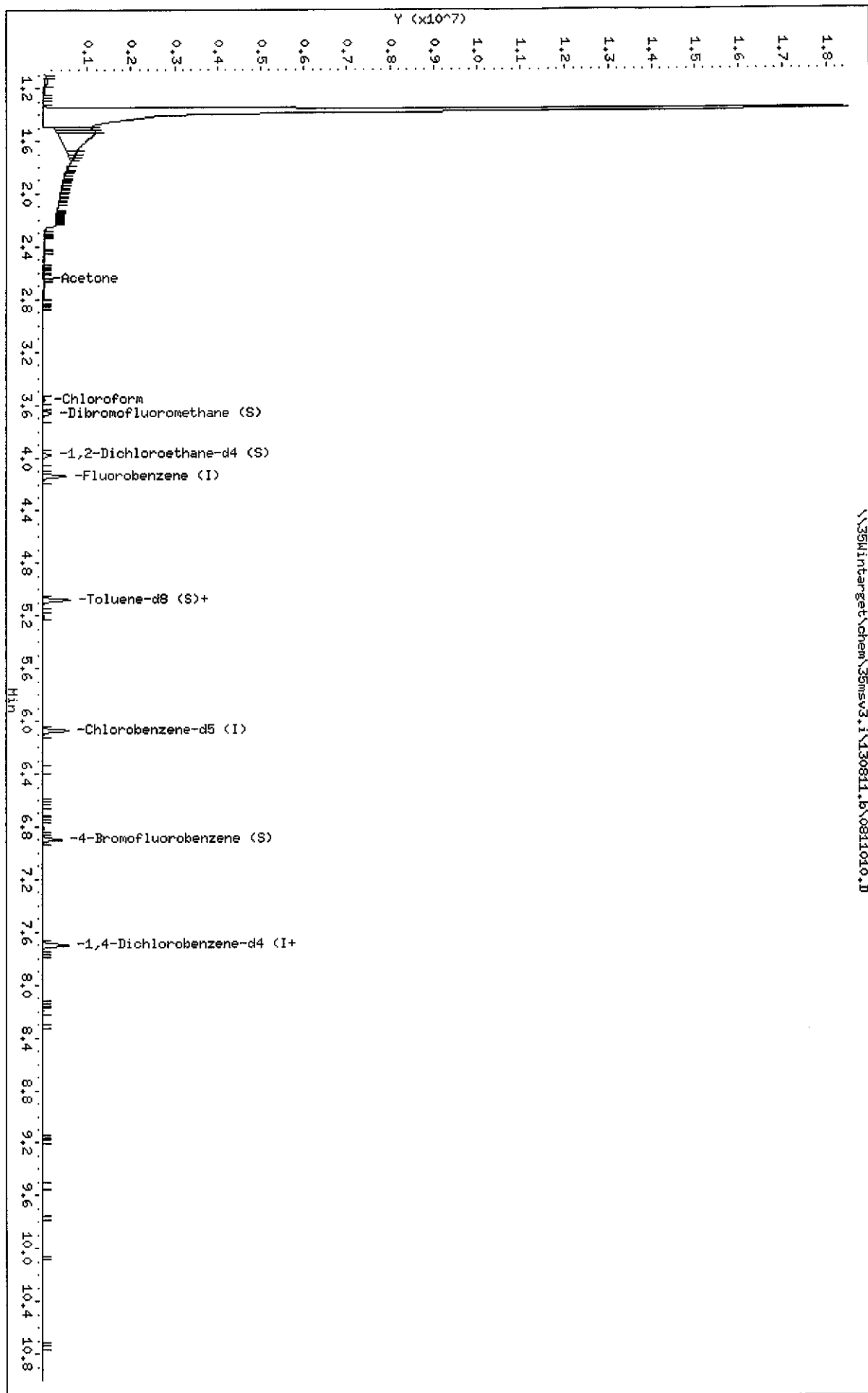
QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\35WinTarget\chem\35msv3.i\130811.b\0811010.D
Date : 11-AUG-2013 18:55

Client ID:
Sample Info: 693427
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: 35msv3.i
Operator: RGF
Column diameter: 0.18



Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130811.b\0811011.D
Lab Smp Id: 35103494005
Inj Date : 11-AUG-2013 19:19
Operator : RGF
Smp Info : 35103494005
Misc Info : 9341,,SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
Meth Date : 11-Aug-2013 17:04 bhardesty Quant Type: ISTD
Cal Date : 25-JUL-2013 09:08 Cal File: 0725005.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: 35V6

Inst ID: 35msv3.i

Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW CODE
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
* 1 Fluorobenzene (I)	96		4.138	4.137 (1.000)		357577	40.0000		
* 2 Chlorobenzene-d5 (I)	82		6.073	6.072 (1.000)		139441	40.0000		
* 3 1,4-Dichlorobenzene-d4 (I)	152		7.700	7.699 (1.000)		131595	40.0000		
\$ 4 Dibromofluoromethane (S)	111		3.663	3.663 (0.885)		94879	38.9347	38.9	
\$ 5 1,2-Dichloroethane-d4 (S)	65		3.977	3.980 (0.961)		101932	37.3038	37.3 (Q)	
\$ 6 Toluene-d8 (S)	98		5.081	5.081 (1.228)		325048	37.5184	37.5	
\$ 7 4-Bromofluorobenzene (S)	174		6.901	6.900 (1.136)		102214	37.8380	37.8	
8 Dichlorodifluoromethane	85		Compound Not Detected.						
9 Chloromethane	50		Compound Not Detected.						
10 Vinyl Chloride	62		Compound Not Detected.						
11 Bromomethane	94		Compound Not Detected.						
12 Chloroethane	64		Compound Not Detected.						
13 Trichlorofluoromethane	101		Compound Not Detected.						
14 Ethanol	45		Compound Not Detected.						
158 Ethyl Ether	45		Compound Not Detected.						
15 1,1,2-Trichlorotrifluoroethan	151		Compound Not Detected.						
16 Acrolein	56		Compound Not Detected.						
17 1,1-Dichloroethene	61		Compound Not Detected.						
18 Acetone	43		Compound Not Detected.						
19 Iodomethane	142		Compound Not Detected.						
21 Allyl chloride	41		Compound Not Detected.						
22 Acetonitrile	41		Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
23 Methylene Chloride	49				Compound Not Detected.			
159 tert-Butyl Alcohol	59				Compound Not Detected.			
24 Methyl-tert-butyl Ether	73				Compound Not Detected.			
25 trans-1,2-Dichloroethene	61				Compound Not Detected.			
165 methyl Acetate	43				Compound Not Detected.			
26 Acrylonitrile	53				Compound Not Detected.			
164 n-hexane	57				Compound Not Detected.			
162 Diisopropyl ether	45				Compound Not Detected.			
27 1,1-Dichloroethane	63				Compound Not Detected.			
28 Vinyl Acetate	43				Compound Not Detected.			
29 Chloroprene	53				Compound Not Detected.			
166 Ethyl-tert-butyl ether	59				Compound Not Detected.			
30 2,2-Dichloropropane	77				Compound Not Detected.			
31 cis-1,2-Dichloroethene	61				Compound Not Detected.			
161 Ethyl Acetate	43				Compound Not Detected.			
32 2-Butanone	43				Compound Not Detected.			
33 Propionitrile	54				Compound Not Detected.			
34 Bromochloromethane	130				Compound Not Detected.			
167 Tetrahydrofuran	42				Compound Not Detected.			
35 Methacrylonitrile	41				Compound Not Detected.			
36 Chloroform	83	3.554	3.557	(0.859)	20166	2.58908	2.59(Q)	
172 tert-Butyl Formate	59				Compound Not Detected.			
171 cyclohexane	56				Compound Not Detected.			
37 1,1,1-Trichloroethane	97				Compound Not Detected.			
38 Carbon Tetrachloride	117				Compound Not Detected.			
39 1,1-Dichloropropene	75				Compound Not Detected.			
40 Isobutyl alcohol	43				Compound Not Detected.			
41 Benzene	78				Compound Not Detected.			
163 tert-amyl Alcohol	59				Compound Not Detected.			
169 tert-amyl methyl ether	73				Compound Not Detected.			
42 1,2-Dichloroethane	62				Compound Not Detected.			
43 Trichloroethene	132				Compound Not Detected.			
168 Methylcyclohexane	83				Compound Not Detected.			
44 1,2-Dichloropropane	63				Compound Not Detected.			
45 Methyl methacrylate	69				Compound Not Detected.			
46 1,4-Dioxane	88				Compound Not Detected.			
47 Dibromomethane	174				Compound Not Detected.			
48 Bromodichloromethane	83				Compound Not Detected.			
49 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.			
50 cis-1,3-Dichloropropene	75				Compound Not Detected.			
51 4-Methyl-2-Pentanone	43				Compound Not Detected.			
53 trans-1,3-Dichloropropene	75				Compound Not Detected.			
54 Ethyl methacrylate	41				Compound Not Detected.			
55 1,1,2-Trichloroethane	97				Compound Not Detected.			
56 Tetrachloroethene	166				Compound Not Detected.			
57 1,3-Dichloropropane	76				Compound Not Detected.			
58 2-Hexanone	43				Compound Not Detected.			
59 Dibromochloromethane	129				Compound Not Detected.			
160 3,3-dimethyl-1-butanol	57				Compound Not Detected.			
60 1,2-Dibromoethane	107				Compound Not Detected.			
61 Chlorobenzene	112				Compound Not Detected.			
62 Ethylbenzene	91				Compound Not Detected.			
63 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			
64 m&p-Xylene	91				Compound Not Detected.			

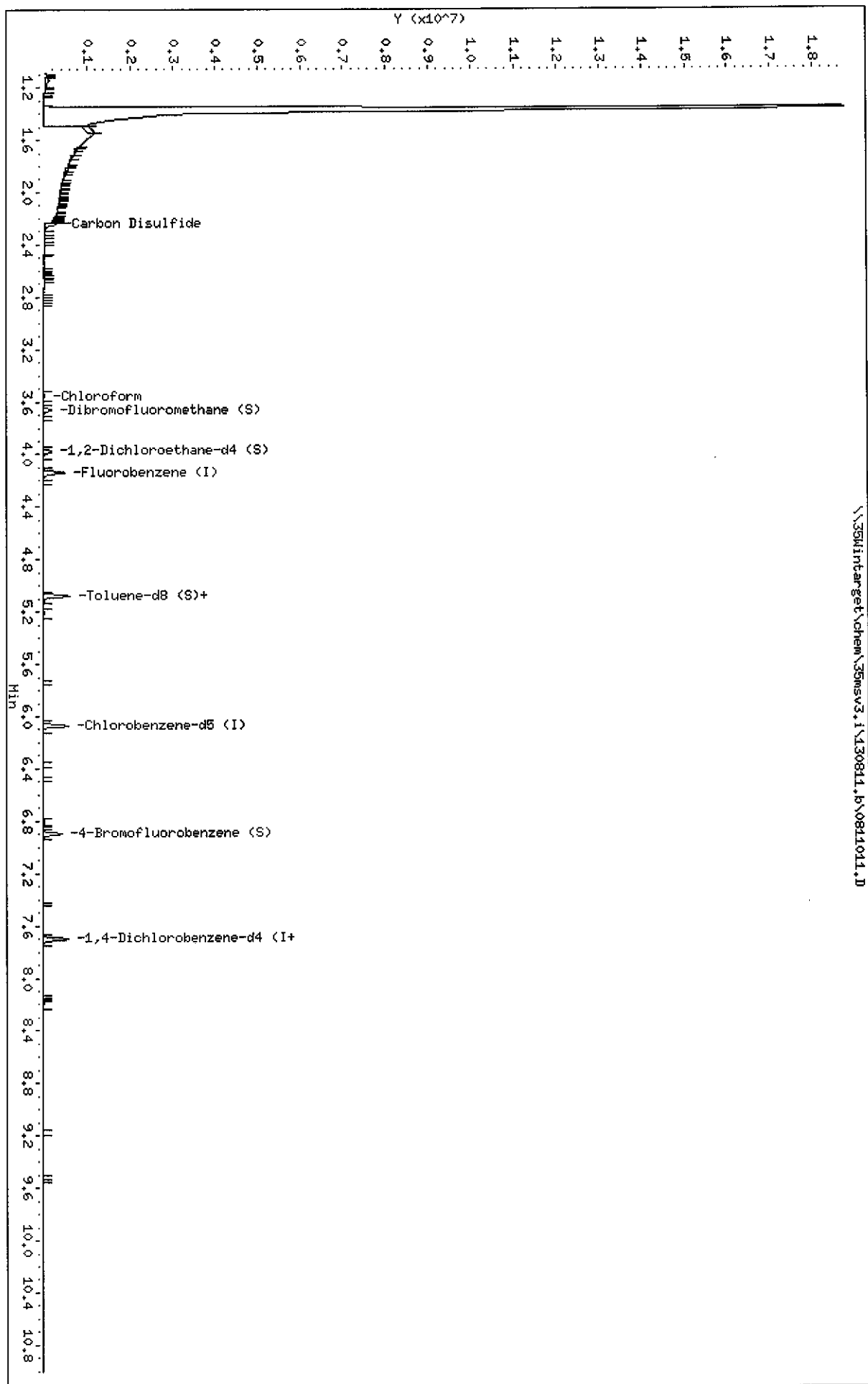
Compounds	QUANT SIG MASS					CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	====	=====	=====	=====	=====	=====	=====
65 o-Xylene	91				Compound Not Detected.			
66 Styrene	104				Compound Not Detected.			
67 Bromoform	173				Compound Not Detected.			
68 Isopropylbenzene (cumene)	105				Compound Not Detected.			
69 Bromobenzene	77				Compound Not Detected.			
70 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
71 n-Propylbenzene	91				Compound Not Detected.			
72 1,2,3-Trichloropropane	75				Compound Not Detected.			
73 trans 1,4-Dichloro-2-butene	53				Compound Not Detected.			
170 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
74 2-Chlorotoluene	91				Compound Not Detected.			
75 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
76 4-Chlorotoluene	91				Compound Not Detected.			
77 tert-Butylbenzene	119				Compound Not Detected.			
78 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
79 Pentachloroethane	167				Compound Not Detected.			
80 sec-Butylbenzene	105				Compound Not Detected.			
81 p-Isopropyltoluene	119				Compound Not Detected.			
82 1,3-Dichlorobenzene	146				Compound Not Detected.			
84 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
85 n-Butylbenzene	91				Compound Not Detected.			
86 1,2-Dichlorobenzene	146				Compound Not Detected.			
87 1,2-Dibromo-3-Chloropropane	75				Compound Not Detected.			
88 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
89 Hexachloro-1,3-butadiene	225				Compound Not Detected.			
90 Naphthalene	128				Compound Not Detected.			
91 1,2,3-Trichlorobenzene	180				Compound Not Detected.			

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\35Mintarget\chem\35msv3.i\130811.b\0811011.D
Date : 11-AUG-2013 13:19
Client ID:
Sample Info: 35103494005
Purge Volume: 5.0
Column phase: RTX-VHS

Instrument: 35msv3.i
Operator: RGF
Column diameter: 0.18



Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130811.b\0811014.D
Lab Smp Id: 35103494006
Inj Date : 11-AUG-2013 20:32
Operator : RGF
Smp Info : 35103494006
Misc Info : 9341,,SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
Meth Date : 11-Aug-2013 17:04 bhardesty Quant Type: ISTD
Cal Date : 25-JUL-2013 09:08 Cal File: 0725005.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: 35V6

Inst ID: 35msv3.i

Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS				
		QUANT	SIG				ON-COLUMN	FINAL		
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE	
=====		=====	=====	=====	=====	=====	=====	=====	=====	
*	1 Fluorobenzene (I)	96	4.138	4.137	{1.000}	356009	40.0000			
*	2 Chlorobenzene-d5 (I)	82	6.069	6.072	{1.000}	138610	40.0000			
*	3 1,4-Dichlorobenzene-d4 (I)	152	7.700	7.699	{1.000}	128282	40.0000			
\$	4 Dibromofluoromethane (S)	111	3.663	3.663	{0.885}	92874	38.2798	38.3		
\$	5 1,2-Dichloroethane-d4 (S)	65	3.977	3.980	{0.961}	101557	37.3303	37.3 (Q)		
\$	6 Toluene-d8 (S)	98	5.078	5.081	{1.227}	322613	37.4014	37.4		
\$	7 4-Bromofluorobenzene (S)	174	6.897	6.900	{1.136}	99962	37.2262	37.2		
	8 Dichlorodifluoromethane	85	Compound Not Detected.							
	9 Chloromethane	50	Compound Not Detected.							
	10 Vinyl Chloride	62	Compound Not Detected.							
	11 Bromomethane	94	Compound Not Detected.							
	12 Chloroethane	64	Compound Not Detected.							
	13 Trichlorofluoromethane	101	Compound Not Detected.							
	14 Ethanol	45	Compound Not Detected.							
	158 Ethyl Ether	45	Compound Not Detected.							
	15 1,1,2-Trichlorotrifluoroethan	151	Compound Not Detected.							
	16 Acrolein	56	Compound Not Detected.							
	17 1,1-Dichloroethene	61	Compound Not Detected.							
	18 Acetone	43	2.649	2.642	{0.640}	13651	4.96450	4.96 (Q)		
	19 Iodomethane	142	Compound Not Detected.							
	20 Carbon Disulfide	76	Compound Not Detected.							
	21 Allyl chloride	41	Compound Not Detected.							

Compounds	QUANT SIG MASS						CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====		=====	=====	=====
22 Acetonitrile	41				Compound Not Detected.				
23 Methylene Chloride	49				Compound Not Detected.				
159 tert-Butyl Alcohol	59				Compound Not Detected.				
24 Methyl-tert-butyl Ether	73				Compound Not Detected.				
25 trans-1,2-Dichloroethene	61				Compound Not Detected.				
165 methyl Acetate	43				Compound Not Detected.				
26 Acrylonitrile	53				Compound Not Detected.				
164 n-hexane	57				Compound Not Detected.				
162 Diisopropyl ether	45				Compound Not Detected.				
27 1,1-Dichloroethane	63				Compound Not Detected.				
28 Vinyl Acetate	43				Compound Not Detected.				
29 Chloroprene	53				Compound Not Detected.				
166 Ethyl-tert-butyl ether	59				Compound Not Detected.				
30 2,2-Dichloropropane	77				Compound Not Detected.				
31 cis-1,2-Dichloroethene	61				Compound Not Detected.				
161 Ethyl Acetate	43				Compound Not Detected.				
32 2-Butanone	43	3.746	3.746	(0.905)	13817		3.31805	3.32 (Q)	
33 Propionitrile	54				Compound Not Detected.				
34 Bromochloromethane	130				Compound Not Detected.				
167 Tetrahydrofuran	42				Compound Not Detected.				
35 Methacrylonitrile	41				Compound Not Detected.				
36 Chloroform	83				Compound Not Detected.				
172 tert-Butyl Formate	59				Compound Not Detected.				
171 cyclohexane	56				Compound Not Detected.				
37 1,1,1-Trichloroethane	97				Compound Not Detected.				
38 Carbon Tetrachloride	117				Compound Not Detected.				
39 1,1-Dichloropropene	75				Compound Not Detected.				
40 Isobutyl alcohol	43				Compound Not Detected.				
41 Benzene	78				Compound Not Detected.				
163 tert-amyl Alcohol	59				Compound Not Detected.				
169 tert-amyl methyl ether	73				Compound Not Detected.				
42 1,2-Dichloroethane	62				Compound Not Detected.				
43 Trichloroethene	132				Compound Not Detected.				
168 Methylcyclohexane	83				Compound Not Detected.				
44 1,2-Dichloropropane	63				Compound Not Detected.				
45 Methyl methacrylate	69				Compound Not Detected.				
46 1,4-Dioxane	88				Compound Not Detected.				
47 Dibromomethane	174				Compound Not Detected.				
48 Bromodichloromethane	83				Compound Not Detected.				
49 2-Chloroethyl Vinyl Ether	63				Compound Not Detected.				
50 cis-1,3-Dichloropropene	75				Compound Not Detected.				
51 4-Methyl-2-Pentanone	43				Compound Not Detected.				
53 trans-1,3-Dichloropropene	75				Compound Not Detected.				
54 Ethyl methacrylate	41				Compound Not Detected.				
55 1,1,2-Trichloroethane	97				Compound Not Detected.				
56 Tetrachloroethene	166				Compound Not Detected.				
57 1,3-Dichloropropane	76				Compound Not Detected.				
58 2-Hexanone	43				Compound Not Detected.				
59 Dibromochloromethane	129				Compound Not Detected.				
160 3,3-dimethyl-1-butanol	57				Compound Not Detected.				
60 1,2-Dibromoethane	107				Compound Not Detected.				
61 Chlorobenzene	112				Compound Not Detected.				
62 Ethylbenzene	91				Compound Not Detected.				
63 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.				

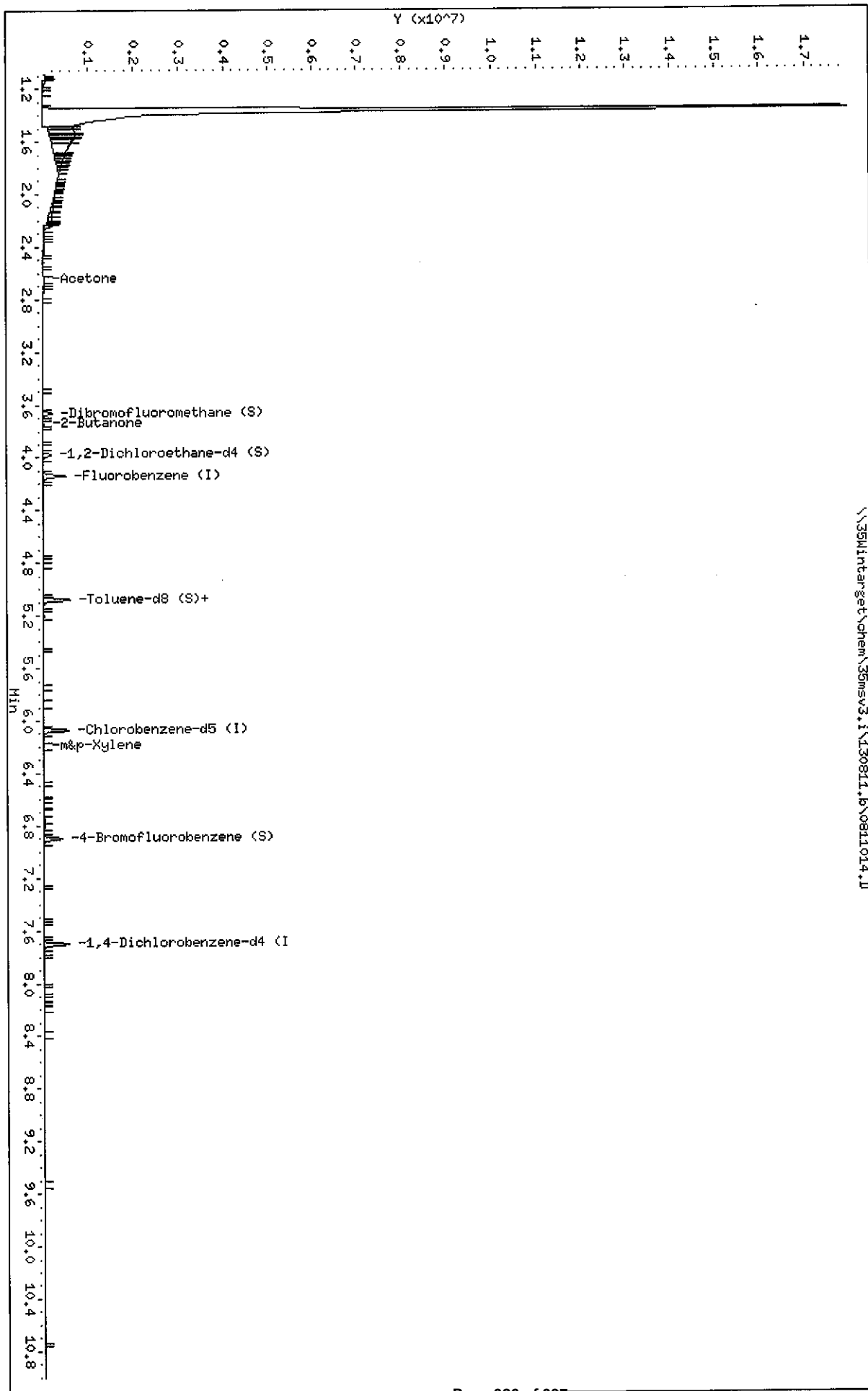
Compounds	QUANT SIG					CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
65 o-Xylene	91	Compound	Not	Detected.				
66 Styrene	104	Compound	Not	Detected.				
67 Bromoform	173	Compound	Not	Detected.				
68 Isopropylbenzene (cumene)	105	Compound	Not	Detected.				
69 Bromobenzene	77	Compound	Not	Detected.				
70 1,1,2,2-Tetrachloroethane	83	Compound	Not	Detected.				
71 n-Propylbenzene	91	Compound	Not	Detected.				
72 1,2,3-Trichloropropane	75	Compound	Not	Detected.				
73 trans 1,4-Dichloro-2-butene	53	Compound	Not	Detected.				
170 cis-1,4-dichloro-2-butene	53	Compound	Not	Detected.				
74 2-Chlorotoluene	91	Compound	Not	Detected.				
75 1,3,5-Trimethylbenzene	105	Compound	Not	Detected.				
76 4-Chlorotoluene	91	Compound	Not	Detected.				
77 tert-Butylbenzene	119	Compound	Not	Detected.				
78 1,2,4-Trimethylbenzene	105	Compound	Not	Detected.				
79 Pentachloroethane	167	Compound	Not	Detected.				
80 sec-Butylbenzene	105	Compound	Not	Detected.				
81 p-Isopropyltoluene	119	Compound	Not	Detected.				
82 1,3-Dichlorobenzene	146	Compound	Not	Detected.				
83 1,4-Dichlorobenzene	146	Compound	Not	Detected.				
84 1,2,3-Trimethylbenzene	105	Compound	Not	Detected.				
85 n-Butylbenzene	91	Compound	Not	Detected.				
86 1,2-Dichlorobenzene	146	Compound	Not	Detected.				
87 1,2-Dibromo-3-Chloropropane	75	Compound	Not	Detected.				
88 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.				
89 Hexachloro-1,3-butadiene	225	Compound	Not	Detected.				
90 Naphthalene	128	Compound	Not	Detected.				
91 1,2,3-Trichlorobenzene	180	Compound	Not	Detected.				

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\35Mintarget\chem\35msv3.i\130811.b\0811014.D
Date: 11-AUG-2013 20:32
Client ID:
Sample Info: 35103494006
Purge Volume: 5.0
Column phase: RTX-VHS

Instrument: 35msv3.i
Operator: RGF
Column diameter: 0.18



Pace Analytical Services, Inc.

SW846-8260B

Data file : \\35Wintarget\chem\35msv3.i\130811.b\0811024.D
Lab Smp Id: 693426
Inj Date : 12-AUG-2013 00:38
Operator : RGF
Smp Info : 693426
Misc Info : 9341,,SW846-8260B_W
Comment : SW846-8260B
Method : \\35Wintarget\chem\35msv3.i\130811.b\8260-3-130724.m
Meth Date : 11-Aug-2013 17:04 bhardesty
Cal Date : 25-JUL-2013 09:08
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: 35V6

Inst ID: 35msv3.i

Quant Type: ISTD
Cal File: 0725005.D
QC Sample: MS

Compound Sublist: all.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN	FINAL	
	MASS					(ug/L)	(ug/L)	
*****	----	----	-----	-----	-----	-----	-----	-----
* 1 Fluorobenzene (I)	96	4.137	4.137	(1.000)	371520	40.0000		
* 2 Chlorobenzene-d5 (I)	82	6.072	6.072	(1.000)	148315	40.0000		
* 3 1,4-Dichlorobenzene-d4 (I)	152	7.702	7.699	(1.000)	155982	40.0000		
\$ 4 Dibromofluoromethane (S)	111	3.662	3.663	(0.885)	96174	37.9850	38.0	
\$ 5 1,2-Dichloroethane-d4 (S)	65	3.980	3.980	(0.962)	98332	34.6358	34.6 (Q)	
\$ 6 Toluene-d8 (S)	98	5.080	5.081	(1.228)	333434	37.0420	37.0	
\$ 7 4-Bromofluorobenzene (S)	174	6.900	6.900	(1.136)	109848	38.2310	38.2	
8 Dichlorodifluoromethane	85	1.256	1.253	(0.304)	79102	17.1252	17.1	
9 Chloromethane	50	1.361	1.420	(0.329)	543317	157.062	157 (Q)	
10 Vinyl Chloride	62	1.455	1.455	(0.352)	127385	21.4470	21.4 (QM)	NI
11 Bromomethane	94	1.692	1.692	(0.409)	21188	22.8189	22.8	
12 Chloroethane	64	1.785	1.785	(0.432)	55707	14.2847	14.3 (QM)	NI
13 Trichlorofluoromethane	101	1.885	1.885	(0.456)	158945	20.1237	20.1	
14 Ethanol	45	2.096	2.097	(0.507)	58259	3735.26	3740 (A)	
158 Ethyl Ether	45	2.096	2.097	(0.507)	58259	17.0576	17.0	
15 1,1,2-Trichlorotrifluoroethan	151	2.257	2.254	(0.546)	100936	22.4905	22.5	
16 Acrolein	56	2.469	2.453	(0.597)	9126	13.2639	13.3 (Q)	
17 1,1-Dichloroethene	61	2.228	2.228	(0.539)	164940	22.0384	22.0	
18 Acetone	43	2.648	2.642	(0.640)	30526	9.76362	9.76 (Q)	
19 Iodomethane	142	2.324	2.321	(0.562)	106940	32.2513	32.2	
20 Carbon Disulfide	76	2.247	2.247	(0.543)	283813	20.0758	20.1	
21 Allyl chloride	41	2.536	2.536	(0.613)	150088	21.2657	21.3	

Compounds	QUANT SIG MASS					CONCENTRATIONS		REVIEW CODE
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
22 Acetonitrile	41	2.940	2.937	(0.711)	25494	49.4251	49.4 (Q)	
23 Methylene Chloride	49	2.603	2.604	(0.629)	141593	20.0634	20.1	
159 tert-Butyl Alcohol	59	3.219	3.217	(0.778)	510912	170.053	170	
24 Methyl-tert-butyl Ether	73	2.773	2.774	(0.670)	258828	16.6184	16.6	
25 trans-1,2-Dichloroethene	61	2.703	2.700	(0.653)	156435	20.0083	20.0	
165 methyl Acetate	43	2.719	2.716	(0.657)	43367	11.5241	11.5	
26 Acrylonitrile	53	3.120	3.120	(0.754)	252461	138.729	139 (M)	BA
164 n-hexane	57	2.744	2.748	(0.663)	245398	21.2470	21.2	
162 Diisopropyl ether	45	3.001	3.002	(0.725)	256189	14.2208	14.2	
27 1,1-Dichloroethane	63	3.081	3.079	(0.745)	172098	18.7378	18.7	
28 Vinyl Acetate	43	3.229	3.226	(0.781)	359748	14.6143	14.6	
29 Chloroprene	53	3.065	3.066	(0.741)	125455	15.5741	15.6	
166 Ethyl-tert-butyl ether	59	3.219	3.217	(0.778)	510912	17.0053	17.0	
30 2,2-Dichloropropane	77	3.463	3.464	(0.837)	135483	19.5211	19.5	
31 cis-1,2-Dichloroethene	61	3.399	3.399	(0.822)	128422	19.8270	19.8	
161 Ethyl Acetate	43	3.627	3.627	(0.877)	124370	26.1237	26.1	
32 2-Butanone	43	3.742	3.746	(0.905)	58410	13.4411	13.4 (Q)	
33 Propionitrile	54	3.929	3.922	(0.950)	98349	133.968	134 (Q)	
34 Bromochloromethane	130	3.521	3.518	(0.851)	58814	20.2092	20.2	
167 Tetrahydrofuran	42	3.662	3.659	(0.885)	207846	149.619	150 (Q)	
35 Methacrylonitrile	41	3.929	3.929	(0.950)	606673	171.379	171	
36 Chloroform	83	3.556	3.557	(0.860)	188909	23.3435	23.3	
172 tert-Butyl Formate	59	3.219	3.217	(0.778)	510912	85.0264	85.0	
171 cyclohexane	56	3.518	3.515	(0.850)	160023	19.9612	20.0	
37 1,1,1-Trichloroethane	97	3.681	3.682	(0.890)	156077	21.2658	21.3	
38 Carbon Tetrachloride	117	3.640	3.637	(0.880)	123318	21.6554	21.6	
39 1,1-Dichloropropene	75	3.749	3.749	(0.906)	129093	20.9008	20.9	
40 Isobutyl alcohol	43	3.957	3.958	(0.957)	169110	950.473	950	
41 Benzene	78	3.900	3.897	(0.943)	380493	19.8517	19.8	
163 tert-amyl Alcohol	59	4.076	4.077	(0.985)	82268	253.710	254 (Q)	
169 tert-amyl methyl ether	73	3.957	3.958	(0.957)	515371	17.4265	17.4	
42 1,2-Dichloroethane	62	4.022	4.019	(0.972)	122265	17.8106	17.8	
43 Trichloroethene	132	4.237	4.237	(1.024)	111727	19.3908	19.4	
168 Methylcyclohexane	83	4.230	4.231	(1.022)	169863	21.2005	21.2	
44 1,2-Dichloropropane	63	4.554	4.551	(1.101)	97552	19.5282	19.5	
45 Methyl methacrylate	69	4.670	4.670	(1.129)	53503	16.0367	16.0	
46 1,4-Dioxane	88	4.833	4.837	(1.168)	174	7.53459	7.53 (Q)	
47 Dibromomethane	174	4.493	4.494	(1.086)	63744	18.7818	18.8	
48 Bromodichloromethane	83	4.583	4.583	(1.108)	119973	19.9097	19.9	
49 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.						
50 cis-1,3-Dichloropropene	75	4.965	4.965	(1.200)	126986	15.8909	15.9	
51 4-Methyl-2-Pentanone	43	5.344	5.344	(0.880)	171744	17.7262	17.7	
52 Toluene	91	5.113	5.110	(0.842)	433457	20.9987	21.0	
53 trans-1,3-Dichloropropene	75	5.369	5.366	(0.884)	135193	18.7693	18.8	
54 Ethyl methacrylate	41	5.456	5.459	(0.899)	77664	17.4539	17.4	
55 1,1,2-Trichloroethane	97	5.472	5.472	(0.901)	88801	20.0655	20.1	
56 Tetrachloroethene	166	5.353	5.354	(0.882)	123493	20.5594	20.6	
57 1,3-Dichloropropane	76	5.648	5.649	(0.930)	146125	19.8143	19.8	
58 2-Hexanone	43	5.879	5.877	(0.968)	137085	17.4496	17.4	
59 Dibromochloromethane	129	5.584	5.588	(0.920)	85609	20.0367	20.0	
160 3,3-dimethyl-1-butanol	57	5.857	5.854	(0.965)	123866	318.607	319	
60 1,2-Dibromoethane	107	5.748	5.745	(0.947)	84721	19.0107	19.0	
61 Chlorobenzene	112	6.085	6.085	(1.002)	306461	20.5099	20.5	
62 Ethylbenzene	91	6.098	6.095	(1.004)	511836	20.5809	20.6	

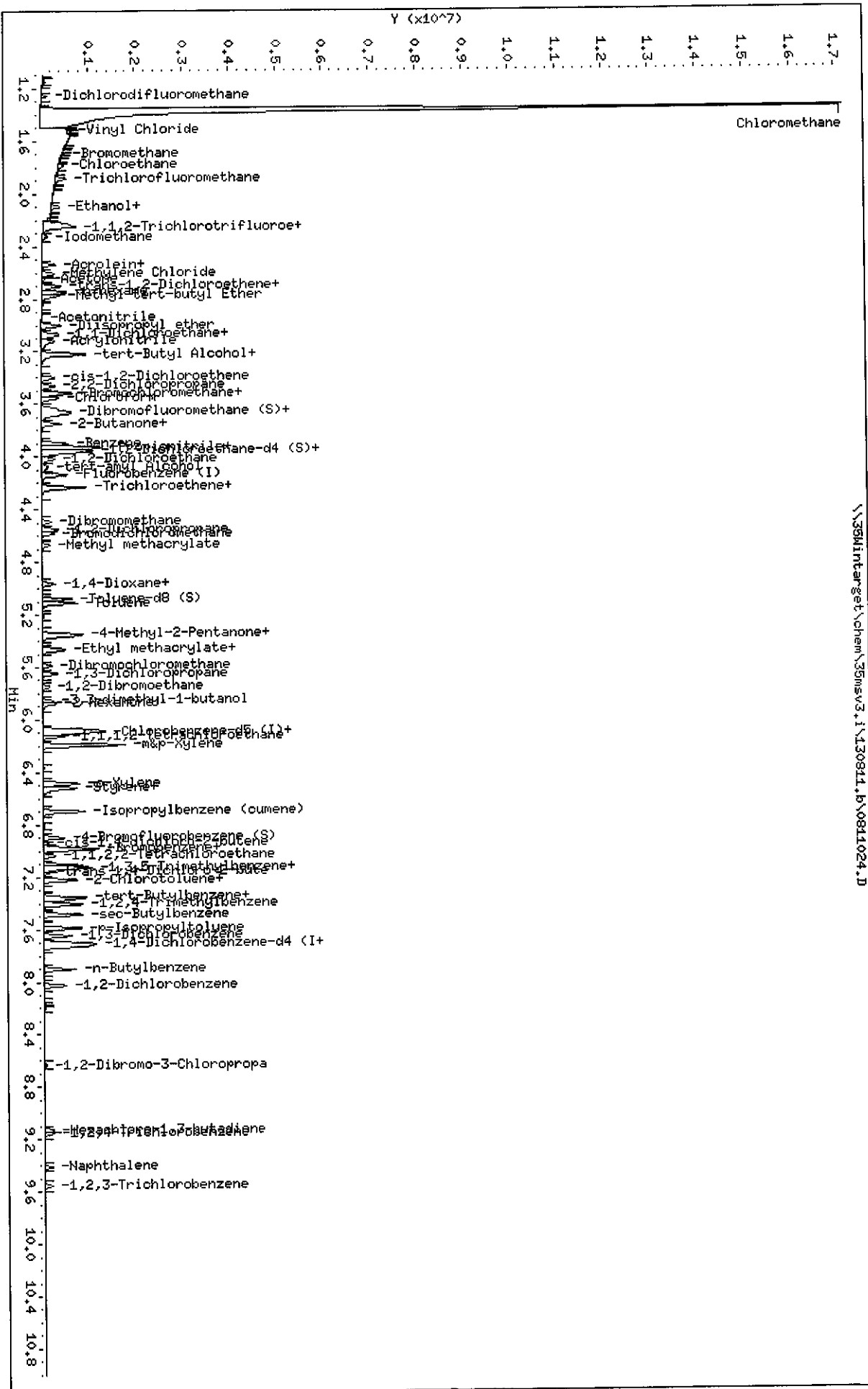
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
						ON-COLUMN (ug/L)	FINAL (ug/L)	
=====	=====	=====	=====	=====	=====	=====	=====	=====
63 1,1,1,2-Tetrachloroethane	131	6.123	6.124	(1.008)	96099	19.4948	19.5	
64 m&p-Xylene	91	6.191	6.191	(1.020)	799547	42.4566	42.4	
65 o-Xylene	91	6.486	6.483	(1.068)	371323	19.4890	19.5	
66 Styrene	104	6.521	6.518	(1.074)	297295	18.2406	18.2	
67 Bromoform	173	6.544	6.541	(1.078)	46291	19.6957	19.7	
68 Isopropylbenzene (cumene)	105	6.698	6.698	(1.103)	469916	19.9530	20.0	
69 Bromobenzene	77	6.977	6.977	(0.906)	196960	18.3937	18.4	
70 1,1,2,2-Tetrachloroethane	83	7.035	7.035	(0.913)	102431	17.9397	17.9	
71 n-Propylbenzene	91	6.986	6.987	(0.907)	605588	20.0754	20.1	
72 1,2,3-Trichloropropane	75	7.137	7.138	(0.927)	97679	17.7746	17.8 (M)	BA
73 trans 1,4-Dichloro-2-butene	53	7.166	7.163	(0.930)	17545	16.8664	16.9 (Q)	
170 cis-1,4-dichloro-2-butene	53	6.945	6.945	(0.902)	18821	17.9336	17.9	
74 2-Chlorotoluene	91	7.221	7.221	(0.938)	341848	19.4527	19.4	
75 1,3,5-Trimethylbenzene	105	7.124	7.125	(0.925)	398933	19.4499	19.4	
76 4-Chlorotoluene	91	7.221	7.221	(0.938)	341848	19.4527	19.4	
77 tert-Butylbenzene	119	7.356	7.356	(0.955)	380000	20.5696	20.6	
78 1,2,4-Trimethylbenzene	105	7.407	7.407	(0.962)	381584	18.9673	19.0	
79 Pentachloroethane	167	7.375	7.375	(0.958)	57633	19.3440	19.3	
80 sec-Butylbenzene	105	7.484	7.484	(0.972)	463435	20.3261	20.3	
81 p-Isopropyltoluene	119	7.590	7.587	(0.985)	382549	18.8146	18.8	
82 1,3-Dichlorobenzene	146	7.648	7.648	(0.993)	215324	18.5905	18.6	
83 1,4-Dichlorobenzene	146	7.712	7.712	(1.001)	225198	18.9788	19.0	
84 1,2,3-Trimethylbenzene	105	7.728	7.728	(1.868)	385638	19.1489	19.1	
85 n-Butylbenzene	91	7.901	7.901	(1.026)	308240	18.3519	18.4	
86 1,2-Dichlorobenzene	146	8.026	8.023	(1.042)	180863	18.4632	18.5	
87 1,2-Dibromo-3-Chloropropane	75	8.633	8.633	(1.121)	12691	19.5878	19.6	
88 1,2,4-Trichlorobenzene	180	9.152	9.156	(1.188)	57166	18.2477	18.2	
89 Hexachloro-1,3-butadiene	225	9.130	9.130	(1.185)	30231	20.5478	20.5	
90 Naphthalene	128	9.412	9.413	(1.222)	122356	19.4564	19.4	
91 1,2,3-Trichlorobenzene	180	9.557	9.554	(1.241)	42968	22.3774	22.4	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\35Mintarget\chem\35msv3.i\130814.b\0811024.D
 Date: 12-AUG-2013 00:38
 Client ID:
 Sample Info: 693426
 Purge Volume: 5.0
 Column phase: RTX-VHS

Instrument: 35msv3.i
 Operator: RCF
 Column diameter: 0.18



EPA 624

Logbooks

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 35msv3.1
Column RTX-VMS 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: NA

Method: SW846-8260B_W
Surr. lot:
Cal. std: NA

Path/File	Lab ID	Mtrx/Batch	Type	DF	pH	Method	Date	Time	Oper	Comments
1/0724008.D	CCB	L/,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130720	7/24/13	12:31	SK	NA
1/0724009.D	CCB	L/,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	7/24/13	12:56	SK	
1/0724010.D	CCB	L/,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	7/24/13	13:20	SK	
1/0724011.D	CCB	L/,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	7/24/13	13:44	SK	
1/0724012.D	ICAL1	L/,SW846-8260B_W	CALIB_1	1	< 2	8260-3-130724	7/24/13	14:08	SK	
1/0724013.D	ICAL2	L/,SW846-8260B_W	CALIB_2	1	< 2	8260-3-130724	7/24/13	14:33	SK	
1/0724014.D	ICAL3	L/,SW846-8260B_W	CALIB_3	1	< 2	8260-3-130724	7/24/13	14:57	SK	
1/0724015.D	ICAL4	L/,SW846-8260B_W	CALIB_4	1	< 2	8260-3-130724	7/24/13	15:21	SK	
1/0724016.D	ICAL5	L/,SW846-8260B_W	CALIB_5	1	< 2	8260-3-130724	7/24/13	15:46	SK	
1/0724017.D	ICAL6	L/,SW846-8260B_W	CALIB_6	1	< 2	8260-3-130724	7/24/13	16:10	SK	
1/0724018.D	ICAL7	L/,SW846-8260B_W	CALIB_7	1	< 2	8260-3-130724	7/24/13	16:34	SK	
1/0724019.D	ICAL8	L/,SW846-8260B_W	CALIB_8	1	< 2	8260-3-130724	7/24/13	16:59	SK	
1/0724020.D	ICAL9	L/,SW846-8260B_W	CALIB_9	1	< 2	8260-3-130724	7/24/13	17:23	SK	
1/0724021.D	CCB	L/,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	7/24/13	17:47	SK	
1/0724022.D	CCB	L/,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	7/24/13	18:12	SK	
1/0724023.D	CCB	L/,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	7/24/13	18:36	SK	
1/0724024.D	ICV	L/,SW846-8260B_W	CCALIB_5	1	< 2	8260-3-130724	7/24/13	19:01	SK	
1/0724025.D	LCS	L/,SW846-8260B_W	LCS	1	< 2	8260-3-130724	7/24/13	19:25	SK	
1/0725001.D	CCB	L/,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	7/25/13	07:21	SK	
1/0725002.D	CCB	L/,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	7/25/13	07:45	SK	
1/0725003.D	ICAL7	L/,SW846-8260B_W	CALIB_7	1	< 2	8260-3-130724	7/25/13	08:19	SK	
1/0725004.D	ICAL8	L/,SW846-8260B_W	CALIB_8	1	< 2	8260-3-130724	7/25/13	08:44	SK	
1/0725005.D	ICAL9	L/,SW846-8260B_W	CALIB_9	1	< 2	8260-3-130724	7/25/13	09:08	SK	

Check Maintenance Items Performed:

☐ Changed septum ☐ Clipped column ☐ Changed column (lot # _____)
☐ Cleaned liner ☐ Changed trap (lot # _____) ☐ Other minor parts replaced _____
☐ Replaced/Cleaned gold seal ☐ Cleaned MS source ☐ No maintenance performed today

Additional Comments:

Run Order Verified: SLB/21/13

File Path 1: \\35Wintarget\chem\35msv3.1\130724ICAL.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:01 08/21/2013

Reviewed By/Date: _____ Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 35msv3.1

Column RTX-VMS 20m X 0.18mm Helium

Method:

Misc. Prep Info [L]:

ISTD lot:

Surr. lot:

Tune std: _____

Cal. std: _____

Path/File	Lab ID	Mtrix/Batch	Type	DF	pH	Method	Date	Time	Oper	Comments
1/0811001.D	CCB	L/, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	15:09	RGF	
1/0811002.D	CCB	L/, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	15:34	RGF	
1/0811003.D	CCV	L/, ,SW846-8260B_W	CCALIB 5	1	< 2	8260-3-130724	8/11/13	15:58	RGF	
1/0811004.D	693425	L/9341, ,SW846-8260B_W	LCS	1	< 2	8260-3-130724	8/11/13	16:23	RGF	
1/0811004a.D	693423	L/9340, ,SW846-8260B_W	LCS	1	< 2	8260-3-130724	8/11/13	16:23	RGF	
1/0811005.D	CCB	L/, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	16:47	RGF	
1/0811006.D	693424	L/9341, ,SW846-8260B_W	BLANK	1	< 2	8260-3-130724	8/11/13	17:12	RGF	
1/0811006a.D	693422	L/9340, ,SW846-8260B_W	BLANK	1	< 2	8260-3-130724	8/11/13	17:12	RGF	
1/0811007.D	35103335001	L/9341, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	17:41	RGF	
1/0811008.D	35103494003	L/9341, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	18:06	RGF	
1/0811009.D	35103494004	L/9341, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	18:30	RGF	
1/0811010.D	693427	L/9341, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	18:55	RGF	
1/0811011.D	35103494005	L/9341, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	19:19	RGF	
1/0811012.D	35103538001	L/9341, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	19:44	RGF	
1/0811013.D	CCB	L/9341, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	20:08	RGF	
1/0811014.D	35103494006	L/9341, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	20:32	RGF	
1/0811015.D	35103538002	L/9341, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	20:57	RGF	
1/0811016.D	35103813001	L/9340, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	21:21	RGF	
1/0811017.D	35103813002	L/9340, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	21:46	RGF	
1/0811018.D	694313	L/9340, ,SW846-8260B_W	DUP	1	< 2	8260-3-130724	8/11/13	22:11	RGF	
1/0811019.D	35103813003	L/9340, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	22:35	RGF	
1/0811020.D	35103813004	L/9340, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	23:00	RGF	
1/0811021.D	35103793001	L/9340, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	23:24	RGF	
1/0811022.D	35103584001	L/9340, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/11/13	23:49	RGF	
1/0811023.D	CCB	L/9340, ,SW846-8260B_W	SAMPLE	1	< 2	8260-3-130724	8/12/13	00:13	RGF	
1/0811024.D	693426	L/9341, ,SW846-8260B_W	MS	1	< 2	8260-3-130724	8/12/13	00:38	RGF	
1/0811025.D	694312	L/9340, ,SW846-8260B_W	MS	1	< 2	8260-3-130724	8/12/13	01:03	RGF	

Check Maintenance Items Performed:

☐ Changed septum	☐ Clipped column	☐ Changed column (lot # _____)
☐ Cleaned liner	☐ Changed trap (lot # _____)	☐ Other minor parts replaced _____
☐ Replaced/Cleaned gold seal	☐ Cleaned MS source	☐ No maintenance performed today

Additional Comments:

Run Order Verified: _____

File Path 1: \\35Wintarget\chem\35msv3.1\130811.b

Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Report Date: 16:15 08/20/2013

Reviewed By/Date: _____ Page: 1 of 1

Chain of Custody

LAI

Page 1 of 1

35103494

Company Name: FPL						P.O.#
Address: 700 University Blvd						
City: Juno Beach State: FL Zip: 33408						
Attn: Marissa Ruiz Fax#						
email:						
Phone:						
Project Name: Miami-Dade County South District Wastewater Treatment Plant						
Sampler Signature	Circle One Event: Quarterly Semi-Annual Monthly Annual N/A	Daily	Weekly	Monthly		
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Integrity OK(Y/N)	Total # of containers
1	East composite	8/9/13	8:50	WW	N	1
2	Duplicate	8/9/13	8:50	WW	N	1
3	East Grab	8/9/13	9:07	WW	N	3
4	Duplicate	8/9/13	9:07	WW	N	3
5	West Grab	8/9/13	9:15	WW	N	3
6	Trip blank	8/9/13		DI	N	1
7						
8						
9						
10						

LAB ANALYSIS

Parameters

Sample: TPC NA NA NA A

pH: NA

Free Codes: A

608 Hepatitis Level

608 + High Liverware

High Liverware

of Containers Size Type

1 16ozP

EXAMPLE Diss. Lead 6010

Required State Certification

COC Condition

EDD (Fees May Apply)

ADAPT SEDD ERPIMS ISV CSV Other

Received by

Affiliation

Date

Time

PA GA SC NC NJ IL TX LA

8/8/13 10:30

8/8/13 13:30

8/8/13 14:40

Revision: F•ALL•C•007 - Rev.00

Uppano Lab 954-582-4300

C.O.C. Serial #.:

5
4
3
2
1

Composite Sample Report

Facility Sample Collected at: MIAMI DADE COUNTY
SOUTH DISTRICT WASTEWATER TREATMENT PLANT

Sampling Point Location: EAST EFFLUENT

Method of Sampling:

Time-Based Composite:

Flow-Based Composite: X

SAMPLE TYPE

Automatic Sampling Machine (Type and Model) HACH SIGMA 900 MAX/3543R

Individual Discrete Grab Samples (# of samples)

Other 85 mL / SAMPLE (each jug was about 1/2 full)
THERMOMETER S/N 25086

SAMPLE DATES and TIMES

Date and Time of First Collection 8/7/13 08:45

Date and Time of Last Collection 8/8/13 08:45

MISCELLANEOUS INFORMATION:

Type of Tubing used: 3/8 VINYL

Temperature of autosampler at start of collection: 3°

Temperature of autosampler after 8 hours of collection: 20

Temperature of autosampler at end of collection: 4.5

Jug liners were inserted into the sample jugs prior to sampling.

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	September 23, 2011
	Document No.: F-FL-C-007 rev. 04	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: EPL Project # 35103494

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used 7708 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temperature 3.8 (Visual) 0.1 (Correction Factor) 3.7 (Actual)

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen?

☐ Yes ☒ No

Receipt of samples satisfactory: ☒ Yes ☐ No

Rush TAT requested on COC: _____

If yes, then all conditions below were met:

If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐
	No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Extra sample for QC

Project Manager Review: _____

Date: 8/8/13

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Size & Qty of Bottles Received

☐ x 5 Gal
☐ x 2.5 Gal
☐ x 1 Gal
☐ x 1 Liter
☐ x 500 mL
☐ x 250 mL
☐ x Other: _____

Extra Sample in Shed: Yes ☐ No ☐