LABORATORY RESULTS FOR WORK ORDER 13H0145

Exhibit 2

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:
08/13/2013 15:34

Case Narrative for MD-WASD South District WWTP

SAMPLE COLLECTION:

On 07/25/2013 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 west side collection point. The compositor is a HACH Sigma 900 MAX auto sampler. 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 passed through the system. The composite jugs are kept within a refrigerated area of the auto sampler. The temperature through-out the entire composite period of 24 hours was maintained at less than 6 degrees Celsius.

At 09:15 AM on 07/26/2013, the four 10 liter jugs from the west side collection point were composited in to one approximately forty liter sample that was labeled West Composite. An aliquot of the composite sample was tested in the field for pH and Temperature.

SAMPLE LOGIN:

On 07/26/2013 at 16:00, the sample was 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 4.1 Degrees C. No issues were noted and the sample was logged into the PACE Analytical Services, Inc. database under Work Order number 35102046.

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 13H0145 for internal tracking purposes.

Serial #: 08132013153424

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 reporduced in its entirety. All analyses were performed using EPA methods and certified to meet NELAC requirements.

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Reported:
08/13/2013 15:34

SUBCONTRACTED ANALYSIS:

The sample was subcontracted to PACE Analytical Services, Inc. The sample was 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.

Ormond Beach
EPA 608

Field Data as Received

Sample Name	pH	Temperature (Deg. C)	Conductivity	Total Chlorine	Free Chlorine
West Composite	6.87	26.99	-	-	-

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NELAC Certification #: E56078

Reported:
08/13/2013 15:34

West Composite

Sampled: 7/26/2013 9:15:00AM Received: 7/26/2013 5:05:00PM
Lab Sample #: 13H0145-01 Sample Matrix: Water Sample Type: Water

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
Pace Analytical - NELAC Certification #: E83079												
GC Semivolatiles												
Heptachlor	U		0.0058	0.0097	ug/L	1	136633	7/29/2013 18:00	JLG	7/30/2013 22:11	EPA 608	
Surrogate: Decachlorobiphenyl (S)				*78 %*		*61-121*	*136633*	*7/29/2013 18:00*		*7/30/2013 22:11*	*EPA 608*	
Surrogate: Tetrachloro-m-xylene (S)				*110 %*		*53-110*	*136633*	*7/29/2013 18:00*		*7/30/2013 22:11*	*EPA 608*	

Serial #: 08132013153424

FPL Central Lab

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Attn: Marister Ruiz

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

Reported:
08/13/2013 15:34

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 136633 - EPA 608 SF											
BLANK (683276)	**Source: 683276**		Prepared: 07/29/2013 Analyzed: 07/30/2013								
Heptachlor	U		0.0060	0.010	ug/L				-		
Surrogate: Decachlorobiphenyl (S)	*.0005*				ug/L	*.0005*		*101*	*61-121*		
Surrogate: Tetrachloro-m-xylene (S)	*.00043*				ug/L	*.0005*		*86*	*53-110*		
LCS (683277)	**Source: 683277**		Prepared: 07/29/2013 Analyzed: 07/30/2013								
Heptachlor	0.42		0.0060	0.010	ug/L	.5		83	34-111		
Surrogate: Decachlorobiphenyl (S)	*.00048*				ug/L	*.0005*		*96*	*61-121*		
Surrogate: Tetrachloro-m-xylene (S)	*.00038*				ug/L	*.0005*		*75*	*53-110*		
MS (683278)	**Source: 13H0145-01**		Prepared: 07/29/2013 Analyzed: 07/31/2013								
Heptachlor	0.61		0.012	0.020	ug/L	1	.0045	61	34-111		
Surrogate: Decachlorobiphenyl (S)	*.00095*				ug/L	*.001*		*95*	*61-121*		
Surrogate: Tetrachloro-m-xylene (S)	*.001*				ug/L	*.001*		*100*	*53-110*		
MSD (683279)	**Source: 13H0145-01**		Prepared: 07/29/2013 Analyzed: 07/31/2013								
Heptachlor	0.52		0.012	0.020	ug/L	1	.0045	52	34-111	16	40

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NELAC Certification #: E56078

Reported:
08/13/2013 15:34

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 136633 - EPA 608 SF											
MSD (683279)	**Source: 13H0145-01**		Prepared: 07/29/2013 Analyzed: 07/31/2013								
Surrogate: Decachlorobiphenyl (S)	*.00046*				ug/L	*.001*		*46*	*61-121*		
Surrogate: Tetrachloro-m-xylene (S)	*.00098*				ug/L	*.001*		*98*	*53-110*		
LCS (683540)	**Source: 683540**		Prepared: 07/29/2013 Analyzed: 07/30/2013								
Surrogate: Decachlorobiphenyl (S)	*.00046*				ug/L	*.0005*		*92*	*61-121*		
Surrogate: Tetrachloro-m-xylene (S)	*.00039*				ug/L	*.0005*		*79*	*53-110*		
LCSD (683541)	**Source: 683540LCS**		Prepared: 07/29/2013 Analyzed: 07/30/2013								
Surrogate: Decachlorobiphenyl (S)	*.00041*				ug/L	*.0005*		*83*	*61-121*		
Surrogate: Tetrachloro-m-xylene (S)	*.00031*				ug/L	*.0005*		*63*	*53-110*		

Serial #: 08132013153424

FPL Central Lab

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Attn: Marister Ruiz

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

Reported:
08/13/2013 15:34

Notes and Definitions

+	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 #: 08132013153424

FPL Central Lab

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WO# : 35102046

35102046

CHAIN OF CUSTODY RECORD

LAB W.O #_____ Quote:_____ Page 1 of 1

Container Type Codes			
AV	Amber Vial	ES	Encore Sampler
CV	Clear Vial	PPV	Prepreserved vial
P	Plastic	PL C	Plastic container
AL	Amber Liter	PL J	Plastic Jar
CL	Clear Liter	Z	Ziploc bag
AP	Amber Plastic	TB	Tedlar bag
AG	Amber Glass	WP	Whirl pak
SJ	Soil Jar	G	Gallon Jug
Other_____		TC	Terra-core

PPV ____ Prepreserved vial
Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other_____
40ml 500ml 250ml 125 ml
Example: 4ozP = 4oz Plastic, 8ozSJ= 8oz Soil Jar

Matrix Codes			
SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H20	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum
SW	Surface Water	O	Other_____ (Please specify)
ML	Misc. Liquid		

Preservative Type Codes		
A. None	E. HCL	I. Ice
B. HNO_3	F. MeOH	J. MCAA
C. H_2SO_4	G. $Na_2S_2O_3$	K. Zn Acetate
D. NaOH	H. $NaHSO_4$	O. Other

Company Name: FPL PO#

Address: 700 Universe Blvd

City: Juno Beach State: FL Zip: 33408

Attn: Meister Rein Fax#

email: Phone:

Project Name: Miami-Dade County Waste Water Treatment Center-South District Report

Sampler Signature: NW

Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

LAB ANALYSIS

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	Sample	TRC	pH	Pres Codes	Parameters	EXAMPLE Diss. Lead 6010
													# of Containers Size/Type: 1 16ozP
1	West Composite	7/26/13	9:15	WW	Y		2				A	608 (Herbicides)	
2													
3													
4													
5													
6													
7													
8													
9													
10													

REMARKS

pH - 6.87
temp - 26.99 C

5062

Circle T.A.T. REQUEST (Rush Fees Approved): Standard (Y) N RUSH: Today 1D 2D 3D 4D 5D

Short Hold: Y____ N✓

Circle QA/QC Report Level: 1 2 3 (4) CLP AFCEE QAPP Other_____

EDD (Fees May Apply): ADaPT SEDD ERPIMS TSV CSV Other

COC Condition: (OK) Incomplete

Required State Certification: (FL) GA SC NC NJ PA LA TX IL ____

Coolers #'s - Temp °C: 1___ 2___ 3___ 4___ 5___

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	NW	DACE	7/26/13	16:00			7/26/13	1600
2			7-26-13	1705		PACE	7/26/13	1705
3								

Lab Use Only	Yes	No	N/A
Non-Conformance Found?			
Samples INTACT upon arrival?			
Received on Wet Ice?			
Proper Preservatives Indicated?			
Received within holding time?			
Custody seals Intact?			
Volatiles rec'd without headspace?			
Proper Containers Used?			

C.O.C. Serial # 55479

Composite Sample Report

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

Sampling Point Location: WEST EFFLUENT

Method of Sampling:

Time-Based Composite: ____

Flow-Based Composite: X

SAMPLE TYPE

Automatic Sampling Machine (Type and Model) HACH SIGMA 900 MAX/930 3R

Individual Discrete Grab Samples (# of samples) ____

Other 85 mL / SAMPLE

THERMOMETER S/N 4787

SAMPLE DATES and TIMES

Date and Time of First Collection 7-25-13 08:45 AM

Date and Time of Last Collection 7/26/13 0845

MISCELLANOUS INFORMATION:

Type of Tubing used: 3/8 VINYL

Temperature of autosampler at start of collection: 2.0°

Temperature of autosampler after 8 hours of collection: 3.2°

Temperature of autosampler at end of collection: 3.0

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

Sample Condition Upon Receipt Form (SCUR)

Table Number:_____

Client Name: FPL Project #_____

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 T-1.06 Type of Ice: Wet Blue None

Cooler Temperature °C 4.2 (Visual) -0.1 (Correction Factor) 4.1 (Actual)

Date and Initials of person examining contents: DJ 7/26/10

(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): _____

Project Manager Review: _____ Date: _____

Finished Product Information Only

F.P. Sample ID:_____

Production Code:_____

Date/Time Opened:_____

Number of Unopened Bottles Remaining:_____

Extra Sample in Shed: Yes No

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:_____

EPA 8081

Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

ANALYTICAL RESULTS

Project: Miami-Dade County Waste Water
Pace Project No.: 35102046

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

Sample: West Composite
Lab ID: 35102046001
Collected: 07/26/13 09:13
Received: 07/26/13 17:05

CAS No.	Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Qual
76-44-8	Heptachlor	**0.0058U**	ug/L	0.0097	0.0058	1	07/29/13 18:00	07/30/13 22:11	
Surrogates									
877-09-8	Tetrachloro-m-xylene (S)	**110**	%	53-110		1	07/29/13 18:00	07/30/13 22:11	
2051-24-3	Decachlorobiphenyl (S)	**78**	%	61-121		1	07/29/13 18:00	07/30/13 22:11	P2,S7

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

METHOD BLANK RESULTS

Project: Miami-Dade County Waste Water
Pace Project No.: 35102046

QB Batch: OEXT/13644 **Prepared:** 07/29/13
Method(s): EPA 608 SF / EPA 608
Associated Lab Samples: 35102046001

CAS No.	Parameters	Results	Units	Reporting Limit	MDL	Analyzed	Qual
76-44-8	Heptachlor	0.0060U	ug/L	0.010	0.0060	07/30/13	

Type	Sample	Matrix
BLANK	683276	Water

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
3610 Park Central Blvd N
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954-582-4300

SURROGATE RECOVERY SUMMARY

Project: Miami-Dade County Waste Water
Pace Project No.: 35102046

QB Batch: OEXT / 13644
Method(s): EPA 608 SF / EPA 608

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec	Sur1 Qual	Sur2 % Rec	Sur2 Qual	Sur3 % Rec	Sur3 Qual	Sur4 % Rec	Sur4 Qual	Sur5 % Rec	Sur5 Qual	Sur6 % Rec	Sur6 Qual
35102046001	OQS	West Composite	1			110									
35102046001	OQS	West Composite	1	78	P2,S7										
683276	BLANK		1	101											
683276	BLANK		1			86									
683277	LCS		1	96											
683277	LCS		1			75									
683540	LCS		1	92		79									
683541	LCSD		1	83		63									
683278	MS		1	95											
683278	MS		1			100									
683279	MSD		1	46	P2,S7										
683279	MSD		1			98									
		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

Pace Analytical Services, Inc.
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Pompano Beach, FL 33064
954-582-4300

LAB CONTROL SAMPLE RESULTS

Project: Miami-Dade County Waste Water
Pace Project No.: 35102046

QB Batch: OEXT/13644 **LCS Prepared:** 07/29/13
Method(s): EPA 608 SF / EPA 608 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
Heptachlor	83			34-111		0.5	0.42		ug/L	07/30/13			

Type	Sample
LCS	683277
LCS	683540
LCSD	683541

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

MATRIX SPIKE SAMPLE RESULTS

Project: Miami-Dade County Waste Water
Pace Project No.: 35102046

QB Batch: OEXT/13644
Method(s): EPA 608 SF / EPA 608

MS Prepared: 07/29/13
MSD Prepared: 07/29/13

Analyte	Units	Sample Conc	Spike Conc MS	Spike Conc MSD	Result MS	Result MSD	Dilution MS	Dilution MSD	% Recovery MS	% Recovery MSD	QC Limits %Recovery	RPD	Max RPD	Analyzed Date MS	Analyzed Date MSD	Qualifier(s) MS	Qualifier(s) MSD
Heptachlor	ug/L	0.0058U	1	1	0.61	0.52	1	1	61	52	34-111	16	40	07/31/13	07/31/13		

Type	Sample	Client Sample ID
MS	683278	West Composite
MSD	683279	West Composite

REPORT OF LABORATORY ANALYSIS

EPA 8081

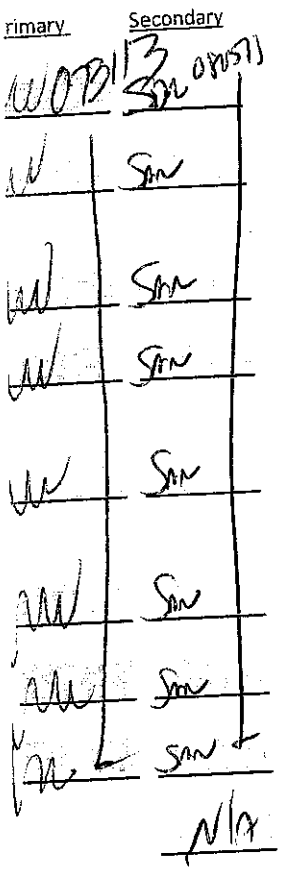
Calibration and Sample Data

ICAL Processing and Peer Review Documentation

Instrument: 35GCSJ

Data set: 07/30/13 8081/608/6630C

Initials and date required for Primary Analyst and Secondary Reviewer



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

Additional Notes or Conditions:

Chlordane, Toxaphene CCVs: pattern recognition only. Manual integration in some calibration files (BA).

Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730003.D Page: 1
Report Date: 30-Jul-2013 22:26

Pace Analytical Services, Inc

Column #1 : //35Wintarget/chem/35gcsj.i/130730.b/0730003.D
Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730003.D\0730003.D
Inj Date : 30-JUL-2013 14:45
Sample Info: ICB
Misc Info :
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	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

JLG 073013

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	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Decachlorobiphenyl	0.000	0.000	0	0	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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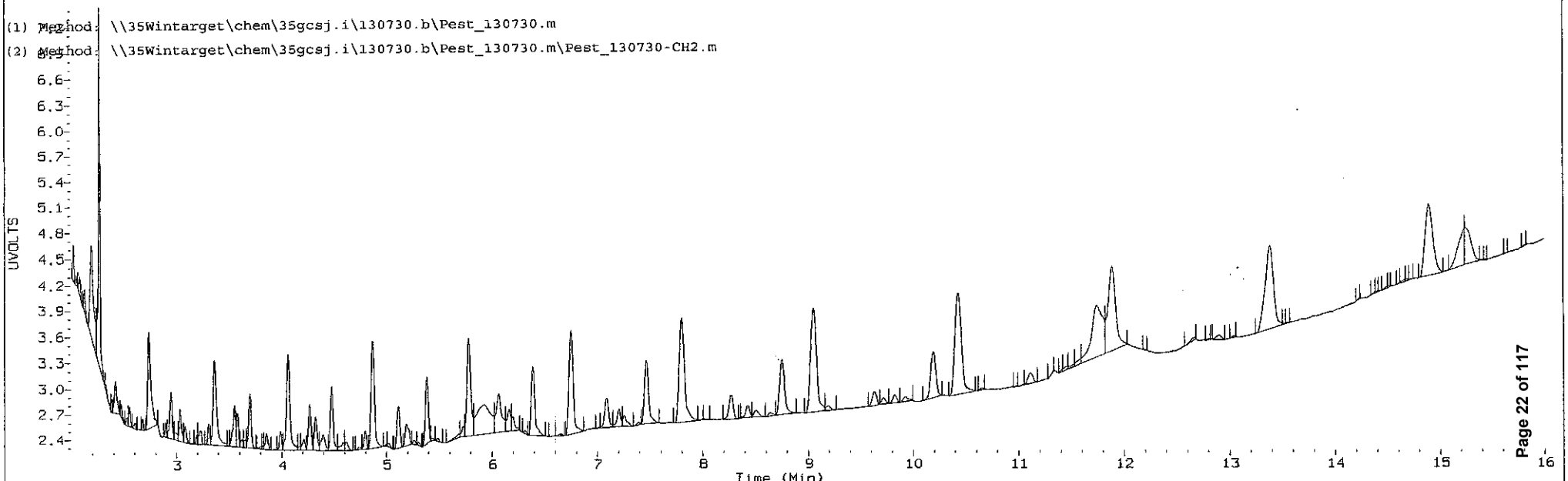
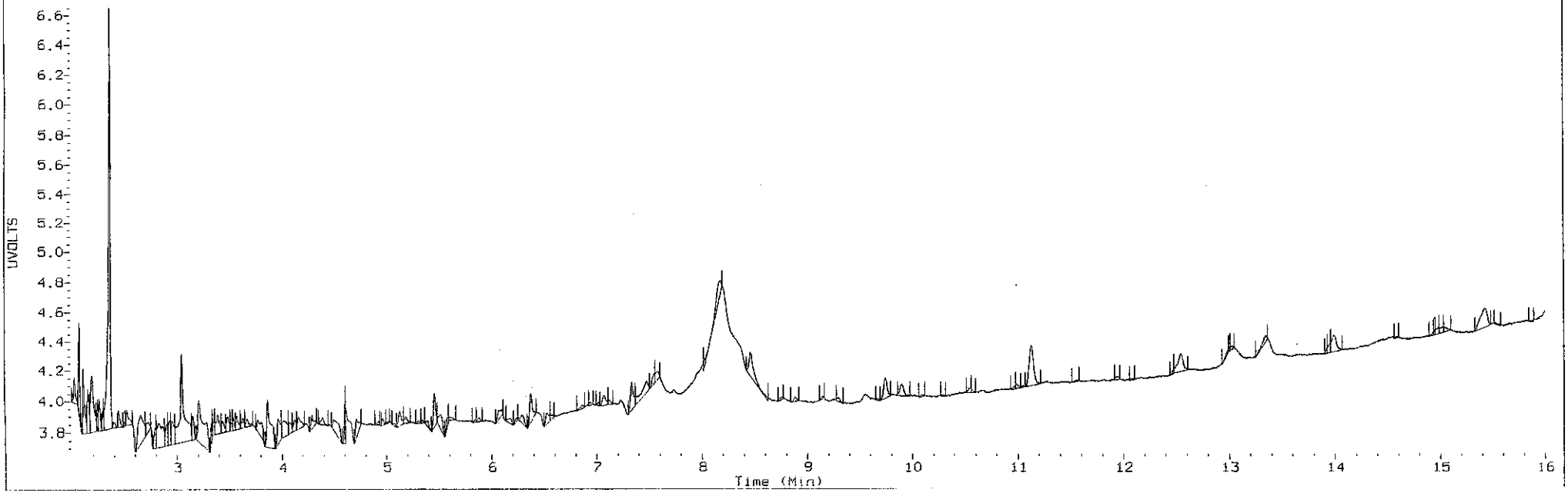
(2)	\\35Wintarget\chem\35gcsj.i\130730.b\0730003.D\0730003.D	30-JUL-2013 14:45		ICB	Rtx-CLPesticide 1

ANDI 0730003.D

(1) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
(2) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m



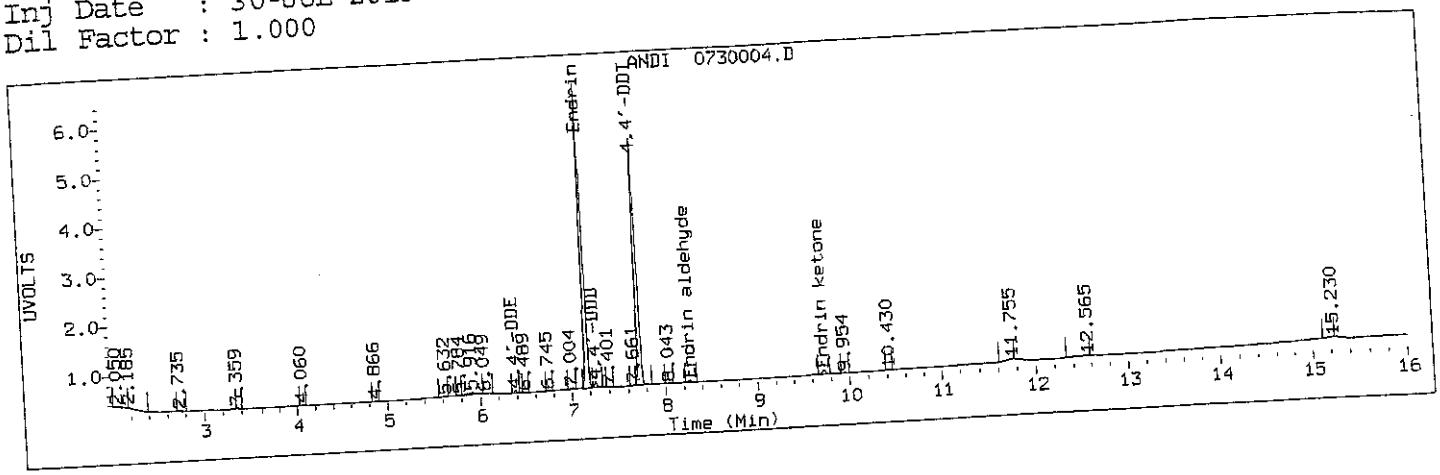
ANDI 0730003.D



Report Date: 07/30/2013

DDT and Endrin Breakdown Report

Data File : \\35Wintarget\chem\35gcsj.i\130730.b/0730004.D
Sample ID :
Sample Type: PC
Inj Date : 30-JUL-2013 15:04
Dil Factor : 1.000



DDT Summary

DDT Area = 93174655
DDD Area = 2290103
DDE Area = 774833

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

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 3.18 Percent

DDT Breakdown PASSES

Endrin Summary

Endrin Area = 105553831
Endrin Aldehyde Area = 1023760
Endrin Ketone Area = 2203038

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

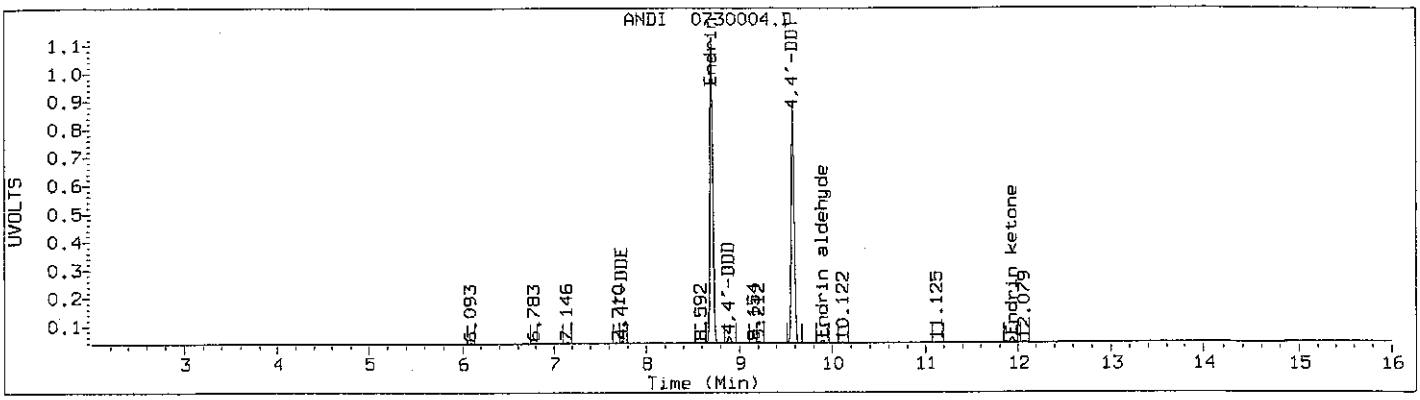
Endrin Breakdown Maximum = 15 Percent

Endrin Breakdown = 2.97 Percent

Endrin Breakdown PASSES

DDT and Endrin Breakdown Report

Data File : \\35Wintarget\chem\35gcsj.i\130730.b\0730004.D/0730004.D
Sample ID :
Sample Type: PC
Inj Date : 30-JUL-2013 15:04
Dil Factor : 1.000



DDT Summary

DDT Area = 192846697
DDD Area = 4748139
DDE Area = 1717110

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

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 3.24 Percent

DDT Breakdown PASSES

Endrin Summary

Endrin Area = 233945291
Endrin Aldehyde Area = 2086214
Endrin Ketone Area = 4569064

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 = 2.77 Percent

Endrin Breakdown PASSES

Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730005.d
Report Date: 30-Jul-2013 21:42

Pace Analytical Services, Inc

Column #1 : //35Wintarget/chem/35gcsj.i/130730.b/0730005.d
Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730005.d\0730005.d
Inj Date : 30-JUL-2013 15:23
Sample Info: PEST Cal 6 .010
Misc Info :
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.381	7.738	71190284	130633681	0.10606	0.10237	0.10606	0.10237	Col 2	3.54
Endosulfan sulfate	9.133	10.548	48828239	101755003	0.10228	0.09803	0.10228	0.09803	Col 2	4.24
Methoxychlor	8.650	11.279	21033639	51657799	0.10257	0.10312	0.10257	0.10312	Col 2	0.53
Endrin aldehyde	8.266	9.897	41205404	88123516	0.09606	0.09209	0.09606	0.09209	Col 2	4.22
Beta-BHC	4.340	5.113	30475332	62410055	0.09539	0.09143	0.09539	0.09143	Col 2	4.23
Delta-BHC	4.543	5.523	73891838	151841626	0.11042	0.10414	0.11042	0.10414	Col 2	5.85
Heptachlor	4.794	5.628	59797385	138990994	0.10540	0.10332	0.1054	0.10332	Col 2	1.99
Aldrin	5.159	6.098	87040136	148414244	0.10870	0.09876	0.1087	0.09876	Col 2	9.58
Heptachlor Epoxide	5.933	6.942	71012033	134600187	0.10413	0.09611	0.10413	0.09611	Col 2	8.01

LW 07/30/13

Gamma-chlordane	6.102	7.232	75966203	135362427	0.10780	0.09752	0.1078	0.09752	Col 2	10.0
Alpha-chlordane	6.284	7.476	74180023	129248279	0.10612	0.09601	0.10612	0.09601	Col 2	10.0
Endrin ketone	9.723	11.934	54943505	114626658	0.10149	0.10249	0.10149	0.10249	Col 2	0.98
Endosulfan I	6.480	7.591	62872697	118435471	0.10309	0.09637	0.10309	0.09637	Col 2	6.73
Dieldrin	6.820	8.095	62761928	131983886	0.10405	0.09924	0.10405	0.09924	Col 2	4.73
Endrin	7.164	8.708	54766181	121996378	0.10178	0.09924	0.10178	0.09924	Col 2	2.52
4,4'-DDD	7.258	8.886	44722479	102600426	0.10236	0.09945	0.10236	0.09945	Col 2	2.88
Endosulfan II	7.520	9.144	57872076	115914021	0.10281	0.09547	0.10281	0.09547	Col 2	7.40
4,4'-DDT	7.724	9.578	46421977	97789859	0.11374	0.11094	0.11374	0.11094	Col 2	2.49
Alpha-BHC	3.923	4.573	89712637	165335691	0.11150	0.10186	0.1115	0.10186	Col 2	9.03
Gamma-BHC	4.255	5.026	76864969	152174564	0.10927	0.10269	0.10927	0.10269	Col 2	6.20
Mirex	8.908	11.812	45117289	83883307	0.09733	0.08908	0.09733	0.08908	Col 2	8.85
Tetrachloro-m-xylene	3.378	3.863	56280595	99682036	0.09673	0.09306	0.09673	0.09306	Col 2	3.86
Decachlorobiphenyl	12.263	15.518	60445661	90771418	0.10051	0.08929	0.10051	0.08929	Col 2	11.8

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Target Dual Column/Detector/Channel Sample Report Page 2 07/30/2013 21:42

Data File	Injection Date	Client ID	Lab ID	Column Phase
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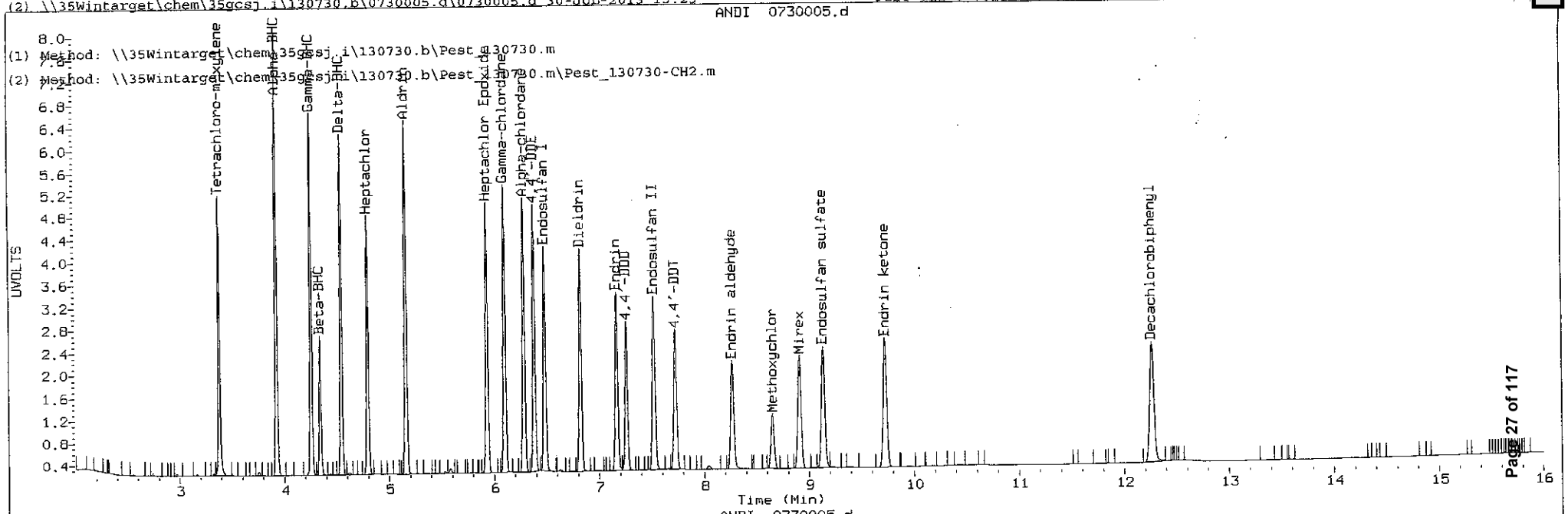
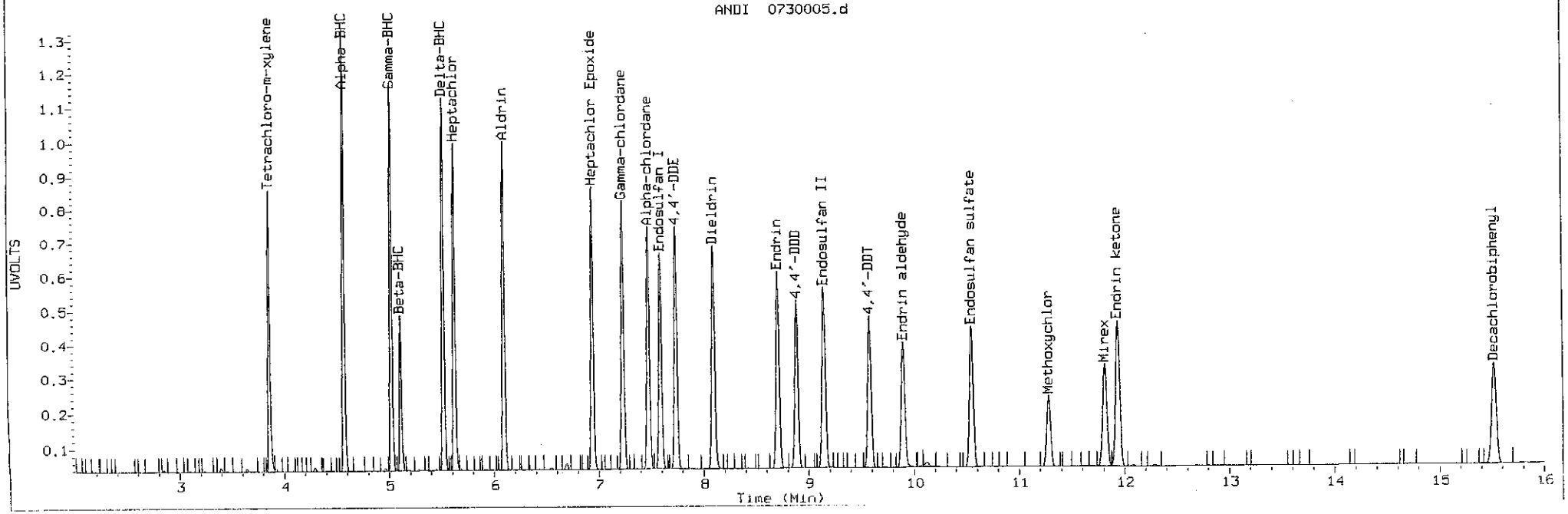
(2) \\35Wintarget\chem\35gcsj.i\130730.b\0730005.d\0730005.d	30-JUL-2013 15:23		PEST Cal 6 .010	Rtx-CLPesticide 1

(1) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
(2) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m





Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730006.d
Report Date: 30-Jul-2013 21:42

Pace Analytical Services, Inc

Column #1 : //35Wintarget/chem/35gcsj.i/130730.b/0730006.d
Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730006.d\0730006.d
Inj Date : 30-JUL-2013 15:42
Sample Info: PEST Cal 5 .075
Misc Info :
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.379	7.738	47831751	89431907	0.07126	0.07008	0.07126	0.07008	Col 2	1.66
Endosulfan sulfate	9.133	10.548	32517079	69519593	0.06811	0.06697	0.06811	0.06697	Col 2	1.68
Methoxychlor	8.648	11.281	13226633	33394978	0.06450	0.06666	0.0645	0.06666	Col 2	3.29
Endrin aldehyde	8.265	9.898	28495393	62873326	0.06643	0.06570	0.06643	0.0657	Col 2	1.10
Beta-BHC	4.338	5.113	20883796	43790027	0.06536	0.06415	0.06536	0.06415	Col 2	1.86
Delta-BHC	4.542	5.523	48733227	102168455	0.07282	0.07007	0.07282	0.07007	Col 2	3.84
Heptachlor	4.793	5.628	37103505	87366168	0.06540	0.06494	0.0654	0.06494	Col 2	0.70
Aldrin	5.158	6.098	59797993	103343396	0.07468	0.06877	0.07468	0.06877	Col 2	8.23
Heptachlor Epoxide	5.933	6.941	48685510	93781500	0.07139	0.06696	0.07139	0.06696	Col 2	6.40

Gamma-chlordane	6.100	7.232	51723873	93699207	0.07340	0.06750	0.0734	0.0675	Col 2	8.37
Alpha-chlordane	6.283	7.476	50601225	90090448	0.07239	0.06692	0.07239	0.06692	Col 2	7.85
Endrin ketone	9.722	11.937	35255618	75125387	0.06512	0.06717	0.06512	0.06717	Col 2	3.09
Endosulfan I	6.478	7.591	42944810	82713733	0.07041	0.06730	0.07041	0.0673	Col 2	4.51
Dieldrin	6.819	8.095	43047405	92095523	0.07136	0.06925	0.07136	0.06925	Col 2	3.00
Endrin	7.163	8.709	37299540	83900327	0.06931	0.06825	0.06931	0.06825	Col 2	1.54
4,4'-DDD	7.257	8.887	30224524	70315400	0.06918	0.06815	0.06918	0.06815	Col 2	1.50
Endosulfan II	7.518	9.145	39753022	81679476	0.07062	0.06727	0.07062	0.06727	Col 2	4.85
4,4'-DDT	7.723	9.578	28444767	60525773	0.06969	0.06866	0.06969	0.06866	Col 2	1.48
Alpha-BHC	3.923	4.573	60317159	115477040	0.07497	0.07114	0.07497	0.07114	Col 2	5.24
Gamma-BHC	4.253	5.026	50803719	102505710	0.07222	0.06917	0.07222	0.06917	Col 2	4.31
Mirex	8.908	11.814	30592473	58820006	0.06600	0.06247	0.066	0.06247	Col 2	5.49
Tetrachloro-m-xylene	3.377	3.863	38936047	71460059	0.06692	0.06671	0.06692	0.06671	Col 2	0.31
Decachlorobiphenyl	12.263	15.519	40539861	64761089	0.06741	0.06370	0.06741	0.0637	Col 2	5.65

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Target Dual Column/Detector/Channel Sample Report Page 2 07/30/2013 21:42

	Data File	Injection Date	Client ID	Lab ID	Column Phase
(1)	//35Wintarget/chem/35gcsj.i/130730.b/0730006.d	30-JUL-2013 15:42		PEST Cal 5 .075	Rtx-CLPesticide 1
(2)	\\35Wintarget\chem\35gcsj.i\130730.b\0730006.d\0730006.d	30-JUL-2013 15:42		PEST Cal 5 .075	Rtx-CLPesticide 1

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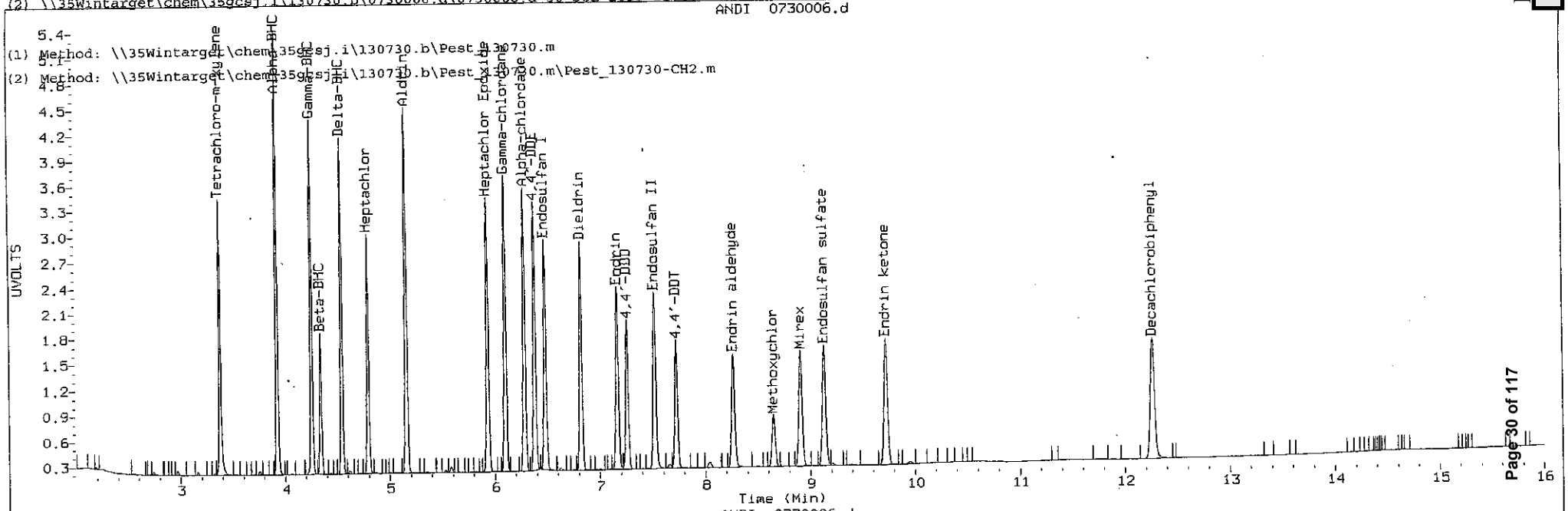
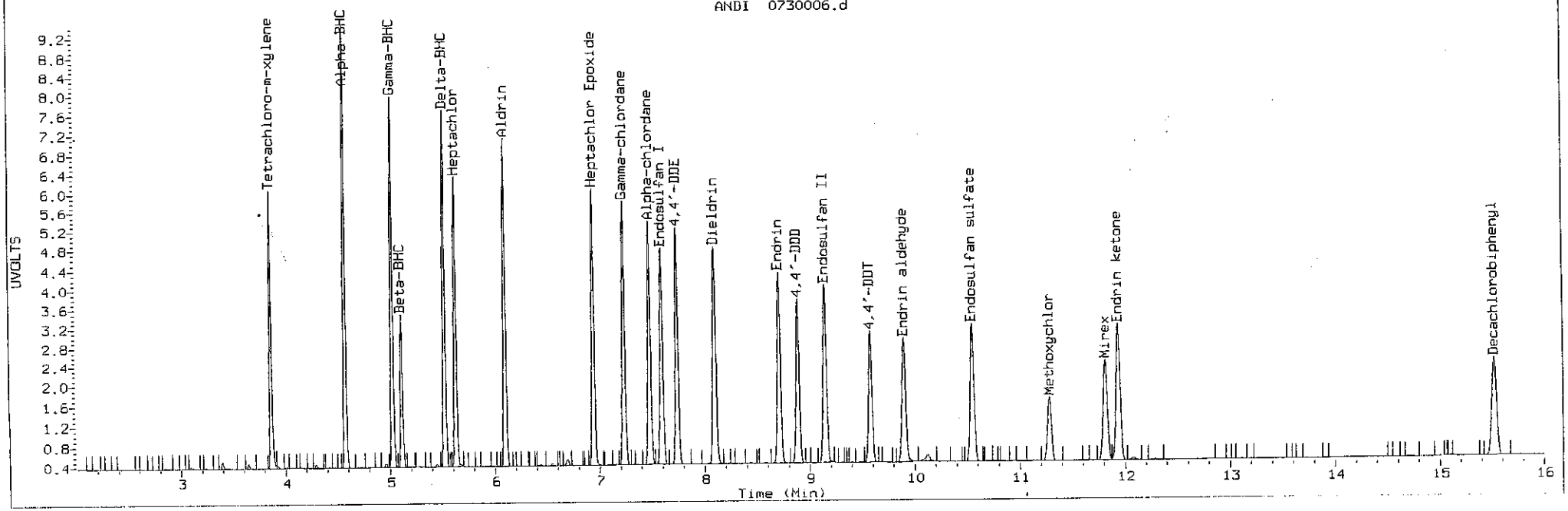
(2) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m





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Report Date: 30-Jul-2013 21:42

Pace Analytical Services, Inc

Column #1 : //35Wintarget/chem/35gcsj.i/130730.b/0730007.d
Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730007.d\0730007.d
Inj Date : 30-JUL-2013 16:01
Sample Info: PEST Cal 4 .050
Misc Info :
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.380	7.738	32276922	62869494	0.04809	0.04927	0.04809	0.04927	Col 2	2.42
Endosulfan sulfate	9.133	10.548	23391501	51011127	0.04899	0.04914	0.04899	0.04914	Col 2	0.30
Methoxychlor	8.649	11.280	10121143	25556532	0.04935	0.05102	0.04935	0.05102	Col 2	3.32
Endrin aldehyde	8.265	9.897	19829089	44936823	0.04623	0.04696	0.04623	0.04696	Col 2	1.56
Beta-BHC	4.339	5.114	14360724	31170224	0.04495	0.04566	0.04495	0.04566	Col 2	1.56
Delta-BHC	4.543	5.524	33087088	71679410	0.04944	0.04916	0.04944	0.04916	Col 2	0.56
Heptachlor	4.793	5.629	26871994	64631442	0.04736	0.04804	0.04736	0.04804	Col 2	1.42
Aldrin	5.159	6.099	39476374	71421753	0.04930	0.04753	0.0493	0.04753	Col 2	3.65
Heptachlor Epoxide	5.933	6.942	32518422	65703328	0.04768	0.04691	0.04768	0.04691	Col 2	1.62

LMO 07/30/13

Gamma-chlordane	6.101	7.232	34463057	65672824	0.04890	0.04731	0.0489	0.04731	Col 2	3.30
Alpha-chlordane	6.284	7.476	33887979	63283677	0.04848	0.04701	0.04848	0.04701	Col 2	3.07
Endrin ketone	9.724	11.935	26488615	56882754	0.04893	0.05086	0.04893	0.05086	Col 2	3.86
Endosulfan I	6.480	7.590	28921740	58013611	0.04742	0.04720	0.04742	0.0472	Col 2	0.46
Dieldrin	6.820	8.095	28980962	63991217	0.04804	0.04811	0.04804	0.04811	Col 2	0.14
Endrin	7.164	8.710	25691524	59094452	0.04774	0.04807	0.04774	0.04807	Col 2	0.68
4,4'-DDD	7.257	8.887	20990161	50489044	0.04804	0.04894	0.04804	0.04894	Col 2	1.85
Endosulfan II	7.519	9.145	27274825	57729856	0.04845	0.04755	0.04845	0.04755	Col 2	1.87
4,4'-DDT	7.724	9.579	20610885	45584533	0.05050	0.05171	0.0505	0.05171	Col 2	2.36
Alpha-BHC	3.922	4.574	39808137	80603402	0.04947	0.04965	0.04947	0.04966	Col 2	0.38
Gamma-BHC	4.253	5.027	34389817	72022879	0.04888	0.04860	0.04888	0.0486	Col 2	0.57
Mirex	8.907	11.812	21974688	43732843	0.04740	0.04644	0.0474	0.04644	Col 2	2.04
Tetrachloro-m-xylene	3.376	3.862	26341201	49860054	0.04527	0.04655	0.04527	0.04655	Col 2	2.78
Decachlorobiphenyl	12.263	15.520	29024691	48441643	0.04826	0.04765	0.04826	0.04765	Col 2	1.27

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.i/130730.b/0730007.d	30-JUL-2013 16:01		PEST Cal 4 .050	Rtx-CLPesticide 1
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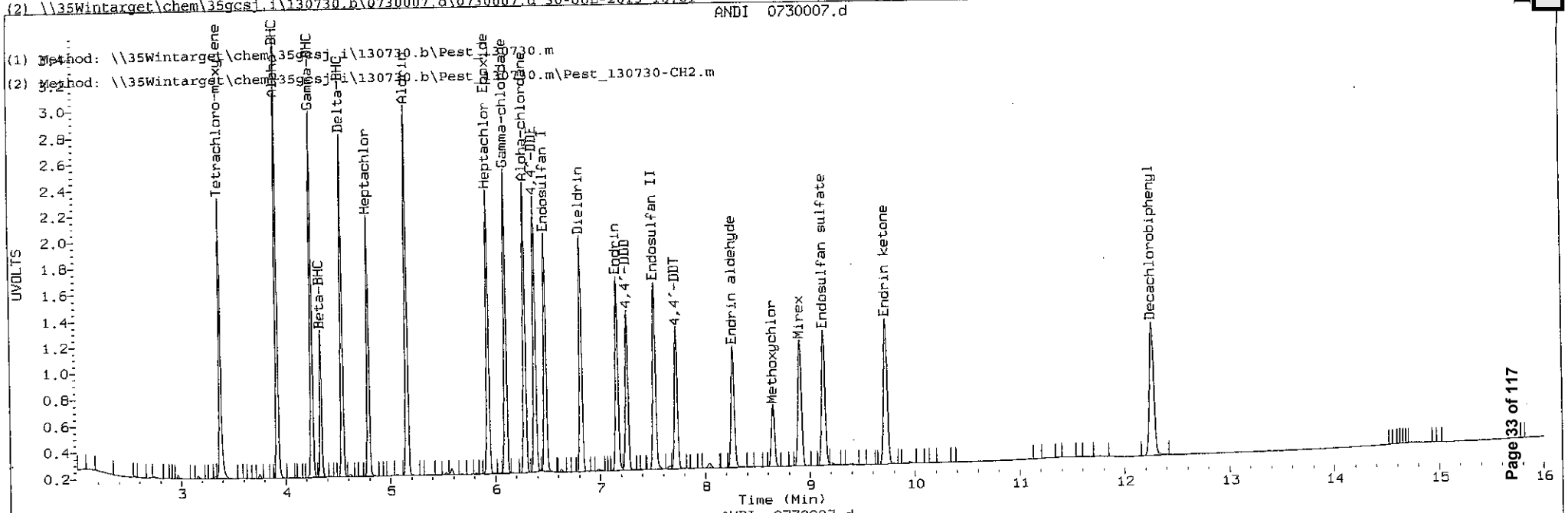

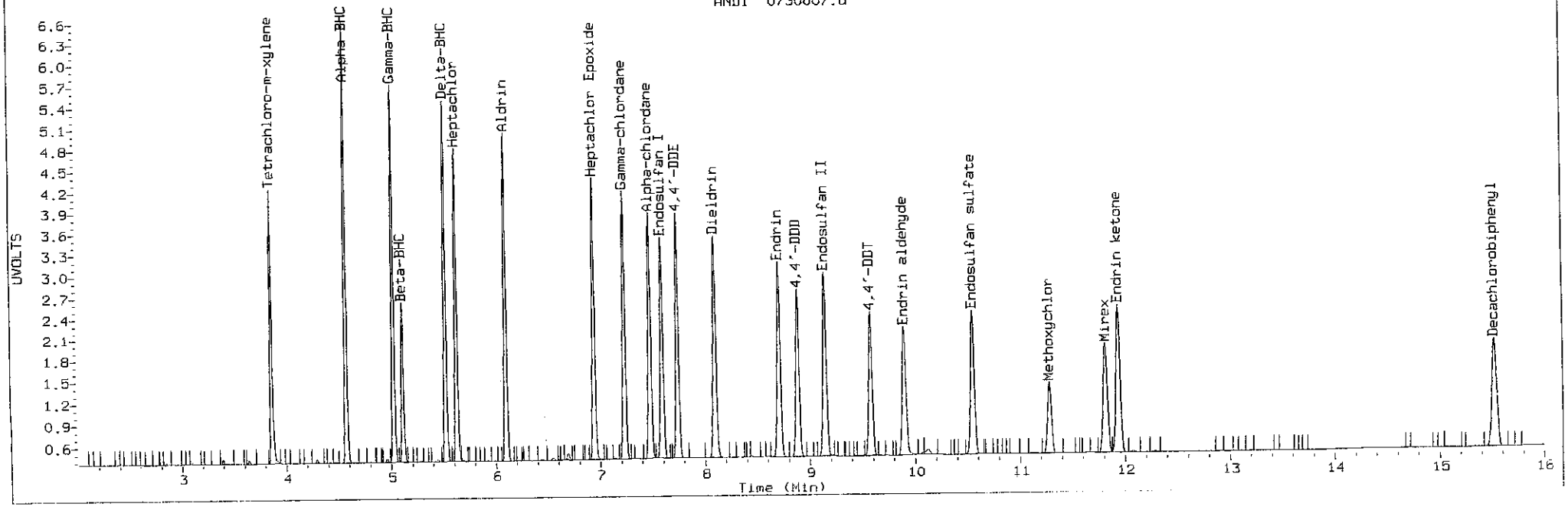

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Report Date: 30-Jul-2013 21:42

Pace Analytical Services, Inc

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Inj Date : 30-JUL-2013 16:19
Sample Info: PEST Cal 3 .025
Misc Info :
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.379	7.738	15383504	31012361	0.02292	0.02430	0.02292	0.0243	Col 2	5.84
Endosulfan sulfate	9.133	10.547	10980988	24721284	0.02300	0.02381	0.023	0.02381	Col 2	3.46
Methoxychlor	8.649	11.279	4754841	11925383	0.02318	0.02380	0.02318	0.0238	Col 2	2.63
Endrin aldehyde	8.265	9.896	9943485	22736286	0.02318	0.02376	0.02318	0.02376	Col 2	2.47
Beta-BHC	4.339	5.113	7579626	16800448	0.02372	0.02461	0.02372	0.02461	Col 2	3.68
Delta-BHC	4.541	5.522	16060793	35838308	0.02400	0.02458	0.024	0.02458	Col 2	2.38
Heptachlor	4.792	5.627	13439446	33227288	0.02368	0.02469	0.02368	0.02469	Col 2	4.17
Aldrin	5.158	6.098	19361831	36663986	0.02418	0.02439	0.02418	0.02439	Col 2	0.86
Heptachlor Epoxide	5.933	6.941	16161770	34122152	0.02370	0.02436	0.0237	0.02436	Col 2	2.74

0730013

Gamma-chlordane	6.099	7.232	16756447	33750113	0.02377	0.02431	0.02377	0.02431	Col 2	2.24
Alpha-chlordane	6.282	7.475	16567989	32817017	0.02370	0.02437	0.0237	0.02437	Col 2	2.78
Endrin ketone	9.723	11.935	11861833	25768017	0.02191	0.02304	0.02191	0.02304	Col 2	5.02
Endosulfan I	6.478	7.590	14237611	29965175	0.02334	0.02438	0.02334	0.02438	Col 2	4.35
Dieldrin	6.819	8.094	14243644	32378683	0.02361	0.02434	0.02361	0.02434	Col 2	3.04
Endrin	7.164	8.709	12730630	29529820	0.02365	0.02402	0.02365	0.02402	Col 2	1.55
4,4'-DDD	7.257	8.885	10149624	24669703	0.02323	0.02391	0.02323	0.02391	Col 2	2.88
Endosulfan II	7.519	9.144	13031470	29212163	0.02315	0.02406	0.02315	0.02406	Col 2	3.85
4,4'-DDT	7.723	9.579	9198013	20706423	0.02253	0.02349	0.02253	0.02349	Col 2	4.17
Alpha-BHC	3.921	4.573	19793485	41324556	0.02460	0.02546	0.0246	0.02546	Col 2	3.43
Gamma-BHC	4.253	5.025	17140211	36996044	0.02436	0.02496	0.02436	0.02496	Col 2	2.43
Mirex	8.907	11.812	10808521	22755765	0.02331	0.02416	0.02331	0.02416	Col 2	3.58
Tetrachloro-m-xylene	3.376	3.861	13574337	26500301	0.02333	0.02474	0.02333	0.02474	Col 2	5.86
Decachlorobiphenyl	12.264	15.519	13721276	24256339	0.02281	0.02386	0.02281	0.02386	Col 2	4.49

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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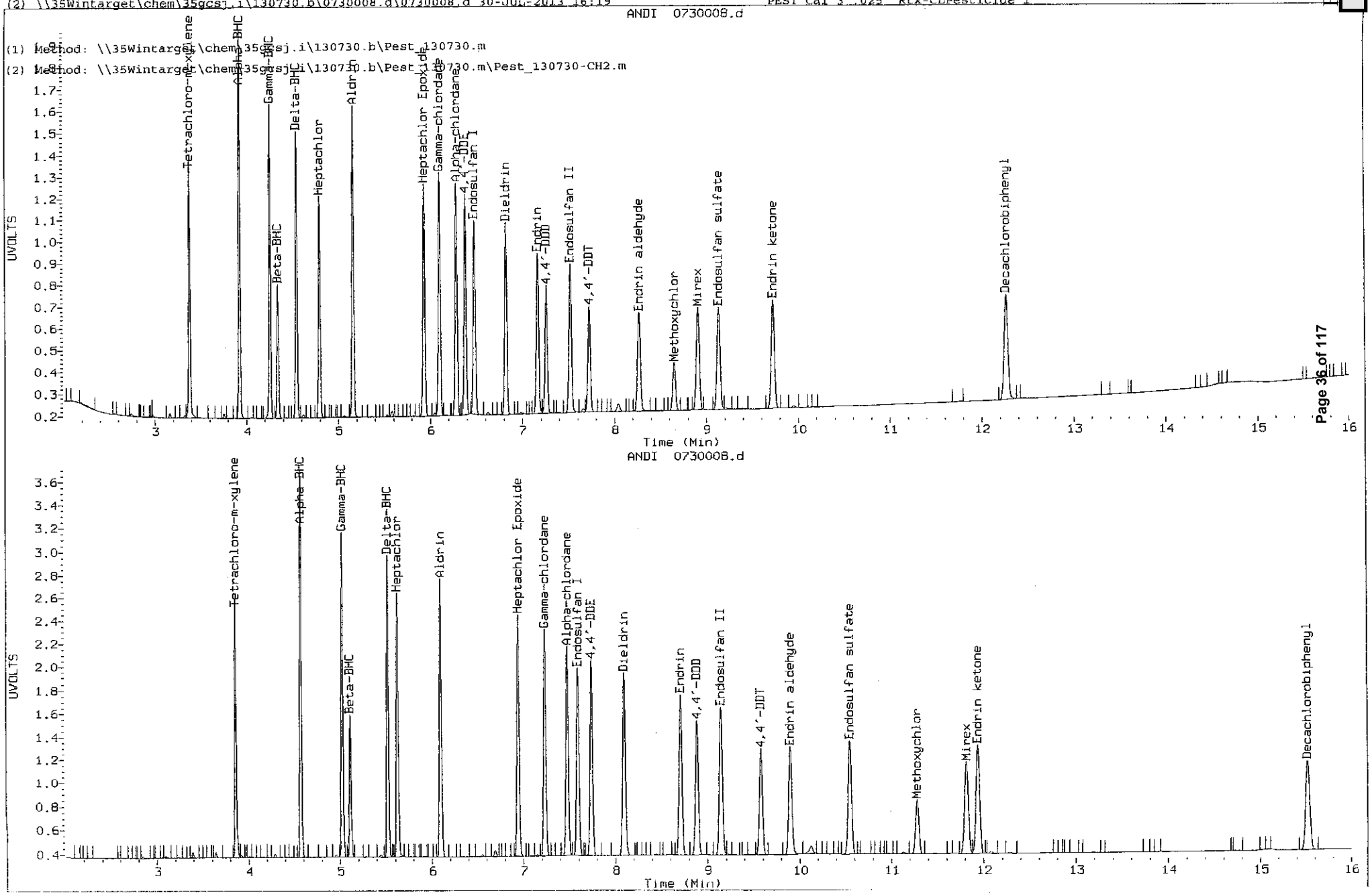
(1) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m

(2) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m



Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730009.d Page: 1
Report Date: 30-Jul-2013 21:42

Pace Analytical Services, Inc

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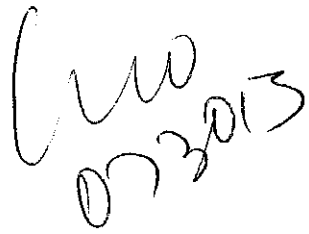
Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730009.d\0730009.d
Inj Date : 30-JUL-2013 16:38
Sample Info: PEST Cal 2 .010
Misc Info :
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.379	7.738	6330631	12791165	0.00943	0.01002	0.00943	0.01002	Col 2	6.06
Endosulfan sulfate	9.129	10.550	4539657	10540239	0.00950	0.01015	0.0095	0.01015	Col 2	6.61
Methoxychlor	8.646	11.281	2006192	4882994	0.00978	0.00974	0.00978	0.00974	Col 2	0.40
Endrin aldehyde	8.263	9.896	4344053	9889657	0.01012	0.01033	0.01012	0.01033	Col 2	2.05
Beta-BHC	4.340	5.113	3326850	7385233	0.01041	0.01082	0.01041	0.01082	Col 2	3.86
Delta-BHC	4.542	5.523	6368716	14596027	0.00951	0.01001	0.00951	0.01001	Col 2	5.12
Heptachlor	4.792	5.628	5523204	13804442	0.00973	0.01026	0.00973	0.01026	Col 2	5.30
Aldrin	5.158	6.098	7585122	15330687	0.00947	0.01020	0.00947	0.0102	Col 2	7.42
Heptachlor Epoxide	5.932	6.941	6593181	14527626	0.00966	0.01037	0.00966	0.01037	Col 2	7.08



Gamma-chlordane	6.099	7.231	6699971	14264714	0.00950	0.01027	0.0095	0.01027	Col 2	7.78
Alpha-chlordane	6.282	7.476	6725217	14085352	0.00962	0.01046	0.00962	0.01046	Col 2	8.36
Endrin ketone	9.719	11.937	4965915	10527041	0.00917	0.00941	0.00917	0.00941	Col 2	2.58
Endosulfan I	6.477	7.591	5950791	12925704	0.00975	0.01051	0.00975	0.01051	Col 2	7.50
Dieldrin	6.818	8.096	5868494	13513236	0.00972	0.01016	0.00972	0.01016	Col 2	4.42
Endrin	7.162	8.710	5376784	12367993	0.00999	0.01006	0.00999	0.01006	Col 2	0.69
4,4'-DDD	7.256	8.887	4285474	10285114	0.00980	0.00996	0.0098	0.00996	Col 2	1.61
Endosulfan II	7.516	9.146	5464278	12415931	0.00970	0.01022	0.0097	0.01022	Col 2	5.22
4,4'-DDT	7.721	9.579	3700509	8222156	0.00906	0.00932	0.00906	0.00932	Col 2	2.82
Alpha-BHC	3.923	4.573	7676897	16330850	0.00954	0.01006	0.00954	0.01006	Col 2	5.30
Gamma-BHC	4.254	5.026	6819940	15193027	0.00969	0.01025	0.00969	0.01025	Col 2	5.61
Mirex	8.905	11.813	4749236	10072831	0.01024	0.01069	0.01024	0.01069	Col 2	4.30
Tetrachloro-m-xylene	3.377	3.861	5857242	11364871	0.01006	0.01061	0.01006	0.01061	Col 2	5.32
Decachlorobiphenyl	12.258	15.519	5840756	10797217	0.00971	0.01062	0.00971	0.01062	Col 2	8.95

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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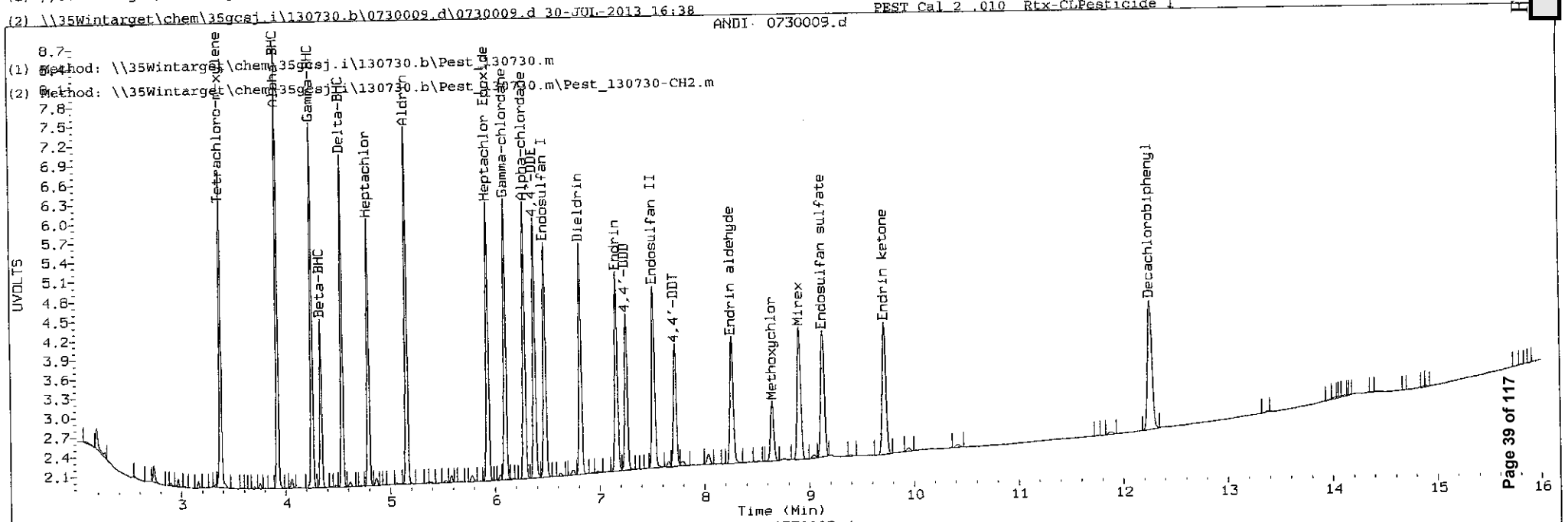

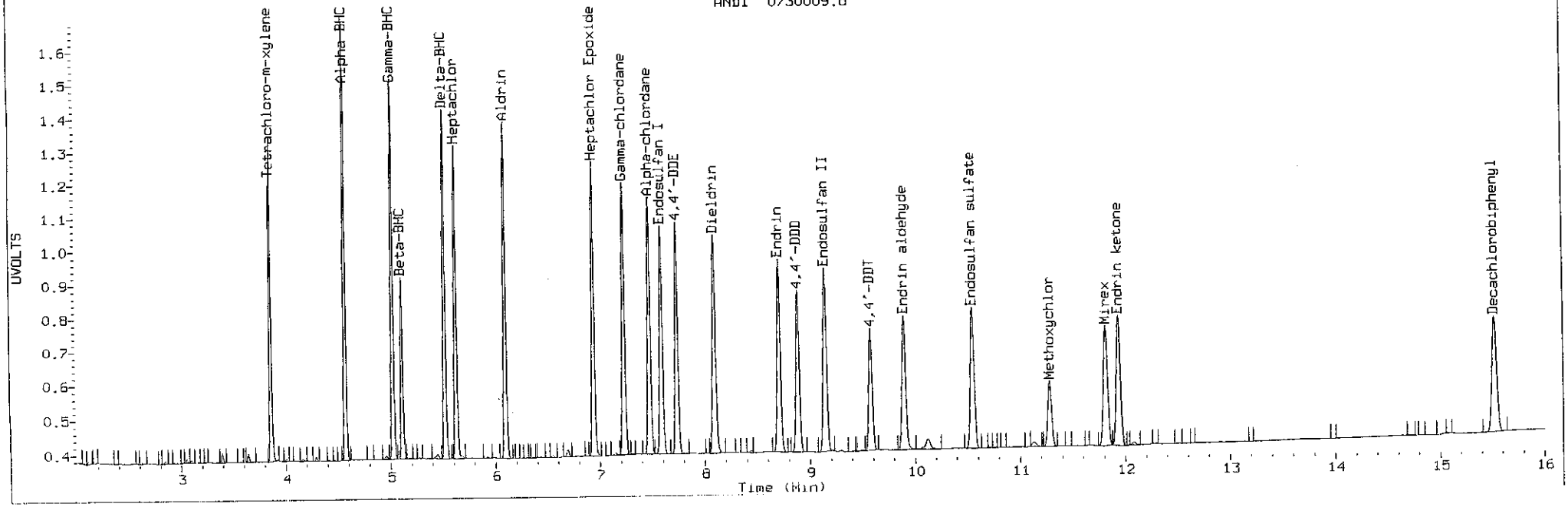

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Report Date: 30-Jul-2013 21:43

Pace Analytical Services, Inc

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Sample Info: PEST Cal 1 .001
Misc Info :
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.375	7.737	783449	1380118	0.00116	0.00108	0.00116	0.00108	Col 2	7.14
Endosulfan sulfate	9.128	10.548	581413	1220181	0.00121	0.00117	0.00121	0.00117	Col 2	3.36(M)
Methoxychlor	8.646	11.281	250395	567172	0.00122	0.00113	0.00122	0.00113	Col 2	7.45(M)
Endrin aldehyde	8.261	9.899	552772	1224715	0.00128	0.00127	0.00128	0.00127	Col 2	0.78(M)
Beta-BHC	4.335	5.113	410537	853310	0.00128	0.00125	0.00128	0.00125	Col 2	2.37
Delta-BHC	4.538	5.522	685295	1540132	0.00102	0.00105	0.00102	0.00105	Col 2	2.89
Heptachlor	4.788	5.627	683934	1514519	0.00120	0.00112	0.0012	0.00112	Col 2	6.89
Aldrin	5.153	6.098	814079	1725679	0.00101	0.00114	0.00101	0.00114	Col 2	12.0
Heptachlor Epoxide	5.928	6.942	775999	1674085	0.00113	0.00119	0.00113	0.00119	Col 2	5.17

Gamma-chlordane	6.096	7.231	749179	1634891	0.00106	0.00117	0.00106	0.00117	Col 2	9.86
Alpha-chlordane	6.278	7.475	764357	1595862	0.00109	0.00118	0.00109	0.00118	Col 2	7.92
Endrin ketone	9.716	11.937	727655	1341102	0.00134	0.00119	0.00134	0.00119	Col 2	11.8
Endosulfan I	6.474	7.591	714922	1434738	0.00117	0.00116	0.00117	0.00116	Col 2	0.85
Dieldrin	6.815	8.093	681316	1505020	0.00112	0.00113	0.00112	0.00113	Col 2	0.88
Endrin	7.158	8.708	622760	1437015	0.00115	0.00116	0.00115	0.00116	Col 2	0.86
4,4'-DDD	7.253	8.886	516793	1201175	0.00118	0.00116	0.00118	0.00116	Col 2	1.70
Endosulfan II	7.513	9.146	655225	1471293	0.00116	0.00121	0.00116	0.00121	Col 2	4.21
4,4'-DDT	7.718	9.576	455028	941669	0.00111	0.00106	0.00111	0.00106	Col 2	4.60
Alpha-BHC	3.918	4.573	770277	1647445	0.00095	0.00101	0.00095	0.00101	Col 2	6.12 (M)
Gamma-BHC	4.249	5.025	719083	1562985	0.00102	0.00105	0.00102	0.00105	Col 2	2.89
Mirex	8.901	11.813	575266	1234081	0.00124	0.00131	0.00124	0.00131	Col 2	5.49
Tetrachloro-m-xylene	3.372	3.861	753290	1282980	0.00129	0.00119	0.00129	0.00119	Col 2	8.06 (M)
Decachlorobiphenyl	12.257	15.518	749662	1309432	0.00124	0.00128	0.00124	0.00128	Col 2	3.17 (M)

QC Flag Legend
M = Manually integrated
B = Blank interference
J = Below Limit of Quantitation
E = Above Max amount

Target Dual Column/Detector/Channel Sample Report Page 2 07/30/2013 21:43

	Data File	Injection Date	Client ID	Lab ID	Column Phase
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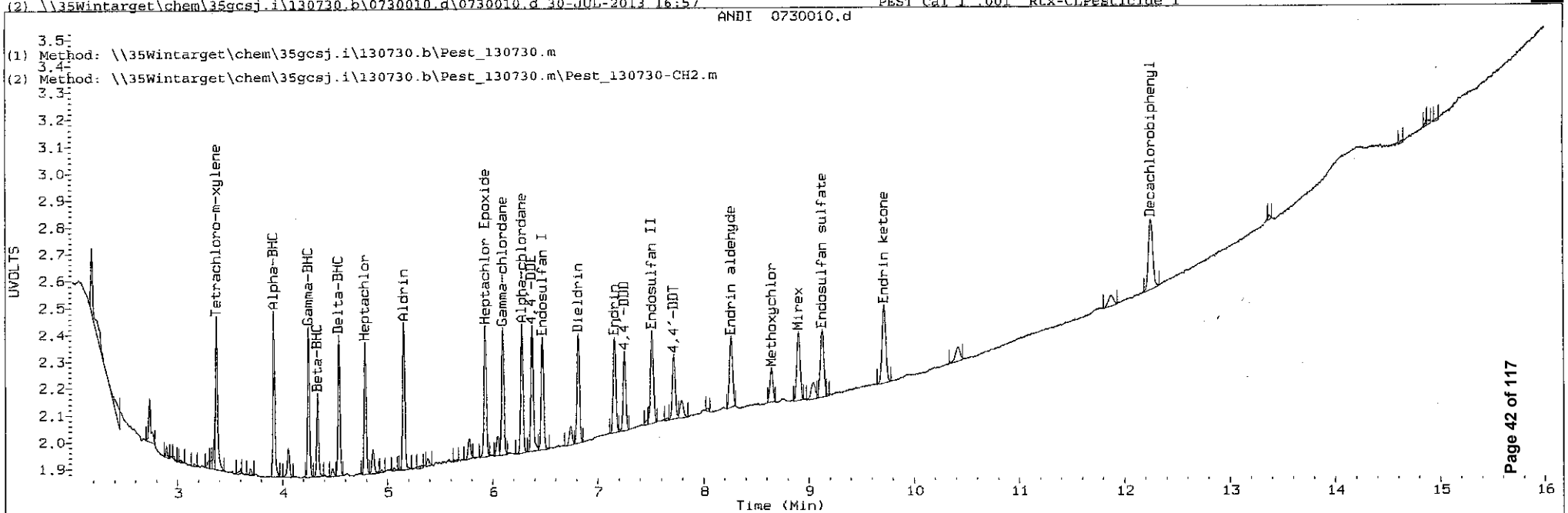

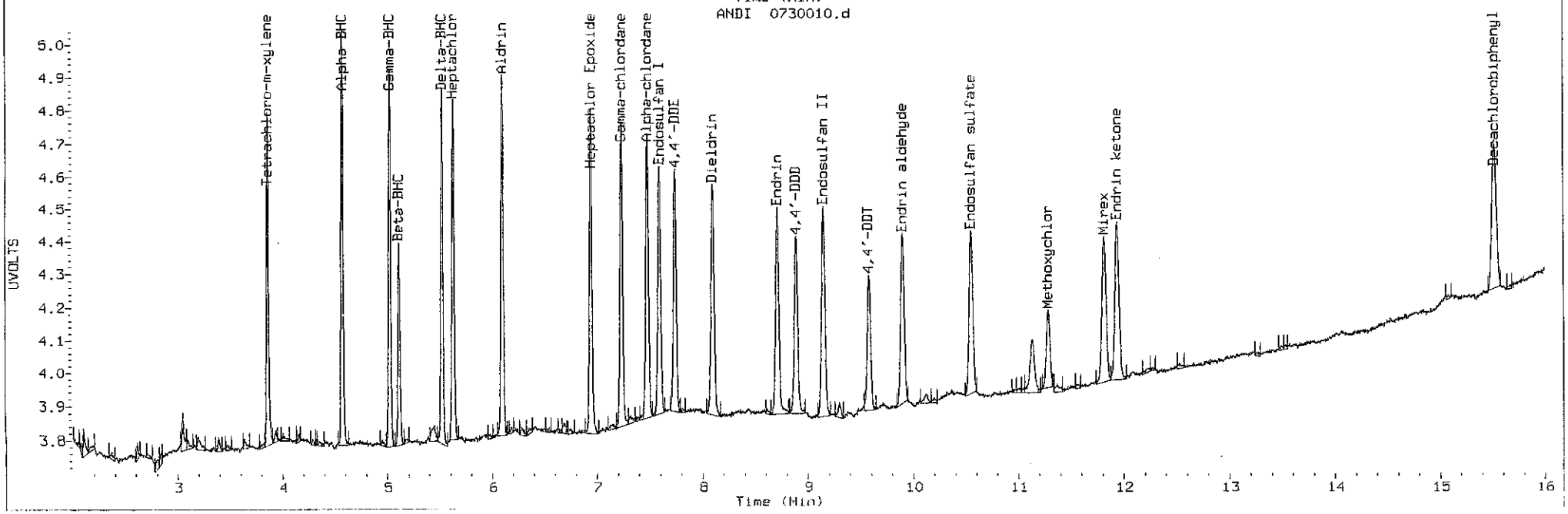

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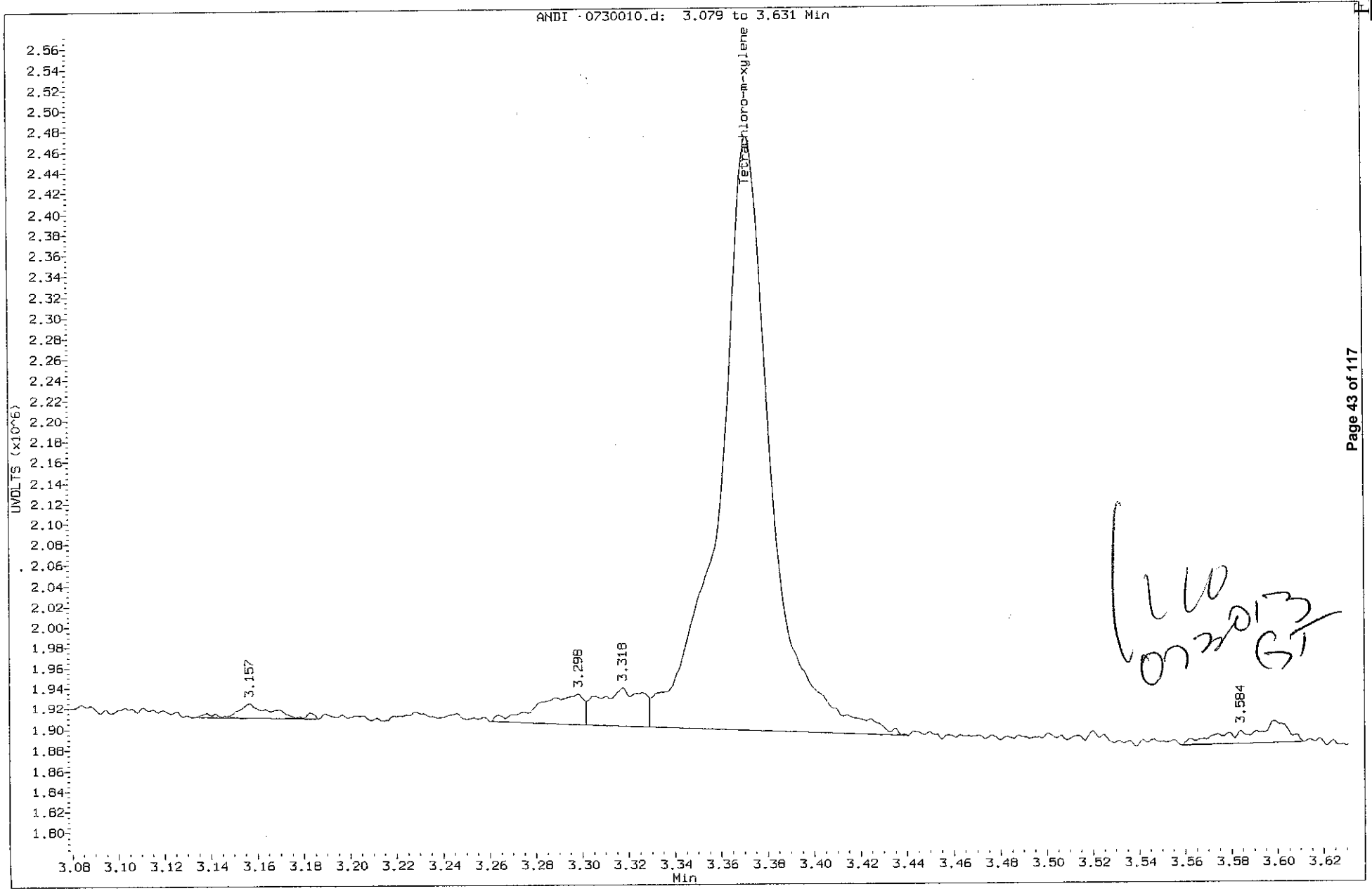

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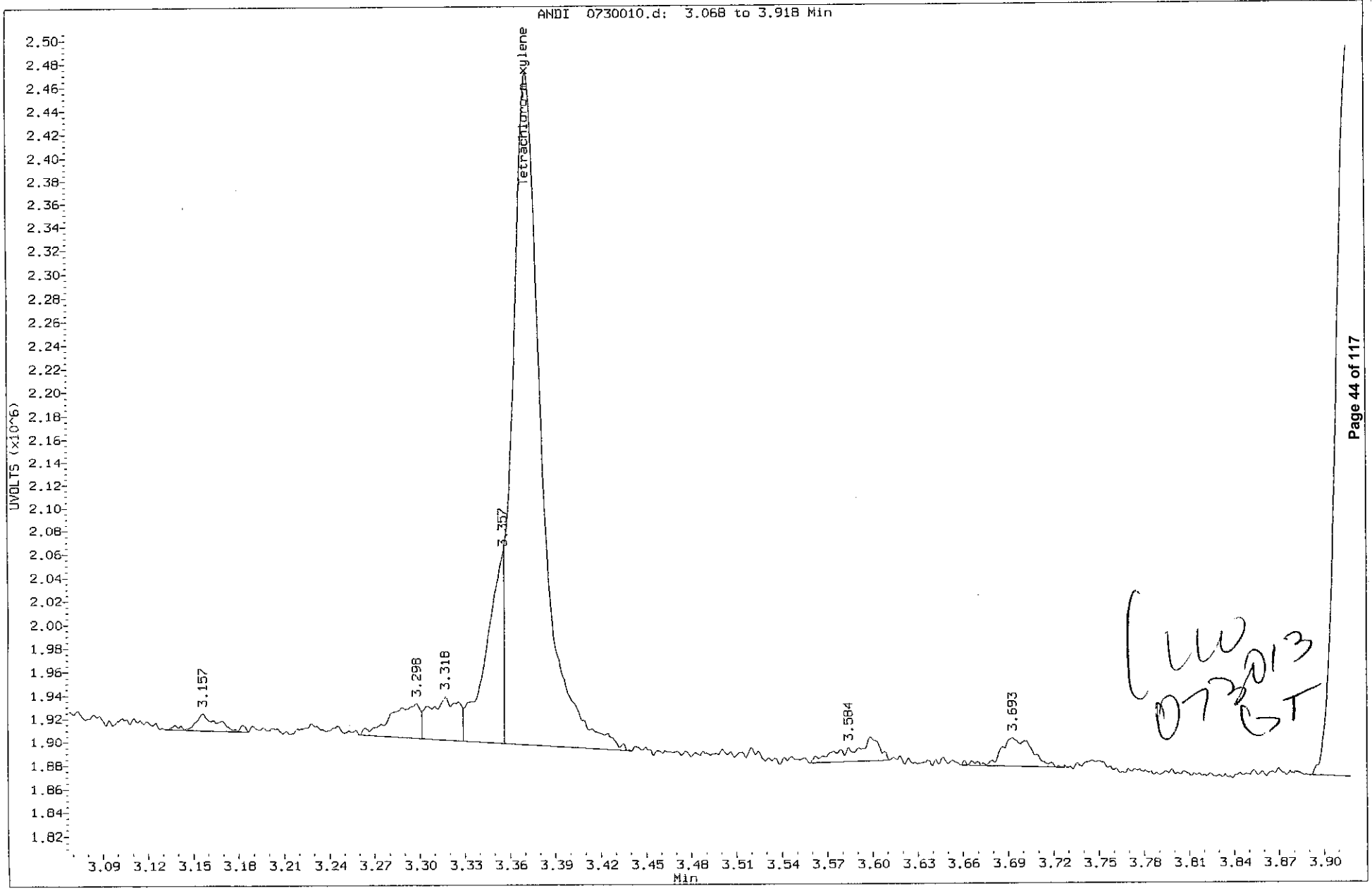

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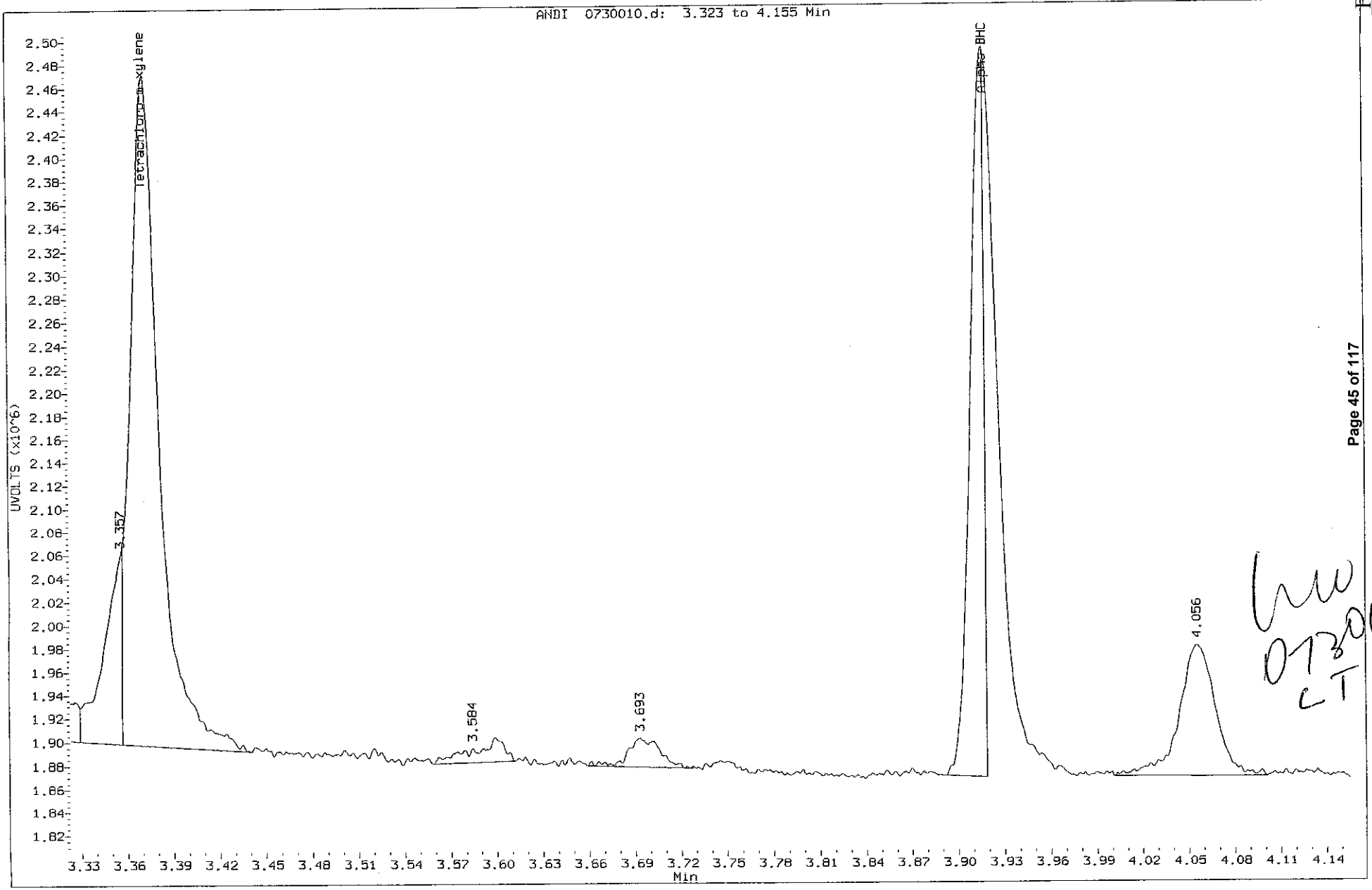

LW 07/30/13 CT

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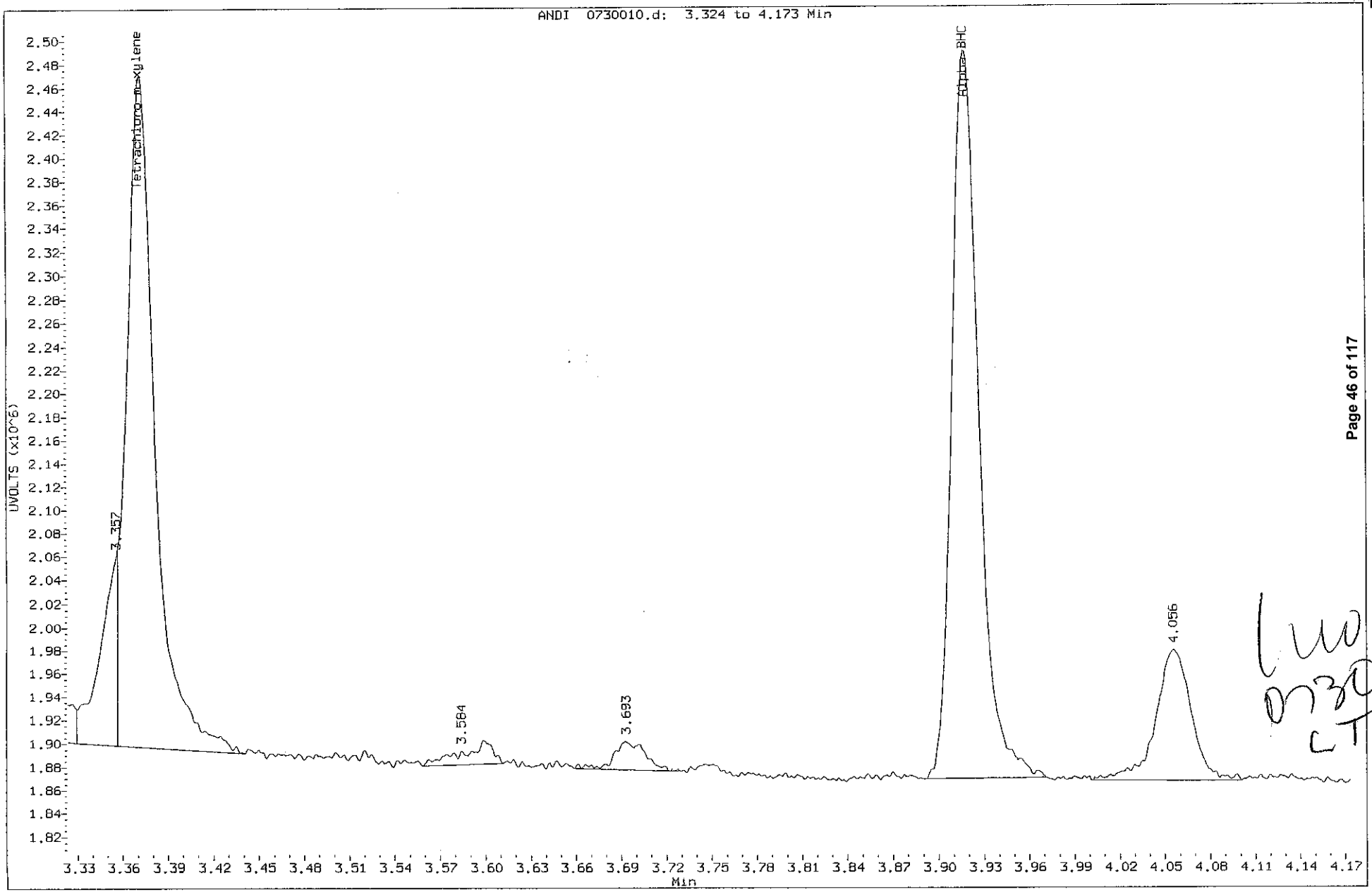

LW 07/30/13 CT

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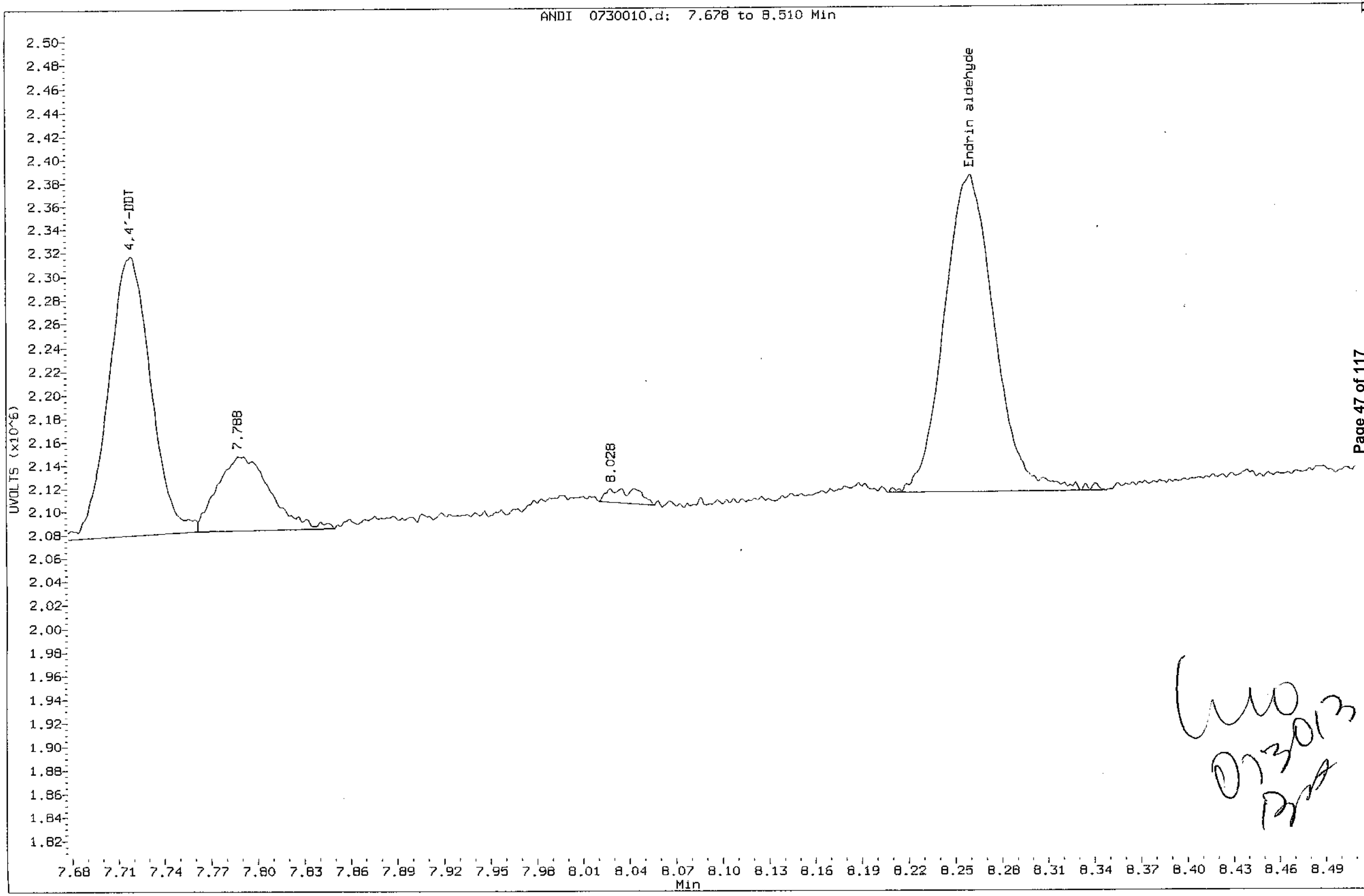

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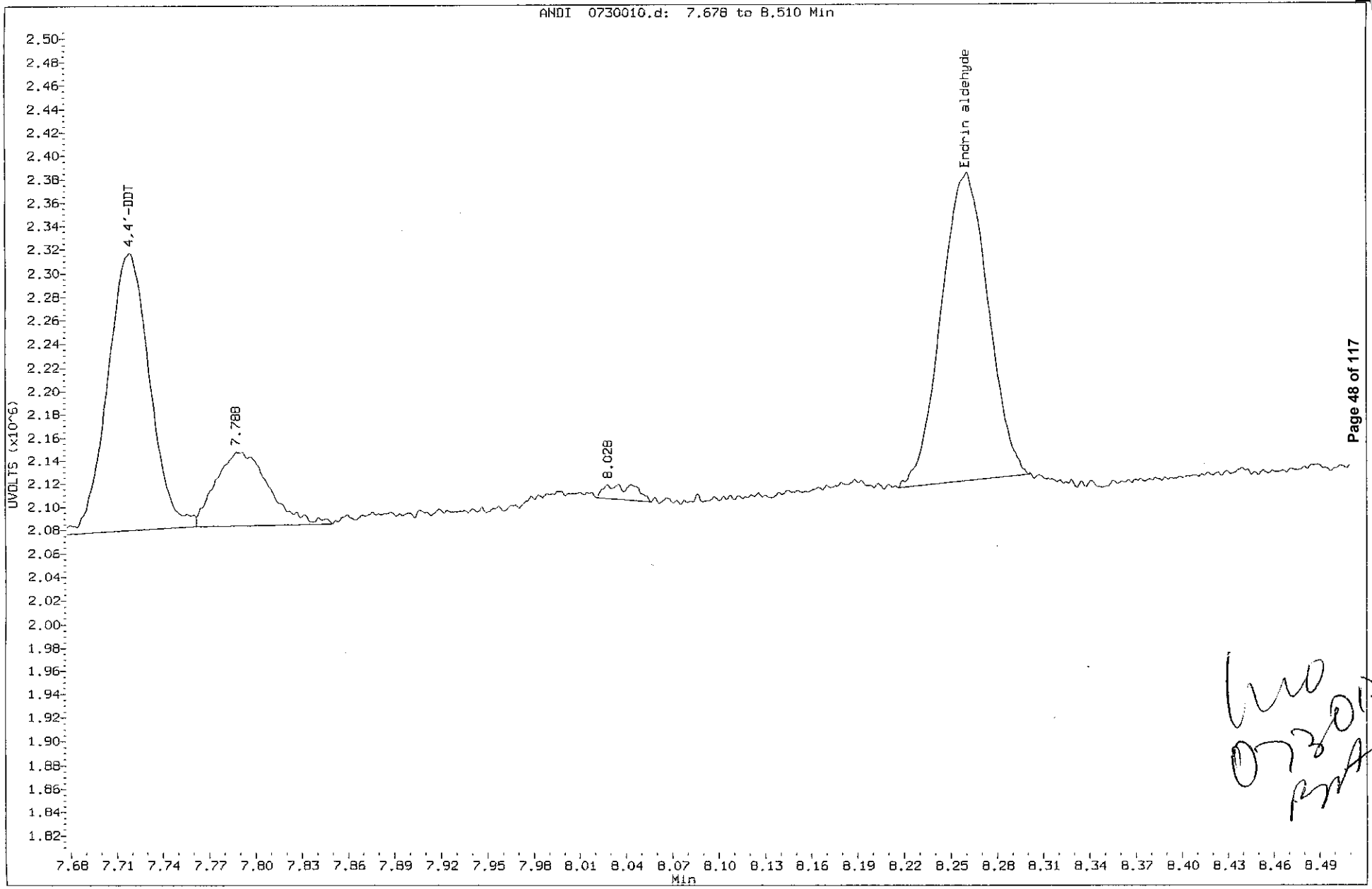

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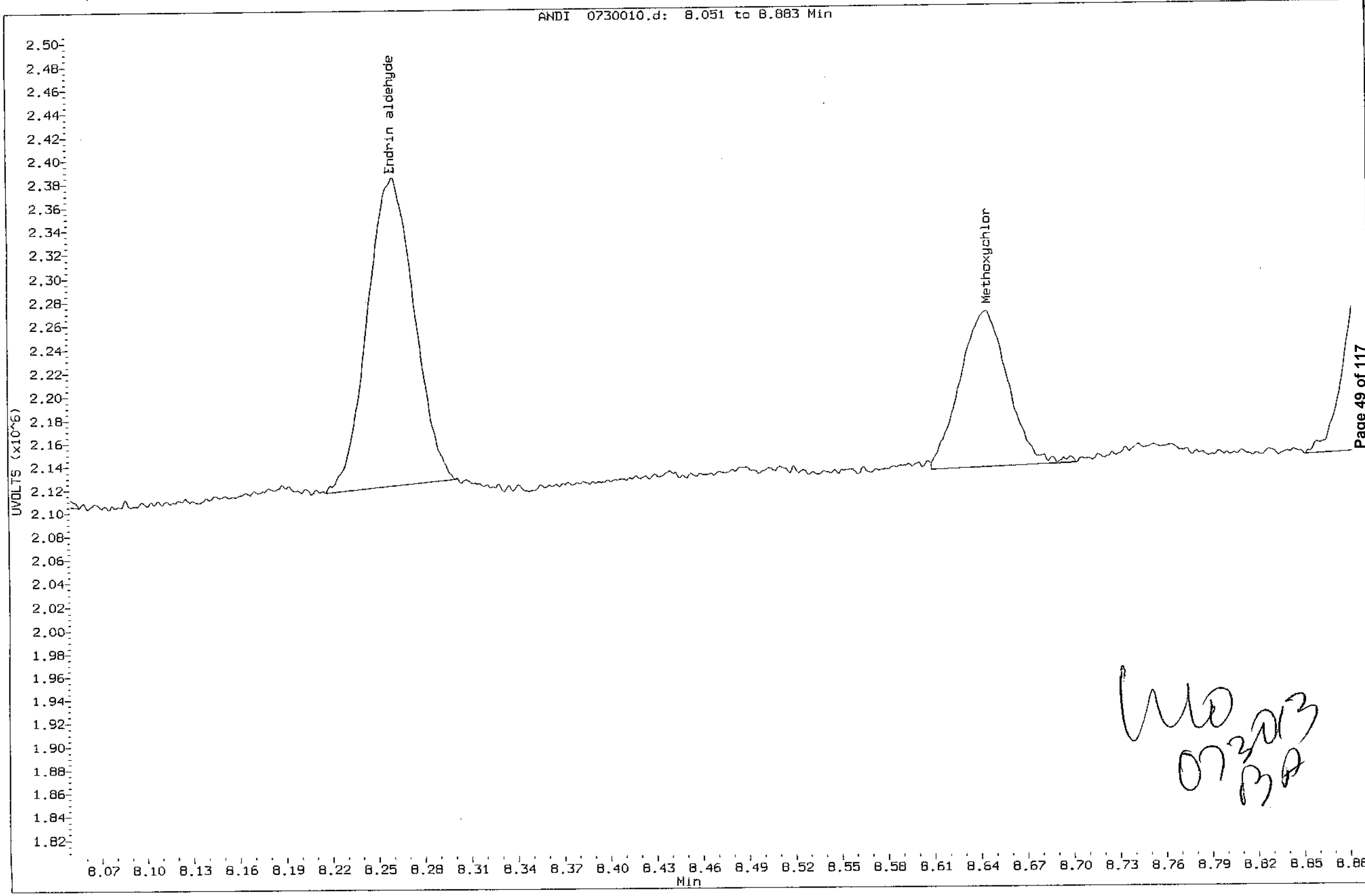

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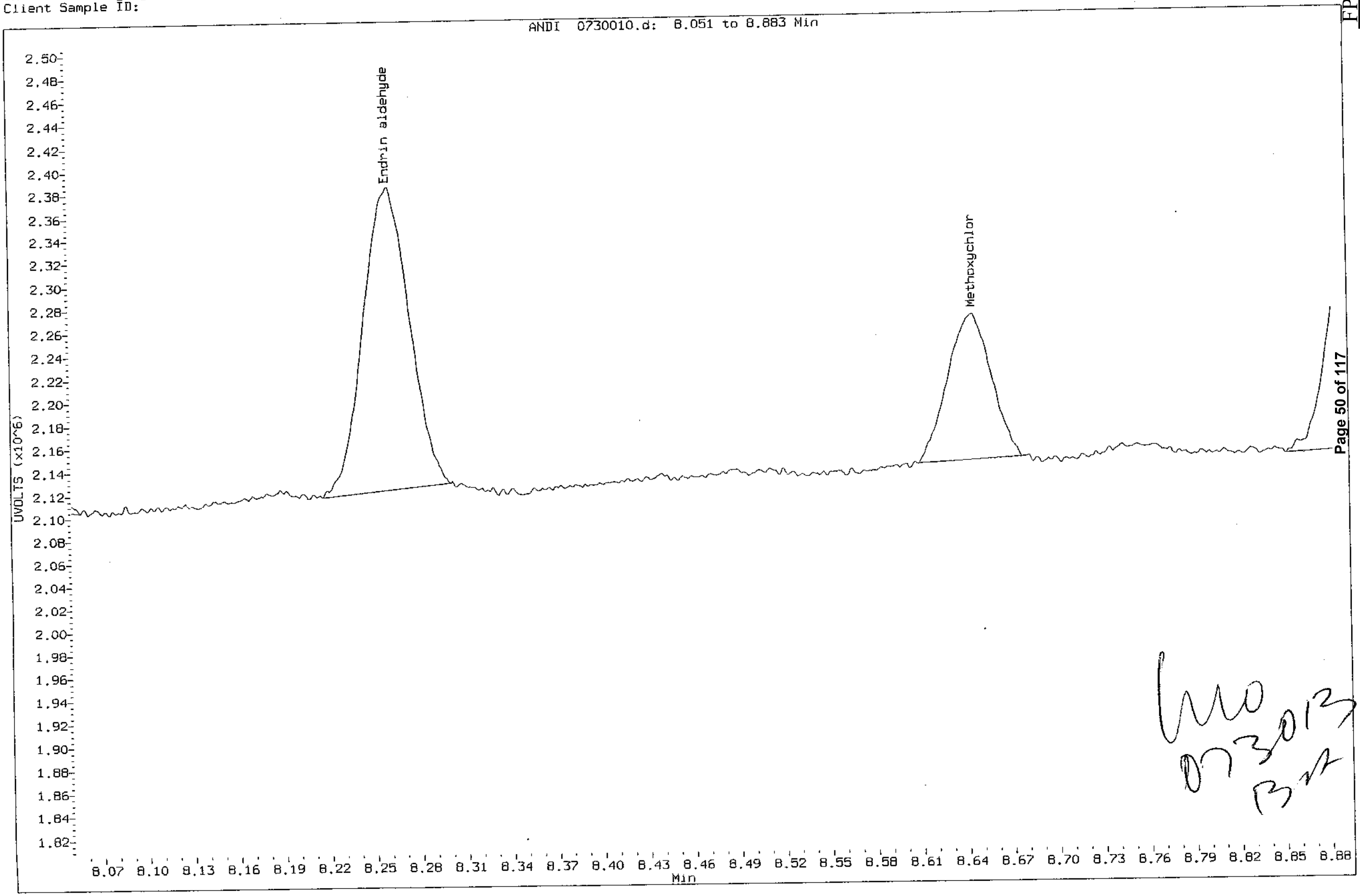

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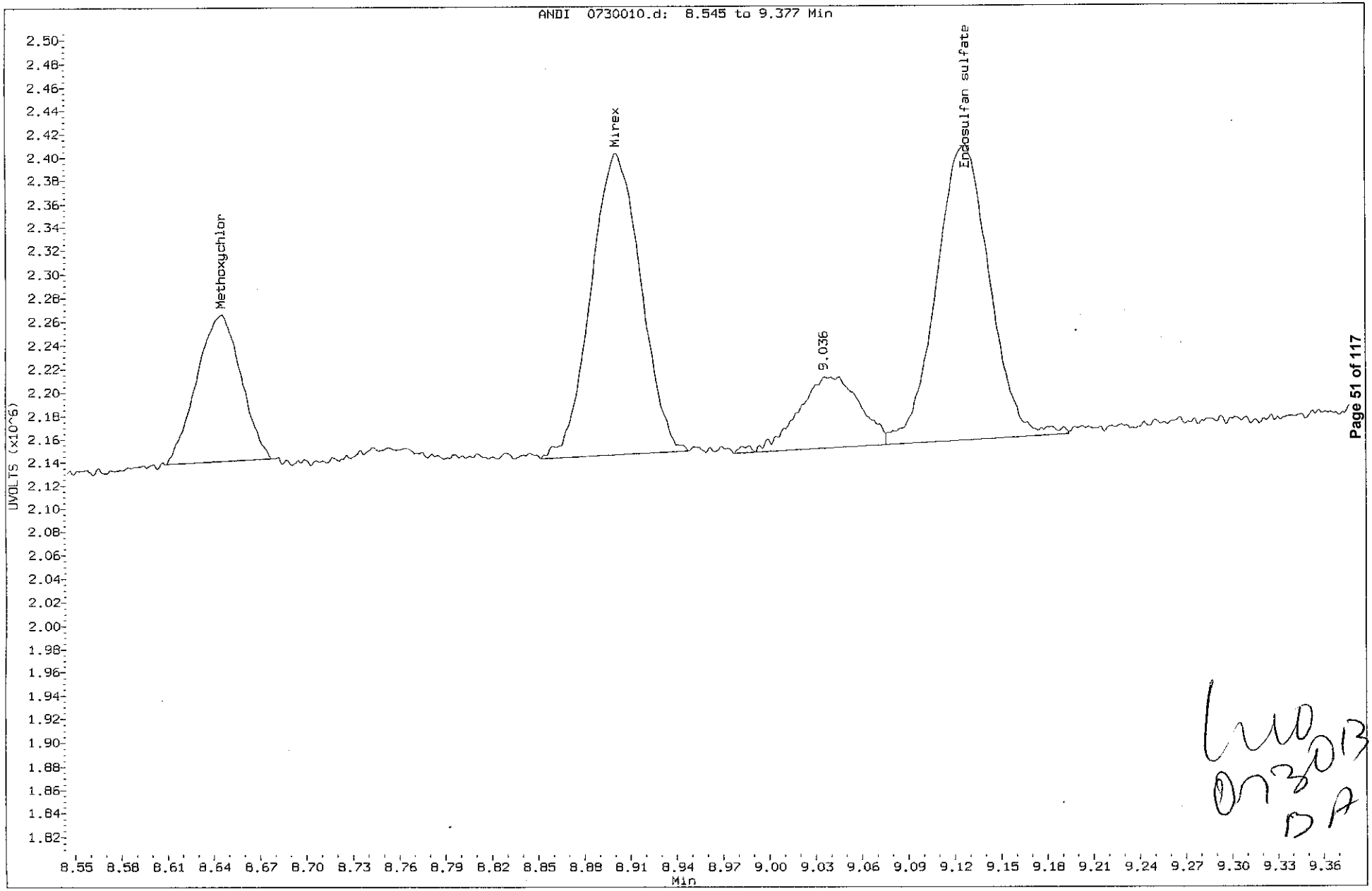

7/30/2013
DA

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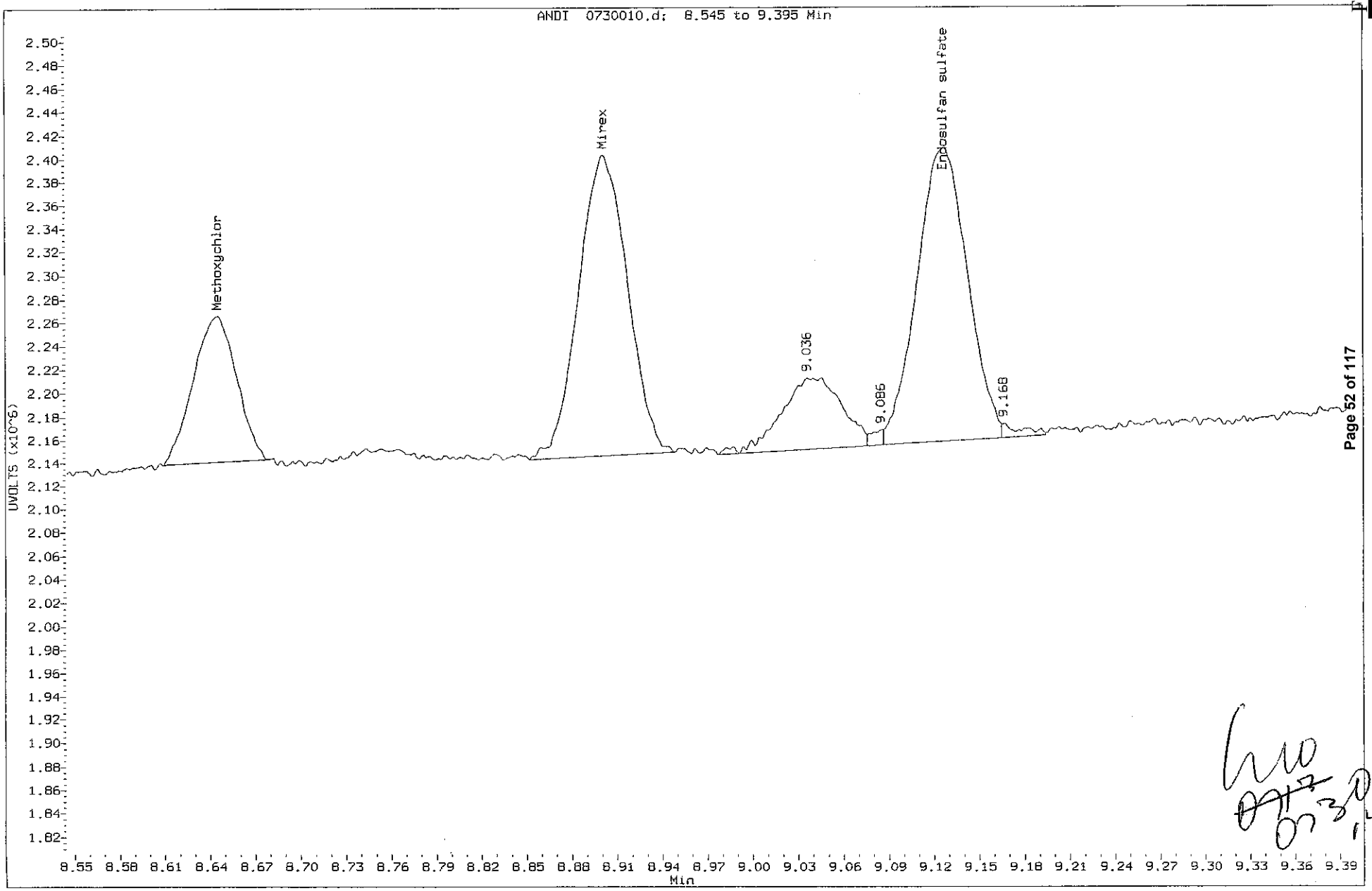

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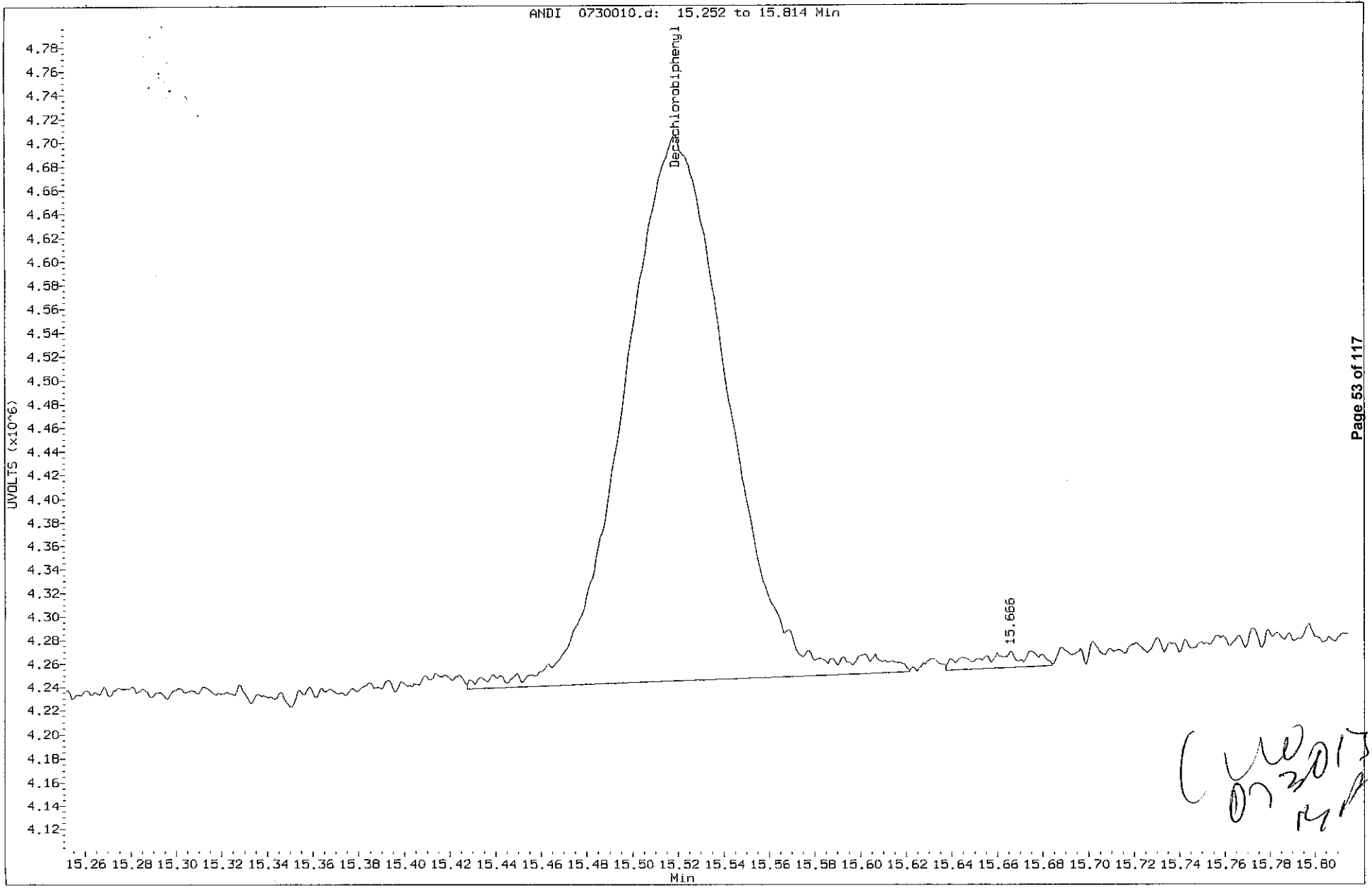
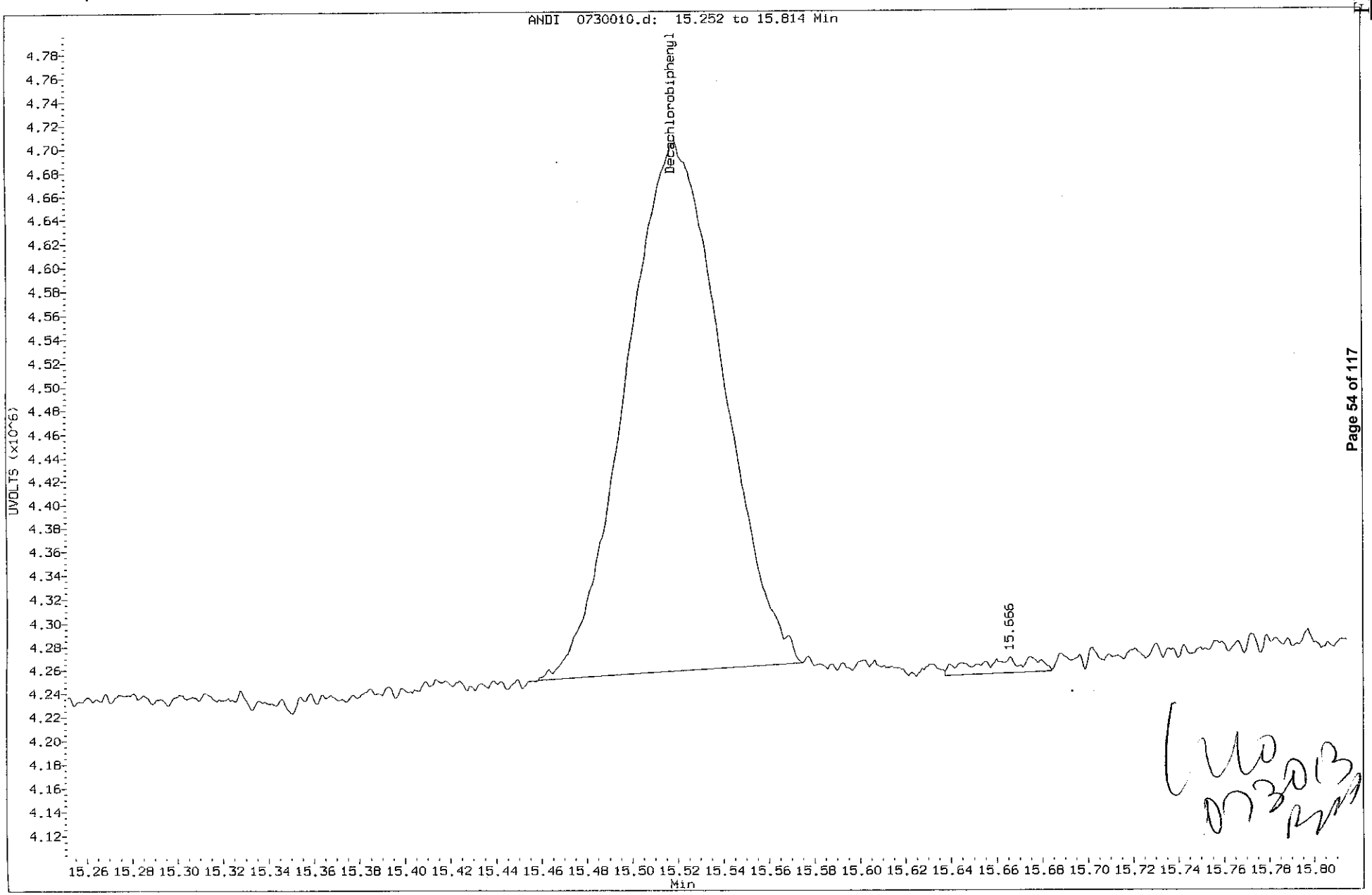
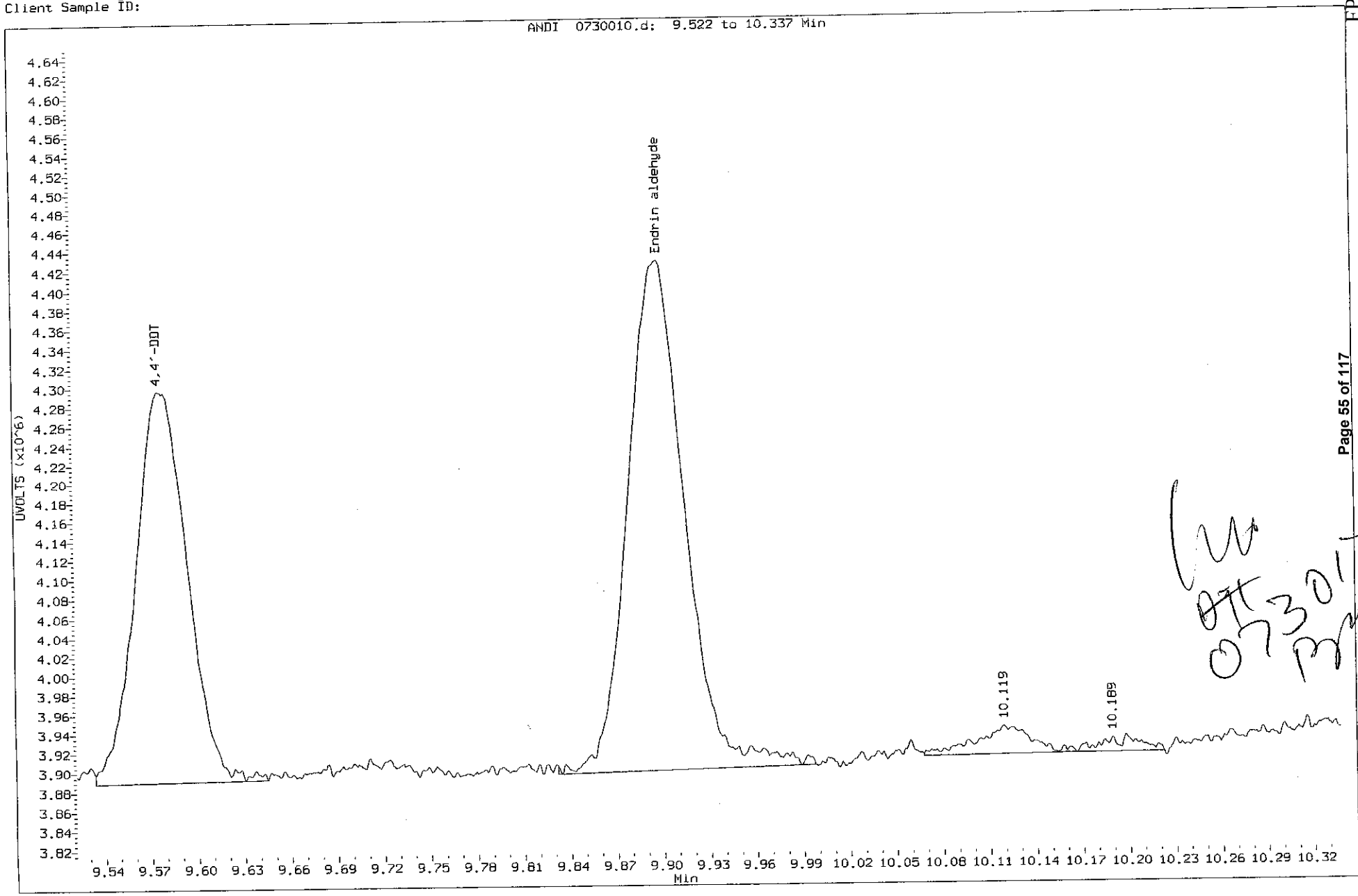
Instrument: 35gcsj.i
Client Sample ID:



Data File: //35Wintarget/chem/35gcsj.i/130730.b/0730010.d/0730010.d
Injection Date: 30-JUL-2013 16:57
Instrument: 35gcsj.i
Client Sample ID:

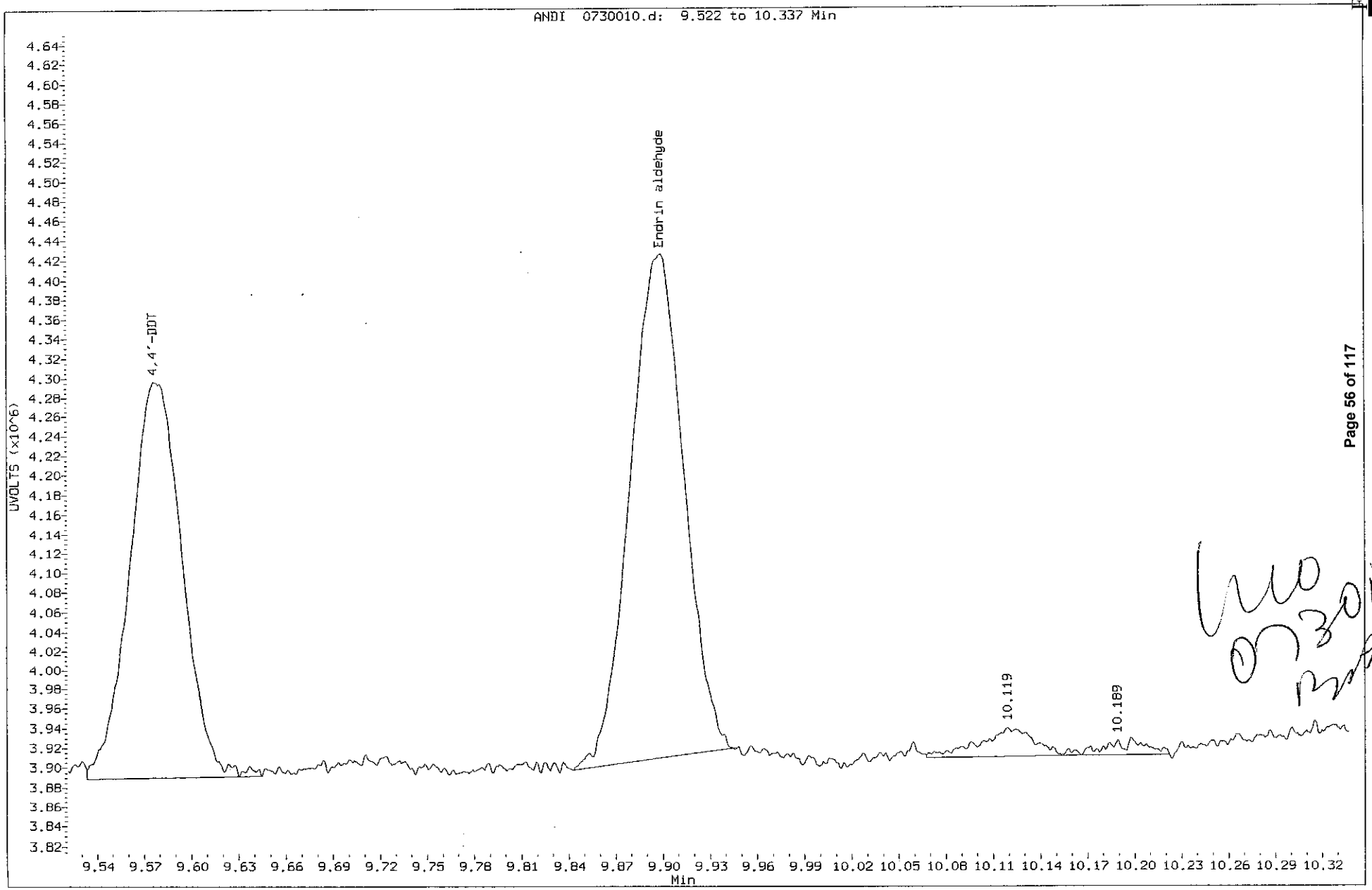


Data File: //35Wintarget/chem/35gcsj.i/130730.b/0730010.d/0730010.d
Injection Date: 30-JUL-2013 16:57
Instrument: 35gcsj.i
Client Sample ID:

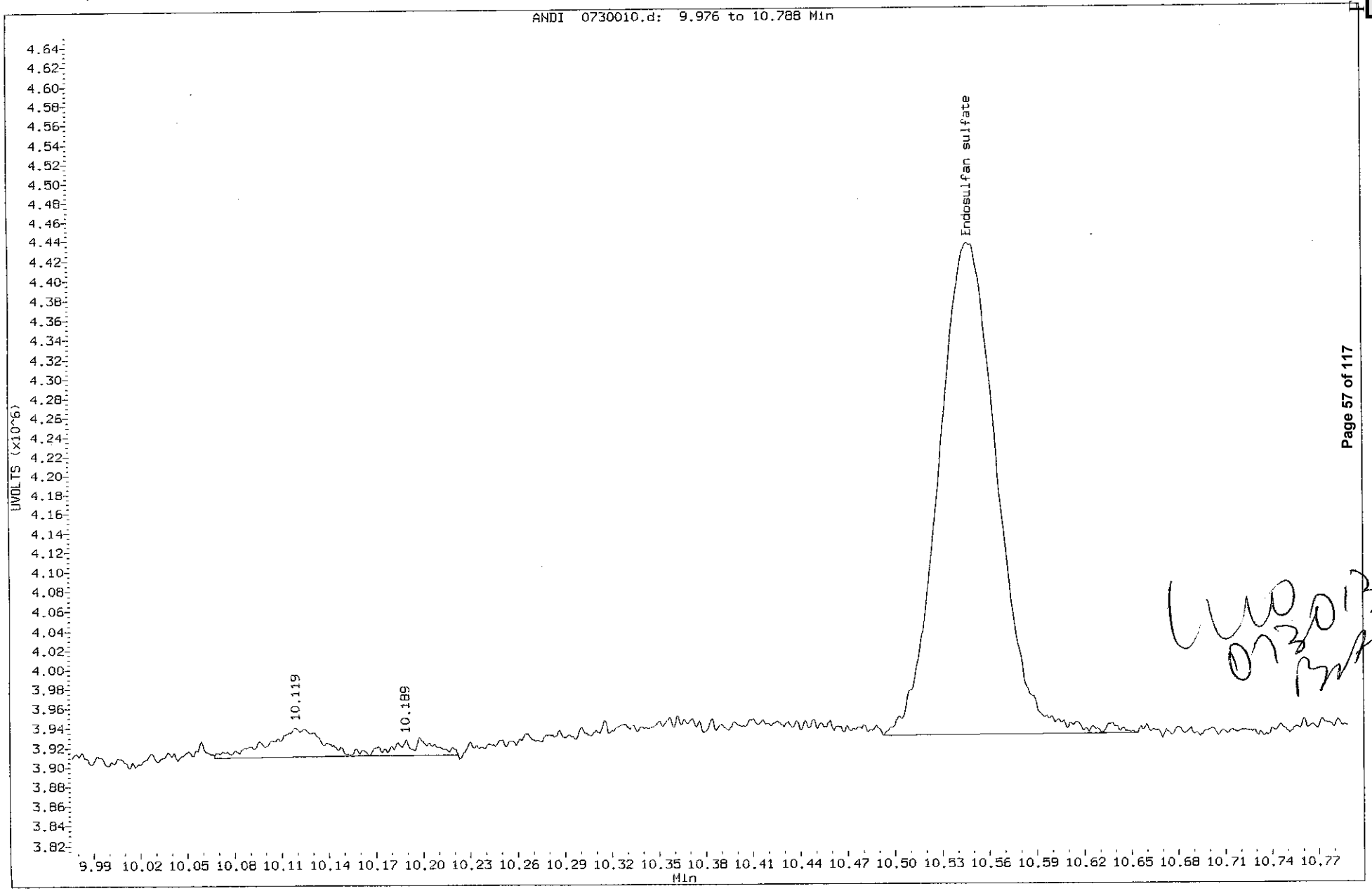


LW 07 30 13 PM

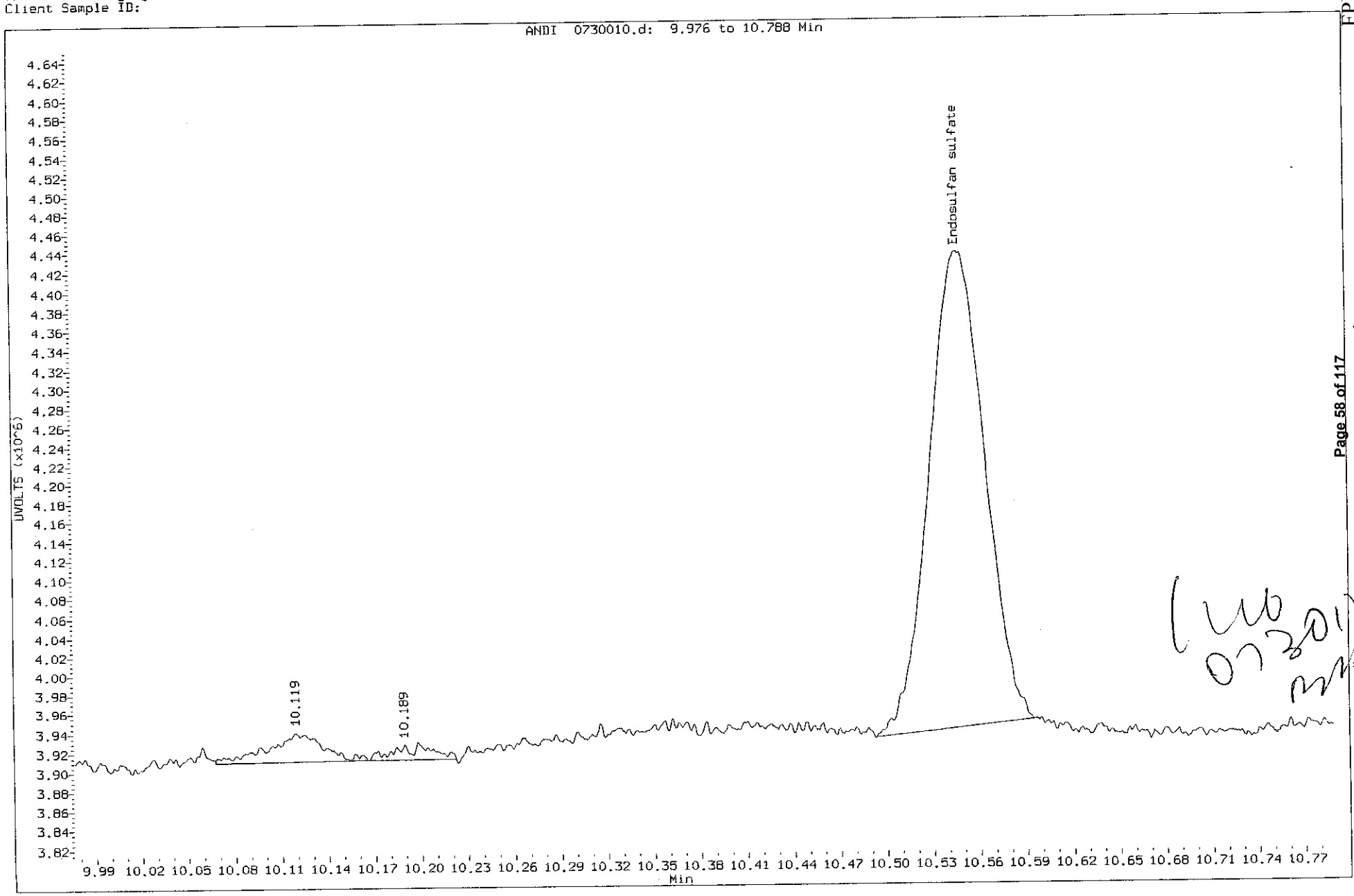
Data File: //35Wintarget/chem/35gcsj.i/130730.b/0730010.d/0730010.d
Injection Date: 30-JUL-2013 16:57
Instrument: 35gcsj.i
Client Sample ID:



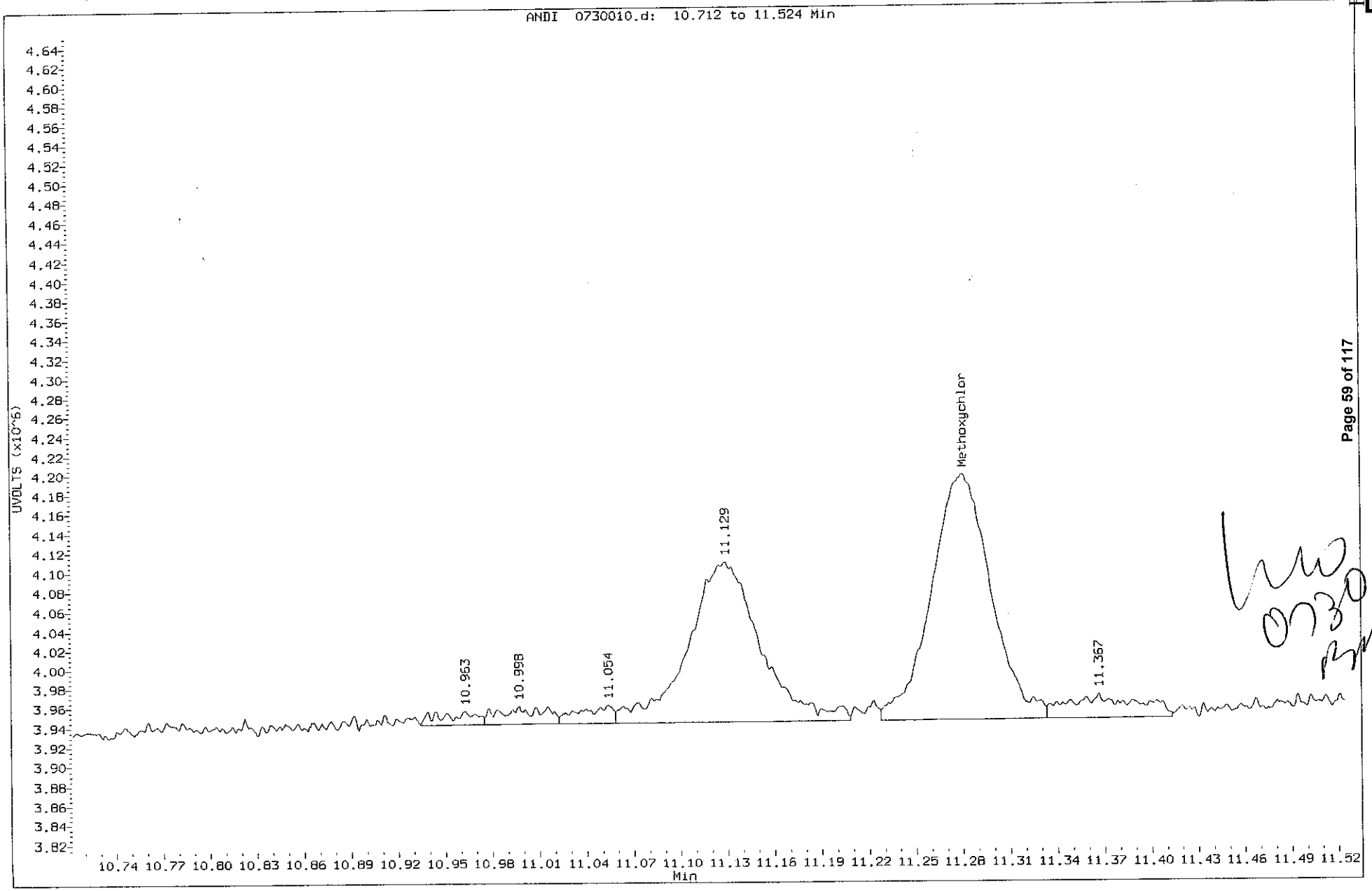
Data File: //35Wintarget/chem/35gcsj.i/130730.b/0730010.d/0730010.d
Injection Date: 30-JUL-2013 16:57
Instrument: 35gcsj.i
Client Sample ID:



Data File: //35Wintarget/chem/35gcsj.i/130730.b/0730010.d/0730010.d
Injection Date: 30-JUL-2013 16:57
Instrument: 35gcsj.i
Client Sample ID:

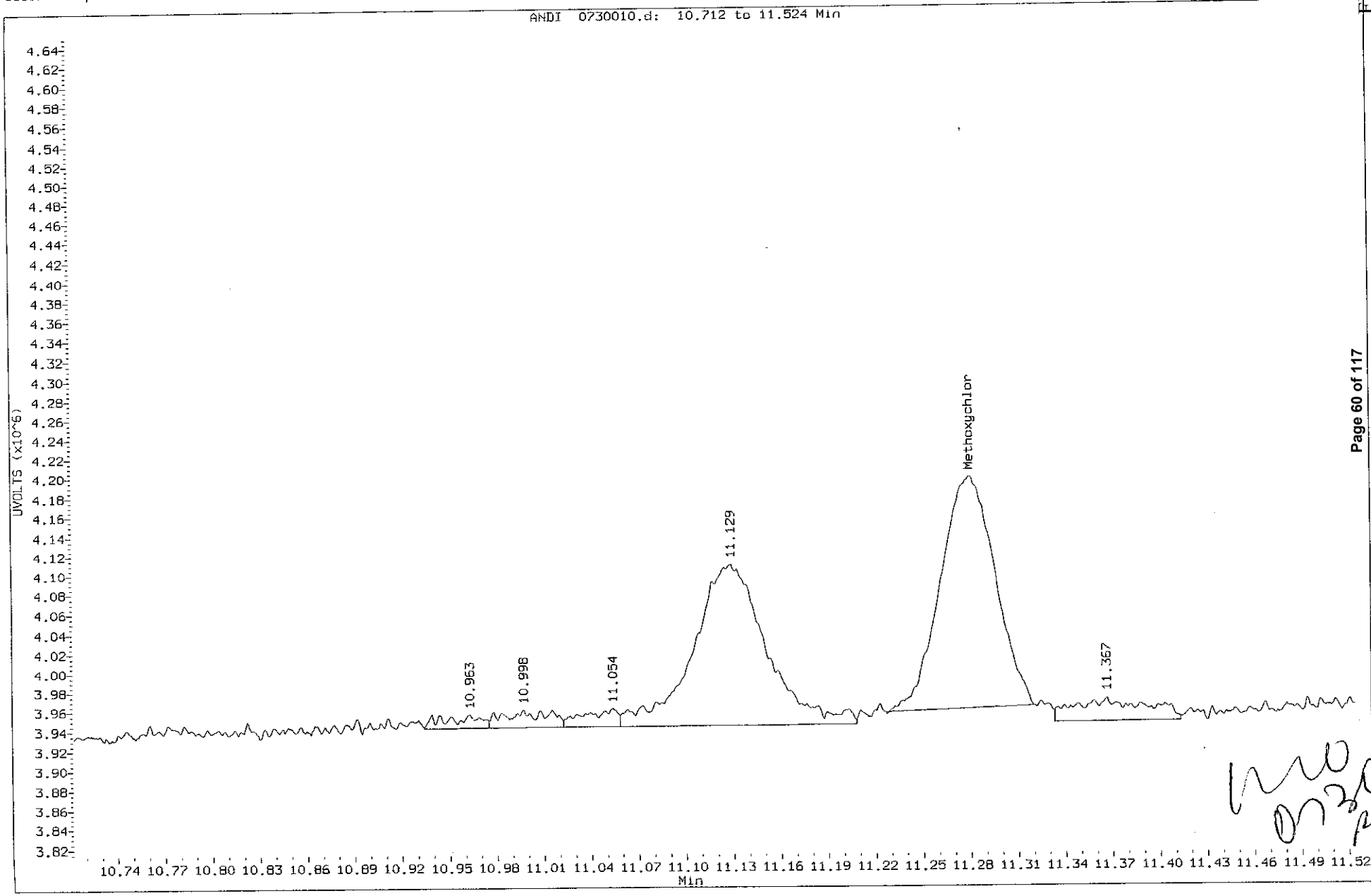


Data File: //35Wintarget/chem/35gcsj.i/130730.b/0730010.d/0730010.d
Injection Date: 30-JUL-2013 16:57
Instrument: 35gcsj.i
Client Sample ID:



LMW 07/30/13

Data File: //35Wintarget/chem/35gcsj.i/130730.b/0730010.d/0730010.d
Injection Date: 30-JUL-2013 16:57
Instrument: 35gcsj.i
Client Sample ID:



8/2/2013

Report Date : 30-Jul-2013 21:45

Pace Analytical Services, Inc

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-2013 15:23
End Cal Date : 30-JUL-2013 16:57
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Last Edit : 30-Jul-2013 21:43 lgonzalez

Calibration File Names:
Level 1: \\35Wintarget\chem\35gcsj.i\130730.b\0730010.d
Level 2: \\35Wintarget\chem\35gcsj.i\130730.b\0730009.d
Level 3: \\35Wintarget\chem\35gcsj.i\130730.b\0730008.d
Level 4: \\35Wintarget\chem\35gcsj.i\130730.b\0730007.d
Level 5: \\35Wintarget\chem\35gcsj.i\130730.b\0730006.d
Level 6: \\35Wintarget\chem\35gcsj.i\130730.b\0730005.d

Compound	0.0010000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.0750000 Level 5	0.1000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Alpha-BHC	770277000	767689700	791739400	796162740	804228787	897126370	AVRG		804537333		5.91891
3 Gamma-BHC	719083000	681994000	685608440	687796340	677382920	768649690	AVRG		703419065		5.00550
5 Beta-BHC	410537	3326850	7579626	14360724	20883796	30475332	QUAD	-0.00222	3.966e-009	-1.903e-01	0.99799
6 Delta-BHC	685295000	636871600	642431720	661741760	649776360	738918380	AVRG		669172470		5.71561
7 Heptachlor	683934000	552320400	537577840	537439880	494713400	597973850	AVRG		567326562		11.64222
8 Aldrin	814079000	758512200	774473240	789527480	797306573	870401360	AVRG		800716642		4.88224
10 Heptachlor Epoxide	775999000	659318100	646470800	650368440	649140133	710120330	AVRG		681902801		7.61546
11 Gamma-chlordane	749179000	669997100	670257880	689261140	689651640	759662030	AVRG		704668132		5.62460
12 Alpha-chlordane	764357000	672521700	662719560	677759580	674683000	741800230	AVRG		698973512		6.12461
13 4,4'-DDE	783449000	633063100	615340160	645538440	637756680	711902840	AVRG		671175037		9.56533
14 Endosulfan I	714922000	595079100	569504440	578434800	572597467	628726970	AVRG		609877463		9.16373
15 Dieldrin	681316000	586849400	569745760	579619240	573965400	627619280	AVRG		603185847		7.22481
16 Endrin	622760000	537678400	509225200	513830480	497327200	547661810	AVRG		538080515		8.45306
17 4,4'-DDD	516793000	428547400	405984960	419803220	402993653	447224790	AVRG		436891171		9.68772

LLO 07/30/13

Pace Analytical Services, Inc

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-2013 15:23
End Cal Date : 30-JUL-2013 16:57
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Last Edit : 30-Jul-2013 21:43 lgonzalez

Compound	0.0010000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.0750000 Level 5	0.1000000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
19 Endosulfan II	655225000	546427800	521258800	545496500	530040293	578720760	AVRG		562861526		8.76231
20 4,4'-DDT	455028000	370050900	367920520	412217700	379263560	464219770	AVRG		408116742		10.54605
21 Endrin aldehyde	552772000	434405300	397739400	396581780	379938573	412054040	AVRG		428915182		14.77163
22 Methoxychlor	250395000	200619200	190193640	202422860	176355107	210336390	AVRG		205053699		12.24984
51 Mirex	575266000	474923600	432340840	439493760	407899640	451172890	AVRG		463516122		12.73160
23 Endosulfan sulfate	581413000	453965700	439239520	467830020	433561053	488282390	AVRG		477381947		11.45661
24 Endrin ketone	727655	4965915	11861833	26488615	35255618	54943505	QUAD	-0.00134	2.329e-009	-8.503e-01	0.99418
$ 1 Tetrachloro-m-xylene	753290	5857242	13574337	26341201	38936047	56280595	QUAD	-0.00180	2.142e-009	-5.687e-01	0.99889
$ 25 Decachlorobiphenyl	749662000	584075600	548851040	580493820	540531480	604456610	AVRG		601345092		12.70697

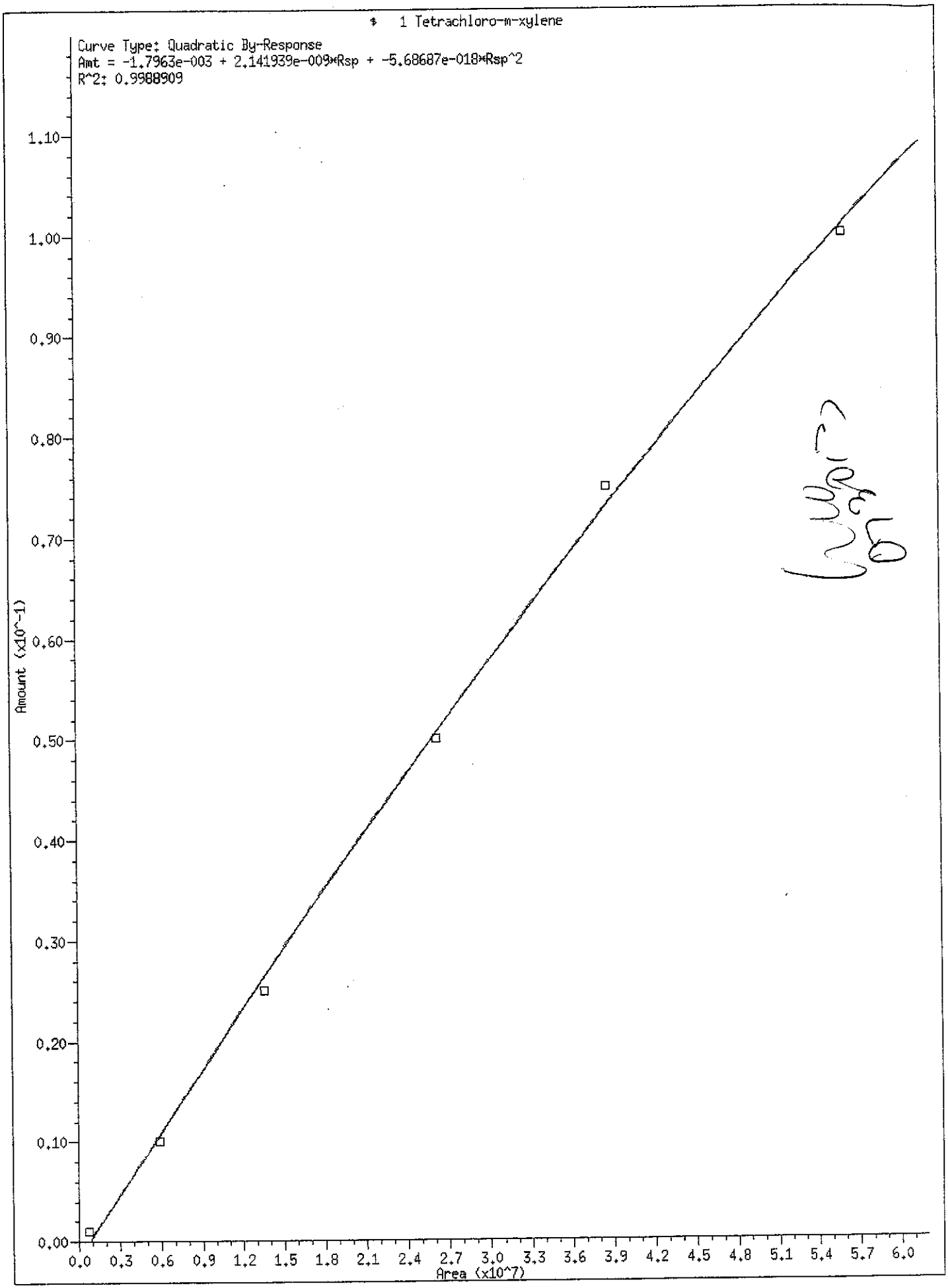
Pace Analytical Services, Inc

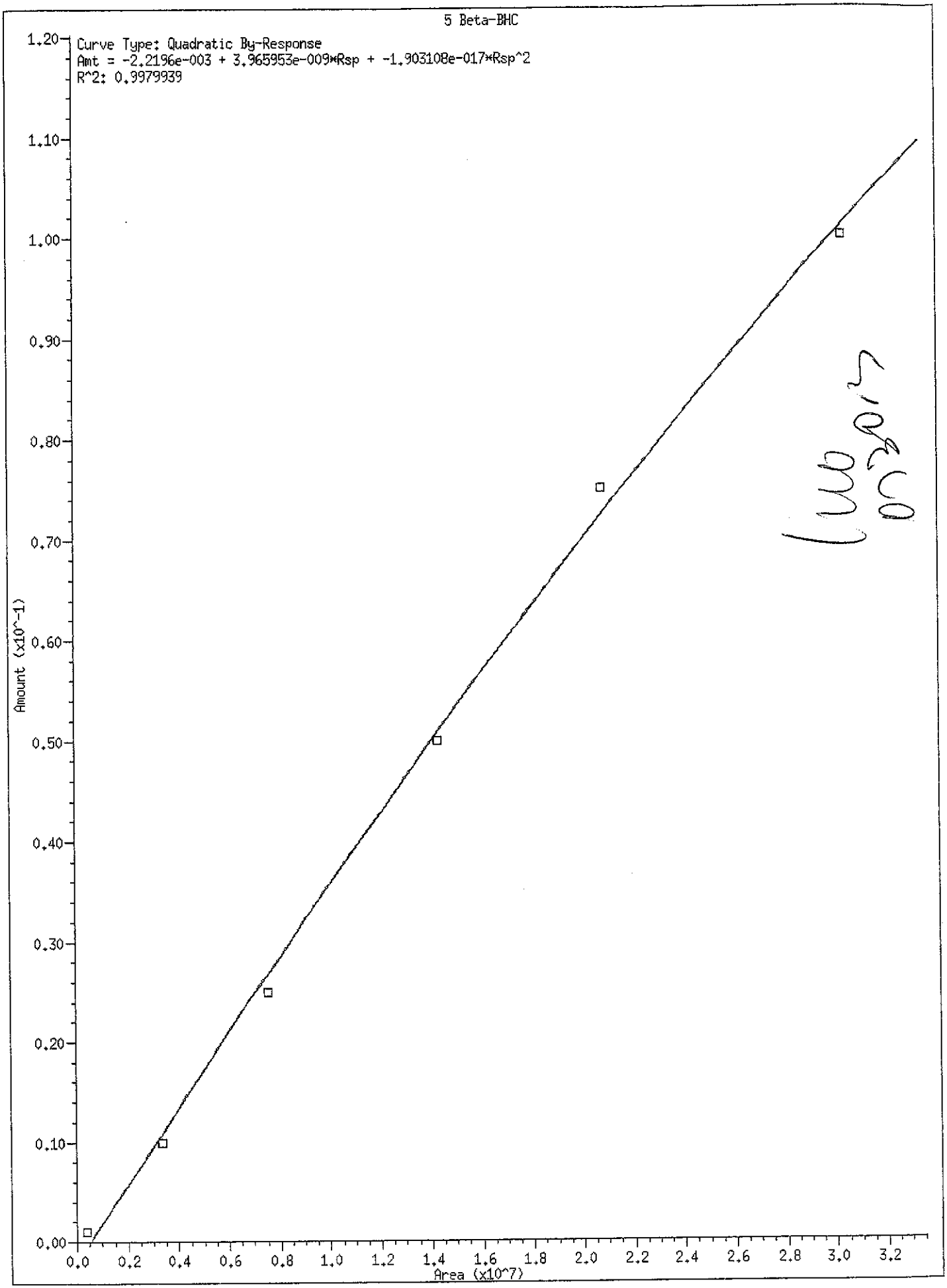
INITIAL CALIBRATION DATA

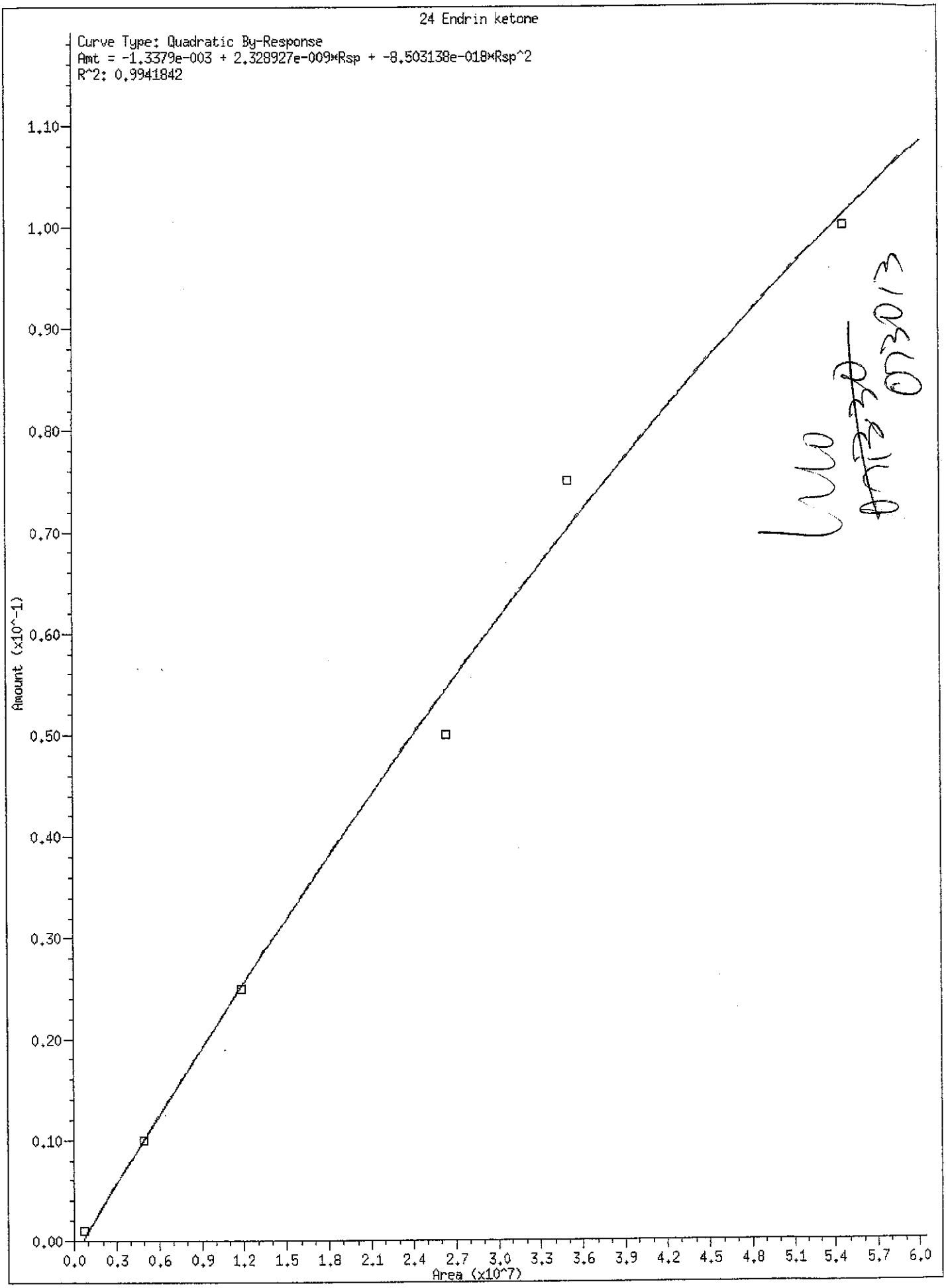
Start Cal Date : 30-JUL-2013 15:23
End Cal Date : 30-JUL-2013 16:57
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Last Edit : 30-Jul-2013 21:43 lgonzalez

Average %RSD Results.
Calculated Average %RSD = 9.90489
Maximun Average %RSD = 15.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response


1 Tetrachloro-m-xylene
Curve Type: Quadratic By-Response
Amt = -1.7963e-003 + 2.141939e-009*Rsp + -5.68687e-018*Rsp^2
R^2: 0.9988909
Amount (x10^-1)
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0
Area (x10^7)


5 Beta-BHC
Curve Type: Quadratic By-Response
Amt = -2.2196e-003 + 3.965953e-009*Rsp + -1.903108e-017*Rsp^2
R^2: 0.9979939
Amount (x10^-1)
Area (x10^7)
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2


24 Endrin ketone
Curve Type: Quadratic By-Response
Amt = -1.3379e-003 + 2.328927e-009*Rsp + -8.503138e-018*Rsp^2
R^2: 0.9941842
Amount (x10^-1)
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0
Area (x10^7)

Report Date : 30-Jul-2013 21:47

Pace Analytical Services, Inc

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-2013 15:23
End Cal Date : 30-JUL-2013 16:57
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m
Last Edit : 30-Jul-2013 21:43 lgonzalez

Calibration File Names:
Level 1: \\35Wintarget\chem\35gcsj.i\130730.b\0730010.d\0730010.d
Level 2: \\35Wintarget\chem\35gcsj.i\130730.b\0730009.d\0730009.d
Level 3: \\35Wintarget\chem\35gcsj.i\130730.b\0730008.d\0730008.d
Level 4: \\35Wintarget\chem\35gcsj.i\130730.b\0730007.d\0730007.d
Level 5: \\35Wintarget\chem\35gcsj.i\130730.b\0730006.d\0730006.d
Level 6: \\35Wintarget\chem\35gcsj.i\130730.b\0730005.d\0730005.d

Compound	0.0010000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.0750000 Level 5	0.1000000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
2 Alpha-BHC	1.647e+009	1.633e+009	1.653e+009	1.612e+009	1.540e+009	1.653e+009	AVRG		1.623e+009		2.69669
4 Gamma-BHC	1.563e+009	1.519e+009	1.480e+009	1.440e+009	1.367e+009	1.522e+009	AVRG		1.482e+009		4.72811
5 Beta-BHC	853310000	738523300	672017920	623404480	583867027	624100550	AVRG		682537213		14.51222
6 Delta-BHC	1.540e+009	1.460e+009	1.434e+009	1.434e+009	1.362e+009	1.518e+009	AVRG		1.458e+009		4.41991
7 Heptachlor	1.515e+009	1.380e+009	1.329e+009	1.293e+009	1.165e+009	1.390e+009	AVRG		1.345e+009		8.63370
8 Aldrin	1.726e+009	1.533e+009	1.467e+009	1.428e+009	1.378e+009	1.484e+009	AVRG		1.503e+009		8.06214
10 Heptachlor Epoxide	1.674e+009	1.453e+009	1.365e+009	1.314e+009	1.250e+009	1.346e+009	AVRG		1.400e+009		10.67870
12 Gamma-chlordane	1.635e+009	1.426e+009	1.350e+009	1.313e+009	1.249e+009	1.354e+009	AVRG		1.388e+009		9.65814
13 Alpha-chlordane	1.596e+009	1.409e+009	1.313e+009	1.266e+009	1.201e+009	1.292e+009	AVRG		1.346e+009		10.38647
14 Endosulfan I	1.435e+009	1.293e+009	1.199e+009	1.160e+009	1.103e+009	1.184e+009	AVRG		1.229e+009		9.62301
15 4,4'-DDE	1.380e+009	1.279e+009	1.240e+009	1.257e+009	1.192e+009	1.306e+009	AVRG		1.276e+009		5.00132
16 Dieldrin	1.505e+009	1.351e+009	1.295e+009	1.280e+009	1.228e+009	1.320e+009	AVRG		1.330e+009		7.16053
17 Endrin	1.437e+009	1.237e+009	1.181e+009	1.182e+009	1.119e+009	1.220e+009	AVRG		1.229e+009		8.91812
18 4,4'-DDD	1.201e+009	1.029e+009	986788120	1.010e+009	937538667	1.026e+009	AVRG		1.032e+009		8.68390

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Pace Analytical Services, Inc

INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-2013 15:23
End Cal Date : 30-JUL-2013 16:57
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m
Last Edit : 30-Jul-2013 21:43 lgonzalez

Compound	0.0010000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.0750000 Level 5	0.1000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Endosulfan II	1.471e+009	1.242e+009	1.168e+009	1.155e+009	1.089e+009	1.159e+009	AVRG		1.214e+009		11.12342
20 4,4'-DDT	941669000	822215600	828256920	911690660	807010307	977898590	AVRG		881456846		8.13714
21 Endrin aldehyde	1.225e+009	988965700	909451440	898736460	838311013	881235160	AVRG		956902462		14.64367
22 Endosulfan sulfate	1.220e+009	1.054e+009	988851360	1.020e+009	926927907	1.018e+009	AVRG		1.038e+009		9.53099
23 Methoxychlor	567172000	488299400	477015320	511130640	445266373	516577990	AVRG		500910287		8.26350
40 Mirex	1234081	10072831	22755765	43732843	58820006	83883307	LINR	-0.00175	812163597		0.99613
24 Endrin ketone	1.341e+009	1.053e+009	1.031e+009	1.138e+009	1.002e+009	1.146e+009	AVRG		1.118e+009		11.05108
$ 1 Tetrachloro-m-xylene	1.283e+009	1.136e+009	1.060e+009	997201080	952800787	996820360	AVRG		1.071e+009		11.37880
$ 25 Decachlorobiphenyl	1309432	10797217	24256339	48441643	64761089	90771418	QUAD	-0.00137	1.097e-009	3.576e-019	0.99678

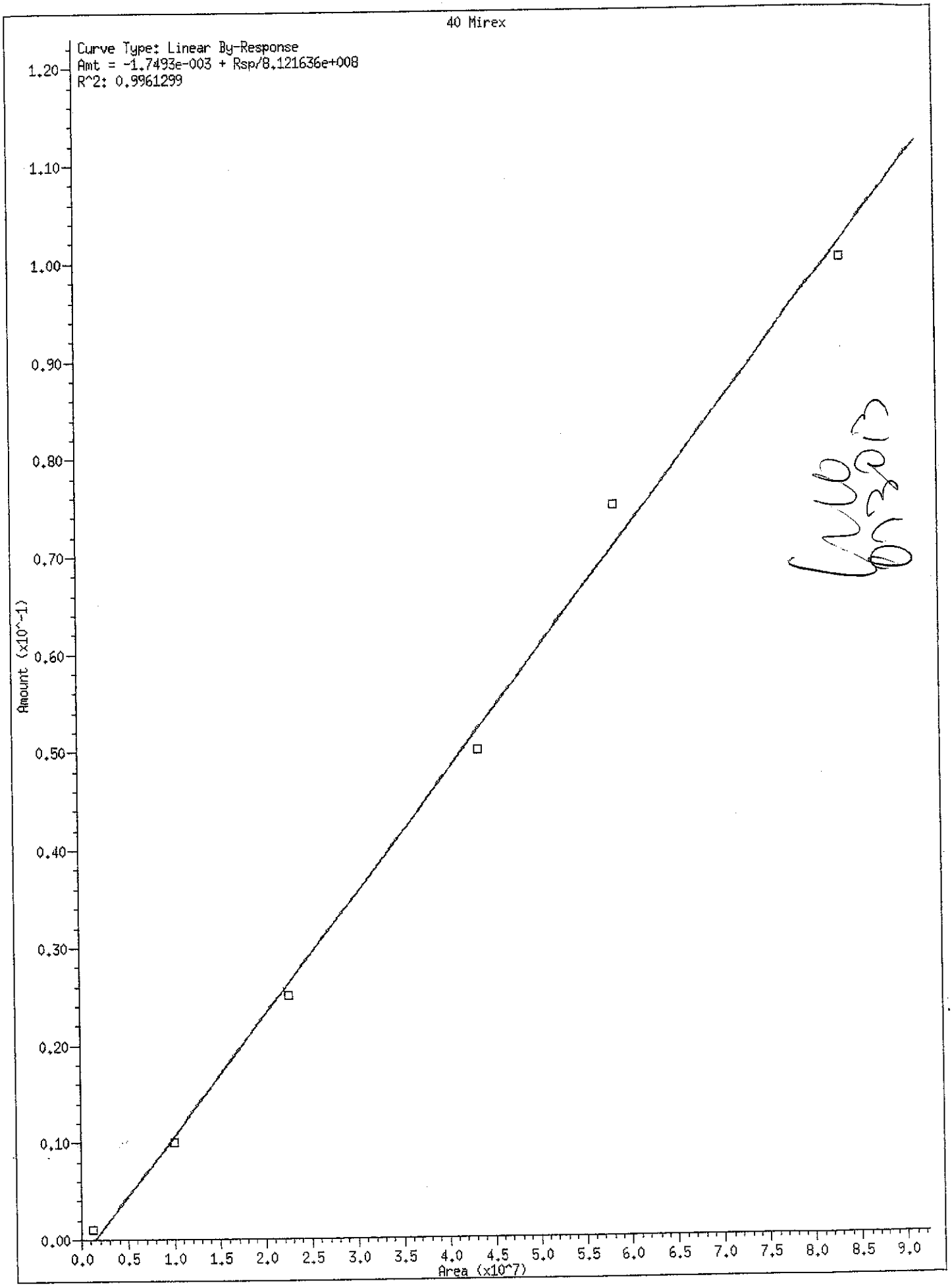
Pace Analytical Services, Inc

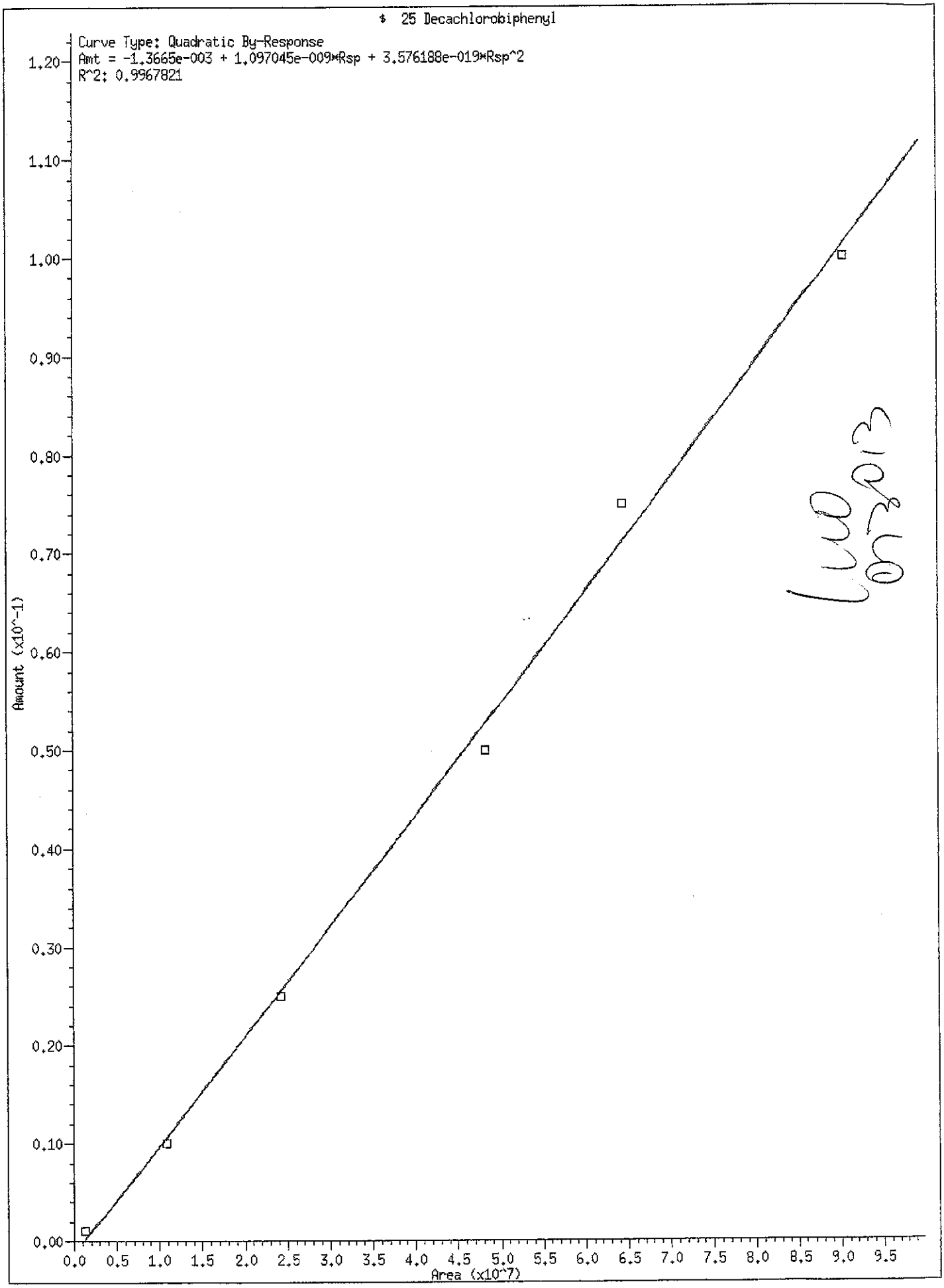
INITIAL CALIBRATION DATA

Start Cal Date : 30-JUL-2013 15:23
End Cal Date : 30-JUL-2013 16:57
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m
Last Edit : 30-Jul-2013 21:43 lgonzalez

Average %RSD Results.
Calculated Average %RSD = 9.57774
Maximun Average %RSD = 15.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response


40 Mirex
Curve Type: Linear By-Response
Amt = -1.7493e-003 + Rsp/8.121636e+008
R^2: 0.9961299
Amount (x10^-1)
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0
Area (x10^7)


$ 25 Decachlorobiphenyl
Curve Type: Quadratic By-Response
Amt = -1.3665e-003 + 1.097045e-009*Rsp + 3.576188e-019*Rsp^2
R^2: 0.9967821
Amount (x10^-1)
Area (x10^7)
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5

Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730011.D
Report Date: 30-Jul-2013 21:48

Pace Analytical Services, Inc

Column #1 : //35Wintarget/chem/35gcsj.i/130730.b/0730011.D
Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730011.D\0730011.D
Inj Date : 30-JUL-2013 17:16
Sample Info: PEST ICV .075
Misc Info : 8081.
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m
Sub List #1 : PestMiICV.sub.sub
Sub List #2 : PestMiICV.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
Alpha-BHC	3.920	4.574	61934823	122505382	0.07698	0.07547	0.07698	0.07547	Col 2	1.98
Gamma-BHC	4.251	5.026	53743318	111687163	0.07640	0.07537	0.0764	0.07537	Col 2	1.35
Beta-BHC	4.336	5.113	21484997	46721438	0.07420	0.06845	0.0742	0.06845	Col 2	8.06
Delta-BHC	4.539	5.523	51032351	111177789	0.07626	0.07625	0.07626	0.07625	Col 2	0.01
Heptachlor	4.790	5.628	42269497	100345328	0.07450	0.07459	0.0745	0.07459	Col 2	0.12
Aldrin	5.155	6.099	61333694	109006151	0.07659	0.07254	0.07659	0.07254	Col 2	5.43
Heptachlor Epoxide	5.930	6.942	50342144	99624286	0.07382	0.07114	0.07382	0.07114	Col 2	3.69
Gamma-chlordane	6.097	7.232	53222721	99534724	0.07552	0.07171	0.07552	0.07171	Col 2	5.17
Alpha-chlordane	6.280	7.477	52063439	95437883	0.07448	0.07090	0.07448	0.0709	Col 2	4.92

4,4'-DDE	6.376	7.738	47014866	94905017	0.07004	0.07437	0.07004	0.07437	Col 2	5.99
Endosulfan I	6.476	7.591	44451645	87834167	0.07288	0.07147	0.07288	0.07147	Col 2	1.95
Dieldrin	6.816	8.096	44284123	96122872	0.07341	0.07228	0.07341	0.07228	Col 2	1.55
Endrin	7.161	8.711	39049213	89290335	0.07257	0.07263	0.07257	0.07263	Col 2	0.08
4,4'-DDD	7.253	8.887	30253568	75667224	0.06924	0.07334	0.06924	0.07334	Col 2	5.75
Endosulfan II	7.515	9.146	42106937	87062110	0.07480	0.07171	0.0748	0.07171	Col 2	4.21
4,4'-DDT	7.721	9.581	31724771	69695913	0.07773	0.07906	0.07773	0.07906	Col 2	1.69
Endrin aldehyde	8.261	9.900	30321335	67234263	0.07069	0.07026	0.07069	0.07026	Col 2	0.61
Methoxychlor	8.645	11.281	14572481	38443148	0.07106	0.07674	0.07106	0.07674	Col 2	7.68
Endosulfan sulfate	9.128	10.550	35667538	76765784	0.07471	0.07395	0.07471	0.07395	Col 2	1.02
Endrin ketone	9.718	11.936	39921752	84908633	0.07808	0.07592	0.07808	0.07592	Col 2	2.80
Mirex	8.904	11.814	34680512	66760066	0.07482	0.08045	0.07482	0.08045	Col 2	7.25

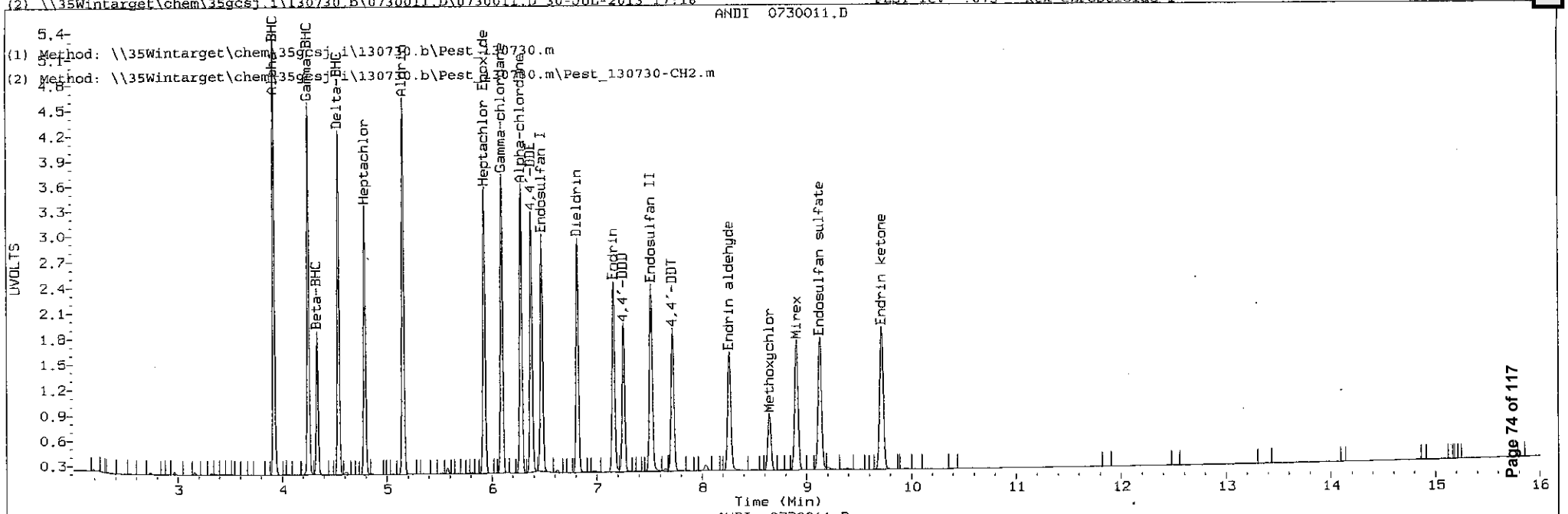
QC Flag Legend

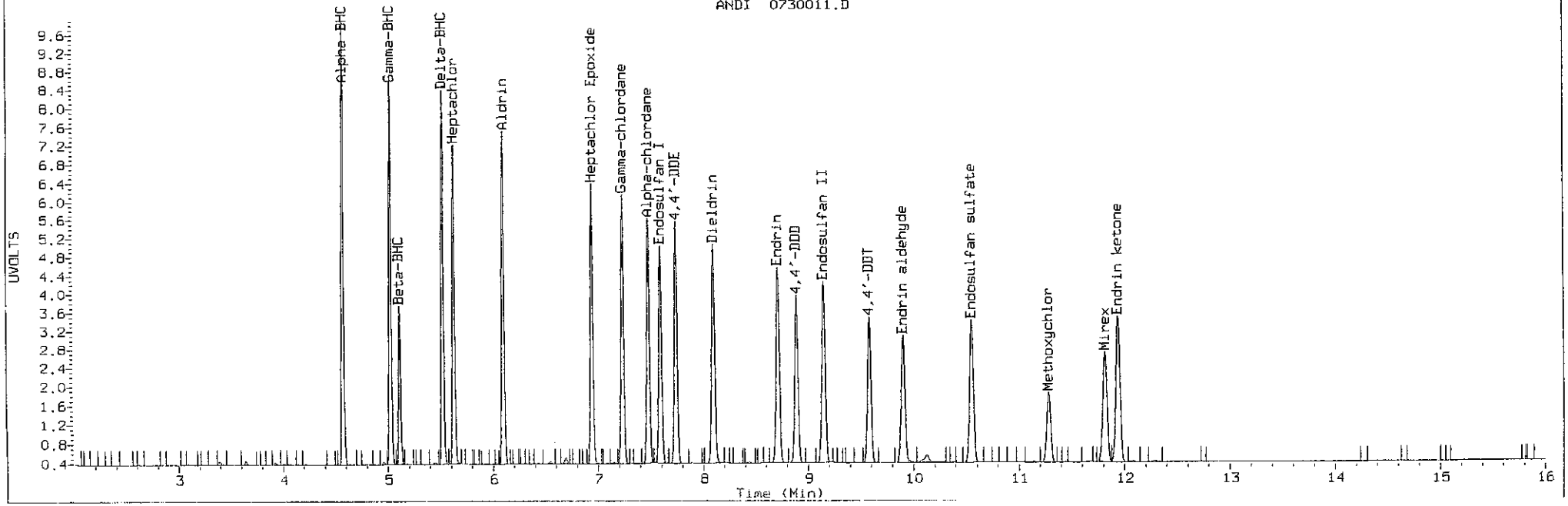
B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Data File	Injection Date	Client ID	Lab ID	Column Phase
(1) //35Wintarget/chem/35gcsj.i/130730.b/0730011.D	30-JUL-2013 17:16		PEST ICV .075	Rtx-CLPesticide 1
(2) \\35Wintarget\chem\35gcsj.i\130730.b\0730011.D\0730011.D 30-JUL-2013 17:16			PEST ICV .075	Rtx-CLPesticide 1





Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 30-JUL-2013 17:16
Lab File ID: 0730011.D Init. Cal. Date(s): 30-JUL-2013 30-JUL-2013
Analysis Type: Init. Cal. Times: 15:23 16:57
Lab Sample ID: PEST ICV .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m

COMPOUND	RRF / AMOUNT	RF0.075	CCAL RRF0.075	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Alpha-BHC	804537333	825797640	825797640	0.010	2.64255	15.00000	Averaged
3 Gamma-BHC	703419065	716577573	716577573	0.010	1.87065	15.00000	Averaged
5 Beta-BHC	0.07500	0.07420	286466627	0.010	-1.06128	15.00000	Quadratic
6 Delta-BHC	669172470	680431347	680431347	0.010	1.68251	15.00000	Averaged
7 Heptachlor	567326562	563593293	563593293	0.010	-0.65805	15.00000	Averaged
8 Aldrin	800716642	817782587	817782587	0.010	2.13133	15.00000	Averaged
10 Heptachlor Epoxide	681902801	671228587	671228587	0.010	-1.56536	15.00000	Averaged
11 Gamma-chlordane	704668132	709636280	709636280	0.010	0.70503	15.00000	Averaged
12 Alpha-chlordane	698973512	694179187	694179187	0.010	-0.68591	15.00000	Averaged
13 4,4'-DDE	671175037	626864880	626864880	0.010	-6.60188	15.00000	Averaged
14 Endosulfan I	609877463	592688600	592688600	0.010	-2.81841	15.00000	Averaged
15 Dieldrin	603185847	590454973	590454973	0.010	-2.11061	15.00000	Averaged
16 Endrin	538080515	520656173	520656173	0.010	-3.23824	15.00000	Averaged
17 4,4'-DDD	436891171	403380907	403380907	0.010	-7.67016	15.00000	Averaged
19 Endosulfan II	562861526	561425827	561425827	0.010	-0.25507	15.00000	Averaged
20 4,4'-DDT	408116742	422996947	422996947	0.010	3.64607	15.00000	Averaged
21 Endrin aldehyde	428915182	404284467	404284467	0.010	-5.74256	15.00000	Averaged
22 Methoxychlor	205053699	194299747	194299747	0.010	-5.24446	15.00000	Averaged
51 Mirex	463516122	462406827	462406827	0.010	-0.23932	15.00000	Averaged
23 Endosulfan sulfate	477381947	475567173	475567173	0.010	-0.38015	15.00000	Averaged
24 Endrin ketone	0.07500	0.07809	532290027	0.010	4.11349	15.00000	Quadratic

Average %D / Drift Results.

Calculated Average %D/Drift = 2.62205
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 30-JUL-2013 17:16
Lab File ID: 0730011.D Init. Cal. Date(s): 30-JUL-2013 30-JUL-2013
Analysis Type: Init. Cal. Times: 15:23 16:57
Lab Sample ID: PEST ICV .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m

COMPOUND	RRF / AMOUNT	RF0.075	CCAL RRF0.075	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Alpha-BHC	1.623e+09	1.633e+09	1.633e+09	0.010	0.63458	15.00000	Averaged
4 Gamma-BHC	1.482e+09	1.489e+09	1.489e+09	0.010	0.49373	15.00000	Averaged
5 Beta-BHC	682537213	622952507	622952507	0.010	-8.72988	15.00000	Averaged
6 Delta-BHC	1.458e+09	1.482e+09	1.482e+09	0.010	1.67711	15.00000	Averaged
7 Heptachlor	1.345e+09	1.338e+09	1.338e+09	0.010	-0.54327	15.00000	Averaged
8 Aldrin	1.503e+09	1.453e+09	1.453e+09	0.010	-3.27541	15.00000	Averaged
10 Heptachlor Epoxide	1.400e+09	1.328e+09	1.328e+09	0.010	-5.14482	15.00000	Averaged
12 Gamma-chlordane	1.388e+09	1.327e+09	1.327e+09	0.010	-4.38284	15.00000	Averaged
13 Alpha-chlordane	1.346e+09	1.273e+09	1.273e+09	0.010	-5.46540	15.00000	Averaged
14 Endosulfan I	1.229e+09	1.171e+09	1.171e+09	0.010	-4.70148	15.00000	Averaged
15 4,4'-DDE	1.276e+09	1.265e+09	1.265e+09	0.010	-0.82916	15.00000	Averaged
16 Dieldrin	1.330e+09	1.282e+09	1.282e+09	0.010	-3.62528	15.00000	Averaged
17 Endrin	1.229e+09	1.191e+09	1.191e+09	0.010	-3.14966	15.00000	Averaged
18 4,4'-DDD	1.032e+09	1.009e+09	1.009e+09	0.010	-2.20396	15.00000	Averaged
19 Endosulfan II	1.214e+09	1.161e+09	1.161e+09	0.010	-4.38212	15.00000	Averaged
20 4,4'-DDT	881456846	929278840	929278840	0.010	5.42534	15.00000	Averaged
21 Endrin aldehyde	956902462	896456840	896456840	0.010	-6.31680	15.00000	Averaged
22 Endosulfan sulfate	1.038e+09	1.024e+09	1.024e+09	0.010	-1.38885	15.00000	Averaged
23 Methoxychlor	500910287	512575307	512575307	0.010	2.32876	15.00000	Averaged
40 Mirex	0.07500	0.08045	890134213	0.010	7.26796	0.000e+000	Linear<-
24 Endrin ketone	1.118e+09	1.132e+09	1.132e+09	0.010	1.23053	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.48557
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

SW-846 8081A and 8082 Semivolatile Data Checklist

			Analytical Method
Instrument ID:	35GCSJ	07/30/13	SW-846 8081A/8082
Run Set Up by:	JLG	JLG	**Matrix: Liquid** (608)

nstrument Setup/Run Parameters a

Prep Batch/HBN #	13644	136487	
Analytical Batch/HBN #	9124	136633	

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.		

x 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_130730.m Date Created: 07/30/13

x YES ☐ NO **Initial Calibration Verification (ICV)** - Was the ICV performed after the calibration? Percent Drift ±15%.

Exceptions/Comments:

x YES ☐ NO **Continuing Calibration Verification (CCV/CCAL)** - Was CCV ran every 12 hours or every 10 samples during run? True Value ±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.

Exceptions/Comments:

x YES ☐ NO **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:

Comments:

x YES □ NO **Performance Check** - Was the check performed at the beginning of a run and within QC limits?

Comments:

x 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, reprepped or qualified accordingly?

Comments:

x YES □ NO **Laboratory Control Sample (LCS)** - Percent recovery of each compound in the LCS within in-house control limits? If not, were samples reanalyzed, reprepped or qualified accordingly?

Comments:

x 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 x 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: 683279, 35101895001, 35102054003: Re-extraction or re-analysis could not be performed due to insufficient sample amount.. Surrogate recovery outside control limits (not confirmed by re-analysis).

□ YES x NO Manual Integrations preformed?

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
NC: not confirmed	

Additional comments: **Chlordane, Toxaphne, 1232, 1242, 1248 & 2154 Aroclors CCVs for pattern recognition only.**

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

ANALYST: JLG _____ **DATE:** 073113 **REVIEWER:** _____ **DATE:** 07311)

Calibrations	Parameter	Frequency	Criteria	Comments/Corrective Action
Calibration Curve Fit	Average Response Factor		%RSD ≤ 30%	If not met, try linear regression fit
	Linear Regression		r ≥ 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 before the analysis of any QC or samples every 10 samples.	4,4'-DDT and Endrin Breakdown >15%	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 every 12 hours during run.	Target analytes should be 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 ±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 ± 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 ± 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 Reprepare 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 Reprepare 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.

Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730020.D Page: 1
Report Date: 31-Jul-2013 11:11

Pace Analytical Services, Inc

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Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730020.D\0730020.D
Inj Date : 30-JUL-2013 18:32
Sample Info: 683276,9124
Misc Info : 9124
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	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	8.261	9.903	68431	132604	0.00015	0.00013	0.00015	0.00013	Col 2	14.2
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

JLG 073113

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	3.373	3.861	22219334	42584925	0.04298	0.03975	0.04298	0.03975	Col 2	7.80
Decachlorobiphenyl	12.258	15.521	27061870	46373124	0.04500	0.05027	0.045	0.05027	Col 2	11.0

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Target Dual Column/Detector/Channel Sample Report Page 2 07/31/2013 11:11

	Data File	Injection Date	Client ID	Lab ID	Column Phase
(1)	//35Wintarget/chem/35gcsj.i/130730.b/0730020.D	30-JUL-2013 18:32		683276	Rtx-CLPesticide 1
(2)	\\35Wintarget\chem\35gcsj.i\130730.b\0730020.D\0730020.D	30-JUL-2013 18:32		683276	Rtx-CLPesticide 1

(1) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
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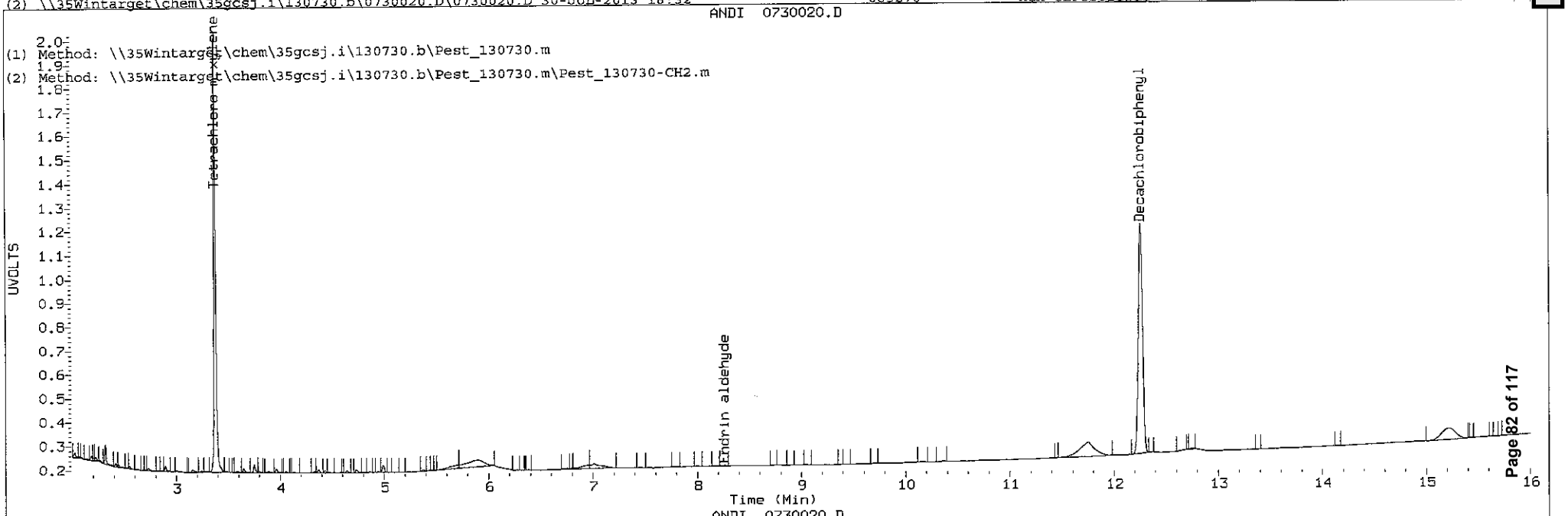

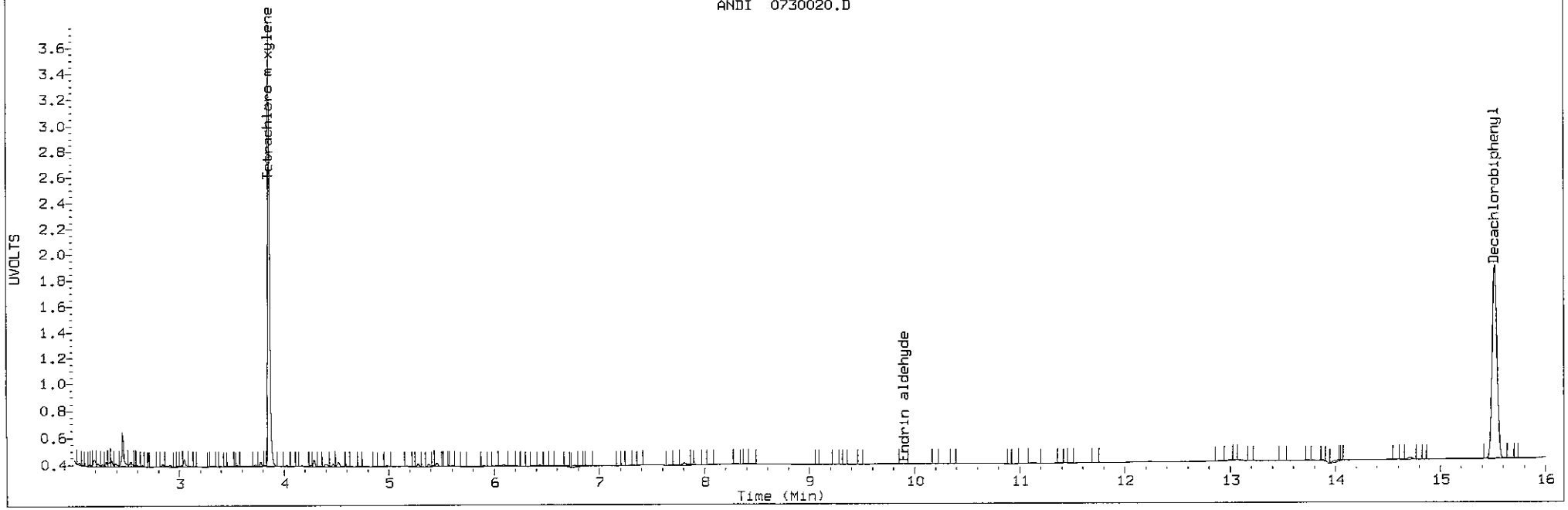

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Report Date: 31-Jul-2013 11:01

Pace Analytical Services, Inc

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Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730021.D\0730021.D
Inj Date : 30-JUL-2013 18:50
Sample Info: 683277,9124
Misc Info : 9124
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.376	7.739	26357999	53911435	0.03927	0.04225	0.03927	0.04225	Col 2	7.31
Endosulfan sulfate	9.127	10.550	21851625	46437782	0.04577	0.04473	0.04577	0.04473	Col 2	2.29
Methoxychlor	8.645	11.281	10216063	25862111	0.04982	0.05163	0.04982	0.05163	Col 2	3.56
Endrin aldehyde	8.261	9.898	17520962	38775208	0.04084	0.04052	0.04084	0.04052	Col 2	0.78
Beta-BHC	4.335	5.114	12801881	25116288	0.04543	0.03679	0.04543	0.03679	Col 2	21.0
Delta-BHC	4.539	5.523	28296371	61928193	0.04228	0.04247	0.04228	0.04247	Col 2	0.44
Heptachlor	4.790	5.628	23626556	54725816	0.04164	0.04068	0.04164	0.04068	Col 2	2.33
Aldrin	5.155	6.099	27435366	50138278	0.03426	0.03336	0.03426	0.03336	Col 2	2.66
Heptachlor Epoxide	5.930	6.942	28916521	57567507	0.04240	0.04110	0.0424	0.0411	Col 2	3.11

Gamma-chlordane	6.097	7.233	29351623	55933978	0.04165	0.04029	0.04165	0.04029	Col 2	3.31
Alpha-chlordane	6.280	7.477	29012786	54435961	0.04150	0.04044	0.0415	0.04044	Col 2	2.58
Endrin ketone	9.719	11.937	25856708	53170420	0.05319	0.04754	0.05319	0.04754	Col 2	11.2
Endosulfan I	6.475	7.592	25592566	50943654	0.04196	0.04145	0.04196	0.04145	Col 2	1.22
Dieldrin	6.816	8.096	26584848	56724597	0.04407	0.04265	0.04407	0.04265	Col 2	3.27
Endrin	7.160	8.711	24563606	54007879	0.04565	0.04393	0.04565	0.04393	Col 2	3.84
4,4'-DDD	7.254	8.887	18498608	47311980	0.04234	0.04586	0.04234	0.04586	Col 2	7.98
Endosulfan II	7.515	9.146	25542906	52683788	0.04538	0.04339	0.04538	0.04339	Col 2	4.48
4,4'-DDT	7.720	9.580	20690874	44847054	0.05069	0.05087	0.05069	0.05087	Col 2	0.35
Alpha-BHC	3.919	4.573	32300656	55344192	0.04014	0.03409	0.04014	0.03409	Col 2	16.3
Gamma-BHC	4.250	5.026	29356155	60578185	0.04173	0.04088	0.04173	0.04088	Col 2	2.05
Mirex	8.904	11.813	20331039	39662900	0.04386	0.04708	0.04386	0.04708	Col 2	7.08
Tetrachloro-m-xylene	3.374	3.862	19389963	33987233	0.03759	0.03173	0.03759	0.03173	Col 2	16.9
Decachlorobiphenyl	12.257	15.520	26800022	44365787	0.04456	0.04800	0.04456	0.048	Col 2	7.43

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Target Dual Column/Detector/Channel Sample Report Page 2 07/31/2013 11:01

	Data File	Injection Date	Client ID	Lab ID	Column Phase
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(2)	\\35Wintarget\chem\35gcsj.i\130730.b\0730021.D\0730021.D 30-JUL-2013 18:50			683277	Rtx-CLPesticide 1

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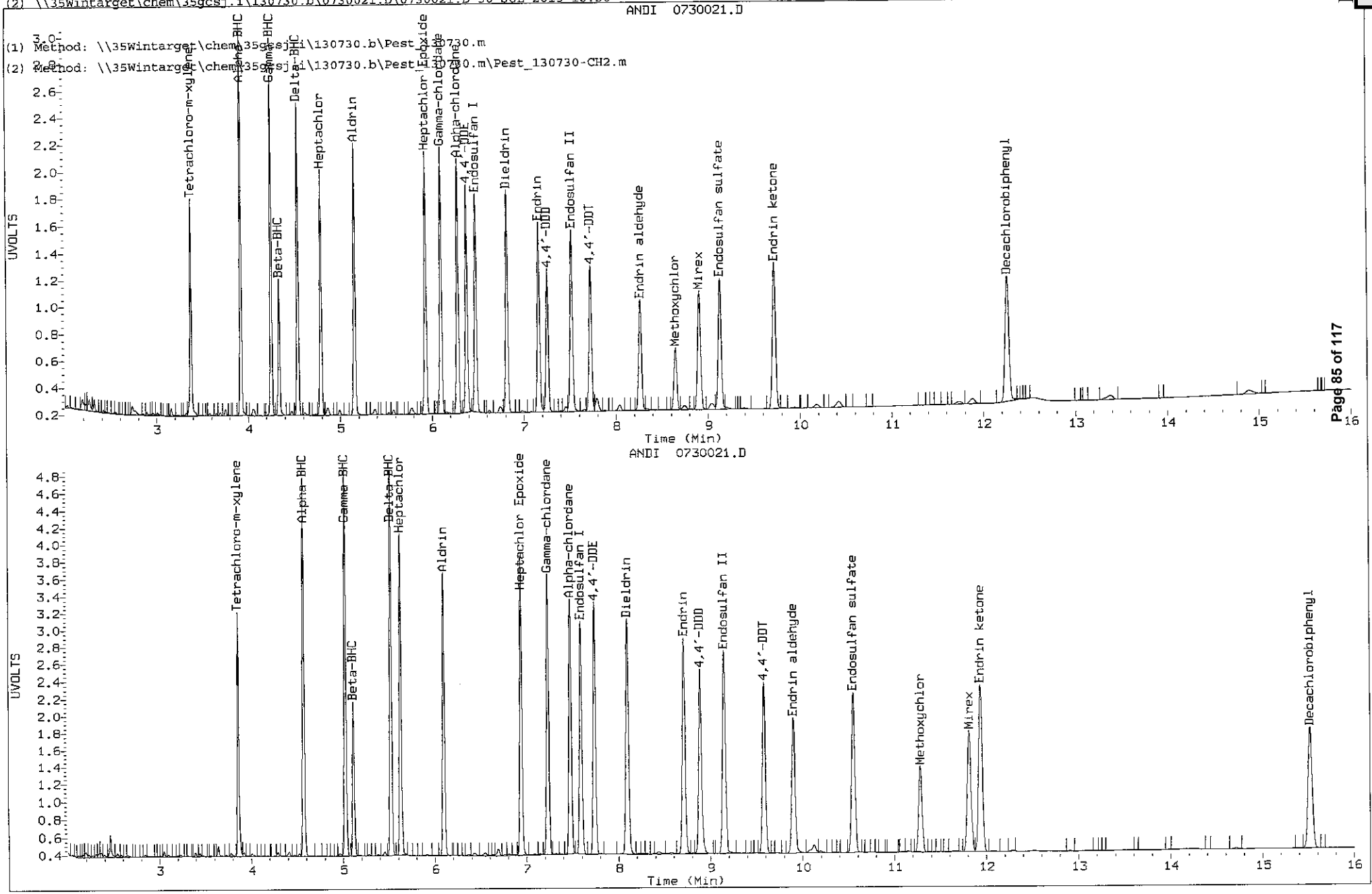
(2) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m



Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730029.D Page: 1
Report Date: 31-Jul-2013 11:27

Pace Analytical Services, Inc

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Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730029.D\0730029.D
Inj Date : 30-JUL-2013 22:11
Sample Info: 35102046001,9124
Misc Info : 9124
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	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	4.325	5.102	1381192	679524	0.00322	0.00099	0.00322	0.00099	Col 2	105.
Delta-BHC	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Heptachlor	4.790	5.619	601782	628409	0.00106	0.00046	0.00106	0.00046	Col 2	78.9
Aldrin	5.168	6.102	2809638	2996249	0.00350	0.00199	0.0035	0.00199	Col 2	55.0
Heptachlor Epoxide	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A

LLO 8/13/13

Gamma-chlordane	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Alpha-chlordane	6.272	7.478	547618	2938886	0.00078	0.00218	0.00078	0.00218	Col 2	94.5
Endrin ketone	0.000	0.000	0	0	ND	ND	ND	ND	Col 2	N/A
Endosulfan I	6.475	7.600	383410	1073769	0.00062	0.00087	0.00062	0.00087	Col 2	33.5
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	3.373	3.861	28771913	42794747	0.05512	0.03995	0.05512	0.03995	Col 2	31.9
Decachlorobiphenyl	12.260	15.522	21689307	36178323	0.03606	0.03879	0.03606	0.03879	Col 2	7.29

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Target Dual Column/Detector/Channel Sample Report Page 2 07/31/2013 11:27

	Data File	Injection Date	Client ID	Lab ID	Column Phase
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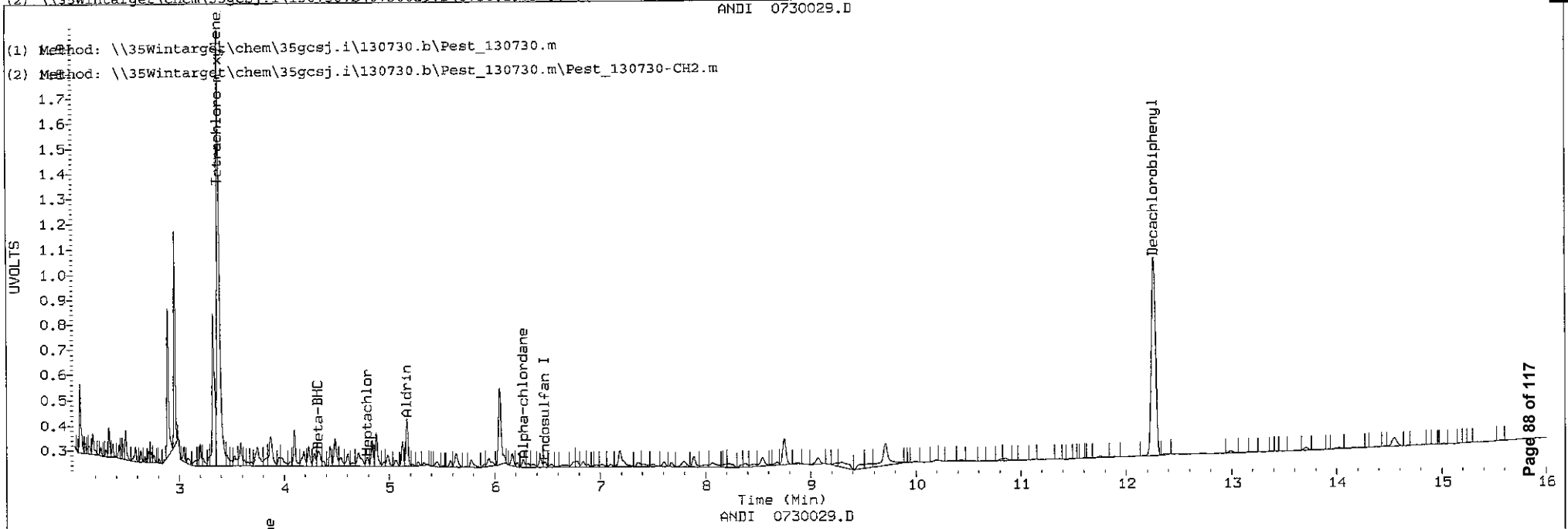
(2)	\\35Wintarget\chem\35gcsj.i\130730.b\0730029.D\0730029.D 30-JUL-2013 22:11			35102046001	Rtx-CLPesticide 1

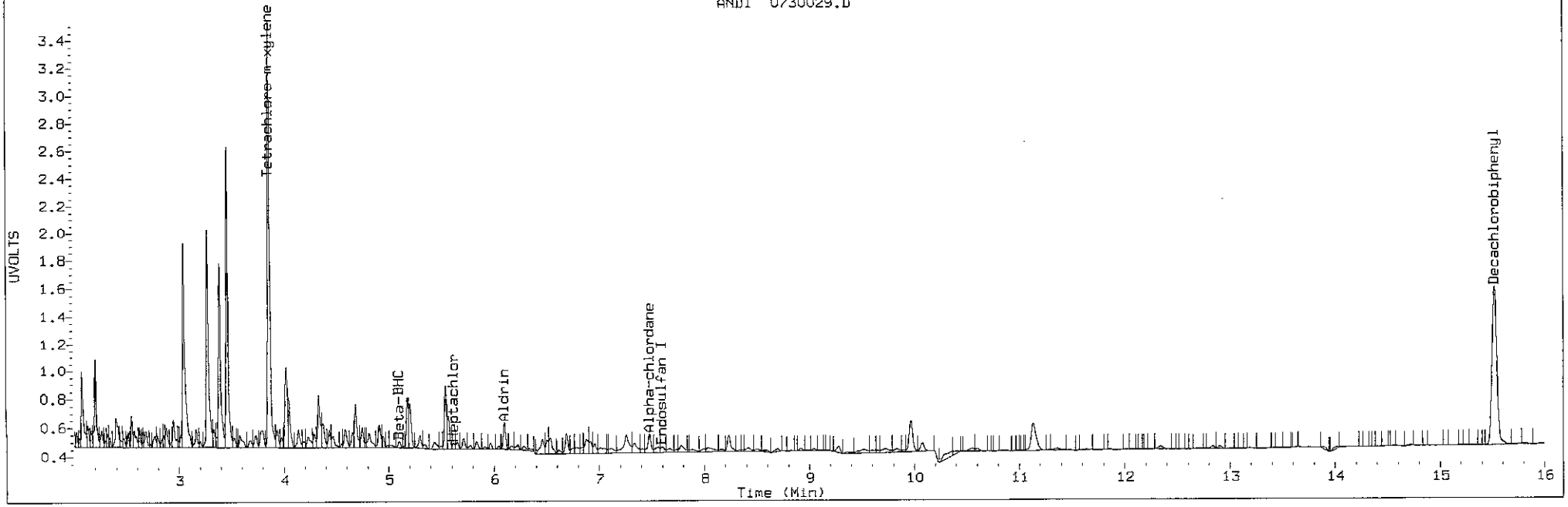
ANDI 0730029.D

(1) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m

(2) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m



ANDI 0730029.D



Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730035.D
Report Date: 31-Jul-2013 11:04

Pace Analytical Services, Inc

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Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730035.D\0730035.D
Inj Date : 31-JUL-2013 00:04
Sample Info: 683278,9124
Misc Info : 9124
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.378	7.740	32213636	59886845	0.04799	0.04693	0.04799	0.04693	Col 2	2.23
Endosulfan sulfate	9.129	10.552	25762426	48364191	0.05396	0.04659	0.05396	0.04659	Col 2	14.6
Methoxychlor	8.646	11.283	7139121	15204910	0.03481	0.03035	0.03481	0.03035	Col 2	13.6
Endrin aldehyde	8.263	9.899	20439088	44306357	0.04765	0.04630	0.04765	0.0463	Col 2	2.87
Beta-BHC	4.337	5.114	15678633	30923236	0.05528	0.04530	0.05528	0.0453	Col 2	19.8
Delta-BHC	4.540	5.524	36888423	76454601	0.05512	0.05244	0.05512	0.05244	Col 2	4.98
Heptachlor	4.790	5.629	17352373	36061155	0.03058	0.02680	0.03058	0.0268	Col 2	13.1
Aldrin	5.156	6.099	36773021	60454773	0.04592	0.04023	0.04592	0.04023	Col 2	13.2
Heptachlor Epoxide	5.930	6.943	36038056	65591917	0.05284	0.04683	0.05284	0.04683	Col 2	12.0

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Gamma-chlordane	6.098	7.234	34729013	63317668	0.04928	0.04561	0.04928	0.04561	Col 2	7.73
Alpha-chlordane	6.280	7.477	33581930	61626854	0.04804	0.04578	0.04804	0.04578	Col 2	4.81
Endrin ketone	9.719	11.938	29328423	53756598	0.05965	0.04806	0.05965	0.04806	Col 2	21.5
Endosulfan I	6.477	7.592	30511711	57534471	0.05002	0.04681	0.05002	0.04681	Col 2	6.63
Dieldrin	6.818	8.096	32248400	63459774	0.05346	0.04771	0.05346	0.04771	Col 2	11.3
Endrin	7.162	8.711	28951231	57889389	0.05380	0.04709	0.0538	0.04709	Col 2	13.3
4,4'-DDD	7.255	8.889	21880470	48350601	0.05008	0.04686	0.05008	0.04686	Col 2	6.64
Endosulfan II	7.515	9.148	28853723	58539084	0.05126	0.04821	0.05126	0.04821	Col 2	6.13
4,4'-DDT	7.721	9.581	15234770	31017010	0.03732	0.03518	0.03732	0.03518	Col 2	5.90
Alpha-BHC	3.920	4.574	41314429	77782328	0.05135	0.04792	0.05135	0.04792	Col 2	6.91
Gamma-BHC	4.251	5.027	37507732	71837722	0.05332	0.04847	0.05332	0.04847	Col 2	9.52
Mirex	8.904	11.815	22068817	41520262	0.04761	0.04937	0.04761	0.04937	Col 2	3.62
Tetrachloro-m-xylene	3.374	3.863	25884007	45021582	0.04983	0.04203	0.04983	0.04203	Col 2	16.9
Decachlorobiphenyl	12.259	15.522	27202032	44015753	0.04523	0.04761	0.04523	0.04761	Col 2	5.12

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Target Dual Column/Detector/Channel Sample Report Page 2 07/31/2013 11:04

	Data File	Injection Date	Client ID	Lab ID	Column Phase
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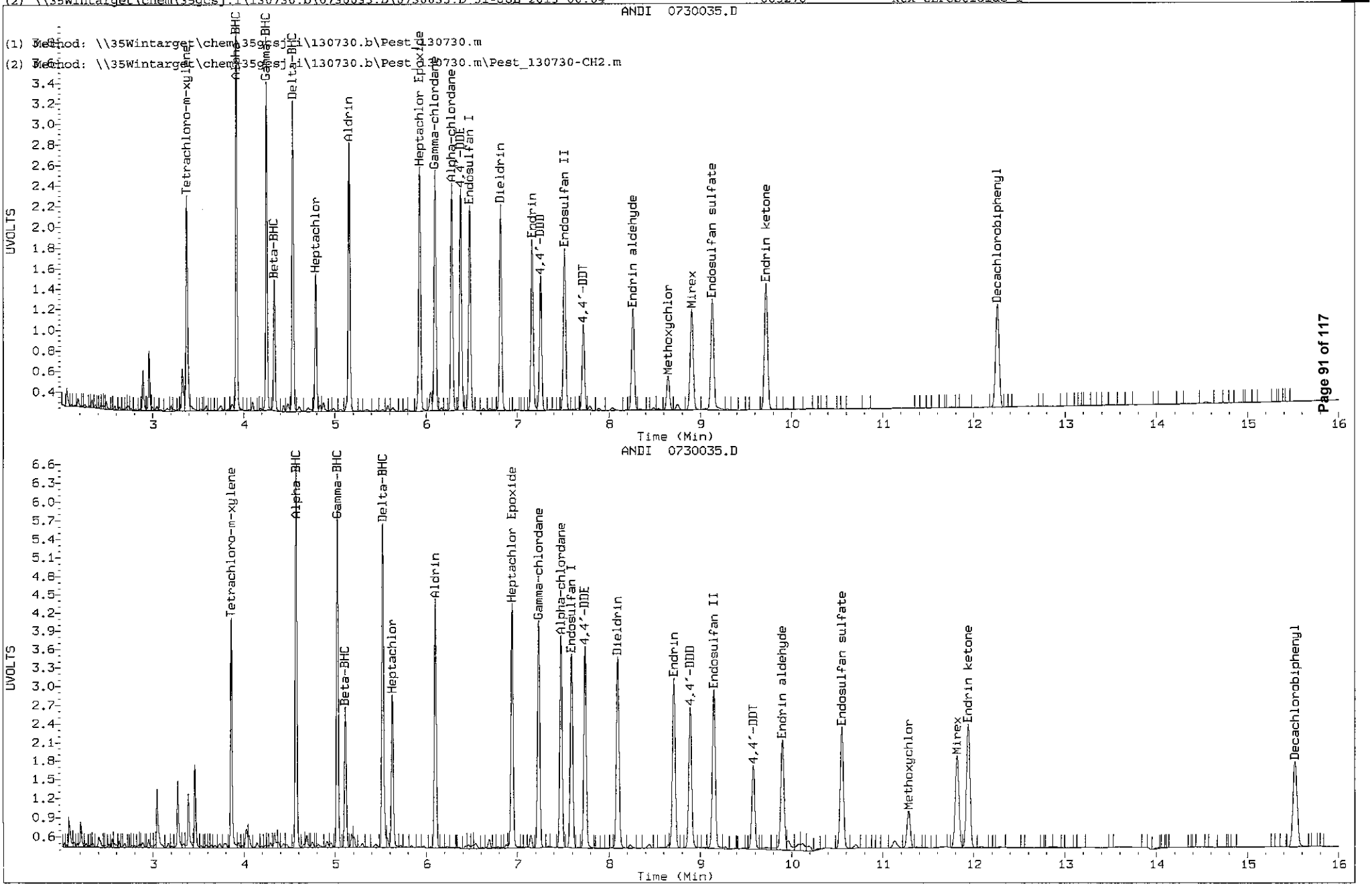

Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730036.D Page: 1
Report Date: 31-Jul-2013 11:04

Pace Analytical Services, Inc

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Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730036.D\0730036.D
Inj Date : 31-JUL-2013 00:23
Sample Info: 683279,9124
Misc Info : 9124
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.377	7.739	22900851	43895161	0.03412	0.03440	0.03412	0.0344	Col 2	0.81
Endosulfan sulfate	9.128	10.551	25209160	47933159	0.05280	0.04618	0.0528	0.04618	Col 2	13.3
Methoxychlor	8.647	11.283	5962270	11999580	0.02907	0.02395	0.02907	0.02395	Col 2	19.3
Endrin aldehyde	8.263	9.899	19787040	41883699	0.04613	0.04377	0.04613	0.04377	Col 2	5.25
Beta-BHC	4.337	5.114	15504298	31103648	0.05469	0.04557	0.05469	0.04557	Col 2	18.1
Delta-BHC	4.540	5.524	36270800	73740541	0.05420	0.05057	0.0542	0.05057	Col 2	6.92
Heptachlor	4.790	5.629	14836245	31050855	0.02615	0.02308	0.02615	0.02308	Col 2	12.4
Aldrin	5.156	6.100	29810071	51258769	0.03722	0.03411	0.03722	0.03411	Col 2	8.72
Heptachlor Epoxide	5.930	6.943	34932442	64298972	0.05122	0.04591	0.05122	0.04591	Col 2	10.9

Gamma-chlordane	6.098	7.233	30799263	57269969	0.04370	0.04126	0.0437	0.04126	Col 2	5.74
Alpha-chlordane	6.280	7.478	30171991	56376857	0.04316	0.04188	0.04316	0.04188	Col 2	3.01
Endrin ketone	9.720	11.938	27378725	51715351	0.05605	0.04624	0.05605	0.04624	Col 2	19.1
Endosulfan I	6.477	7.593	29814620	56765693	0.04888	0.04619	0.04888	0.04619	Col 2	5.65
Dieldrin	6.817	8.096	31266563	62169202	0.05183	0.04674	0.05183	0.04674	Col 2	10.3
Endrin	7.161	8.712	28084515	55986771	0.05219	0.04554	0.05219	0.04554	Col 2	13.6
4,4'-DDD	7.254	8.888	19406521	43332137	0.04441	0.04200	0.04441	0.042	Col 2	5.57
Endosulfan II	7.516	9.148	28210126	57113923	0.05011	0.04704	0.05011	0.04704	Col 2	6.32
4,4'-DDT	7.721	9.581	10214467	20438949	0.02502	0.02318	0.02502	0.02318	Col 2	7.63
Alpha-BHC	3.920	4.574	41378900	79539645	0.05143	0.04900	0.05143	0.049	Col 2	4.83
Gamma-BHC	4.251	5.027	37271243	71700603	0.05298	0.04838	0.05298	0.04838	Col 2	9.07
Mirex	8.904	11.815	12983488	24173735	0.02801	0.02801	0.02801	0.02801	Col 2	0
Tetrachloro-m-xylene	3.374	3.863	25467091	43176971	0.04906	0.04031	0.04906	0.04031	Col 2	19.5
Decachlorobiphenyl	12.258	15.523	12776116	22197109	0.02124	0.02316	0.02124	0.02316	Col 2	8.64

QC Flag Legend

B = Blank interference

J = Below Limit of Quantitation

E = Above Max amount

Target Dual Column/Detector/Channel Sample Report Page 2 07/31/2013 11:04

	Data File	Injection Date	Client ID	Lab ID	Column Phase
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(2)	\\35Wintarget\chem\35gcsj.i\130730.b\0730036.D\0730036.D 31-JUL-2013 00:23			683279	Rtx-CLPesticide 1

(1) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
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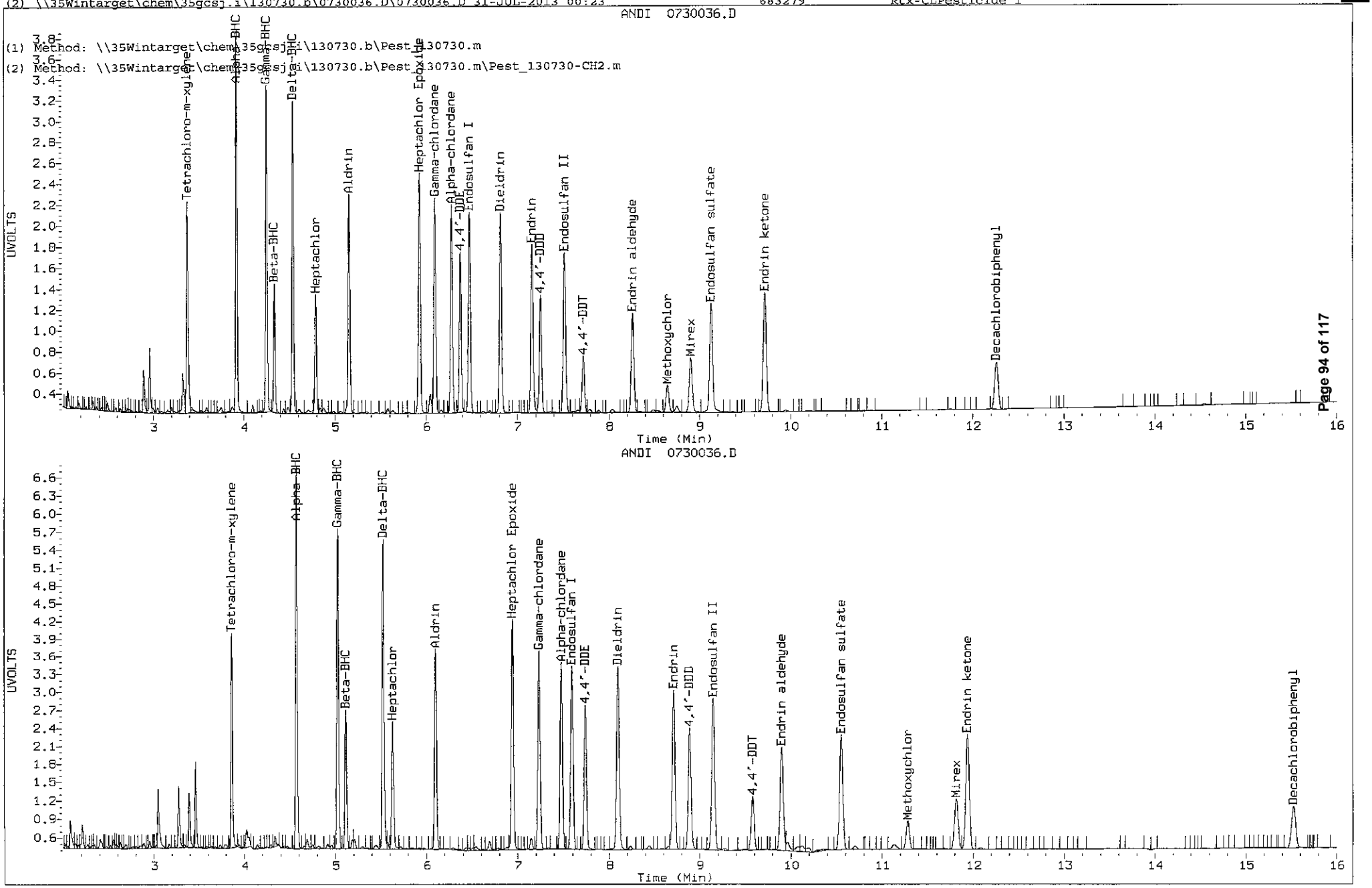

Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730037.D Page: 1
Report Date: 31-Jul-2013 08:22

Pace Analytical Services, Inc

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Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730037.D\0730037.D
Inj Date : 31-JUL-2013 00:42
Sample Info: PEST CCV 5 .075
Misc Info :
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.377	7.741	57567524	105082987	0.08577	0.08235	0.08577	0.08235	Col 2	4.06
Endosulfan sulfate	9.130	10.551	41235352	78472777	0.08637	0.07560	0.08637	0.0756	Col 2	13.2
Methoxychlor	8.646	11.281	6455468	10838767	0.03148	0.02163	0.03148	0.02163	Col 2	37.0
Endrin aldehyde	8.263	9.901	36289937	71670342	0.08460	0.07489	0.0846	0.07489	Col 2	12.1
Beta-BHC	4.336	5.114	26083140	52198897	0.08827	0.07647	0.08827	0.07647	Col 2	14.3
Delta-BHC	4.540	5.524	63387441	123349060	0.09472	0.08460	0.09472	0.0846	Col 2	11.2
Heptachlor	4.790	5.629	26434684	51469223	0.04659	0.03826	0.04659	0.03826	Col 2	19.6
Aldrin	5.156	6.100	71486116	123538694	0.08927	0.08221	0.08927	0.08221	Col 2	8.23
Heptachlor Epoxide	5.930	6.943	64336543	111609406	0.09434	0.07969	0.09434	0.07969	Col 2	16.8

LW 07/31/13

Gamma-chlordane	6.098	7.234	62473546	111583236	0.08865	0.08039	0.08865	0.08039	Col 2	9.77
Alpha-chlordane	6.281	7.478	60437049	107348500	0.08646	0.07974	0.08646	0.07974	Col 2	8.08
Endrin ketone	9.720	11.939	43649997	82620178	0.08411	0.07387	0.08411	0.07387	Col 2	12.9
Endosulfan I	6.476	7.592	53676566	98439274	0.08801	0.08010	0.08801	0.0801	Col 2	9.41
Dieldrin	6.817	8.097	56312572	108714896	0.09335	0.08174	0.09335	0.08174	Col 2	13.2
Endrin	7.161	8.711	46751462	94582384	0.08688	0.07694	0.08688	0.07694	Col 2	12.1
4,4'-DDD	7.256	8.890	34867146	76893203	0.07980	0.07453	0.0798	0.07453	Col 2	6.82
Endosulfan II	7.516	9.148	49176698	94804231	0.08736	0.07809	0.08736	0.07809	Col 2	11.2
4,4'-DDT	7.721	9.581	18608707	33209780	0.04559	0.03767	0.04559	0.03767	Col 2	19.0
Alpha-BHC	3.920	4.574	77283310	138587941	0.09605	0.08538	0.09605	0.08538	Col 2	11.7
Gamma-BHC	4.251	5.026	66689244	125600795	0.09480	0.08475	0.0948	0.08475	Col 2	11.1
Mirex	8.905	11.816	37822551	69252398	0.08159	0.08351	0.08159	0.08351	Col 2	2.32
Tetrachloro-m-xylene	3.374	3.863	45049720	84743511	0.08315	0.07912	0.08315	0.07912	Col 2	4.96
Decachlorobiphenyl	12.261	15.524	45802713	69048328	0.07616	0.07608	0.07616	0.07608	Col 2	0.10

QC Flag Legend

B = Blank interference

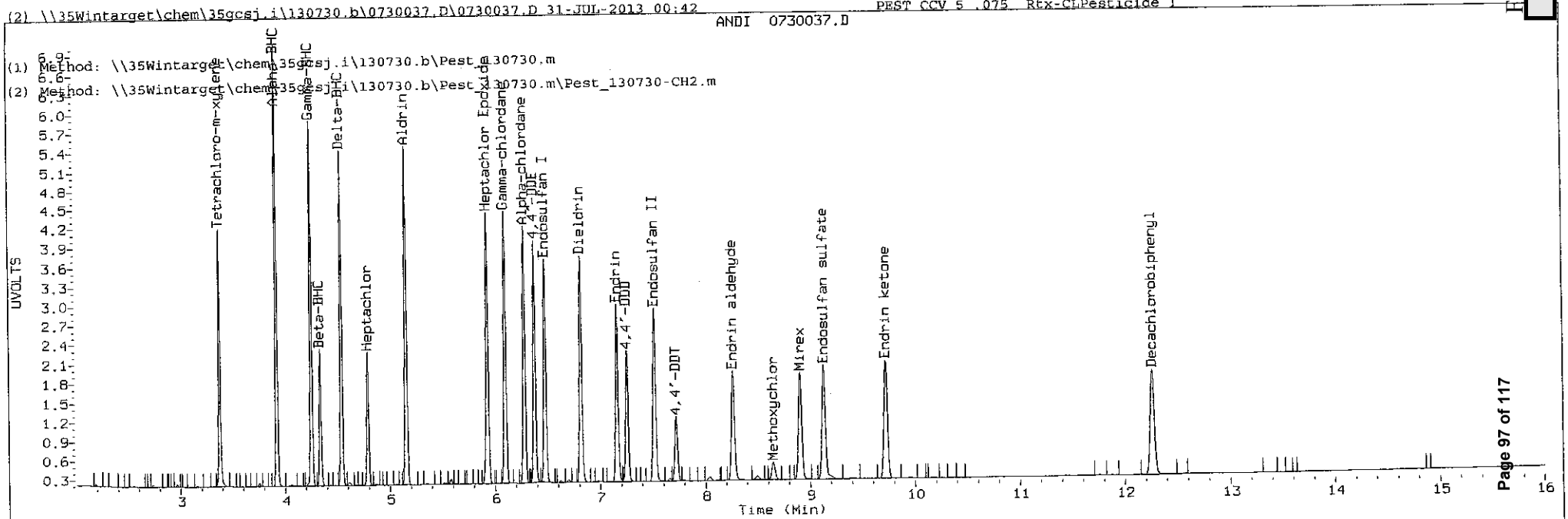
J = Below Limit of Quantitation

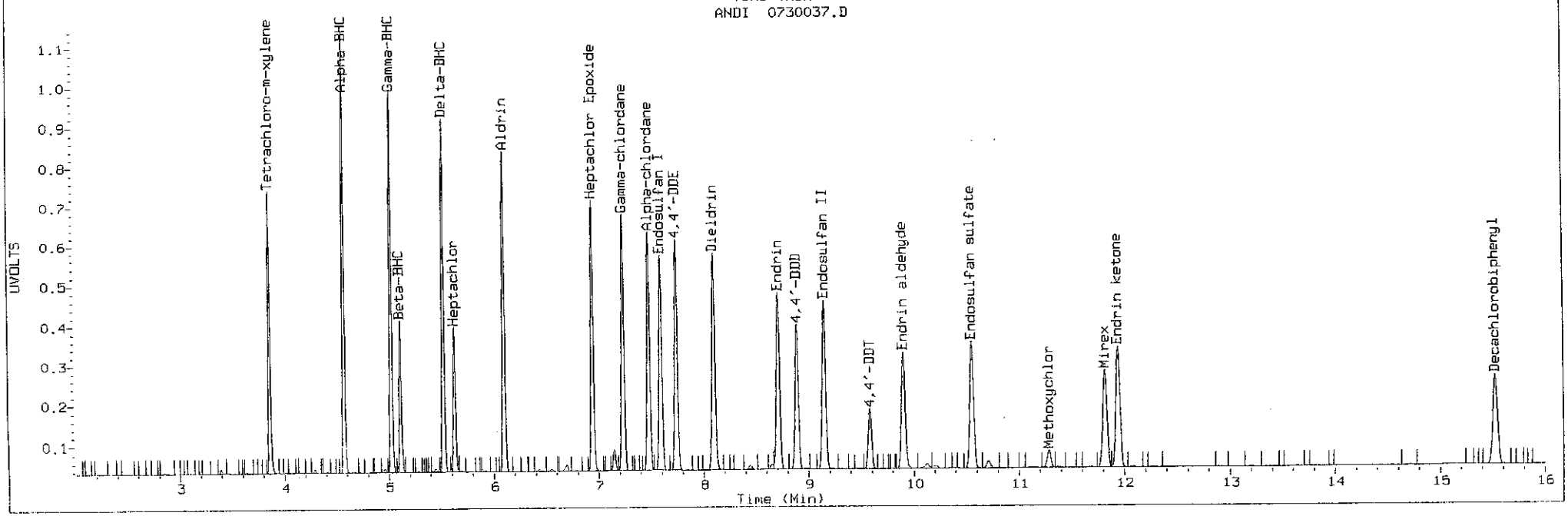
E = Above Max amount

Target Dual Column/Detector/Channel Sample Report Page 2 07/31/2013 08:22

Data File	Injection Date	Client ID	Lab ID	Column Phase
(1) //35Wintarget/chem/35gcsj.i/130730.b/0730037.D	31-JUL-2013 00:42		PEST CCV 5 .075	Rtx-CLPesticide 1
(2) \\35Wintarget\chem\35gcsj.i\130730.b\0730037.D\0730037.D	31-JUL-2013 00:42		PEST CCV 5 .075	Rtx-CLPesticide 1

(1) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
(2) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m





Data File: \\35Wintarget\chem\35gcsj.i\130730.b\0730037.D
Report Date: 31-Jul-2013 08:22

Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i
Lab File ID: 0730037.D
Analysis Type:
Lab Sample ID: PEST CCV 5 .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m

Injection Date: 31-JUL-2013 00:42
Init. Cal. Date(s): 30-JUL-2013 30-JUL-2013
Init. Cal. Times: 15:23 16:57

COMPOUND	RRF / AMOUNT	RF0.075	CCAL RRF0.075	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	0.07500	0.08316	600662933	0.010	10.87477	15.00000	Quadratic	
$ 25 Decachlorobiphenyl	601345092	610702840	610702840	0.010	1.55614	15.00000	Averaged	
2 Alpha-BHC	804537333	1.030e+09	1.030e+09	0.010	28.07909	15.00000	Averaged	<-
3 Gamma-BHC	703419065	889189920	889189920	0.010	26.40970	15.00000	Averaged	<-
5 Beta-BHC	0.07500	0.08828	347775200	0.010	17.70331	15.00000	Quadratic	<-
6 Delta-BHC	669172470	845165880	845165880	0.010	26.30016	15.00000	Averaged	<-
7 Heptachlor	567326562	352462453	352462453	0.010	-37.87309	15.00000	Averaged	<-
8 Aldrin	800716642	953148213	953148213	0.010	19.03689	15.00000	Averaged	<-
10 Heptachlor Epoxide	681902801	857820573	857820573	0.010	25.79807	15.00000	Averaged	<-
11 Gamma-chlordane	704668132	832980613	832980613	0.010	18.20892	15.00000	Averaged	<-
12 Alpha-chlordane	698973512	805827320	805827320	0.010	15.28725	15.00000	Averaged	<-
13 4,4'-DDE	671175037	767566987	767566987	0.010	14.36167	15.00000	Averaged	
14 Endosulfan I	609877463	715687547	715687547	0.010	17.34940	15.00000	Averaged	<-
15 Dieldrin	603185847	750834293	750834293	0.010	24.47810	15.00000	Averaged	<-
16 Endrin	538080515	623352827	623352827	0.010	15.84750	15.00000	Averaged	<-
17 4,4'-DDD	436891171	464895280	464895280	0.010	6.40986	15.00000	Averaged	
19 Endosulfan II	562861526	655689307	655689307	0.010	16.49212	15.00000	Averaged	<-
20 4,4'-DDT	408116742	248116093	248116093	0.010	-39.20463	15.00000	Averaged	<-
21 Endrin aldehyde	428915182	483865827	483865827	0.010	12.81154	15.00000	Averaged	
22 Methoxychlor	205053699	86072907	86072907	0.010	-58.02421	15.00000	Averaged	<-
51 Mirex	463516122	504300680	504300680	0.010	8.79895	15.00000	Averaged	
23 Endosulfan sulfate	477381947	549804693	549804693	0.010	15.17082	15.00000	Averaged	<-
24 Endrin ketone	0.07500	0.08412	581999960	0.010	12.15807	15.00000	Quadratic	

Average %D / Drift Results.

Calculated Average %D/Drift = 20.35801
Maximun Average %D/Drift = 15.00000
* Failed Average %D/Drift Test.

Data File: 0730037.D
Report Date: 31-Jul-2013 08:22

Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i
Lab File ID: 0730037.D
Analysis Type:
Lab Sample ID: PEST CCV 5 .075 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m

Injection Date: 31-JUL-2013 00:42
Init. Cal. Date(s): 30-JUL-2013 30-JUL-2013
Init. Cal. Times: 15:23 16:57

COMPOUND	RRF / AMOUNT	RF0.075	CCAL RRF0.075	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	1.071e+09	1.130e+09	1.130e+09	0.010	5.49584	15.00000	Averaged
$ 25 Decachlorobiphenyl	0.07500	0.07609	920644373	0.010	1.45015	15.00000	Quadratic
2 Alpha-BHC	1.623e+09	1.848e+09	1.848e+09	0.010	13.84593	15.00000	Averaged
4 Gamma-BHC	1.482e+09	1.675e+09	1.675e+09	0.010	13.01292	15.00000	Averaged
5 Beta-BHC	682537213	695985293	695985293	0.010	1.97031	15.00000	Averaged
6 Delta-BHC	1.458e+09	1.645e+09	1.645e+09	0.010	12.80829	15.00000	Averaged
7 Heptachlor	1.345e+09	686256307	686256307	0.010	-48.98656	15.00000	Averaged <-
8 Aldrin	1.503e+09	1.647e+09	1.647e+09	0.010	9.61977	15.00000	Averaged
10 Heptachlor Epoxide	1.400e+09	1.488e+09	1.488e+09	0.010	6.26656	15.00000	Averaged
12 Gamma-chlordane	1.388e+09	1.488e+09	1.488e+09	0.010	7.19146	15.00000	Averaged
13 Alpha-chlordane	1.346e+09	1.431e+09	1.431e+09	0.010	6.33249	15.00000	Averaged
14 Endosulfan I	1.229e+09	1.313e+09	1.313e+09	0.010	6.80487	15.00000	Averaged
15 4,4'-DDE	1.276e+09	1.401e+09	1.401e+09	0.010	9.80629	15.00000	Averaged
16 Dieldrin	1.330e+09	1.450e+09	1.450e+09	0.010	8.99973	15.00000	Averaged
17 Endrin	1.229e+09	1.261e+09	1.261e+09	0.010	2.59045	15.00000	Averaged
18 4,4'-DDD	1.032e+09	1.025e+09	1.025e+09	0.010	-0.61944	15.00000	Averaged
19 Endosulfan II	1.214e+09	1.264e+09	1.264e+09	0.010	4.12084	15.00000	Averaged
20 4,4'-DDT	881456846	442797067	442797067	0.010	-49.76532	15.00000	Averaged <-
21 Endrin aldehyde	956902462	955604560	955604560	0.010	-0.13564	15.00000	Averaged
22 Endosulfan sulfate	1.038e+09	1.046e+09	1.046e+09	0.010	0.80391	15.00000	Averaged
23 Methoxychlor	500910287	144516893	144516893	0.010	-71.14915	15.00000	Averaged <-
40 Mirex	0.07500	0.08352	923365307	0.010	11.35963	0.000e+000	Linear <-
24 Endrin ketone	1.118e+09	1.102e+09	1.102e+09	0.010	-1.49783	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 12.81015
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\35Wintarget\chem\35gcsj.i\130730.b/0730038.D Page: 1
Report Date: 31-Jul-2013 08:22

Pace Analytical Services, Inc

Column #1 : //35Wintarget/chem/35gcsj.i/130730.b/0730038.D
Column #2 : \\35Wintarget\chem\35gcsj.i\130730.b\0730038.D\0730038.D
Inj Date : 31-JUL-2013 01:00
Sample Info: PEST CCV 4 .050
Misc Info :
Comment :
Cal Date : 30-JUL-2013 16:57
Operator : JLG
Inst ID : 35gcsj.i
Dil Factor : 1.000000

Method #1 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
Method #2 : \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-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	6.378	7.740	35613358	67174587	0.05306	0.05264	0.05306	0.05264	Col 2	0.79
Endosulfan sulfate	9.129	10.552	26377004	51687577	0.05525	0.04979	0.05525	0.04979	Col 2	10.3
Methoxychlor	8.647	11.281	3441719	5007477	0.01678	0.00999	0.01678	0.00999	Col 2	50.7
Endrin aldehyde	8.263	9.900	23474884	47752789	0.05473	0.04990	0.05473	0.0499	Col 2	9.23
Beta-BHC	4.338	5.115	16414008	33927411	0.05775	0.04970	0.05775	0.0497	Col 2	14.9
Delta-BHC	4.540	5.524	38538207	77557981	0.05759	0.05319	0.05759	0.05319	Col 2	7.94
Heptachlor	4.791	5.629	13153543	26041812	0.02318	0.01935	0.02318	0.01935	Col 2	18.0
Aldrin	5.156	6.100	43954224	78500474	0.05489	0.05224	0.05489	0.05224	Col 2	4.94
Heptachlor Epoxide	5.931	6.943	40063291	71609658	0.05875	0.05113	0.05875	0.05113	Col 2	13.8

LLL 8/3/13

Gamma-chlordane	6.098	7.233	38483685	71629076	0.05461	0.05160	0.05461	0.0516	Col 2	5.66
Alpha-chlordane	6.282	7.478	37530383	69108060	0.05369	0.05134	0.05369	0.05134	Col 2	4.47
Endrin ketone	9.720	11.939	27555514	53272621	0.05638	0.04763	0.05638	0.04763	Col 2	16.8
Endosulfan I	6.477	7.593	33291135	63272012	0.05458	0.05148	0.05458	0.05148	Col 2	5.84
Dieldrin	6.818	8.097	34906716	69144305	0.05787	0.05199	0.05787	0.05199	Col 2	10.7
Endrin	7.162	8.712	28959163	60031966	0.05381	0.04883	0.05381	0.04883	Col 2	9.70
4,4'-DDD	7.256	8.889	21589141	49308595	0.04941	0.04779	0.04941	0.04779	Col 2	3.33
Endosulfan II	7.517	9.148	30571440	61344711	0.05431	0.05052	0.05431	0.05052	Col 2	7.23
4,4'-DDT	7.721	9.581	9448843	17060516	0.02315	0.01935	0.02315	0.01935	Col 2	17.8
Alpha-BHC	3.920	4.574	46727770	88015271	0.05808	0.05422	0.05808	0.05422	Col 2	6.87
Gamma-BHC	4.252	5.028	40484895	78370453	0.05755	0.05288	0.05755	0.05288	Col 2	8.45
Mirex	8.905	11.815	24677272	46534116	0.05323	0.05554	0.05323	0.05554	Col 2	4.24
Tetrachloro-m-xylene	3.374	3.863	28193809	54553164	0.05407	0.05093	0.05407	0.05093	Col 2	5.98
Decachlorobiphenyl	12.260	15.523	29367321	46537378	0.04883	0.05046	0.04883	0.05046	Col 2	3.28

QC Flag Legend

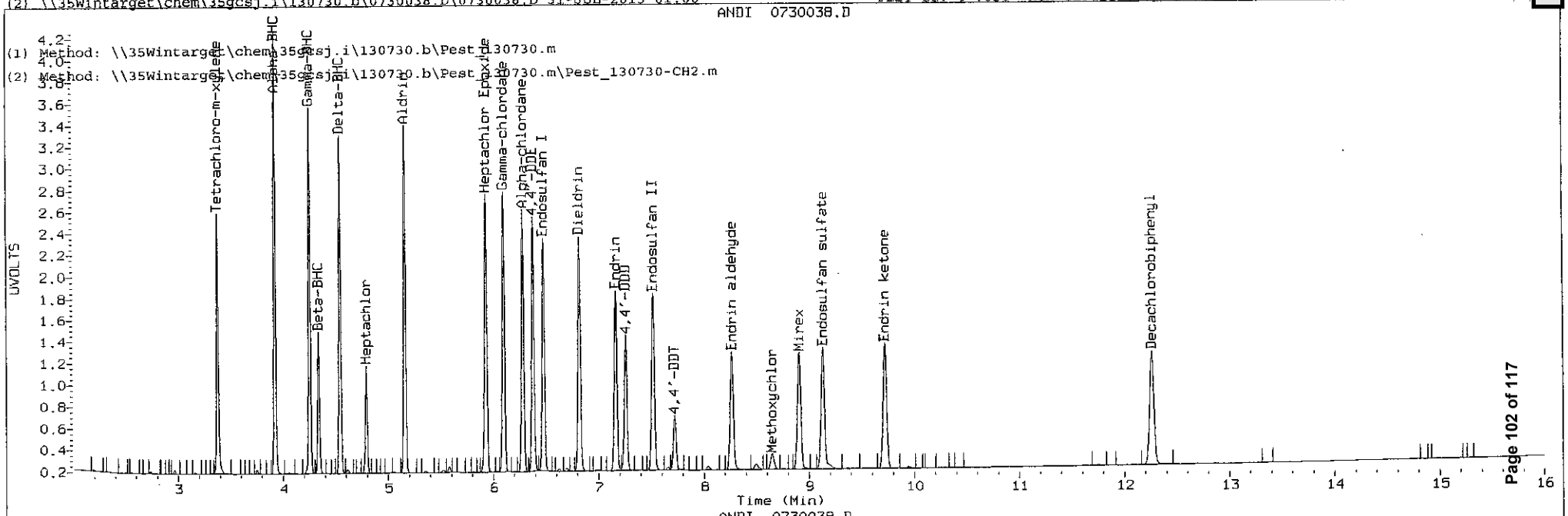
B = Blank interference

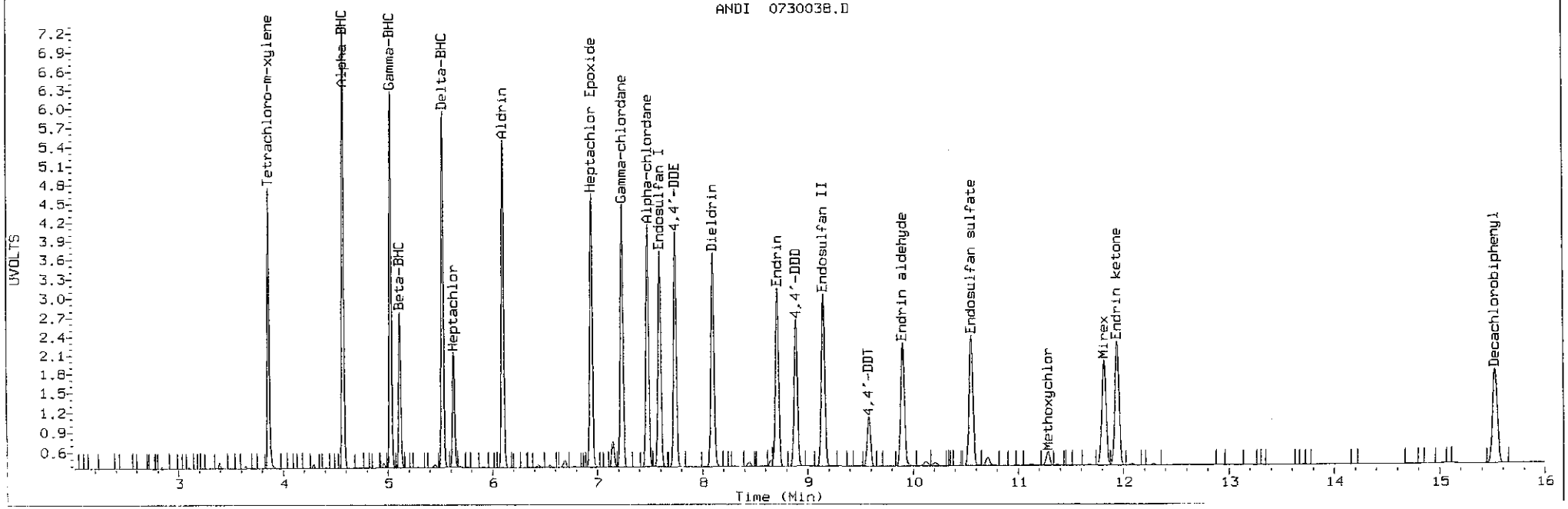
J = Below Limit of Quantitation

E = Above Max amount

	Data File	Injection Date	Client ID	Lab ID	Column Phase
(1)	//35Wintarget/chem/35gcsj.i/130730.b/0730038.D	31-JUL-2013 01:00		PEST CCV 4 .050	Rtx-CLPesticide 1
(2)	\\35Wintarget\chem\35gcsj.i\130730.b\0730038.D\0730038.D	31-JUL-2013 01:00		PEST CCV 4 .050	Rtx-CLPesticide 1

(1) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m
(2) Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m





Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 35gcsj.i Injection Date: 31-JUL-2013 01:00
Lab File ID: 0730038.D Init. Cal. Date(s): 30-JUL-2013 30-JUL-2013
Analysis Type: Init. Cal. Times: 15:23 16:57
Lab Sample ID: PEST CCV 4 .050 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m

COMPOUND	RRF / AMOUNT	RF0.050	CCAL RRF0.050	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	0.05000	0.05407	563876180	0.010	8.14536	15.00000	Quadratic	
$ 25 Decachlorobiphenyl	601345092	587346420	587346420	0.010	-2.32789	15.00000	Averaged	
2 Alpha-BHC	804537333	934555400	934555400	0.010	16.16060	15.00000	Averaged	<-
3 Gamma-BHC	703419065	809697900	809697900	0.010	15.10889	15.00000	Averaged	<-
5 Beta-BHC	0.05000	0.05775	328280160	0.010	15.50047	15.00000	Quadratic	<-
6 Delta-BHC	669172470	770764140	770764140	0.010	15.18169	15.00000	Averaged	<-
7 Heptachlor	567326562	263070860	263070860	0.010	-53.62973	15.00000	Averaged	<-
8 Aldrin	800716642	879084480	879084480	0.010	9.78721	15.00000	Averaged	
10 Heptachlor Epoxide	681902801	801265820	801265820	0.010	17.50440	15.00000	Averaged	<-
11 Gamma-chlordane	704668132	769673700	769673700	0.010	9.22499	15.00000	Averaged	
12 Alpha-chlordane	698973512	750607660	750607660	0.010	7.38714	15.00000	Averaged	
13 4,4'-DDE	671175037	712267160	712267160	0.010	6.12242	15.00000	Averaged	
14 Endosulfan I	609877463	665822700	665822700	0.010	9.17319	15.00000	Averaged	
15 Dieldrin	603185847	698134320	698134320	0.010	15.74116	15.00000	Averaged	<-
16 Endrin	538080515	579183260	579183260	0.010	7.63877	15.00000	Averaged	
17 4,4'-DDD	436891171	431782820	431782820	0.010	-1.16925	15.00000	Averaged	
19 Endosulfan II	562861526	611428800	611428800	0.010	8.62864	15.00000	Averaged	
20 4,4'-DDT	408116742	188976860	188976860	0.010	-53.69539	15.00000	Averaged	<-
21 Endrin aldehyde	428915182	469497680	469497680	0.010	9.46166	15.00000	Averaged	
22 Methoxychlor	205053699	68834380	68834380	0.010	-66.43105	15.00000	Averaged	<-
51 Mirex	463516122	493545440	493545440	0.010	6.47859	15.00000	Averaged	
23 Endosulfan sulfate	477381947	527540080	527540080	0.010	10.50692	15.00000	Averaged	
24 Endrin ketone	0.05000	0.05638	551110280	0.010	12.76081	15.00000	Quadratic	

Average %D / Drift Results.

Calculated Average %D/Drift = 16.42462
Maximun Average %D/Drift = 15.00000
* Failed Average %D/Drift Test.

Pace Analytical Services, Inc

CONTINUING CALIBRATION COMPOUNDS

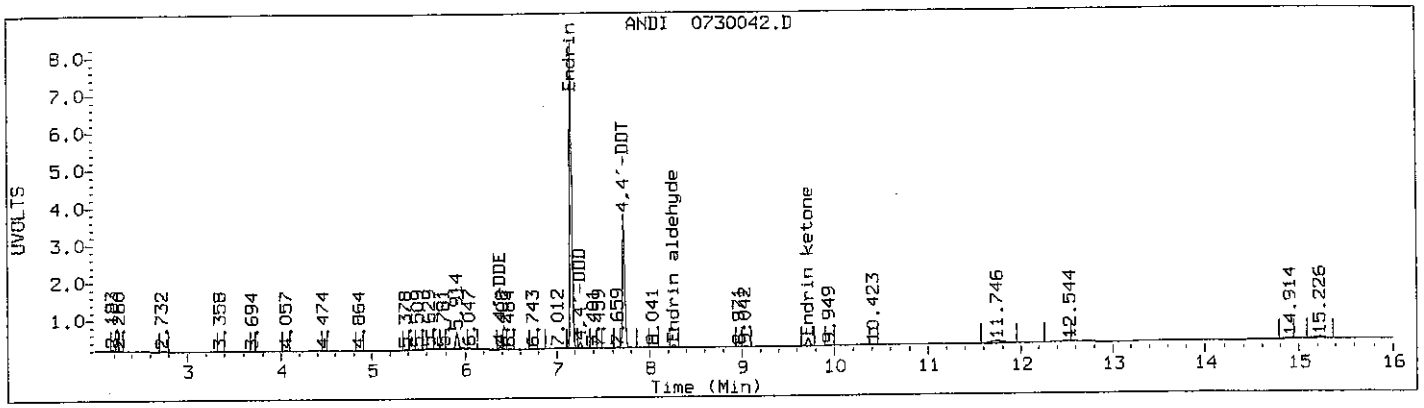
Instrument ID: 35gcsj.i Injection Date: 31-JUL-2013 01:00
Lab File ID: 0730038.D Init. Cal. Date(s): 30-JUL-2013 30-JUL-2013
Analysis Type: Init. Cal. Times: 15:23 16:57
Lab Sample ID: PEST CCV 4 .050 Quant Type: ESTD
Method: \\35Wintarget\chem\35gcsj.i\130730.b\Pest_130730.m\Pest_130730-CH2.m

COMPOUND	RRF / AMOUNT	RF0.050	CCAL RRF0.050	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	1.071e+09	1.091e+09	1.091e+09	0.010	1.86854	15.00000	Averaged	
$ 25 Decachlorobiphenyl	0.05000	0.05046	930747560	0.010	0.92318	15.00000	Quadratic	
2 Alpha-BHC	1.623e+09	1.760e+09	1.760e+09	0.010	8.45295	15.00000	Averaged	
4 Gamma-BHC	1.482e+09	1.567e+09	1.567e+09	0.010	5.77409	15.00000	Averaged	
5 Beta-BHC	682537213	678548220	678548220	0.010	-0.58444	15.00000	Averaged	
6 Delta-BHC	1.458e+09	1.551e+09	1.551e+09	0.010	6.39542	15.00000	Averaged	
7 Heptachlor	1.345e+09	520836240	520836240	0.010	-61.28320	15.00000	Averaged	<-
8 Aldrin	1.503e+09	1.570e+09	1.570e+09	0.010	4.48391	15.00000	Averaged	
10 Heptachlor Epoxide	1.400e+09	1.432e+09	1.432e+09	0.010	2.27246	15.00000	Averaged	
12 Gamma-chlordane	1.388e+09	1.433e+09	1.433e+09	0.010	3.21477	15.00000	Averaged	
13 Alpha-chlordane	1.346e+09	1.382e+09	1.382e+09	0.010	2.68097	15.00000	Averaged	
14 Endosulfan I	1.229e+09	1.265e+09	1.265e+09	0.010	2.97352	15.00000	Averaged	
15 4,4'-DDE	1.276e+09	1.343e+09	1.343e+09	0.010	5.29096	15.00000	Averaged	
16 Dieldrin	1.330e+09	1.383e+09	1.383e+09	0.010	3.98820	15.00000	Averaged	
17 Endrin	1.229e+09	1.201e+09	1.201e+09	0.010	-2.32790	15.00000	Averaged	
18 4,4'-DDD	1.032e+09	986171900	986171900	0.010	-4.40672	15.00000	Averaged	
19 Endosulfan II	1.214e+09	1.227e+09	1.227e+09	0.010	1.05977	15.00000	Averaged	
20 4,4'-DDT	881456846	341210320	341210320	0.010	-61.29018	15.00000	Averaged	<-
21 Endrin aldehyde	956902462	955055780	955055780	0.010	-0.19299	15.00000	Averaged	
22 Endosulfan sulfate	1.038e+09	1.034e+09	1.034e+09	0.010	-0.40540	15.00000	Averaged	
23 Methoxychlor	500910287	100149540	100149540	0.010	-80.00649	15.00000	Averaged	<-
40 Mirex	0.05000	0.05555	930682320	0.010	11.09436	0.000e+000	Linear	<-
24 Endrin ketone	1.118e+09	1.065e+09	1.065e+09	0.010	-4.73025	15.00000	Averaged	

Average %D / Drift Results.
Calculated Average %D/Drift = 11.98699
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

DDT and Endrin Breakdown Report

Data File : \\35Wintarget\chem\35gcsj.i\130730.b/0730042.D
Sample ID :
Sample Type: PC
Inj Date : 31-JUL-2013 03:31
Dil Factor : 1.000



DDT Summary

DDT Area = 66671311
DDD Area = 3426485
DDE Area = 1223413

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

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 6.52 Percent

DDT Breakdown PASSES

Endrin Summary

Endrin Area = 137929206
Endrin Aldehyde Area = 1569907
Endrin Ketone Area = 4744391

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

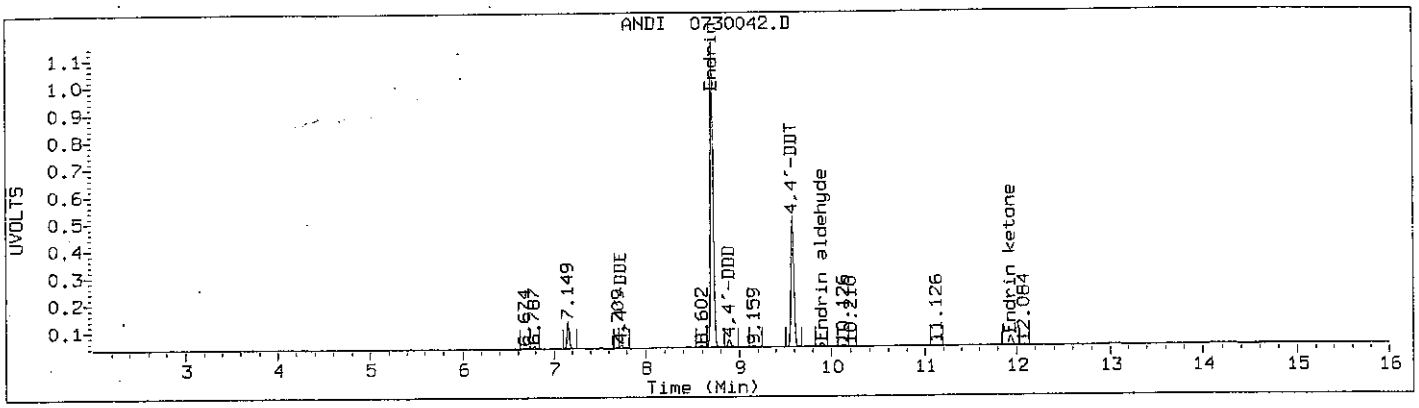
Endrin Breakdown = 4.38 Percent

Endrin Breakdown PASSES

07/31/13

DDT and Endrin Breakdown Report

Data File : \\35Wintarget\chem\35gcsj.i\130730.b\0730042.D/0730042.D
Sample ID :
Sample Type: PC
Inj Date : 31-JUL-2013 03:31
Dil Factor : 1.000



DDT Summary

DDT Area = 107302499
DDD Area = 6355055
DDE Area = 2473579

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

DDT Breakdown Maximum = 15 Percent

DDT Breakdown = 7.60 Percent

DDT Breakdown PASSES

Endrin Summary

Endrin Area = 240738475
Endrin Aldehyde Area = 3130852
Endrin Ketone Area = 9404783

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 = 4.95 Percent

Endrin Breakdown PASSES

07/31/13

EPA 8081

Logbooks

Pace Analytical™

Pace Analytical - Florida, 8 East Tower Circle, Ormond Beach, FL 32174

PESTICIDE/PCB Extraction Benchsheet

The following Batches share QC with this batch: _____

Methods: EPA 608 SW846 8081
SM 6630 C SW846 8082

Matrix: Water ✓ Soil ___ TCLP ___

Batch #: OEXT13644 Prep Code: 608 W Ext Tech: JW Conc Tech: JW TCLP

	Spike Name	Trace #	Vol (uL)	Exp Date
SPK-A	Surrogate	PSV-8307	1000	8-16-13
SPK-B	LCS / MS SPK (PEST)	PSV-8352	1000	8-24-13
SPK-C	LCS / MS SPK (PCB)	PSV-8193	1000	8-9-13

Initial Solvent:	MeCl2	Trace #:	IEX-1751
Final Solvent:	HEXANE	Trace #:	IEX-1753
Microwave ID:	MARS 1		
Balance ID:	OP-20		

TurboVap Conditions	
Temp (°C):	45°C
Press (PSI):	16psi
ID Number	OP-10/15/14

LIMS Sample Number	Sample ID	pH	SPK Witness SPK-A	SPK-B	SPK-C	Bottle Full (g) (A)	Bottle Empty (g) (B)	Samp Amt. (mL or g)	Final Vol (mL)	Extraction Date & Time	Concentration Date & Time	Comments
683276	BLANK for HBN 136487 [OEXT/136	7	*DEI				A	1000	10	7-29-13 6:00p	7-29-13 9:00p	
683277	LCS for HBN 136487 [OEXT/13644	7		*DEI		N		1000				
35101867001	Goldman Park	7				1469.4	500.7	968.7				
35101867002	46th Ave	7				1335.1	407.6	927.5				
35101867003	29th Ave	7				1371.2	412.6	958.6				
35101867004	Sherman St.	7				1395.7	408.8	986.9				
35102046001	West Composite	7				1553.6	518.3	1035.3				
683278	West Composite(682435MS)	7		*DEI			A	500				
683279	West Composite(682435MSD)	7		*DEI		N		500				
35102054001	Field Blank	7				1553.3	514.5	1038.8				
~~35102054002~~	Lechate	7					404.3 JW 7/29					lost sample
35102054003	Duplicate	7				1383.1	517.6	978.8				
35101895001	132061201	7				1571.7	502.3	1069.4				
35101955001	Ditch West	7				1550.9	518.4	1032.5				
35101955002	Ditch	7				1538.6	514.0	1024.6				
35101955003	Cooling Tower	7				1567.0	519.2	1047.8				
35101955004	Ditch East	7				1542.3	517.6	1024.7				
683540	LCS PCB	7			*DEI		A	1000		7-29-13 23:00p	7-29-13	
683541	LCSD PCB	7	↓		*DEI	N		1000		↓		

Florida Benchsheet VersionNumber 1.5

Pace Analytical™

PESTICIDE/PCB Extraction Checklist

Methods: EPA 608 SW846 8081
SM 6630 C SW846 8082

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

Batch Requirements: Separate LCSs 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		
3550_P	3550_PCB	608SFW_P/6630C W_P	8081 W_P	8082 W_P
MB	MB	MB	MB	MB
LCS (PEST)	LCS (PCB)	LCS (PEST)	LCS (PEST)	LCS (PCB)
LCSD (PEST)**	LCSD (PCB)**	LCS (PCB)	LCSD (PEST)	LCSD (PCB)
Client Samples (up to 20)	Client Samples (up to 20)	LCSD (PEST)	Client Samples (up to 20)	Client Samples (up to 20)
MS (PEST)	MS (PCB)	LCSD (PCB)	MS (PEST)	MS (PCB)
MSD (PEST)	MSD (PCB)	Client Samples (up to 20)	MSD (PEST)	MSD (PCB)
		MS (PEST)		
		MS (PCB)		
		MSD (PEST)		
		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 preformed?	✓	
Benchsheet completed?	✓	

Witness Initials DEI

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

Technician: _____ Date: 7-29-13

Reviewer: _____ Date: _____

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	0730001
2	Vial 98	ICB	35GCSJ	1	Sample	0.5	0730002
3	Vial 99	ICB	35GCSJ	1	Sample	0.5	0730003
4	Vial 4	PC CHEC (PEM)	35GCSJ	1	Sample	0.5	0730004
5	Vial 5	PEST Cal 6 .010	35GCSJ	1	Sample	0.5	0730005
6	Vial 6	PEST Cal 5 .075	35GCSJ	1	Sample	0.5	0730006
7	Vial 7	PEST Cal 4 .050	35GCSJ	1	Sample	0.5	0730007
8	Vial 8	PEST Cal 3 .025	35GCSJ	1	Sample	0.5	0730008
9	Vial 9	PEST Cal 2 .010	35GCSJ	1	Sample	0.5	0730009
10	Vial 10	PEST Cal 1 .001	35GCSJ	1	Sample	0.5	0730010
11	Vial 11	PEST ICV .075	35GCSJ	1	Sample	0.5	0730011
12	Vial 12	Tox CCV 4 0.3	35GCSJ	1	Sample	0.5	0730012
13	Vial 13	Chl CCV 4 0.3	35GCSJ	1	Sample	0.5	0730013
14	Vial 98	ICB	35GCSJ	1	Sample	0.5	0730014
15	Vial 20	683276,9124 BLK	35GCSJ	1	Sample	0.5	0730020
16	Vial 21	683277,9124 LCS	35GCSJ	1	Sample	0.5	0730021
17	Vial 22	35102054003,9124	35GCSJ	1	Sample	0.5	0730022
18	Vial 23	35101955001,9124	35GCSJ	1	Sample	0.5	0730023
19	Vial 24	35101955001,9124	35GCSJ	1	Sample	0.5	0730024
20	Vial 25	35101867001,9124	35GCSJ	1	Sample	0.5	0730025
21	Vial 26	35101867002,9124	35GCSJ	1	Sample	0.5	0730026
22	Vial 27	35101867003,9124	35GCSJ	1	Sample	0.5	0730027
23	Vial 28	35101867004,9124	35GCSJ	1	Sample	0.5	0730028
24	Vial 22	35102054003,9124	35GCSJ	1	Sample	0.5	0730022r
25	Vial 45	35102054003,9124	35GCSJ	1	Sample	0.5	0730022d
26	Vial 29	35102046001,9124	35GCSJ	1	Sample	0.5	0730029
27	Vial 30	35101895001,9124	35GCSJ	1	Sample	0.5	0730030
28	Vial 31	35101955003,9124	35GCSJ	1	Sample	0.5	0730031
29	Vial 32	35101955004,9124	35GCSJ	1	Sample	0.5	0730032
30	Vial 33	35102054001,9124	35GCSJ	1	Sample	0.5	0730033
31	Vial 34	35101955002,9124	35GCSJ	1	Sample	0.5	0730034
32	Vial 35	683278,9124 MS	35GCSJ	1	Sample	0.5	0730035
33	Vial 36	683279,9124 MSD	35GCSJ	1	Sample	0.5	0730036
34	Vial 6	PEST CCV 5 .075	35GCSJ	1	Sample	0.5	0730037
35	Vial 7	PEST CCV 4 .050	35GCSJ	1	Sample	0.5	0730038
36	Vial 39	Tox CCV 4 0.3	35GCSJ	1	Sample	0.5	0730039
37	Vial 40	Chl CCV 4 0.3	35GCSJ	1	Sample	0.5	0730040
38	Vial 95	MIX	35GCSJ	1	Sample	1.0	07300
39	Vial 95	MIX	35GCSJ	1	Sample	1.0	07300
40	Vial 100	METHANOL	35GCSJ	1	Sample	1.0	07300
41	Vial 96	ACETONE	35GCSJ	1	Sample	1.0	07300
42	Vial 99	HEXANE	35GCSJ	1	Sample	0.5	0730041
43	Vial 4	PC CHECK (PEM)	35GCSJ	1	Sample	0.5	0730042
44	Vial 98	HEXANE	35GCSJ	1	Sample	0.5	0730049
45	Vial 50	684585,9130 BLK	35GCSJ	1	Sample	0.5	0730050
46	Vial 51	684586,9130 LCS	35GCSJ	1	Sample	0.5	0730051
47	Vial 52	35102277001,9130	35GCSJ	1	Sample	0.5	0730052
48	Vial 53	684587,9130 MS	35GCSJ	1	Sample	0.5	0730053
49	Vial 54	684588,9130 MSD	35GCSJ	1	Sample	0.5	0730054
50	Vial 61	35101277001,9130	35GCSJ	1	Sample	0.5	0730052A
51	Vial 55	PEST CCV 5 .075	35GCSJ	1	Sample	0.5	0730055a
52	Vial 56	PEST CCV 4 .050	35GCSJ	1	Sample	0.5	0730056a
53	Vial 39	Tox CCV 4 0.3	35GCSJ	1	Sample	0.5	0730057
54	Vial 40	Chl CCV 4 0.3	35GCSJ	1	Sample	0.5	0730058
55	Vial 95	MIX	35GCSJ	1	Sample	1.0	07300
56	Vial 95	MIX	35GCSJ	1	Sample	1.0	07300
57	Vial 100	METHANOL	35GCSJ	1	Sample	1.0	07300
58	Vial 96	ACETONE	35GCSJ	1	Sample	1.0	07300
59	Vial 99	HEXANE	35GCSJ	1	Sample	0.5	0730059

equence: C:\HPCHEM\1\SEQUENCE\2013\130730.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
60	Vial 60	PC CHECK (PEM)	35GCSJ	1	Sample	0.5	0730060

Sequence Table (Back Injector):

No entries - empty table!

Sequence Table (Front Injector):

Sample Information Part:

Line	Location	Sample Information
1	Vial 1	PSV_7893_x090613
2	Vial 98	
3	Vial 99	
4	Vial 4	PSV_8121_x100313
5	Vial 5	PSV_7900_x090613
6	Vial 6	PSV_8119_x090613
7	Vial 7	PSV_8120_x090613
8	Vial 8	PSV_7897_x090613
9	Vial 9	PSV_7896_x090613
10	Vial 10	PSV_7895_x090613
11	Vial 11	PSV_7901_x090613
12	Vial 12	PSV_8194_x080613
13	Vial 13	PSV_8051_x092413
14	Vial 98	
15	Vial 20	BLK_608
16	Vial 21	LCS_608
17	Vial 22	PS_608. Dirty sample, bad odor
18	Vial 23	PS_608. Dirty sample, bad odor.
19	Vial 24	PS_608. Dirty sample, bad odor. 10x
20	Vial 25	PS_608.
21	Vial 26	PS_608.
22	Vial 27	PS_608.
23	Vial 28	PS_608.
24	Vial 22	PS_608. Dirty sample, bad odor. Matrix interference. Re-run
25	Vial 45	PS_608. Dirty sample, bad odor. Matrix interference. 10x
26	Vial 29	PS_608. Data package
27	Vial 30	PS_608.
28	Vial 31	PS_608.
29	Vial 32	PS_608.
30	Vial 33	PS_608.

LLL 073113

31	Vial	34	PS_608.
32	Vial	35	MS_608.
33	Vial	36	MSD_608.
34	Vial	6	PSV_8119_x090613
35	Vial	7	PSV_8120_x090613
36	Vial	39	PSV_8194_x080613
37	Vial	40	PSV_8051_x092413
38	Vial	95	
39	Vial	95	
40	Vial	100	
41	Vial	96	
42	Vial	99	
43	Vial	4	PSV_8121_x100313
44	Vial	98	
45	Vial	50	BLK_8081_S
46	Vial	51	LCS_8081_S
47	Vial	52	PS_8081_S
48	Vial	53	MS_8081_S
49	Vial	54	MS_8081_S
50	Vial	61	PS_8081_S
51	Vial	55	PSV_8119_x090613
52	Vial	56	PSV_8120_x090613
53	Vial	39	PSV_8194_x080613
54	Vial	40	PSV_8051_x092413
55	Vial	95	
56	Vial	95	
57	Vial	100	
58	Vial	96	
59	Vial	99	
60	Vial	60	PSV_8121_x100313

Sequence Table (Back Injector):

No entries - empty table!

Chain of Custody

WO# : 35102046

35102046

CHAIN OF CUSTODY RECORD

LAB W.O #_____ Quote:_____ Page 1 of 1

Container Type Codes			
AV	Amber Vial	ES	Encore Sampler
CV	Clear Vial	PPV	Prepreserved vial
P	Plastic	PL C	Plastic container
AL	Amber Liter	PL J	Plastic Jar
CL	Clear Liter	Z	Ziploc bag
AP	Amber Plastic	TB	Tedlar bag
AG	Amber Glass	WP	Whirl pak
SJ	Soil Jar	G	Gallon Jug
Other_____		TC	Terra-core

PPV ____ Prepreserved vial
Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other_____
40ml 500ml 250ml 125 ml
Example: 4ozP = 4oz Plastic, 8ozSJ= 8oz Soil Jar

Matrix Codes			
SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H20	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum
SW	Surface Water	O	Other_____ (Please specify)
ML	Misc. Liquid		

Preservative Type Codes		
A. None	E. HCL	I. Ice
B. HNO_3	F. MeOH	J. MCAA
C. H_2SO_4	G. $Na_2S_2O_3$	K. Zn Acetate
D. NaOH	H. $NaHSO_4$	O. Other

Company Name: FPL PO#

Address: 700 Universe Blvd

City: Juno Beach State: FL Zip: 33408

Attn: Meister Eric Fax#

email: Phone:

Project Name: Miami-Dade County Wastewater Treatment Center-South District Project #

Sampler Signature: NW

Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

LAB ANALYSIS

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	Parameters: Sample	TRC	pH	Pres Codes	608 (Aldrin)	EXAMPLE Diss. Lead 6010
													# of Containers Size/Type: 1 16ozP
1	West Composite	7/26/13	9:15	WW	Y		2				A	2 1L AG	
2													
3													
4													
5													
6													
7													
8													
9													
10													

Page 115 of 117

REMARKS

pH - 6.87
temp - 26.99 C

5062

Circle T.A.T. REQUEST (Rush Fees Approved): Standard (Y) N RUSH: Today 1D 2D 3D 4D 5D ____

Short Hold: Y____ N✓

Circle QA/QC Report Level: 1 2 3 (4) CLP AFCEE QAPP Other_____

EDD (Fees May Apply): ADaPT SEDD ERPIMS TSV CSV Other

COC Condition: (OK) Incomplete

Required State Certification: (FL) GA SC NC NJ PA LA TX IL ____

Coolers #'s - Temp °C: 1 ___ 2 ___ 3 ___ 4 ___ 5 ___

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	NW	DACE	7/26/13	16:00			7/26/13	1600
2			7-26-13	1705		PACE	7/26/13	1705
3								

Laboratory Only

	Yes	No	N/A
Non-Conformance Found?			
Samples INTACT upon arrival?			
Received on Wet Ice?			
Proper Preservatives Indicated?			
Received within holding time?			
Custody seals Intact?			
Volatiles rec'd without headspace?			
Proper Containers Used?			

Composite Sample Report

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

Sampling Point Location: WEST EFFLUENT

Method of Sampling:

Time-Based Composite: ____

Flow-Based Composite: X

SAMPLE TYPE

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

Individual Discrete Grab Samples (# of samples) ____

Other 85 ML / SAMPLE

THERMOMETER S/N 4787

SAMPLE DATES and TIMES

Date and Time of First Collection 7-25-13 08:45 AM

Date and Time of Last Collection 7/26/13 0845

MISCELLANOUS INFORMATION:

Type of Tubing used: 3/8 VINYL

Temperature of autosampler at start of collection: 2.0°

Temperature of autosampler after 8 hours of collection: 3.2°

Temperature of autosampler at end of collection: 3.0

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

Sample Condition Upon Receipt Form (SCUR)

Table Number:_____

Client Name: FPL Project #_____

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 T-108 Type of Ice: Wet Blue None

Cooler Temperature °C 4.2 (Visual) -0.1 (Correction Factor) 4.1 (Actual)

Date and Initials of person examining contents: DJ 7/26/10

(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): _____

Project Manager Review: _____ Date: _____

Finished Product Information Only

F.P. Sample ID:_____

Production Code:_____

Date/Time Opened:_____

Number of Unopened Bottles Remaining:_____

Extra Sample in Shed: Yes No

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:_____