

DATA VALIDATION COVER SHEET**5122-1****Data Validation Cover Sheet**

Records Use only

**Section I.**REQUEST NUMBER: 10-1911 VALIDATION DATE: 3/31/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Linda Thal ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|--|--|--|--|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input checked="" type="checkbox"/> LCMSMS HIGH EXPLOSIVES | PESTICIDES/POLYCHLORINATED BIPHENYLS |
| <input type="checkbox"/> OTHER (DESCRIBE): _____ | | | |

Section II. Completeness Check

- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA |

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

- The %Ds for HMX and RDX were >20% with positive bias for the CCV associated with samples RE15-10-8246, -8245 and -8243. The %D for RDX was >20% with positive bias for the ICV associated with the remaining samples. The associated sample results were NDs and, thus, were not qualified.
- It should be noted that the raw ICAL data from the instrument used for the secondary HE analysis were not reported in the data package. Thus, the surrogate RT criteria could not be evaluated. No sample data were qualified as a result.
- The LCS %R for tetryl was < the laboratory's LAL but $\geq 10\%$. The associated sample results were NDs and, thus, were qualified UJ,HE12a.
- The MS %R for TATB was > the laboratory's UAL. The associated sample results were NDs and, thus, were not qualified. The MS/MSD RPDs for tetryl and TATB were > the laboratory's UALs. The associated sample results were NDs and, thus, were qualified UJ,HE12g. It should be noted that the sample used for the MS/MSD was from another LANL RN and the raw data for the parent sample were not present in the data package. No sample data were qualified as a result.

Reviewed by: Mary DonovanLevel: IDate: 04/02/10

VALIDATOR'S SIGNATURE: *A Hal*

DATE: 3/31/10

Form 5122-1, Revision 0.0

LOS ALAMOS

Environmental Restoration Project

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST**5122-2****LC/MS/MS High Explosive Analytical Data Validation Checklist**

Records Use only



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The IS retention time has shifted by more than 30 seconds.	R, UJ, HE0	J, HE0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE0b	R, HE0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The quantitating IS area count is <25% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow the method-specific windows.	R, HE1a	J, HE1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The IS area count for the quantitating IS is <70% but >25% of the average of that obtained from the calibration standards.	UJ, HE1b	J+, HE1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standards.	UJ, HE1c	J-, HE1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE1d	R, HE1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The surrogate is <10%R. Follow the external laboratory limits.	R, HE3	J-, HE3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The surrogate is < the Lower Acceptance Limit but ≥10% recovery. Follow the external laboratory limits.	UJ, HE3a	J-, HE3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The surrogate %R value is > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE3b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. At least one surrogate is > the Upper Acceptance Limit and one surrogate is < the Lower Acceptance Limit. Follow the external laboratory limits.	UJ, HE3c	J, HE3c

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST**5122-2****LC/MS/MS High Explosive Analytical Data Validation Checklist**

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Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE3d	R, HE3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The sample result is ≤ 5 times the concentration of the related analyte in the method blank.	U, HE4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5x$.	N/A	J, HE4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. The sample result is ≤ 5 times the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, HE4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE4e	R, HE4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The absence of sample carry-over must be determined and verified.	N/A	R, N, HE4f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, HE7	J, HE7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is less < 0.99 .	UJ, R, HE7a	J, HE7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The affected analytes were analyzed with a RRF of < 0.05 in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, HE7f	R, HE7f

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST**5122-2****LC/MS/MS High Explosive Analytical Data Validation Checklist**

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Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The mass spectral documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE8a	R, HE8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, HE9	J-, HE9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The holding time was >2 times the applicable holding time requirement.	R, HE9a	J-, HE9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, HE12	J-, HE12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, HE12a	J-, HE12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE12c	R, HE12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33. The MS/MSD relative percent difference was >30%.	UJ, HE12g	J, HE12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. (Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.)	UJ, R, HE15	R, HE15
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. The sample was diluted because target analytes were > the initial verification calibration.	UJ, HE15a	J, HE15a

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST**5122-2****LC/MS/MS High Explosive Analytical Data Validation Checklist**

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Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criteria.	UJ, R, HE16	J, HE16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	37. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, HE16c	R, HE16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, HE19	J, R, HE19
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39. Duplicate, dilution, or reanalysis.	UJ, HE88	J, HE88

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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8246

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346001

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314085a

Date Analyzed: 16-MAR-10 08:16

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8246

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346001

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050103.wiff

Date Analyzed: 06-MAR-10 19:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8245

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346002

Sample Amount 2

Moisture: 1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314086a

Date Analyzed: 16-MAR-10 08:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		<u>Sample Amount</u>		Factor

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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8245

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346002

Sample Amount 2

Moisture: 1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050104.wiff

Date Analyzed: 06-MAR-10 20:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8243

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314087a

Date Analyzed: 16-MAR-10 09:15

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8243

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050105.wiff

Date Analyzed: 06-MAR-10 20:20

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8244

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346004

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319013a

Date Analyzed: 19-MAR-10 22:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8244

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346004

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050109.wiff

Date Analyzed: 06-MAR-10 21:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8242

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346005

Sample Amount 2

Moisture: 1.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319014a

Date Analyzed: 19-MAR-10 23:17

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8242

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346005

Sample Amount 2

Moisture: 1.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050110.wiff

Date Analyzed: 06-MAR-10 21:39

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8240

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319015a

Date Analyzed: 19-MAR-10 23:47

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8240

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050111.wiff

Date Analyzed: 06-MAR-10 21:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		Sample Amount		Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8241

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319016a

Date Analyzed: 20-MAR-10 00:16

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8241

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050112.wiff

Date Analyzed: 06-MAR-10 22:10

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8267

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346008

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319017a

Date Analyzed: 20-MAR-10 00:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8267

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346008

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050113.wiff

Date Analyzed: 06-MAR-10 22:26

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

LT 3/31/10

DATA VALIDATION COVER SHEET

5116-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1911 VALIDATION DATE: 3/31/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Linda Thal ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|--|--|---|---|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input checked="" type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | |
| <input type="checkbox"/> OTHER (DESCRIBE): <u>PCBs</u> | | | |


Section II. Completeness Check

- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA |


Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

- It should be noted that due to the scale of the chromatograms provided for aroclor-1242 and aroclor-1254 detected in sample RE15-10-8245, it was not possible to pattern match the sample results with the associated standards. Since all RT criteria were met, no sample results were qualified, based on professional judgment.


Reviewed by: Mary DonovanLevel: IDate: 04/02/10VALIDATOR'S SIGNATURE: *L Thal*DATE: 3/31/10

ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST	
5116-2 Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist	Records Use only 


Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, P7	J, P7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, P7a	J, P7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, P7f	R, P7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify J-. If compound is not present, but breakdown products are present, qualify R. If no compounds or breakdown products are present, qualify UJ (4,4' DDT and Endrin).	UJ, R, P13	J-, P13

ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST	
5116-2 Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. The breakdown criteria have been exceeded. This can cause high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.	UJ, P13a	J+, P13a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. The breakdown documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P13b	R, P13b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, P4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5X.	N/A	J, P4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	UJ, P4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, P4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P4e	R, P4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.	R, P0	J, P0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Required retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P0b	R, P0b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The surrogate is $<10\%R$. Follow the external laboratory limits located within the associated data package.	R, P3	J-, P3

ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST	
5116-2 Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The surrogate is < the Lower Acceptance Level (LAL) but $\geq 10\%R$. Follow the external laboratory limits located within the associated data package.	UJ, P3a	J-, P3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The surrogate %R value is > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P3b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. At least one surrogate is > the Upper Acceptance Limit (UAL) and one surrogate is < the LAL. Follow the external laboratory limits located within the associated data package.	UJ, P3c	J, P3c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P3d	R, P3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, P12	J-, P12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, P12a	J-, P12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P12c	R, P12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The analyte was not confirmed on a second dissimilar column.	N/A	R, P8
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The second dissimilar column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P8a	R, P8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. Duplicate, Dilution, or reanalysis.	UJ, P88	J, P88

ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST	
5116-2 Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, P15	R, P15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, P19	J, R, P19

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346006	Date Received:	02/18/2010 08:45	%Moisture:	1.7
Client ID:	RE15-10-8240	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:32	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	048f4801.d	Aliquot:	30.07 g	Final Volume:	1 mL
	048b4801.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346007	Date Received:	02/18/2010 08:45	%Moisture:	1.2
Client ID:	RE15-10-8241	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:45	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	049f4901.d	Aliquot:	30.01 g	Final Volume:	1 mL
	049b4901.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346005	Date Received:	02/18/2010 08:45	%Moisture:	1.4
Client ID:	RE15-10-8242	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:20	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	047f4701.d	Aliquot:	30.11 g	Final Volume:	1 mL
	047b4701.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346003	Date Received:	02/18/2010 08:45	%Moisture:	1.5
Client ID:	RE15-10-8243	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 14:31	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	043f4301.d	Aliquot:	30.02 g	Final Volume:	1 mL
	043b4301.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1911
Lab Sample ID: 247346004

Date Collected: 02/13/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.04 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 5
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8244
Batch ID: 957590
Run Date: 02/26/2010 15:08
Prep Date: 02/25/2010 21:15
Data File: 046f4601.d
046b4601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	17.0	ug/kg	5.67	17.0	1
11104-28-2	Aroclor-1221	U	17.0	ug/kg	5.67	17.0	1
11141-16-5	Aroclor-1232	U	17.0	ug/kg	5.67	17.0	1
53469-21-9	Aroclor-1242	U	17.0	ug/kg	5.67	17.0	1
12672-29-6	Aroclor-1248	U	17.0	ug/kg	5.67	17.0	1
11097-69-1	Aroclor-1254	U	17.0	ug/kg	5.67	17.0	1
11096-82-5	Aroclor-1260	U	17.0	ug/kg	5.67	17.0	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346002	Date Received:	02/18/2010 08:45	%Moisture:	1
Client ID:	RE15-10-8245	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 14:18	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	042f4201.d	Aliquot:	30.06 g	Final Volume:	1 mL
	042b4201.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.36	ug/kg	1.12	3.36	1
11104-28-2	Aroclor-1221	U	3.36	ug/kg	1.12	3.36	1
11141-16-5	Aroclor-1232	U	3.36	ug/kg	1.12	3.36	1
53469-21-9	Aroclor-1242	J	3.20	ug/kg	1.12	3.36	1
12672-29-6	Aroclor-1248	U	3.36	ug/kg	1.12	3.36	1
11097-69-1	Aroclor-1254	J	1.80	ug/kg	1.12	3.36	1
11096-82-5	Aroclor-1260	U	3.36	ug/kg	1.12	3.36	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1911
Lab Sample ID: 247346001

Date Collected: 02/13/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8246
Batch ID: 957590
Run Date: 02/26/2010 13:41
Prep Date: 02/25/2010 21:15
Data File: 039f3901.d
039b3901.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1911
Lab Sample ID: 247346008

Date Collected: 02/13/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8267
Batch ID: 957590
Run Date: 02/26/2010 15:57
Prep Date: 02/25/2010 21:15
Data File: 050f5001.d
050b5001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1911

LOS ALAMOS

REQUEST NUMBER: 10-1911

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

847346%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8246	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8245	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8243	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8244	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8242	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8240	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8241	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8267	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date Time

Received By:

Date Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 17, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.
2040 Savage Rd
Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/17/2010

TURNAROUND/REPORT DUE: 3/19/2010

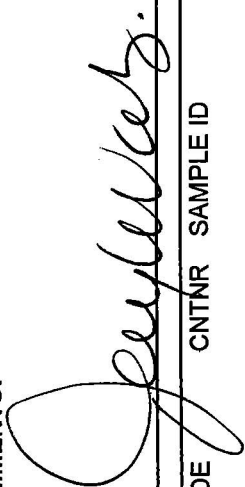
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



These Samples are on:

LANL Request Number: 10-1911
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8240	R	2/13/2010	
		1	RE15-10-8241	R	2/13/2010	
		1	RE15-10-8242	R	2/13/2010	
		1	RE15-10-8243	R	2/13/2010	
		1	RE15-10-8244	R	2/13/2010	
		1	RE15-10-8245	R	2/13/2010	
		1	RE15-10-8246	R	2/13/2010	
		1	RE15-10-8267	R	2/13/2010	
	SW-846:8321A_MOD	1	RE15-10-8240	R	2/13/2010	

Wednesday, February 17, 2010

Page 2 of 2

REQUEST NUMBER: 10-1911

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-8241	R	2/13/2010	
		1	RE15-10-8242	R	2/13/2010	
		1	RE15-10-8243	R	2/13/2010	
		1	RE15-10-8244	R	2/13/2010	
		1	RE15-10-8245	R	2/13/2010	
		1	RE15-10-8246	R	2/13/2010	
		1	RE15-10-8267	R	2/13/2010	

Final Page of REQUEST NUMBER 10-1911

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247346
SDG # : 10-1911**

February 22, 2010

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 18, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
247346001	RE15-10-8246
247346002	RE15-10-8245
247346003	RE15-10-8243
247346004	RE15-10-8244
247346005	RE15-10-8242
247346006	RE15-10-8240
247346007	RE15-10-8241
247346008	RE15-10-8267

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Explosives by LCMSMS and GC Semivolatile PCB.

I certify that this data report is in compliance with the terms and conditions of the subcontract and task order, both technically and for completeness, for other than the conditions detailed in the attached case narrative.



Valerie Davis
Project Manager

List of current GEL Certifications as of 22 February 2010

State	Certification
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California – NELAP	01151CA
Colorado	GEL
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA Region 5	WG-15J
Florida – NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois – NELAP	200029
Indiana	C-SC-01
Kansas – NELAP	E-10332
Kentucky	90129
Louisiana – NELAP	03046
Maryland	270
Massachusetts	M-SC012
Nevada	SC00012
New Jersey – NELAP	SC002
New Mexico	FL NELAP E87156
New York – NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania – NELAP	68-00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas – NELAP	T104704235-07B-TX
U.S. Dept. of Agriculture	S-52597
Utah – NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

Chain of Custody and Supporting Documentation

Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1911

LOS ALAMOS

REQUEST NUMBER: 10-1911

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

847346%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8246	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8245	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8243	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8244	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8242	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8240	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8241	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8267	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date Time

Received By:

Date Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date Time

Remarks:

Printed Name

Signature

Wednesday, February 17, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis
General Engineering Laboratories, Inc., Charleston, SC.
2040 Savage Rd
Charleston, SC 29407

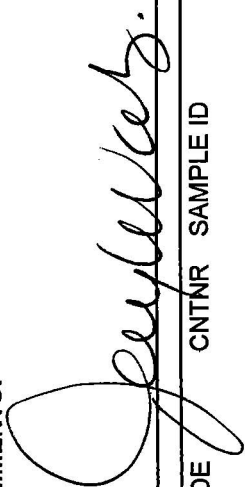
Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/17/2010
TURNAROUND/REPORT DUE: 3/19/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



These Samples are on:
LANL Request Number: 10-1911
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8240	R	2/13/2010	
		1	RE15-10-8241	R	2/13/2010	
		1	RE15-10-8242	R	2/13/2010	
		1	RE15-10-8243	R	2/13/2010	
		1	RE15-10-8244	R	2/13/2010	
		1	RE15-10-8245	R	2/13/2010	
		1	RE15-10-8246	R	2/13/2010	
		1	RE15-10-8267	R	2/13/2010	
	SW-846:8321A_MOD	1	RE15-10-8240	R	2/13/2010	

Wednesday, February 17, 2010

Page 2 of 2

REQUEST NUMBER: 10-1911

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-8241	R	2/13/2010	
		1	RE15-10-8242	R	2/13/2010	
		1	RE15-10-8243	R	2/13/2010	
		1	RE15-10-8244	R	2/13/2010	
		1	RE15-10-8245	R	2/13/2010	
		1	RE15-10-8246	R	2/13/2010	
		1	RE15-10-8267	R	2/13/2010	

Final Page of REQUEST NUMBER 10-1911



SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCOC/Work Order: 10-1911	
Received By: Patricia Dover-Dent		Date Received: February 18, 2009	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60 CPM
Classified Radioactive II by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other (describe) 1,2 10C
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?			X	Sample ID's affected: time written on containers, not on COC
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments: FEDEX#S

7209 7850 1047 1C

7209 7850 1014 2C

7209 7850 1036 2C

7209 7850 1025 2C

7209 7850 0990 10C

7209 7850 1003 10C

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A05529E00

SHIP DATE: 17FEB10
ACTWGT: 51.0 LB MAN
CAD: 0014176/CAFE2450

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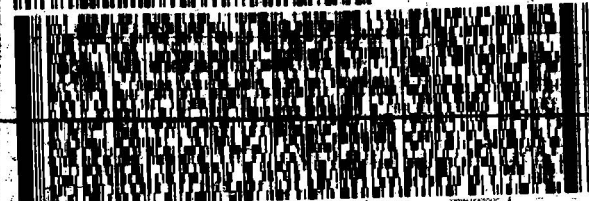
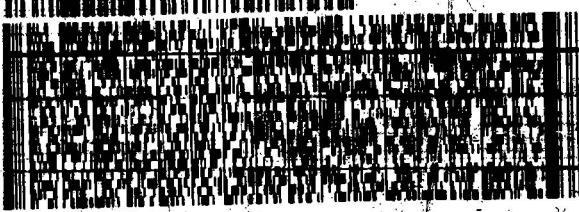
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TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
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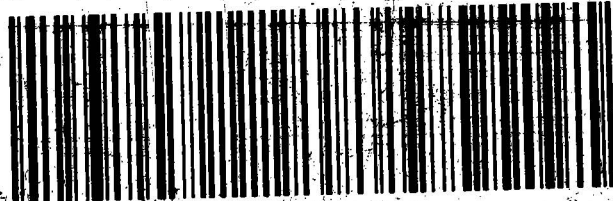


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PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



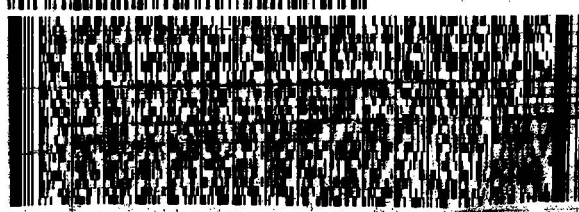
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UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A05529E00



2 of 2
MPS# 7209 7850 1036
0263

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



TRK# 7209 7850 1014
0201

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 17FEB10
ACTWGT: 57.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A05529E00



1 of 2
TRK# 7209 7850 1025
0201
NN MASTER NN

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



SHIP DATE: 17FEB10
ACTWGT: 67.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

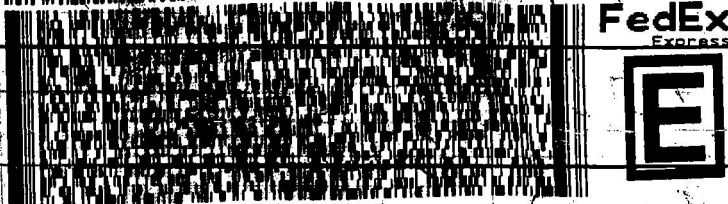
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR2A0315BYDO



FedEx
Express



T-60001, 7M7777

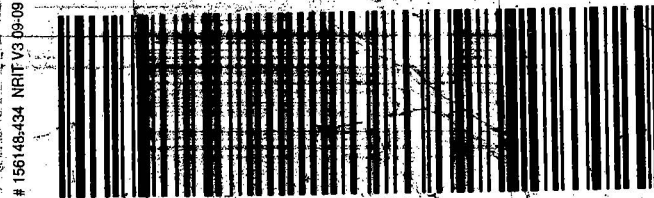
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PRIORITY OVERNIGHT

MPS# 7209 7850 0990
0263

Mstr# 7209 7050 0089 0201

29407
SC-US
CHS

XX CHSA



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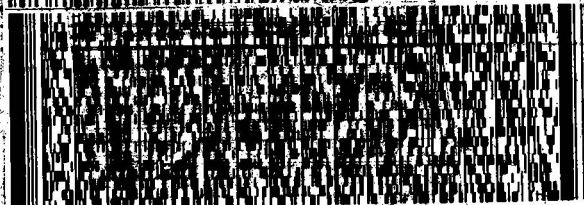
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Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

A The TIC is a suspected aldol-condensation product

B Target analyte was detected in the associated blank

B Metals-Either presence of analyte detected in the associated blank, or
MDL/IDL < sample value < PQL

BD Results are either below the MDC or tracer recovery is low

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

d 5-day BOD-The 2:1 depletion requirement was not met for this sample

E Organics-Concentration of the target analyte exceeds the instrument calibration range

E Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria

H Analytical holding time was exceeded

h Preparation or preservation holding time was exceeded

J Value is estimated

N Metals-The Matrix spike sample recovery is not within specified control limits

N Organics-Presumptive evidence based on mass spectral library search to make a tentative
identification of the analyte (TIC). Quantitation is based on nearest internal standard
response factor

N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration
by 4X or more

ND Analyte concentration is not detected above the reporting limit

UI Gamma Spectroscopy-Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

Z Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1911**

Method/Analysis Information

Procedure: **Definitive Low Level Analysis of Nitroaromatic Explosives Utilizing Liquid Chromatography / Mass Spectrometry / Mass Spectrometry (LC/MS/MS) by SW-846 Method 8321 Modified (8321M)**

Analytical Method: SW846 8321A Modified

Prep Method: SW846 8330 PREP

Analytical Batch Number: 955065

Prep Batch Number: 955064

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
247346001	RE15-10-8246
247346002	RE15-10-8245
247346003	RE15-10-8243
247346004	RE15-10-8244
247346005	RE15-10-8242
247346006	RE15-10-8240
247346007	RE15-10-8241
247346008	RE15-10-8267
1202047529	Method Blank (MB)
1202047530	Laboratory Control Sample (LCS)
1202047531	247327002(WST15-10-8941) Matrix Spike (MS)
1202047532	247327002(WST15-10-8941) Matrix Spike Duplicate (MSD)

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Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-056 REV# 12.

Primary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

All associated calibration verification standard(s) (ICV or CCV) for this analysis met the acceptance criteria.

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS recovered Tetryl at 49.0%. The recovery limits are 51-112%. Since the MS met acceptance limits for Tetryl, method control was achieved. The samples have exceeded twice their hold time; therefore, the data are reported. Please see data exception report 807207.

QC Sample Designation

Client sample 247327002 (WST15-10-8941) from SDG 10-1898 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovered Tetryl at 35.5%. The recovery limits are 36-124%. Since the MS met acceptance limits for Tetryl, method control was achieved. The data are reported. Please see data exception report 807207.

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MS/MSD Relative Percent Difference (RPD) Statement

The MS/MSD RPD for Tetryl was 35.0%. The acceptance limits are 0-30%. Since all other RPD recoveries for this analysis met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported. Please see data exception report 807207.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC in this SDG.

Technical Information

Holding Time Specifications

All samples in this SDG in this analytical batch met the specified holding time. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Samples 247346004(RE15-10-8244), 247346005(RE15-10-8242), 247346006(RE15-10-8240), 247346007(RE15-10-8241), 247346008(RE15-10-8267), 247358001, 247358002, 247358003 and 247358004 were re-analyzed due to bracketing CCV and CRI recoveries that did not meet acceptance criteria. The re-analysis passed acceptance criteria and is reported.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

All associated calibration verification standard(s) (ICV or CCV) for this analysis met the acceptance criteria.

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

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Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Client sample 247327002 (WST15-10-8941) from SDG 10-1898 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS recovered TATB at 276%. The recovery limits are 29-155%. Since the LCS met acceptance limits for TATB, the data are reported. Please see data exception report 807207.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The MS/MSD RPD for TATB was 85.6%. The acceptance limits are 0-30%. Since all other RPD recoveries for this analysis met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported. Please see data exception report 807207.

Internal Standard (ISTD) Acceptance

The internal standards were not added to the secondary analyte extracts.

Technical Information

Holding Time Specifications

All samples in this SDG in this analytical batch met the specified holding time. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception report 807209 was generated for this SDG.

The LCS recovered Tetryl at 49.0%. The recovery limits are 51-112%. Since the MS met acceptance limits for Tetryl, method control was achieved. The samples have exceeded twice their hold time; therefore, the data are reported.

The MS recovered TATB at 276%. The recovery limits are 29-155%. Since the LCS met acceptance limits for TATB, the data are reported.

The MSD recovered Tetryl at 35.5%. The recovery limits are 36-124%. Since the MS met acceptance limits for Tetryl, method control was achieved. The data are reported.

The MS/MSD RPD for Tetryl was 35.0%. The acceptance limits are 0-30%. The MS/MSD RPD for TATB was 85.6%. The acceptance limits are 0-30%. Since all other RPD recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples required manual integrations due to software limitations.

Flagging Convention

The samples were not originally analyzed using SW-846 Method 8330.

Additional Comments

Due to software limitations, all initial calibration blanks must be designated as XIB001 in order for the forms to be correct.

Due to software limitations in the secondary analyte analysis, false positives and analytes detected below the MDL cannot be deleted from the raw data.

Due to software limitations, file extensions such as DL, RE, etc. may not appear on the generated forms and/or raw data.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for primary analyte analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for the primary analyte analysis. The laboratory also utilizes an Agilent 1100 liquid chromatography instrument for either primary or secondary analyte analysis. It is coupled with a Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as either LCMSMS #3 or LCMSMS #4. It is fitted with a APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for both the primary and secondary analyte analysis.

Chromatographic Columns

The detection of the primary analyte nitroaromatic and nitramines is accomplished through analysis on the following reversed phase column:

Phenomenex: Ultracarb 5u ODS (20), 250 x 4.60 mm ID.

The detection of the secondary analytes is accomplished through analysis on the following reversed phase column:

YMC: J'sphere ODS-H80, 150 x 4.6mm I.D.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Herbert K. Moore Date: 03/25/10

SAMPLE DATA SUMMARY

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8246

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346001

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314085a

Date Analyzed: 16-MAR-10 08:16

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8246

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346001

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050103.wiff

Date Analyzed: 06-MAR-10 19:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8245

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346002

Sample Amount 2

Moisture: 1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314086a

Date Analyzed: 16-MAR-10 08:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		<u>Sample Amount</u>		Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8245

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346002

Sample Amount 2

Moisture: 1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050104.wiff

Date Analyzed: 06-MAR-10 20:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8243

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314087a

Date Analyzed: 16-MAR-10 09:15

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8243

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050105.wiff

Date Analyzed: 06-MAR-10 20:20

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8244

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346004

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319013a

Date Analyzed: 19-MAR-10 22:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8244

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346004

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050109.wiff

Date Analyzed: 06-MAR-10 21:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8242

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346005

Sample Amount 2

Moisture: 1.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319014a

Date Analyzed: 19-MAR-10 23:17

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8242

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346005

Sample Amount 2

Moisture: 1.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050110.wiff

Date Analyzed: 06-MAR-10 21:39

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8240

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319015a

Date Analyzed: 19-MAR-10 23:47

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8240

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050111.wiff

Date Analyzed: 06-MAR-10 21:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		Sample Amount		Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8241

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319016a

Date Analyzed: 20-MAR-10 00:16

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8241

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050112.wiff

Date Analyzed: 06-MAR-10 22:10

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8267

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346008

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319017a

Date Analyzed: 20-MAR-10 00:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8267

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346008

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050113.wiff

Date Analyzed: 06-MAR-10 22:26

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247346001	RE15-10-8246	100	70 - 144	
247346001	RE15-10-8246	98.8	70 - 144	
247346002	RE15-10-8245	103	70 - 144	
247346002	RE15-10-8245	108	70 - 144	
247346003	RE15-10-8243	109	70 - 144	
247346003	RE15-10-8243	104	70 - 144	
247346004	RE15-10-8244	82.9	70 - 144	
247346004	RE15-10-8244	96.8	70 - 144	
247346005	RE15-10-8242	92.5	70 - 144	
247346005	RE15-10-8242	98.8	70 - 144	
247346006	RE15-10-8240	105	70 - 144	
247346006	RE15-10-8240	104	70 - 144	
247346007	RE15-10-8241	94.6	70 - 144	
247346007	RE15-10-8241	102	70 - 144	
247346008	RE15-10-8267	93.2	70 - 144	
247346008	RE15-10-8267	102	70 - 144	
1202047529	MB for batch 955064	98.6	70 - 144	
1202047529	MB for batch 955064	96.8	70 - 144	
1202047530	LCS for batch 955064	101	70 - 144	
1202047530	LCS for batch 955064	94.4	70 - 144	

DNT = 3,4-Dinitrotoluene

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1911

Extract Batch Code: 955064

Date Extracted: 24-FEB-10

GEL LCS ID: 1202047530

GEL LCSDUP ID:

Analysis Date/Time: 16-MAR-10 05:19

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
1,3,5-Trinitrobenzene	5000	3920	78.4					69 – 126
2,4,6-Trinitrotoluene	5000	4760	95.2					73 – 149
2,4-Dinitrotoluene	5000	5540	111					87 – 137
2,6-Dinitrotoluene	5000	4980	99.6					89 – 120
2-Amino-4,6-dinitrotoluene	5000	5160	103					90 – 130
4-Amino-2,6-dinitrotoluene	5000	4850	97					84 – 130
HMX	5000	4520	90.4					58 – 138
Nitrobenzene	5000	4500	90					71 – 122
PETN	5000	5360	107					64 – 137
RDX	5000	4870	97.4					81 – 137
Tetryl	5000	2450	49 *					51 – 112
m-Dinitrobenzene	5000	4500	90					83 – 122
m-Nitrotoluene	5000	5040	101					73 – 118
o-Nitrotoluene	5000	4860	97.2					72 – 119
p-Nitrotoluene	5000	4970	99.4					67 – 131

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1911

Extract Batch Code: 955064

Date Extracted: 24-FEB-10

GEL LCS ID: 1202047530

GEL LCSDUP ID:

Analysis Date/Time: 06-MAR-10 18:46

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
2,4-Diamino-6-nitrotoluene	5000	4450	89					52 - 114
2,6-Diamino-4-nitrotoluene	5000	4810	96.2					64 - 122
3,5-Dinitroaniline	5000	5060	101					70 - 127
tris(o-cresyl) phosphate	5000	5210	104					84 - 119
TATB	5000	5220	104					28 - 162

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: WST15-10-8941

Lab Code: GEL

GEL Job No (SDG) 10-1911

Extract Batch Code: 955064

Date Extracted: 24-FEB-10

GEL Spike ID: 1202047531

GEL SpikeDup ID: 1202047532

Analysis Date/Time: 16-MAR-10 06:48

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
1,3,5-Trinitrobenzene	5000	0	4420	88.4	4420	88.3	.09	30	50 – 140
2,4,6-Trinitrotoluene	5000	0	5700	114	4680	93.7	19.6	30	76 – 144
2,4-Dinitrotoluene	5000	0	4890	97.8	5320	106	8.34	30	86 – 135
2,6-Dinitrotoluene	5000	0	4850	97	4830	96.7	.35	30	90 – 118
2-Amino-4,6-dinitrotoluene	5000	0	5990	120	5200	104	14.1	30	85 – 137
4-Amino-2,6-dinitrotoluene	5000	0	5330	107	4830	96.6	9.86	30	72 – 143
HMX	5000	228	5810	112	5490	105	5.7	30	51 – 144
Nitrobenzene	5000	0	4740	94.7	4770	95.4	.672	30	70 – 122
PETN	5000	0	5150	103	5600	112	8.38	30	60 – 140
RDX	5000	0	5260	105	5990	120	13	30	59 – 152
Tetryl	5000	0	2530	50.5	1770	35.5 *	35 *	30	36 – 124
m-Dinitrobenzene	5000	0	4720	94.4	4510	90.1	4.66	30	85 – 118
m-Nitrotoluene	5000	0	4250	85.1	4010	80.2	5.87	30	70 – 120
o-Nitrotoluene	5000	0	4160	83.1	4060	81.2	2.29	30	69 – 123
p-Nitrotoluene	5000	0	3900	78	3990	79.7	2.18	30	65 – 133

#Column to be used to flag recovery and RPD values with an asterisk

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: WST15-10-8941

Lab Code: GEL

GEL Job No (SDG) 10-1911

Extract Batch Code: 955064

Date Extracted: 24-FEB-10

GEL Spike ID: 1202047531

GEL SpikeDup ID: 1202047532

Analysis Date/Time: 06-MAR-10 19:17

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
2,4-Diamino-6-nitrotoluene	5000	0	3390	67.8	3310	66.2	2.39	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	4430	88.6	4440	88.8	.225	30	55 - 130
3,5-Dinitroaniline	5000	0	5100	102	5430	109	6.27	30	73 - 129
tris(o-cresyl) phosphate	5000	0	5110	102	5160	103	.974	30	72 - 127
TATB	5000	0	13800	276 *	5530	111	85.6 *	30	29 - 155

#Column to be used to flag recovery and RPD values with an asterisk

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 14-MAR-10 14:59

GEL Data File: EXP0314001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	427.53
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	451.034
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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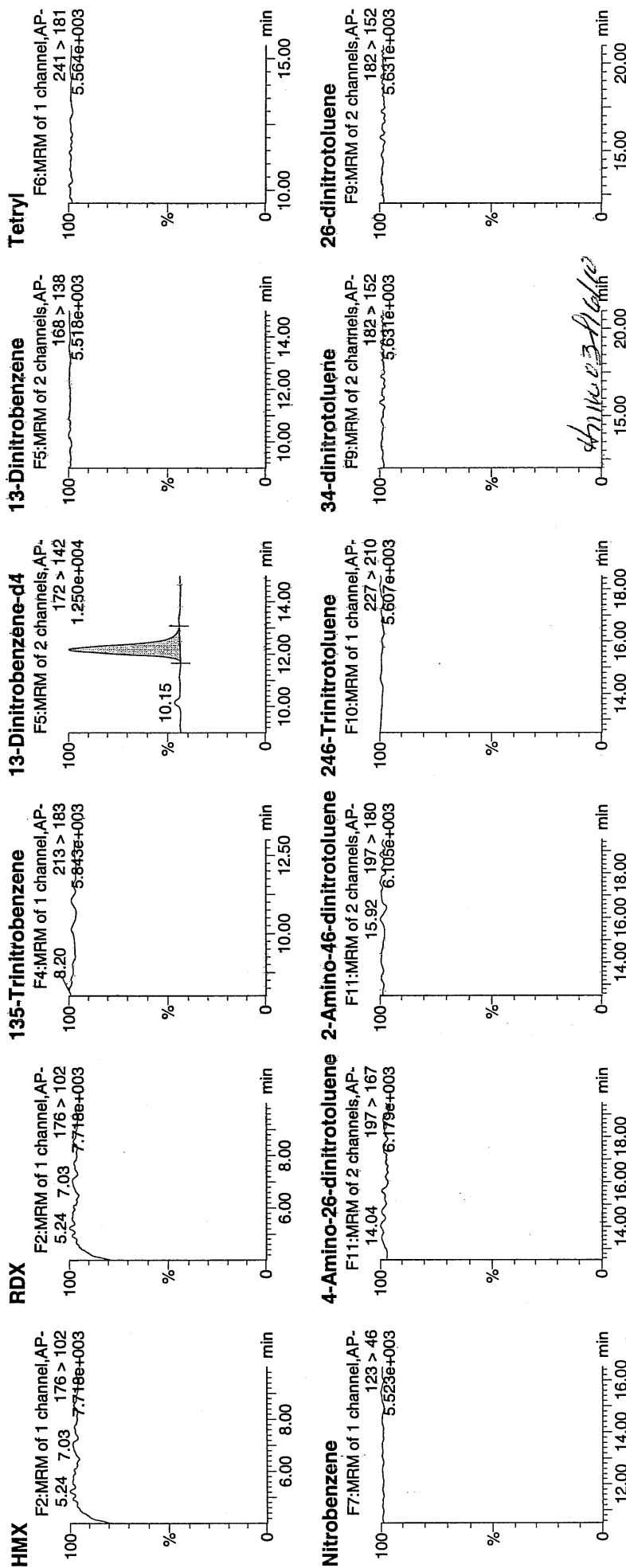
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Date: 14-Mar-2010

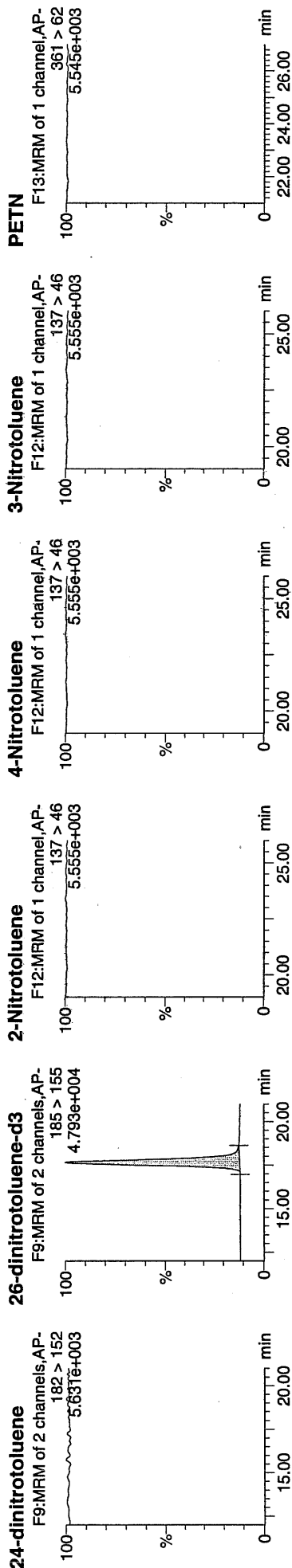
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ID: XIBLK01

Vial: 1:1,A



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D	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Req	%Dev	S/N
XIBLK01	HMX	176 > 102		2876.799										
XIBLK01	RDX	176 > 102		2876.799										
XIBLK01	135-Trinitrobenzene	213 > 183		2876.799										
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.17	2876.799										
XIBLK01	13-Dinitrobenzene	168 > 138		2876.799										
XIBLK01	Tetryl	241 > 181		2876.799										
XIBLK01	Nitrobenzene	123 > 46		2876.799										
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167		17189.488										
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180		17189.488										
XIBLK01	246-Trinitrotoluene	227 > 210		17189.488										
XIBLK01	34-dinitrotoluene	182 > 152		17189.488										
XIBLK01	26-dinitrotoluene	182 > 152		17189.488										
XIBLK01	24-dinitrotoluene	182 > 152		17189.488										
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.64	17189.488										
XIBLK01	2-Nitrotoluene	137 > 46		17189.488										
XIBLK01	4-Nitrotoluene	137 > 46		17189.488										
XIBLK01	3-Nitrotoluene	137 > 46		17189.488										
XIBLK01	PETN	361 > 62		17189.488										
						2876.799	2876.799	bb			427.5299	85.5	-14.5	57.7
						17189.488	17189.488	bb			451.0341	90.2	-9.8	926.4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 14-MAR-10 15:28

GEL Data File: EXP0314002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	459.668
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	439.79

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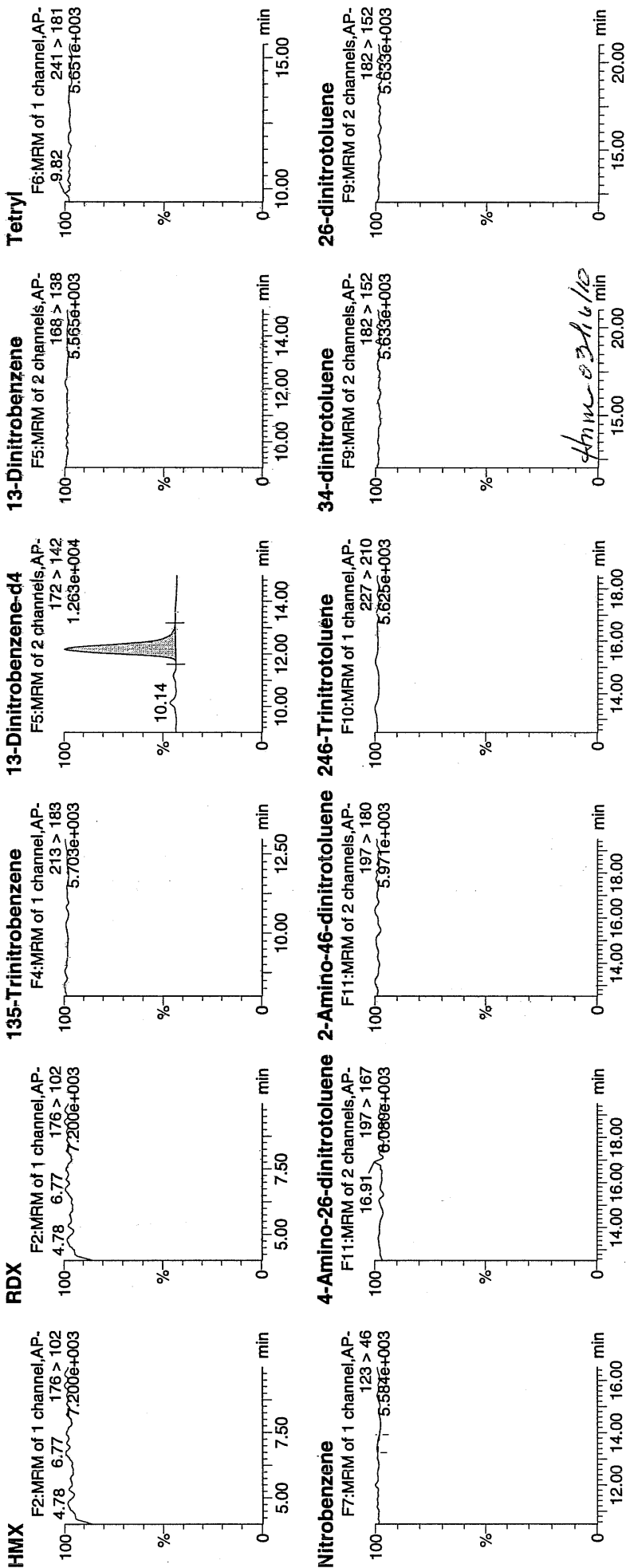
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Vial: 1:1,A

MR
3/15/10



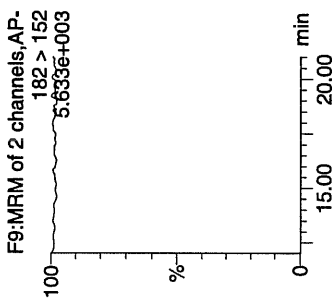
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

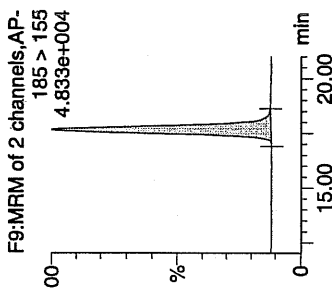
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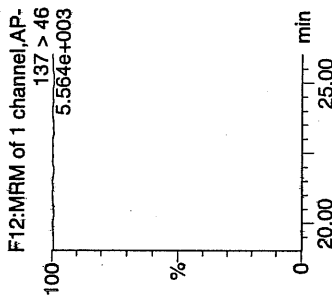
24-dinitrotoluene



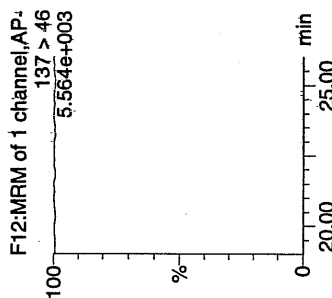
26-dinitrotoluene-d3



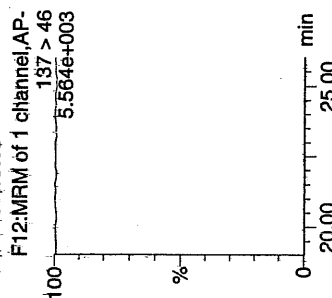
2-Nitrotoluene



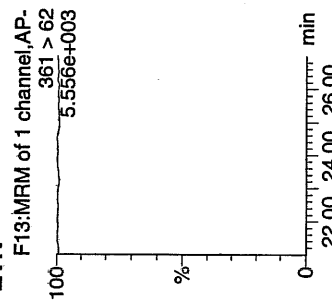
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK01	HMX	176 > 102			2959.295									
XIBLK01	RDX	176 > 102			2959.295									
XIBLK01	135-Trinitrobenzene	213 > 183			2959.295									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.18	2959.295										
XIBLK01	13-Dinitrobenzene	168 > 138			2959.295									
XIBLK01	Tetryl	241 > 181			2959.295									
XIBLK01	Nitrobenzene	123 > 46			2959.295									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			2959.295									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			17518.529									
XIBLK01	246-Trinitrotoluene	227 > 210			17518.529									
XIBLK01	34-dinitrotoluene	182 > 152			17518.529									
XIBLK01	26-dinitrotoluene	182 > 152			17518.529									
XIBLK01	24-dinitrotoluene	182 > 152			17518.529									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.66	17518.529										
XIBLK01	2-Nitrotoluene	137 > 46			17518.529									
XIBLK01	4-Nitrotoluene	137 > 46			17518.529									
XIBLK01	3-Nitrotoluene	137 > 46			17518.529									
XIBLK01	PETN	361 > 62			17518.529									
						2959.295	2959.295	bb			439.7899	88.0	-12.0	244.4
						17518.529	17518.529	bb			459.6677	91.9	-8.1	1474.8
									MM-	15-Mar-10	10:05:45			

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 19-MAR-10 16:54

GEL Data File: EXP0319001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	423.048
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	475.815
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Mar 20 11:06:08 2010, Page 1 of 73

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\031910expa.mdb, Time: Sat Mar 20 10:50:15 2010
Calibration: Untitled, Time: Sat Mar 20 11:05:24 2010

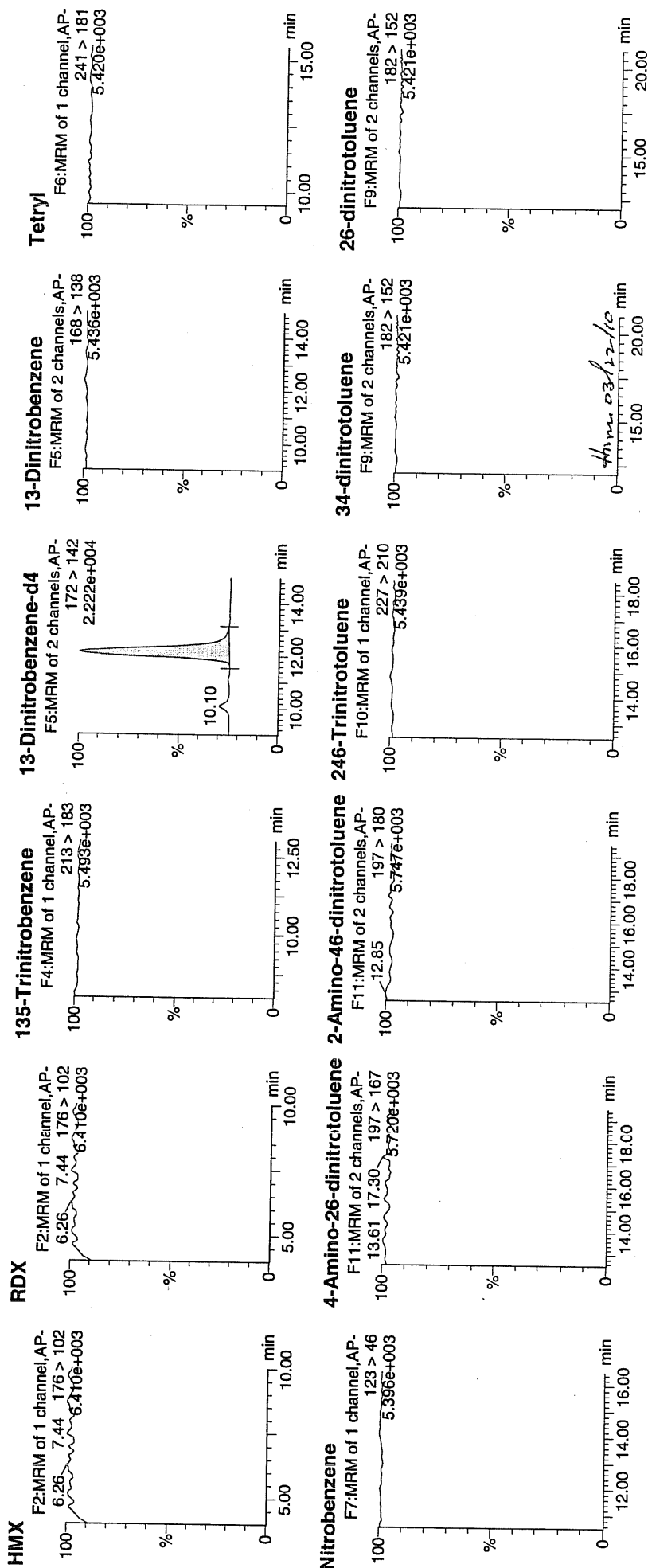
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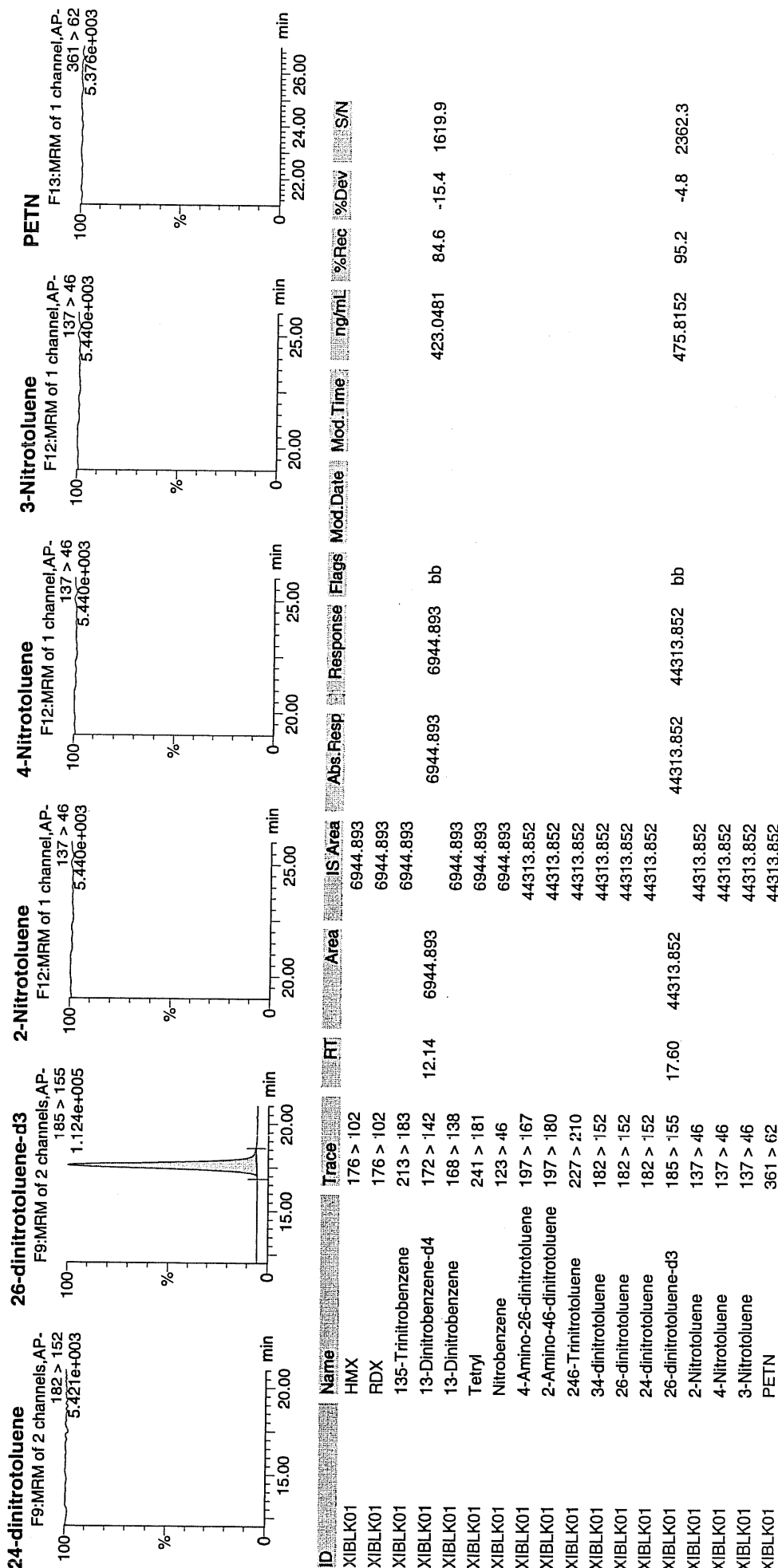
Date: 19-Mar-2010

Time: 16:54:21

ID: XIBLK01

Vial: 1:1,A





Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 19-MAR-10 17:23

GEL Data File: EXP0319002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	530.201
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	529.637
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319002a

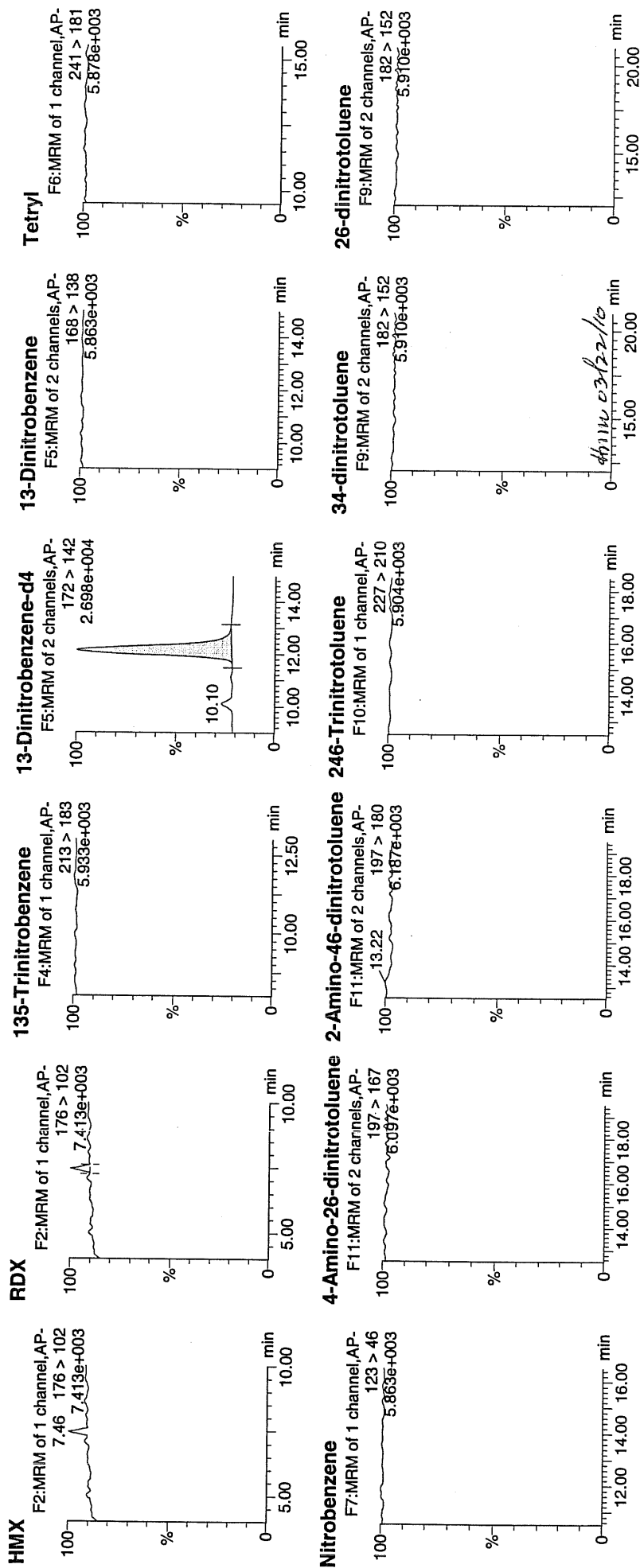
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Time: 17:23:49

ID: XIBLK01

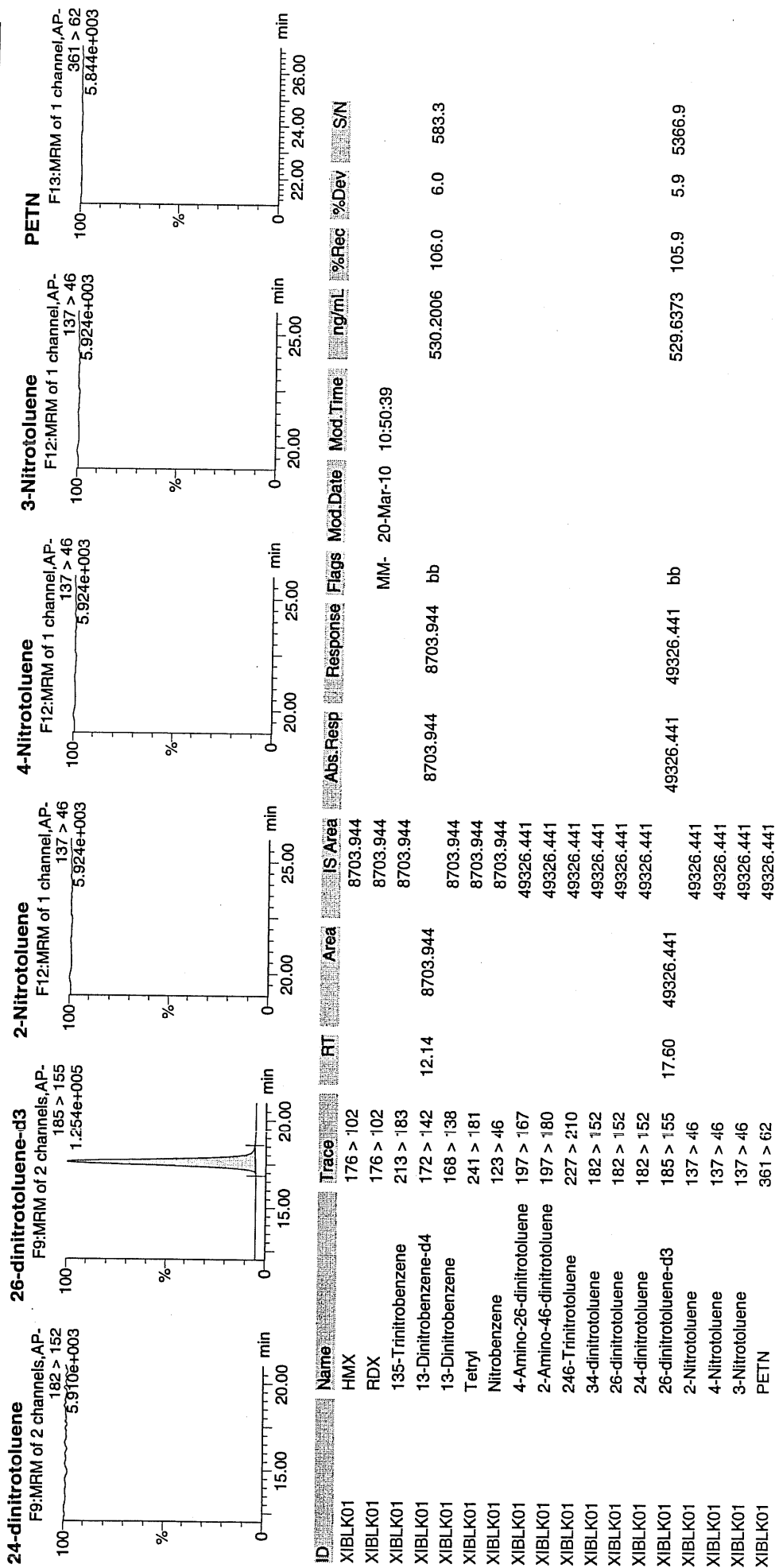
Vial: 1:1,A

MM
3/22/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 05-MAR-10 17:07

GEL Data File: EXS03050001.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

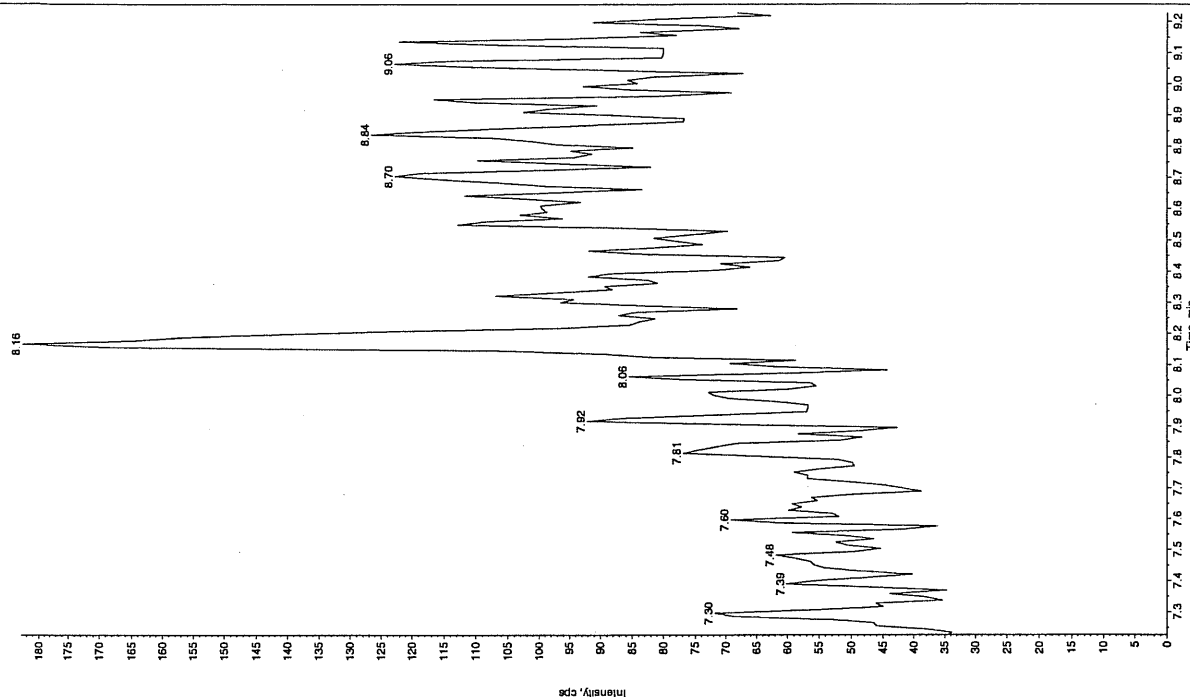
Jan 31/10

Sample Name: "XIBLK01" Sample ID: "111LER" File: "EXS03050001.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 5:07:39 PM
 Modified: No



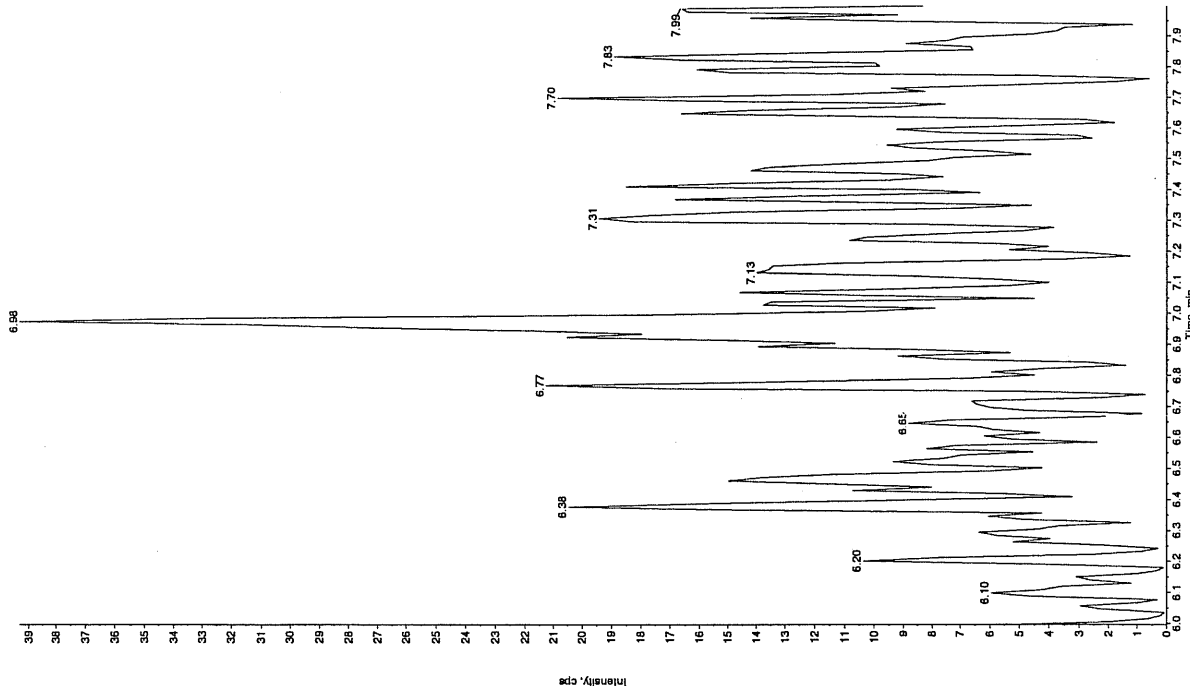
4mw 03/09/10

Sample Name: "XIBLK01" Sample ID: "111LER" File: "EXS03050001.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "

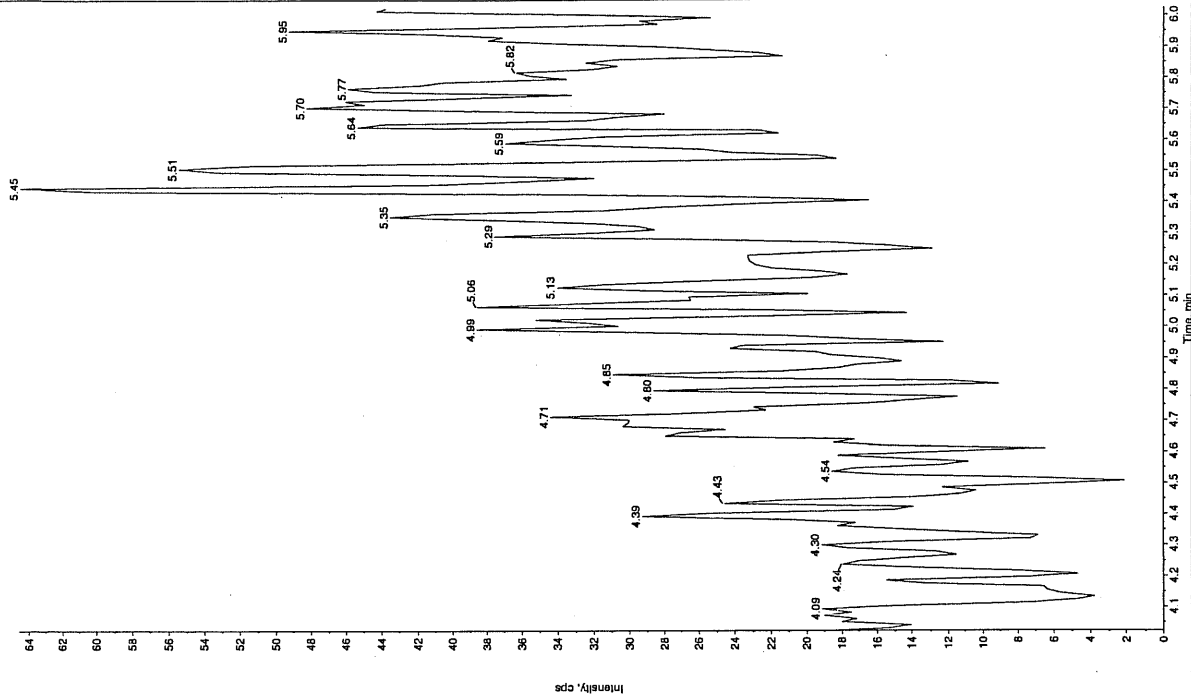
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 5:07:39 PM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

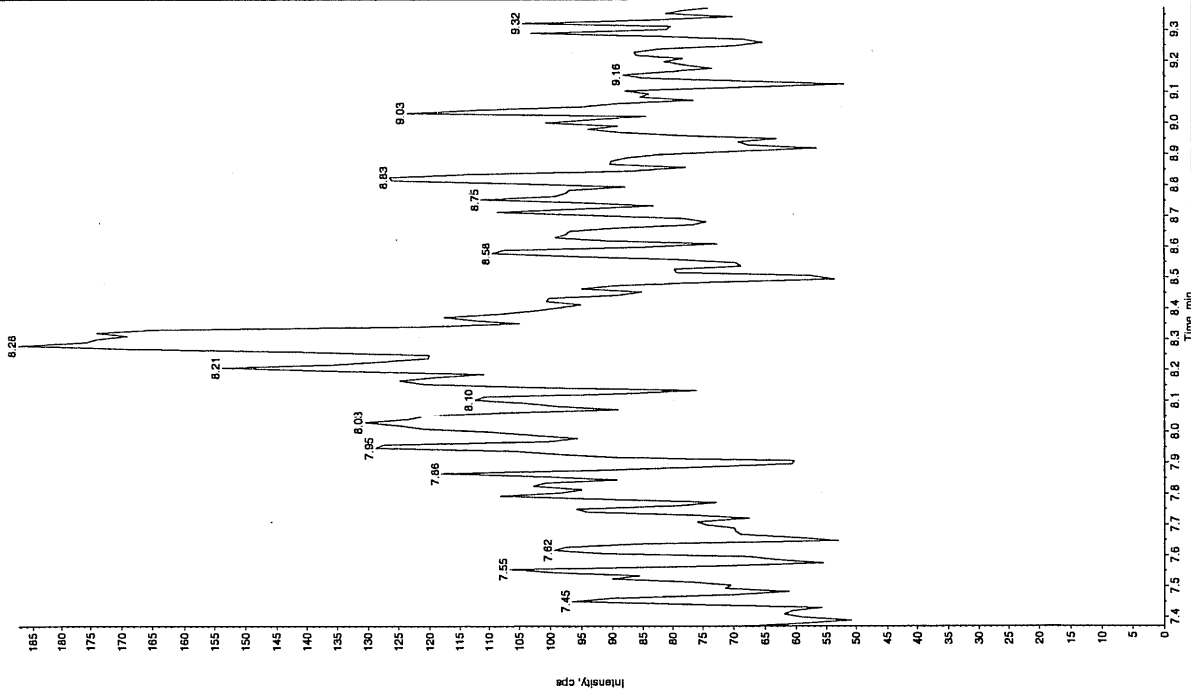
Sample Name: "XIBLK01" Sample ID: "JILR" File: "EXS03050001.wif"
 Peak Name: "28-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

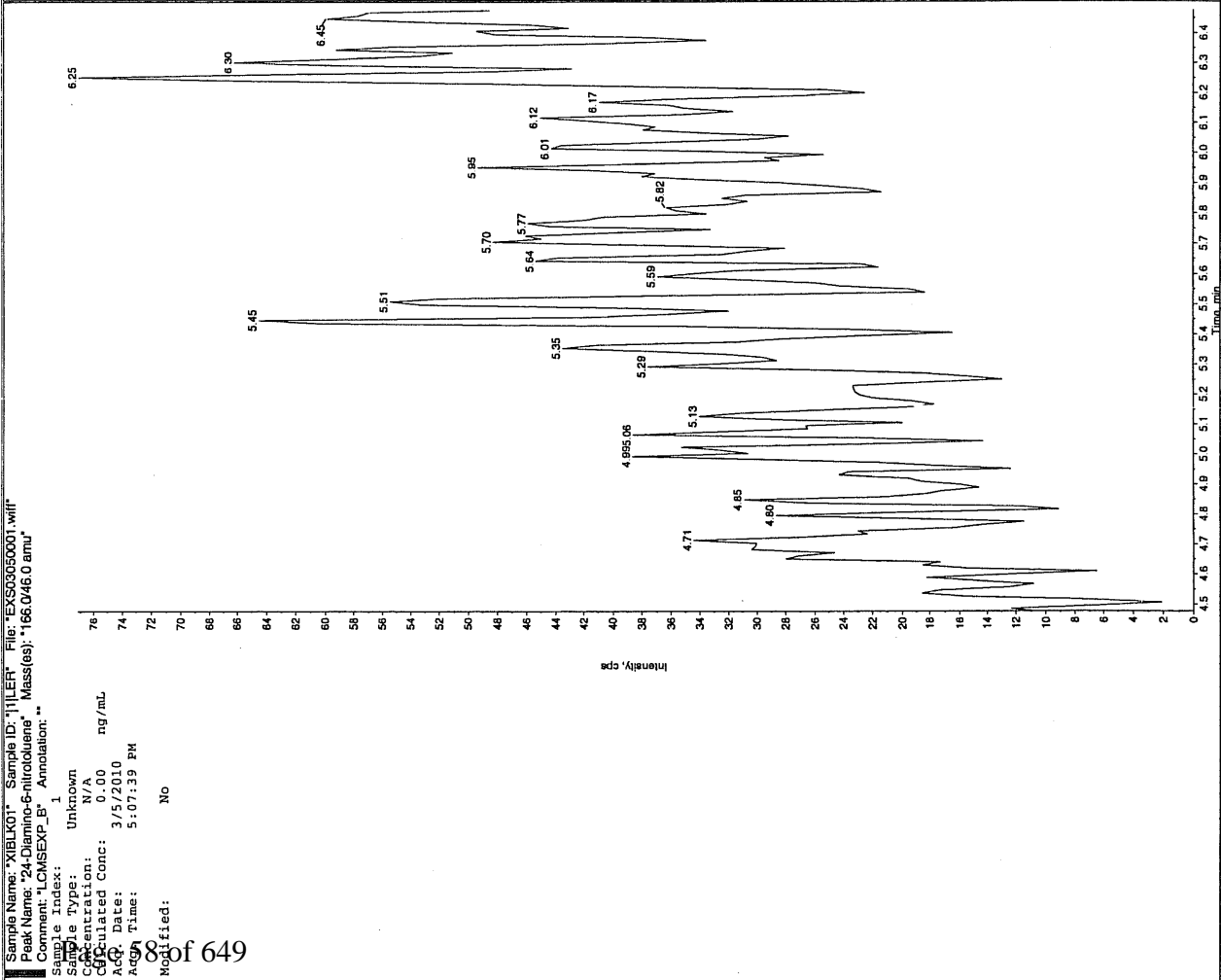
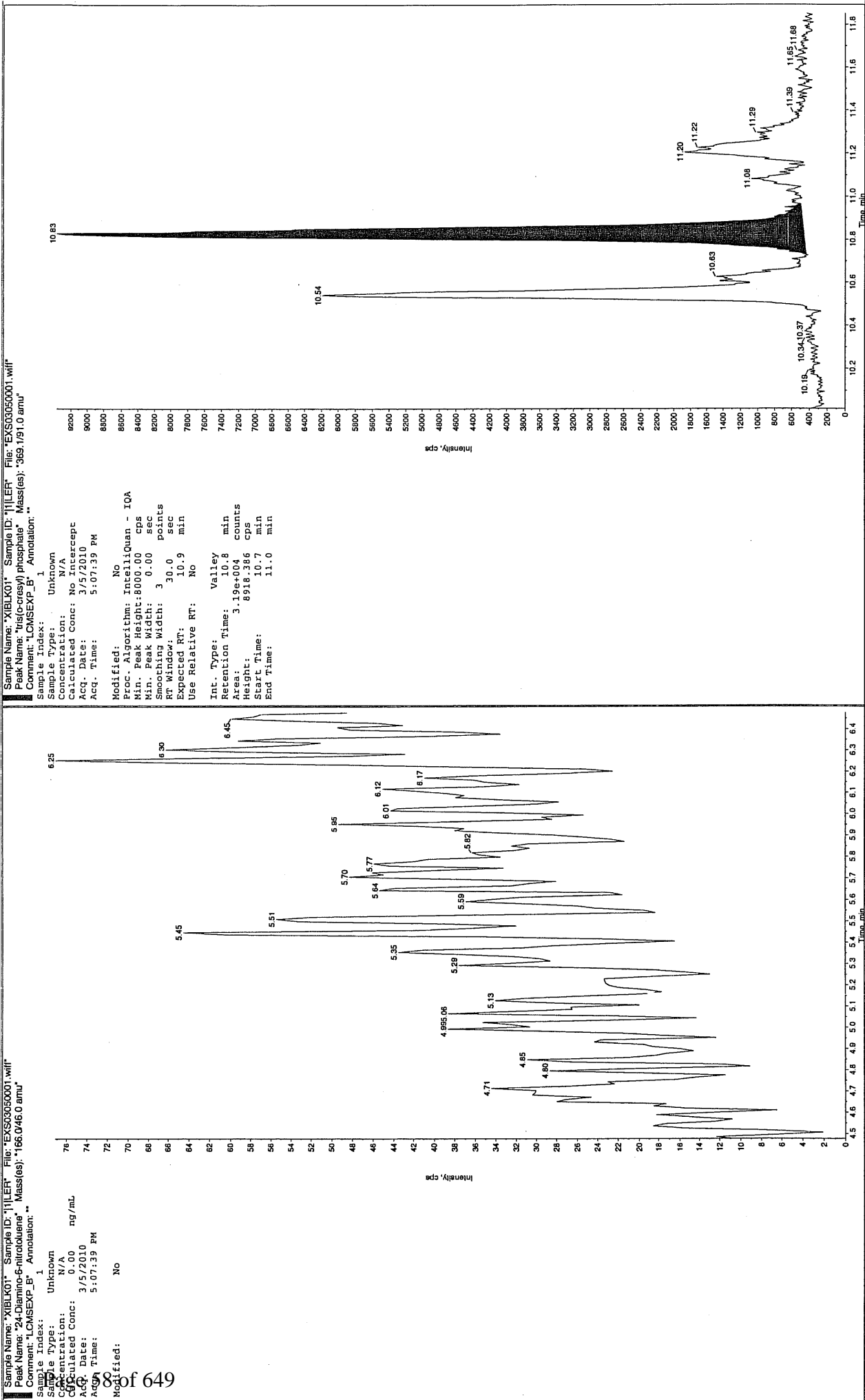
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 5:07:39 PM
 Modified: No



Sample Name: "XIBLK01" Sample ID: "JILR" File: "EXS03050001.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 5:07:39 PM
 Modified: No





Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 05-MAR-10 17:23

GEL Data File: EXS03050002.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/10

Sample Name: "XIBLK01" Sample ID: "111ER" File: "EXS03050002.will"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

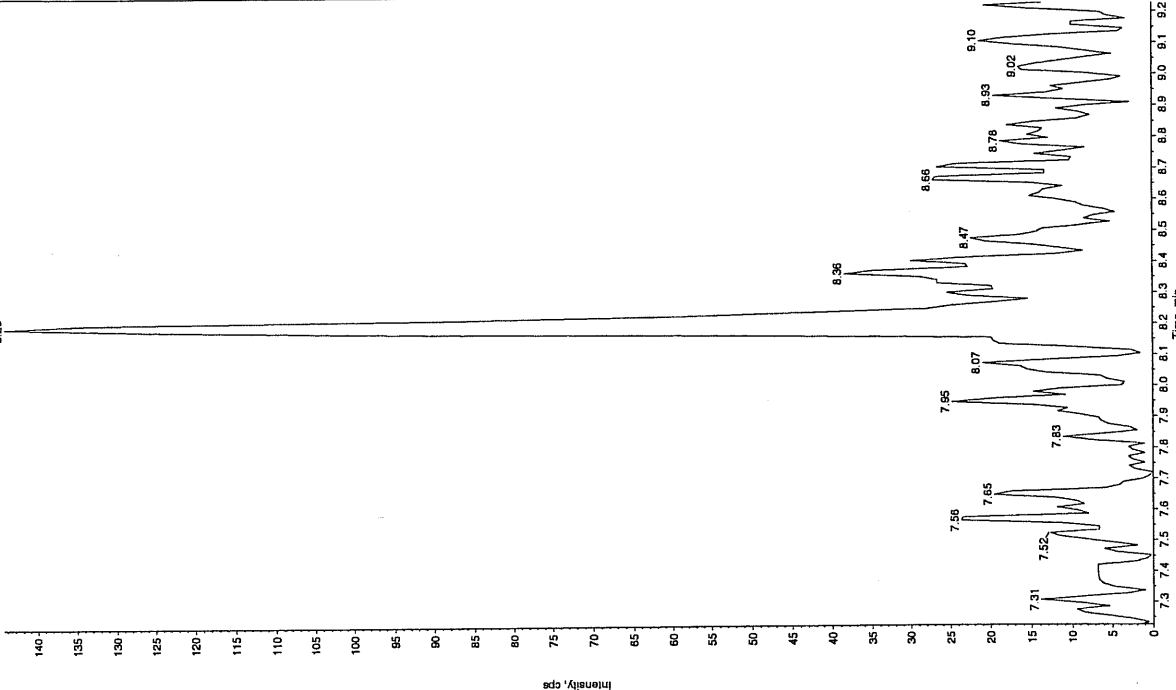
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/5/2010

Acq. Time: 5:23:26 PM

Modified: No



4m2329/10

Sample Name: "XIBLK01" Sample ID: "111ER" File: "EXS03050002.will"

Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

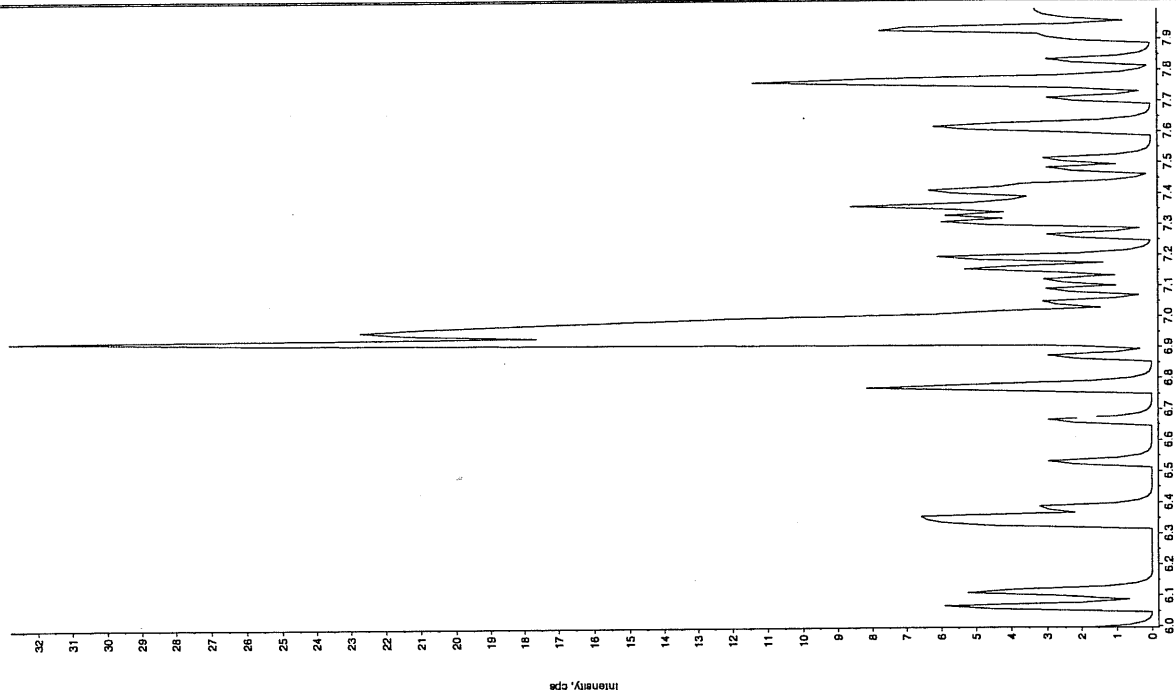
Concentration: N/A

Calculated Conc: 0.00 ng/mL

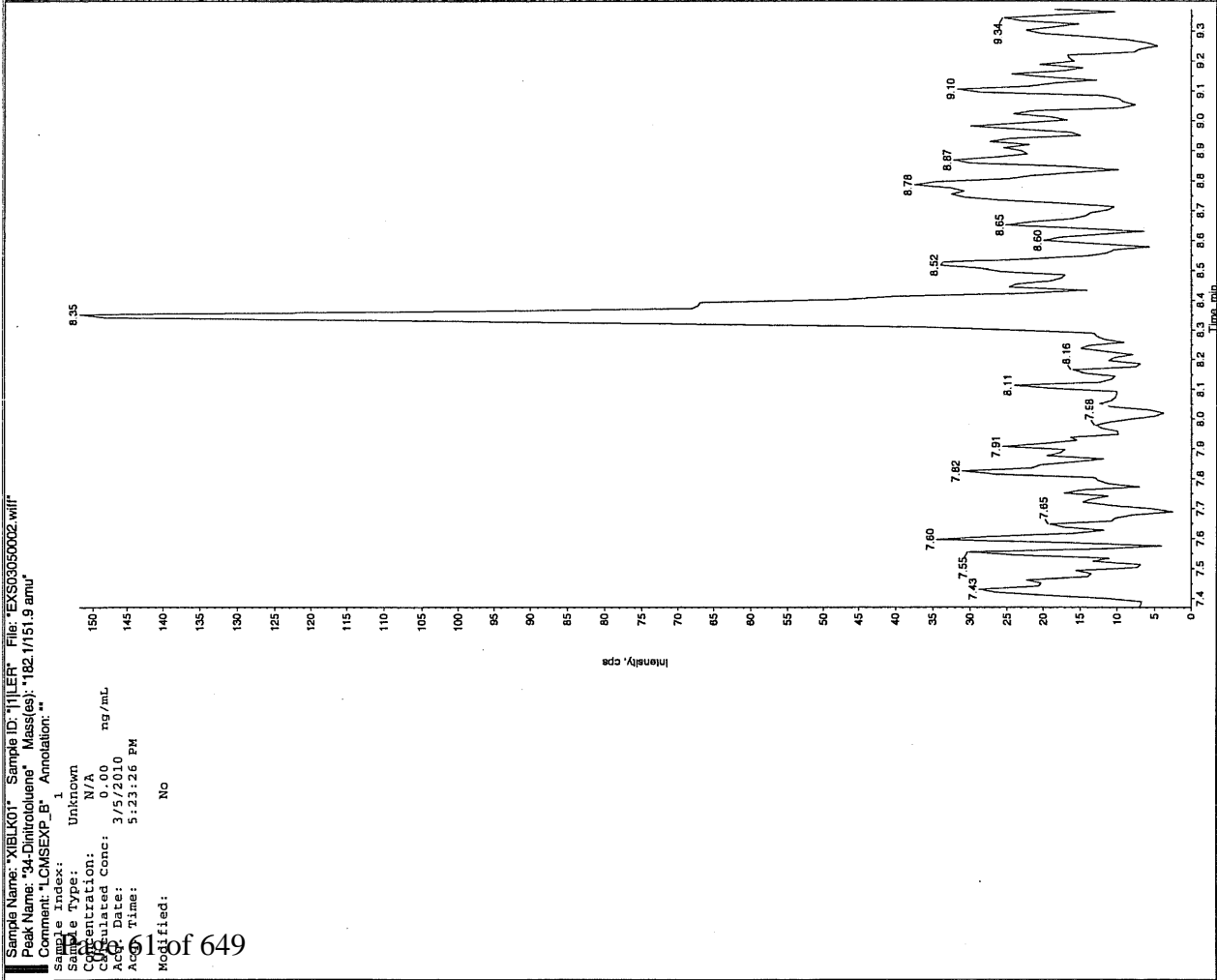
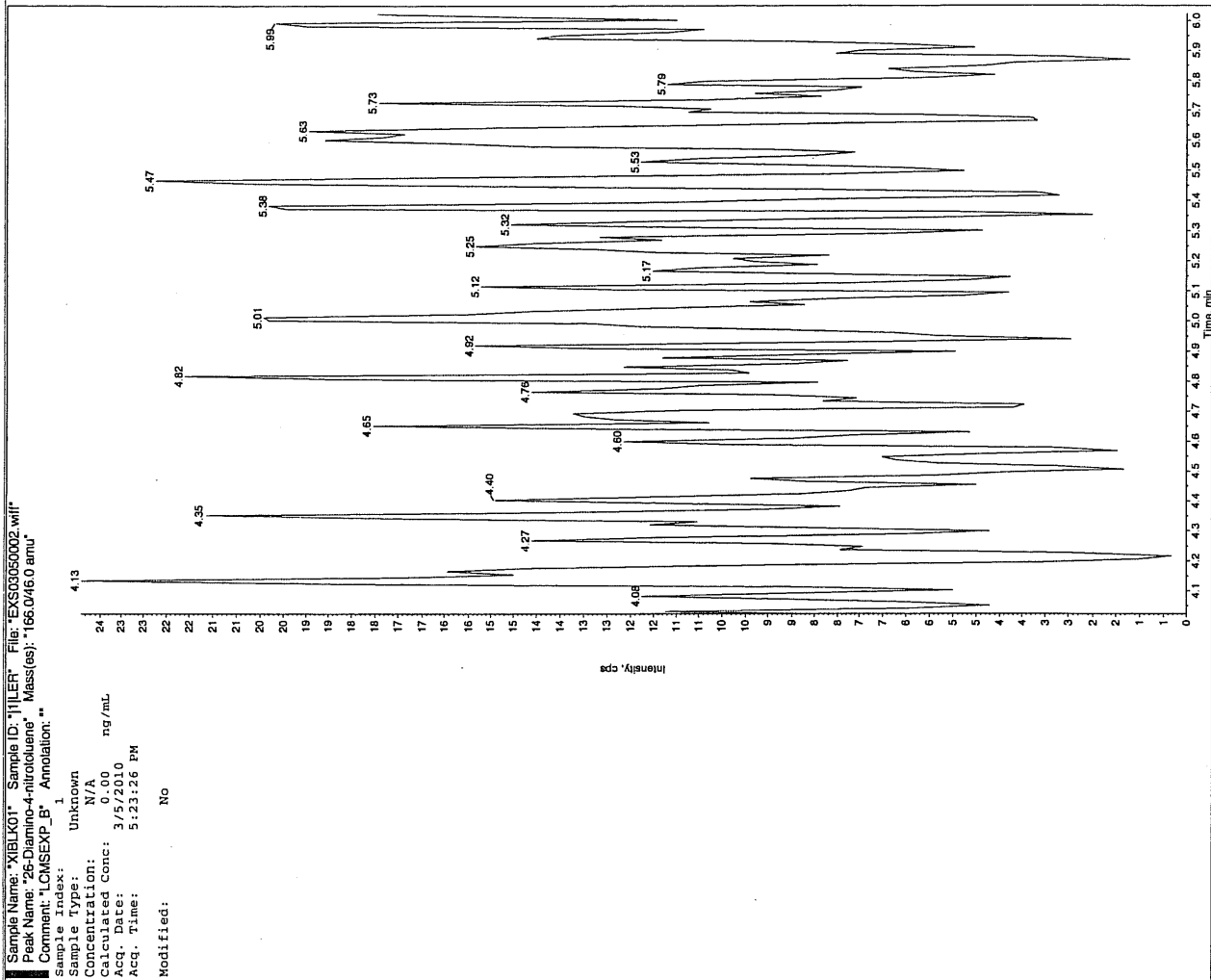
Acq. Date: 3/5/2010

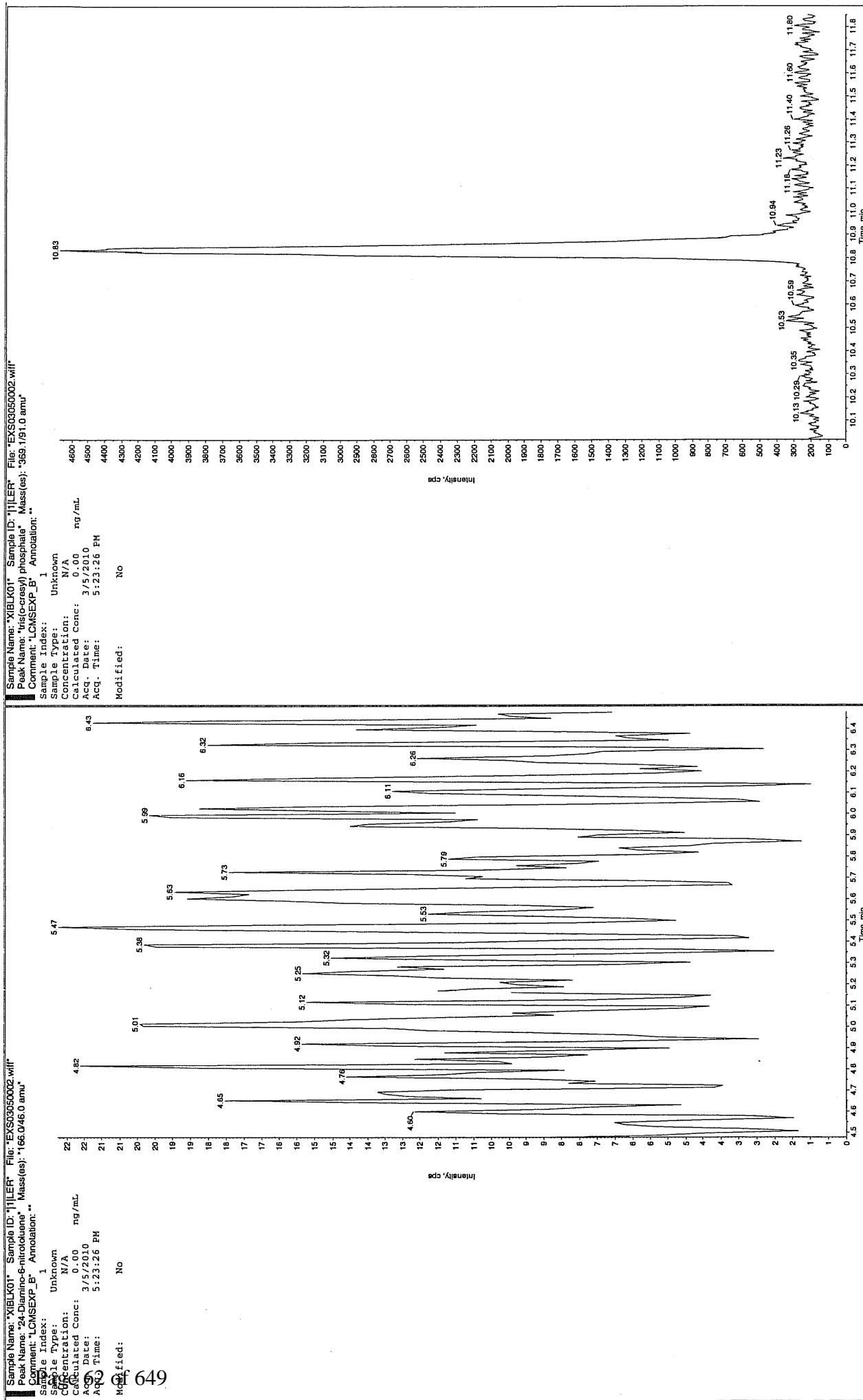
Acq. Time: 5:23:26 PM

Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 14-MAR-10 18:54

GEL Data File: EXP0314009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	430.467
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	459.165
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314009a

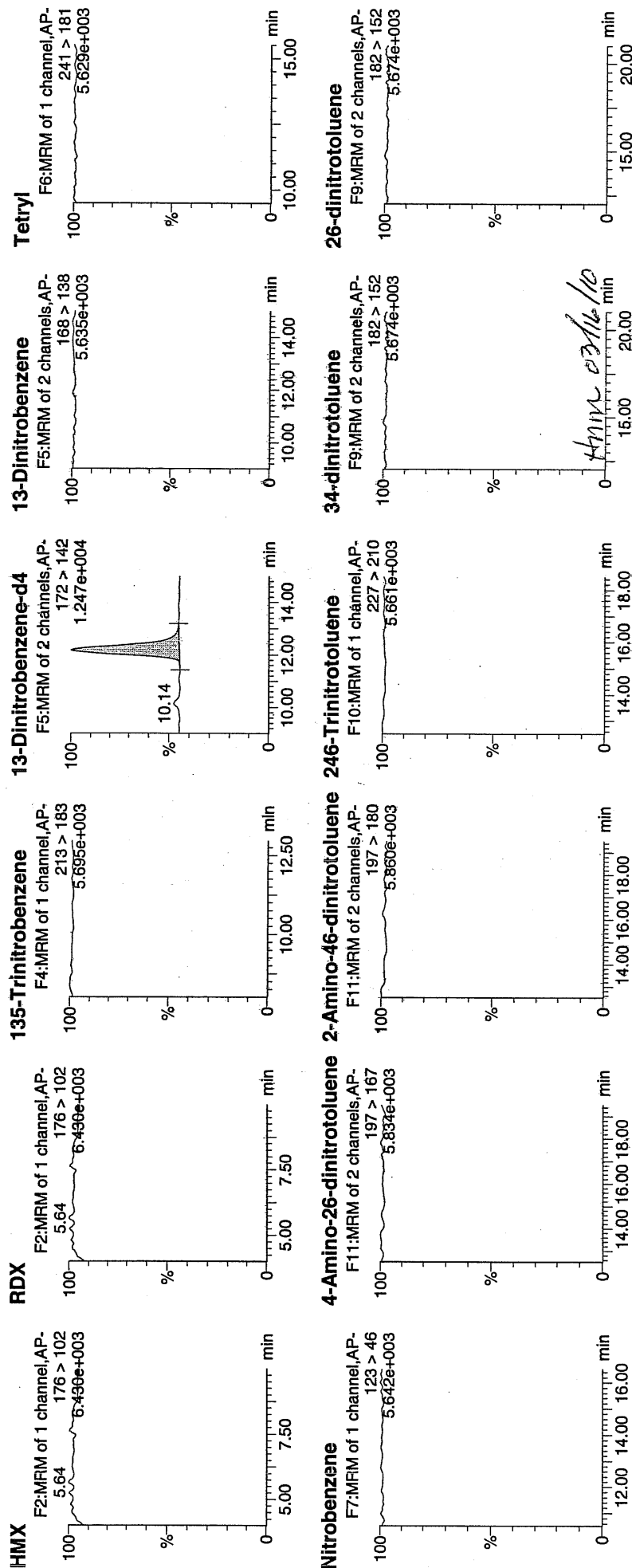
Date: 14-Mar-2010

Time: 18:54:49

ID: XIBLK02

Vial: 1:1,A

WAT
3/15/10

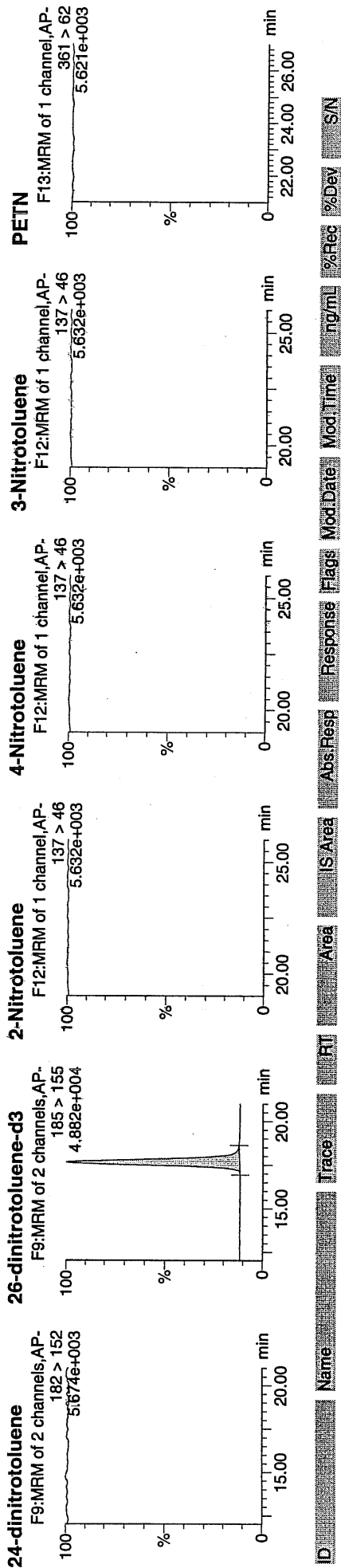


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flag	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK02	HMX	176 > 102			2896.564									
XIBLK02	RDX	176 > 102			2896.564									
XIBLK02	135-Trinitrobenzene	213 > 183			2896.564									
XIBLK02	13-Dinitrobenzene-d4	172 > 142	12.18	2896.564				bb			430.4672	86.1	-13.9	128.8
XIBLK02	13-Dinitrobenzene	168 > 138			2896.564									
XIBLK02	Tetryl	241 > 181			2896.564									
XIBLK02	Nitrobenzene	123 > 46			2896.564									
XIBLK02	4-Amino-26-dinitrotoluene	197 > 167			17499.357									
XIBLK02	2-Amino-46-dinitrotoluene	197 > 180			17499.357									
XIBLK02	246-Trinitrotoluene	227 > 210			17499.357									
XIBLK02	34-dinitrotoluene	182 > 152			17499.357									
XIBLK02	26-dinitrotoluene	182 > 152			17499.357									
XIBLK02	24-dinitrotoluene	182 > 152			17499.357									
XIBLK02	26-dinitrotoluene-d3	185 > 155	17.64	17499.357					MM- 15-Mar-10	10:12:59				
XIBLK02	2-Nitrotoluene	137 > 46			17499.357						459.1647	91.8	-8.2	1234.5
XIBLK02	4-Nitrotoluene	137 > 46			17499.357									
XIBLK02	3-Nitrotoluene	137 > 46			17499.357									
XIBLK02	PETN	361 > 62			17499.357									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 14-MAR-10 19:53

GEL Data File: EXP0314011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	441.78
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	488.086
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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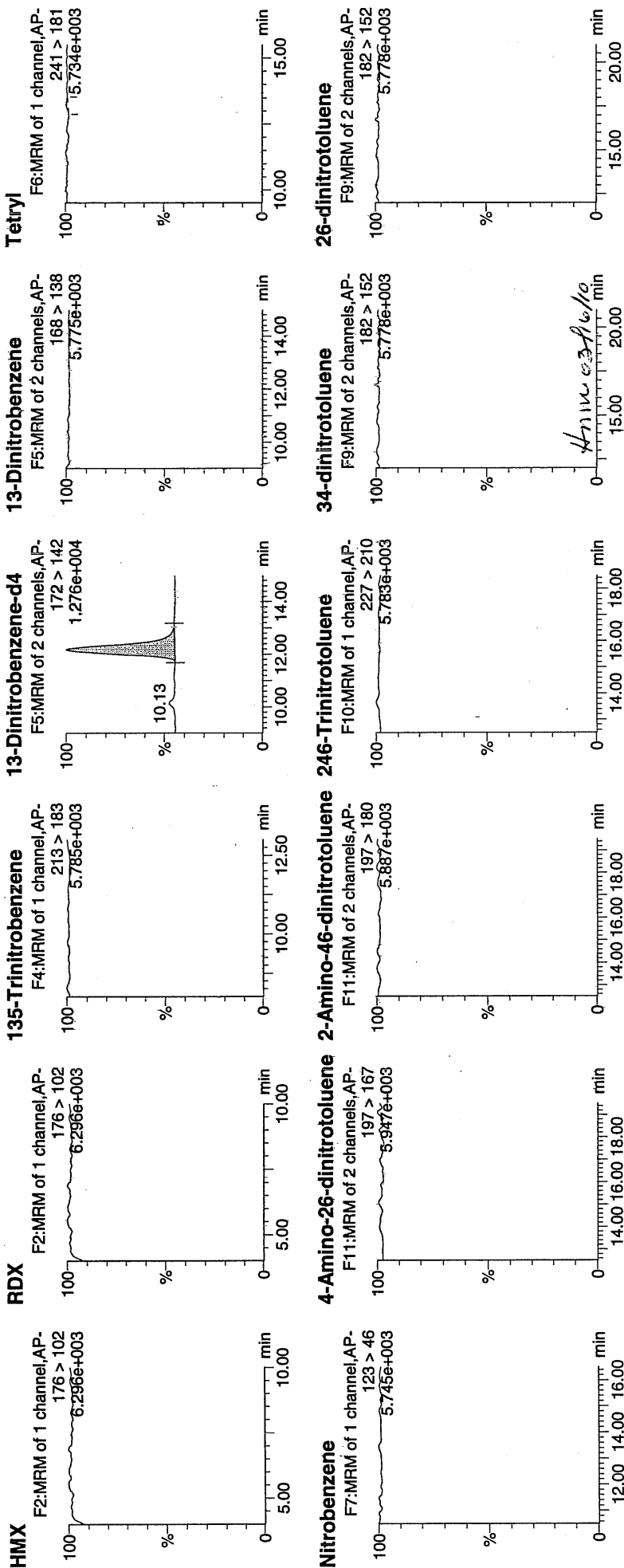
Date: 14-Mar-2010

Time: 19:53:46

ID: XIBLK03

Vial: 1:1,A

MTT
3/16/10



Quantify Sample Report

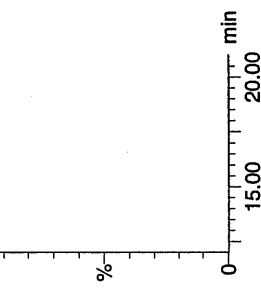
GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 22 of 77

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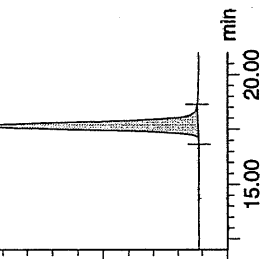
24-dinitrotoluene

F9:MIRM of 2 channels,AP-
182 > 152
5.778e+003



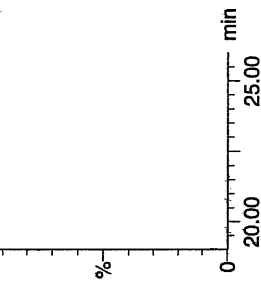
26-dinitrotoluene-d3

F9:MIRM of 2 channels,AP-
185 > 155
5.075e+004



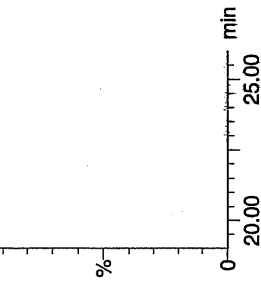
2-Nitrotoluene

F12:MIRM of 1 channel,AP-
137 > 46
5.757e+003



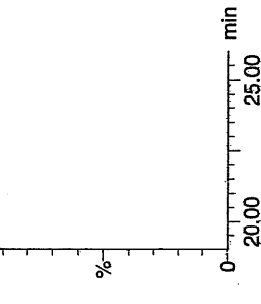
4-Nitrotoluene

F12:MIRM of 1 channel,AP-
137 > 46
5.757e+003



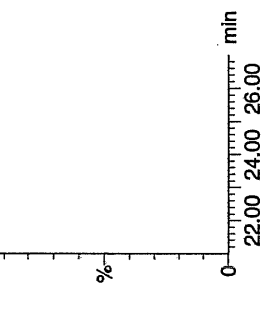
3-Nitrotoluene

F12:MIRM of 1 channel,AP-
137 > 46
5.757e+003



PETN

F13:MIRM of 1 channel,AP-
361 > 62
5.737e+003



ID	Name	Trace	RT	Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK03	HMX	176 > 102		2972.687									
XIBLK03	RDX	176 > 102		2972.687									
XIBLK03	135-Trinitrobenzene	213 > 183		2972.687									
XIBLK03	13-Dinitrobenzene-d4	172 > 142	12.17	2972.687		2972.687	bb			441.7801	88.4	-11.6	597.8
XIBLK03	13-Dinitrobenzene	168 > 138											
XIBLK03	Tetryl	241 > 181											
XIBLK03	Nitrobenzene	123 > 46											
XIBLK03	4-Amino-26-dinitrotoluene	197 > 167											
XIBLK03	2-Amino-46-dinitrotoluene	197 > 180											
XIBLK03	246-Trinitrotoluene	227 > 210											
XIBLK03	34-dinitrotoluene	182 > 152											
XIBLK03	26-dinitrotoluene	182 > 152											
XIBLK03	24-dinitrotoluene	182 > 152											
XIBLK03	26-dinitrotoluene-d3	185 > 155	17.66	18601.584		18601.584	bb			488.0860	97.6	-2.4	1451.3
XIBLK03	2-Nitrotoluene	137 > 46		18601.584									
XIBLK03	4-Nitrotoluene	137 > 46		18601.584									
XIBLK03	3-Nitrotoluene	137 > 46		18601.584									
XIBLK03	PETN	361 > 62		18601.584									

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 15-MAR-10 02:17

GEL Data File: EXP0314024a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	524.66
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	519.294

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314024a

Date: 15-Mar-2010

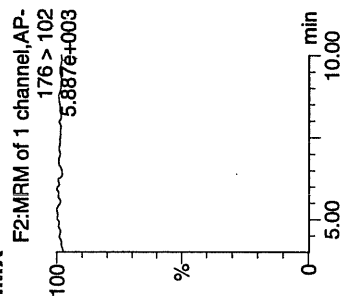
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ID: XIBLK04

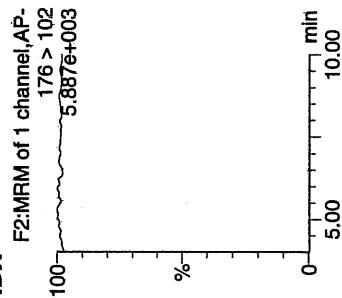
Vial: 1:1,A

WTR
3/15/10

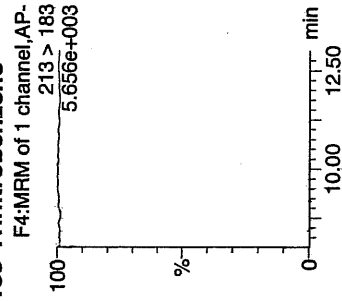
HMX



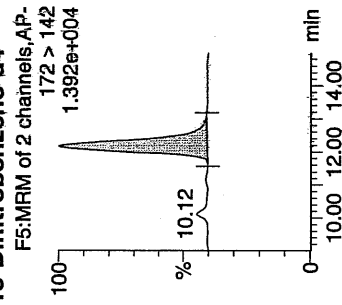
RDX



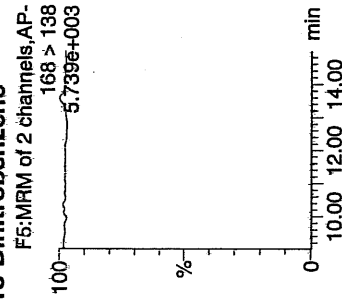
135-Trinitrobenzene



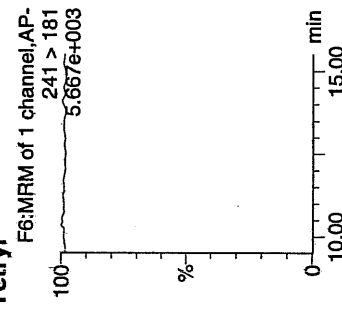
13-Dinitrobenzene-d4



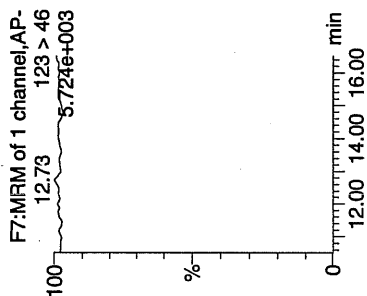
13-Dinitrobenzene



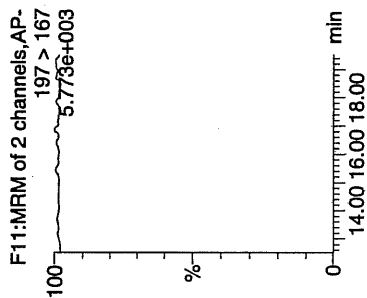
Tetryl



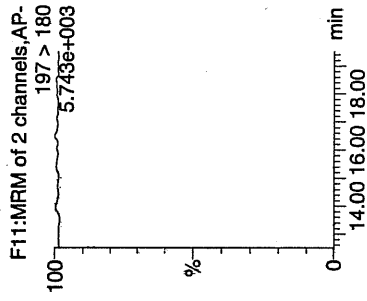
Nitrobenzene



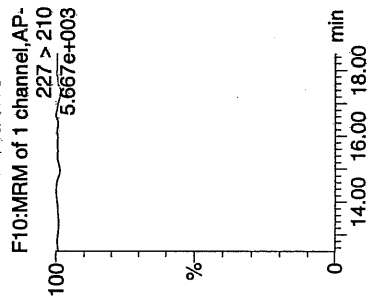
4-Amino-26-dinitrotoluene



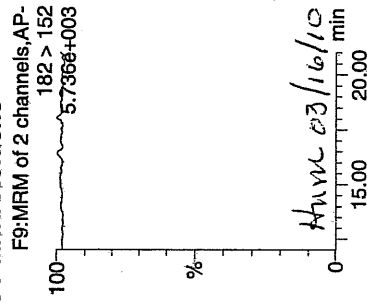
2-Amino-46-dinitrotoluene



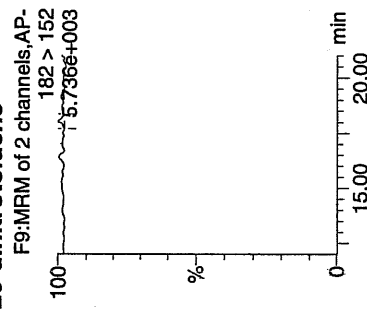
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

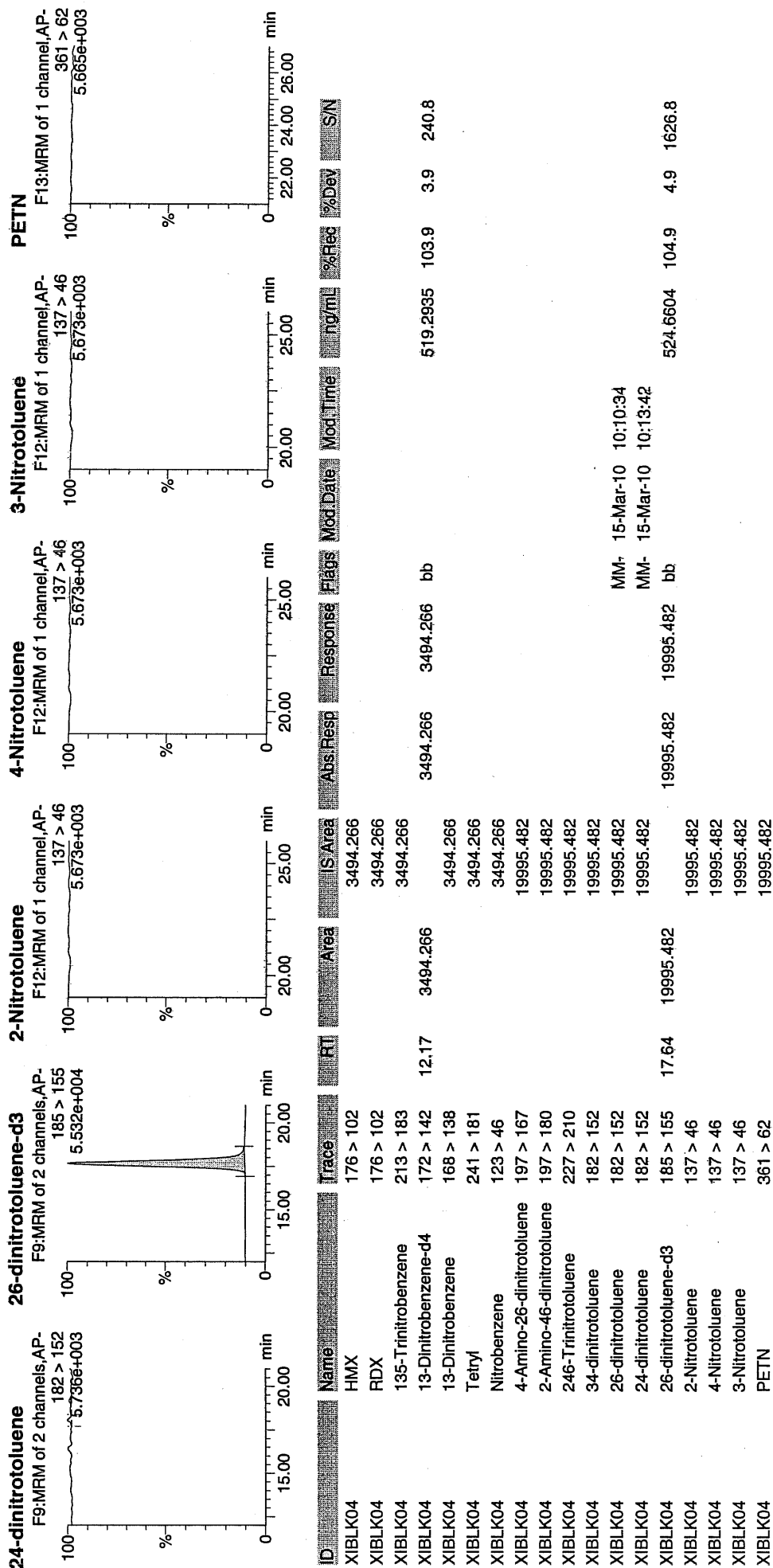


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 48 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 15-MAR-10 08:40

GEL Data File: EXP0314037a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	534.53
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	574.82
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp_PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0314037a

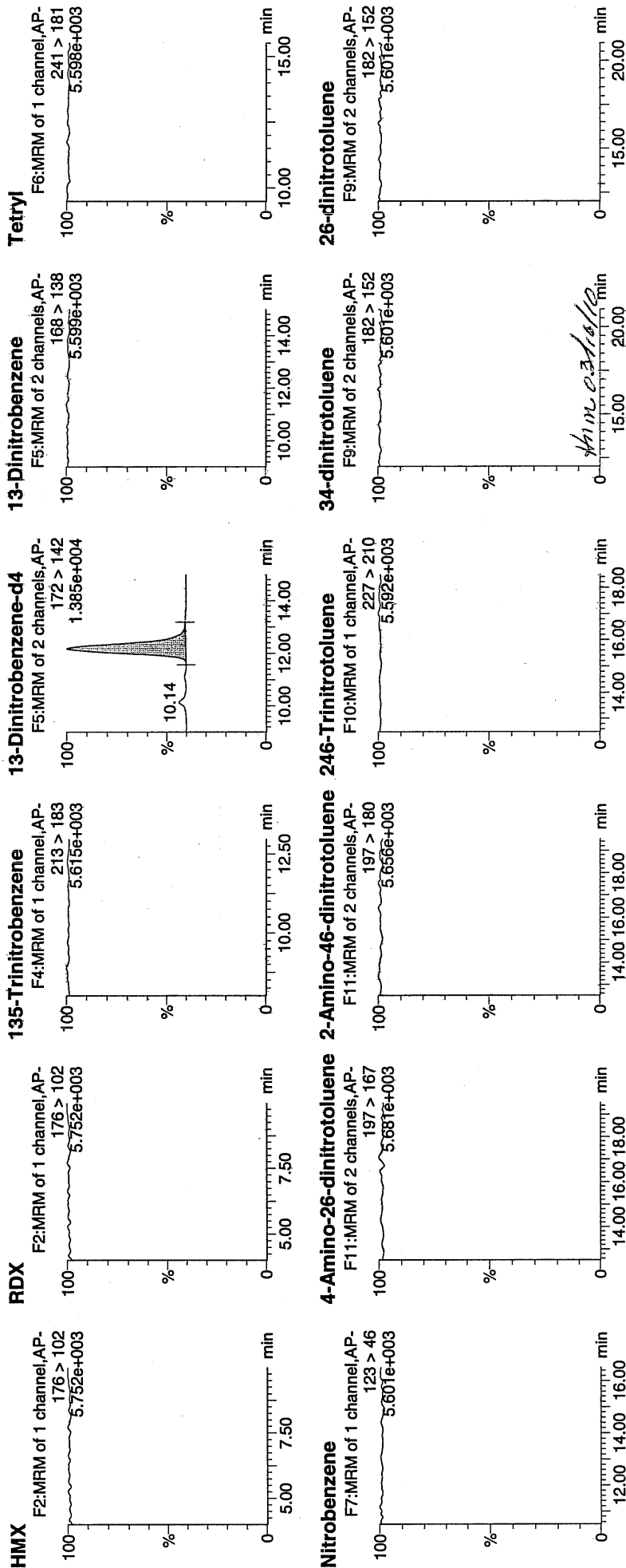
Date: 15-Mar-2010

Time: 08:40:21

ID: XIBLK05

Vial: 1:1,A

WAT
2/15/10

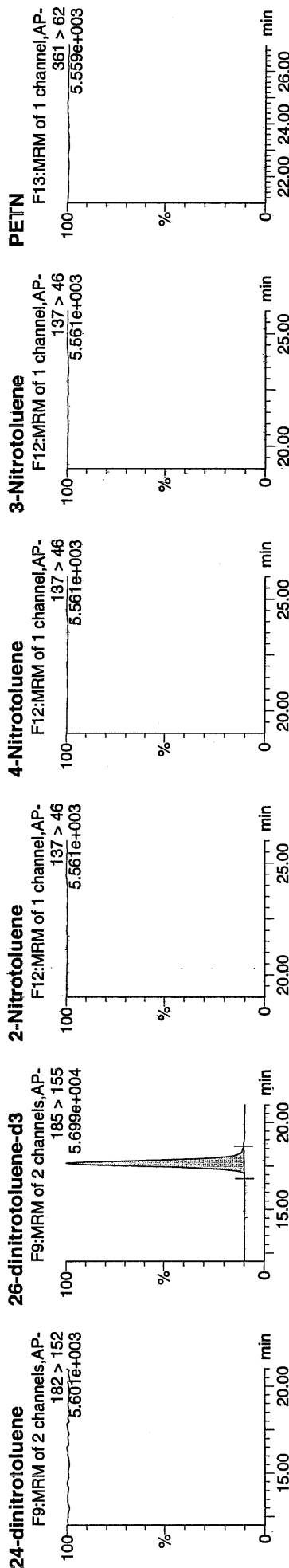


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYN\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK05	HMX	176 > 102		3596.789	3596.789									
XIBLK05	RDX	176 > 102		3596.789	3596.789									
XIBLK05	135-Trinitrobenzene	213 > 183		3596.789	3596.789									
XIBLK05	13-Dinitrobenzene-d4	172 > 142	12.18	3596.789				bb			534.5298	106.9	6.9	476.3
XIBLK05	13-Dinitrobenzene	168 > 138		3596.789		3596.789								
XIBLK05	Tetryl	241 > 181		3596.789										
XIBLK05	Nitrobenzene	123 > 46		3596.789										
XIBLK05	4-Amino-26-dinitrotoluene	197 > 167		21907.143										
XIBLK05	2-Amino-46-dinitrotoluene	197 > 180		21907.143										
XIBLK05	246-Trinitrotoluene	227 > 210		21907.143										
XIBLK05	34-dinitrotoluene	182 > 152		21907.143										
XIBLK05	26-dinitrotoluene	182 > 152		21907.143										
XIBLK05	24-dinitrotoluene	182 > 152		21907.143										
XIBLK05	26-dinitrotoluene-d3	185 > 155	17.64	21907.143		21907.143		bb			574.8203	115.0	15.0	2964.3
XIBLK05	2-Nitrotoluene	137 > 46		21907.143										
XIBLK05	4-Nitrotoluene	137 > 46		21907.143										
XIBLK05	3-Nitrotoluene	137 > 46		21907.143										
XIBLK05	PETN	361 > 62		21907.143										

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 15-MAR-10 10:38

GEL Data File: EXP0314041a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	517.575
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	525.528
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314041a

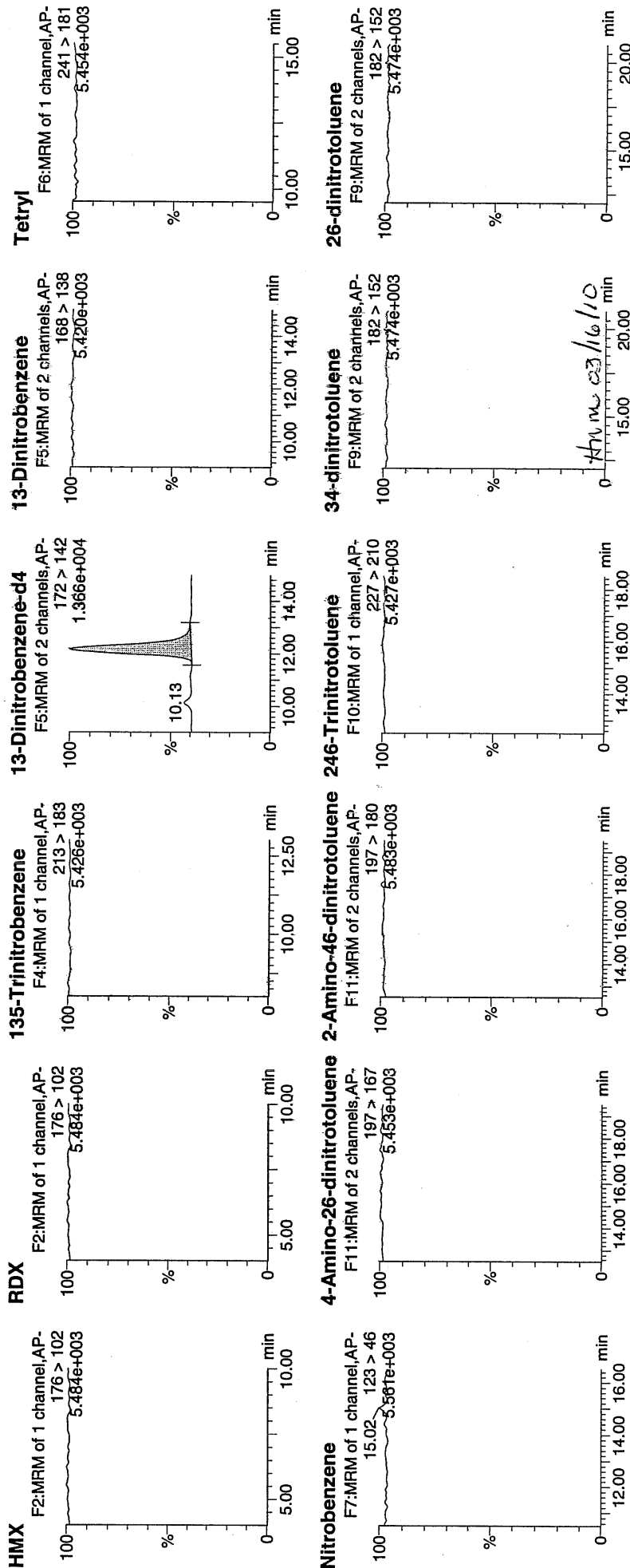
Date: 15-Mar-2010

Time: 10:38:21

ID: XIBLK06

Vial: 1:1,A

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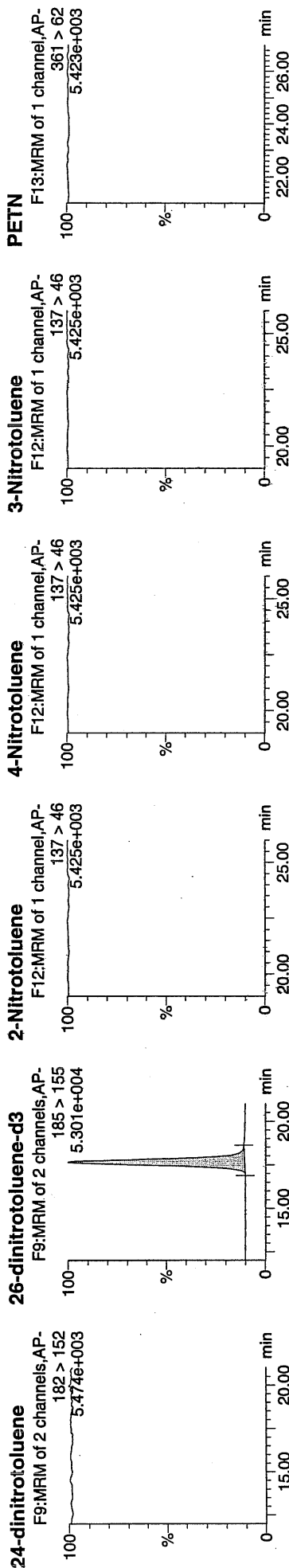


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK06	HMX	176 > 102		3482.703										
XIBLK06	RDX	176 > 102		3482.703										
XIBLK06	135-Trinitrobenzene	213 > 183		3482.703										
XIBLK06	13-Dinitrobenzene-d4	172 > 142	12.17	3482.703										
XIBLK06	13-Dinitrobenzene	168 > 138		3482.703										
XIBLK06	Tetryl	241 > 181		3482.703										
XIBLK06	Nitrobenzene	123 > 46		3482.703										
XIBLK06	4-Amino-26-dinitrotoluene	197 > 167		3482.703										
XIBLK06	2-Amino-46-dinitrotoluene	197 > 180		20028.557										
XIBLK06	246-Trinitrotoluene	227 > 210		20028.557										
XIBLK06	34-dinitrotoluene	182 > 152		20028.557										
XIBLK06	26-dinitrotoluene	182 > 152		20028.557										
XIBLK06	24-dinitrotoluene	182 > 152		20028.557										
XIBLK06	26-dinitrotoluene-d3	185 > 155	17.64	20028.557										
XIBLK06	2-Nitrotoluene	137 > 46		20028.557										
XIBLK06	4-Nitrotoluene	137 > 46		20028.557										
XIBLK06	3-Nitrotoluene	137 > 46		20028.557										
XIBLK06	PETN	361 > 62		20028.557										
						20028.557	20028.557	bb			525.5282	105.1	5.1	2016.3
						3482.703	3482.703	bb			517.5751	103.5	3.5	341.1

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 15-MAR-10 15:04

GEL Data File: EXP0314050a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	458.313
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	508.096
2-Amino-4,6-dinitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314050a

Date: 15-Mar-2010

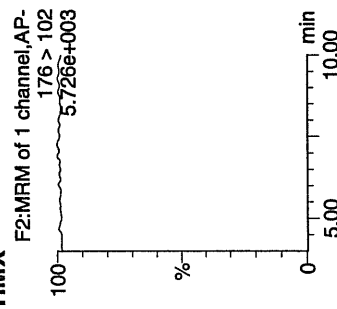
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ID: XIBLK07

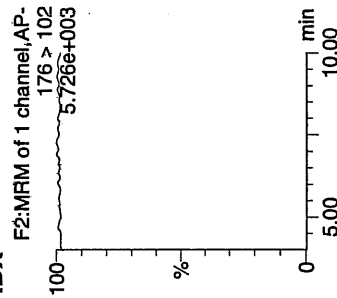
Vial: 1:1,A

3/16/10

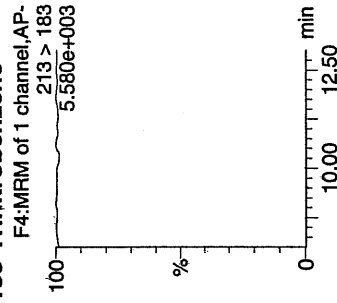
HMx



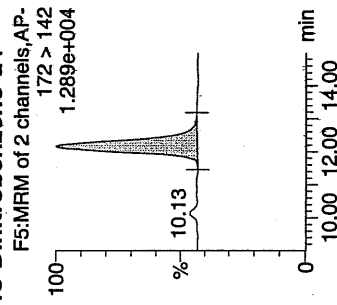
RDX



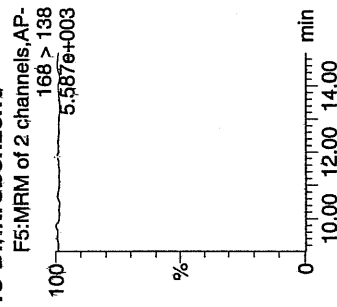
135-Trinitrobenzene



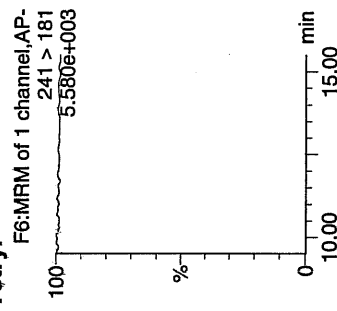
13-Dinitrobenzene-d4



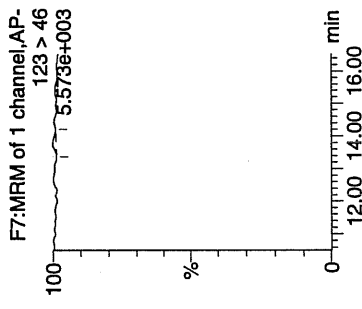
13-Dinitrobenzene



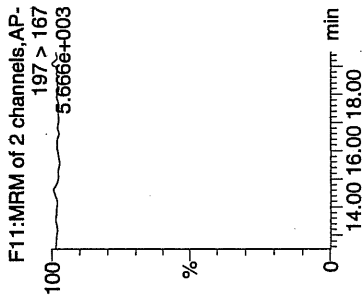
Tetryl



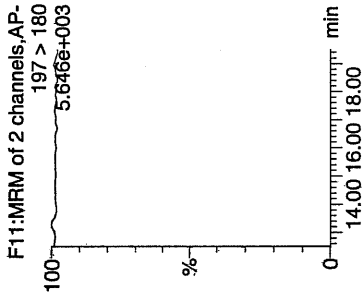
Nitrobenzene



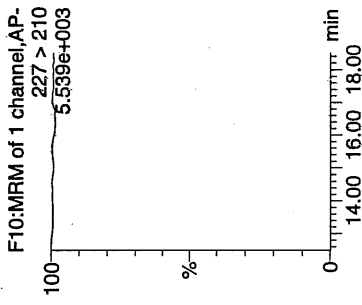
4-Amino-26-dinitrotoluene



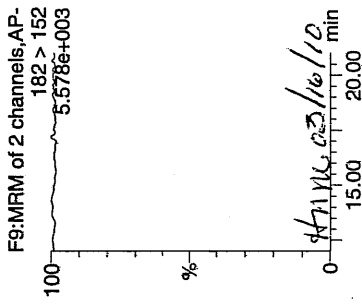
2-Amino-46-dinitrotoluene



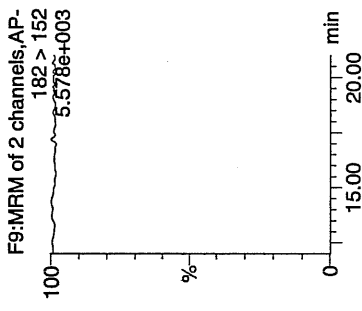
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



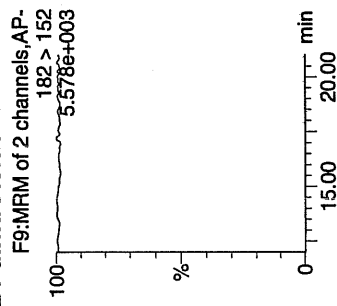
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

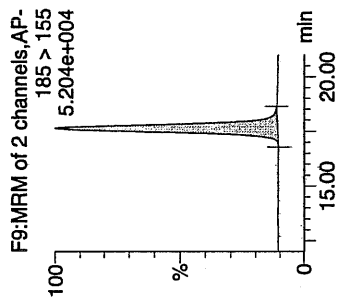
Printed: Tue Mar 16 09:29:05 2010, Page 24 of 79

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

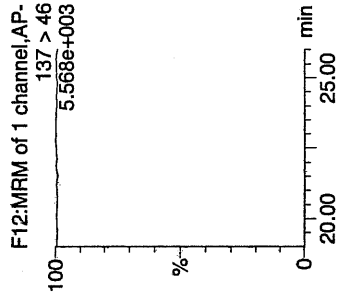
24-dinitrotoluene



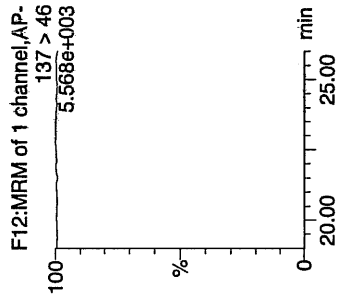
26-dinitrotoluene-d3



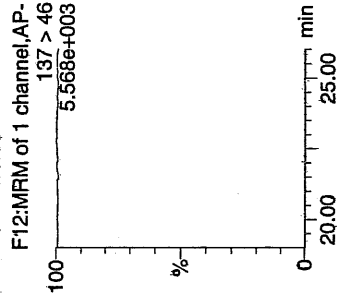
2-Nitrotoluene



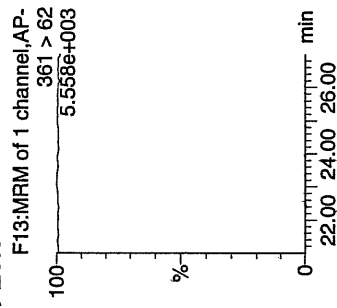
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK07	HMX	176 > 102			3083.932									
XIBLK07	RDX	176 > 102			3083.932									
XIBLK07	135-Trinitrobenzene	213 > 183			3083.932									
XIBLK07	13-Dinitrobenzene-d4	172 > 142	12.17	3083.932			3083.932	bb			458.3126	91.7	-8.3	380.0
XIBLK07	13-Dinitrobenzene	168 > 138			3083.932									
XIBLK07	Tetryl	241 > 181			3083.932									
XIBLK07	Nitrobenzene	123 > 46			3083.932									
XIBLK07	4-Amino-26-dinitrotoluene	197 > 167			3083.932									
XIBLK07	2-Amino-46-dinitrotoluene	197 > 180			19364.199									
XIBLK07	246-Trinitrotoluene	227 > 210			19364.199									
XIBLK07	34-dinitrotoluene	182 > 152			19364.199									
XIBLK07	26-dinitrotoluene	182 > 152			19364.199									
XIBLK07	24-dinitrotoluene	182 > 152			19364.199									
XIBLK07	26-dinitrotoluene-d3	185 > 155	17.64	19364.199			19364.199	bb			508.0962	101.6	1.6	1868.7
XIBLK07	2-Nitrotoluene	137 > 46			19364.199									
XIBLK07	4-Nitrotoluene	137 > 46			19364.199									
XIBLK07	3-Nitrotoluene	137 > 46			19364.199									
XIBLK07	PETN	361 > 62			19364.199									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 15-MAR-10 21:27

GEL Data File: EXP0314063a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	457.347
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	472.899
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314063a

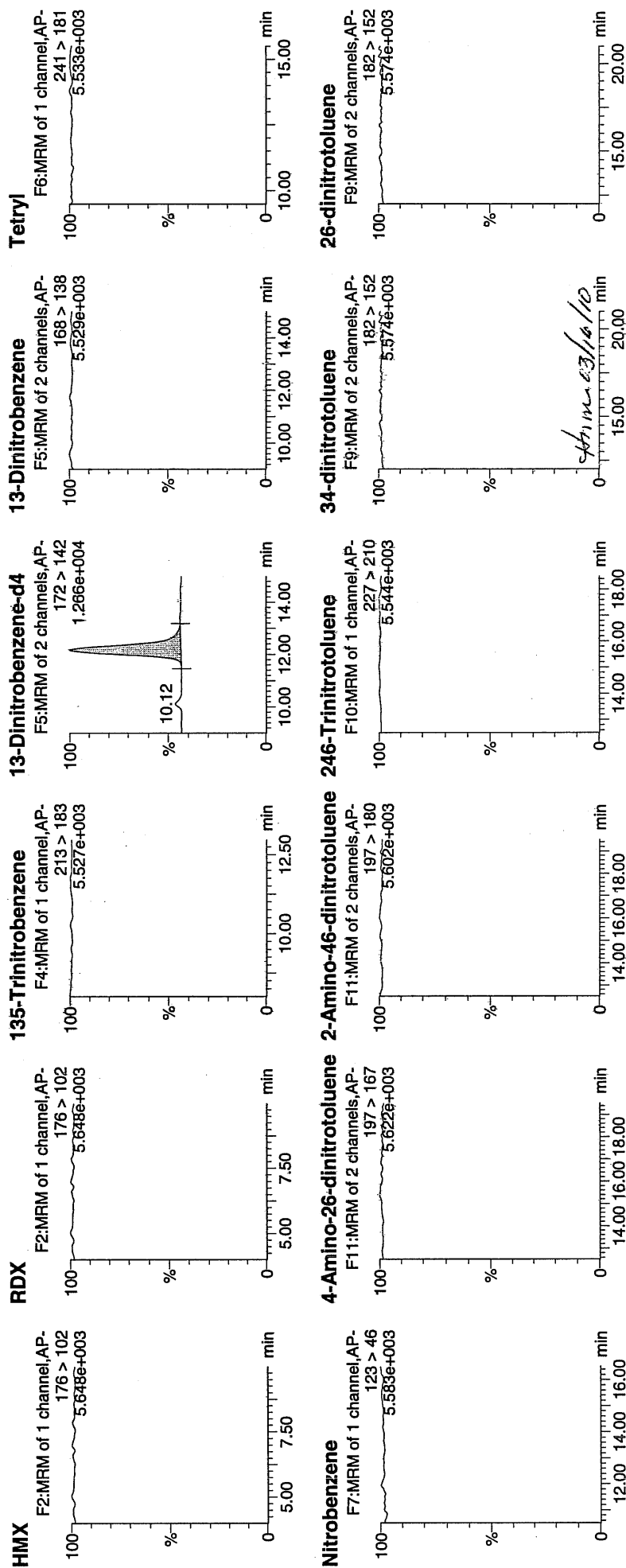
Date: 15-Mar-2010

Time: 21:27:39

ID: XIBLK08

Vial: 1:1,A

WFT
3/16/10

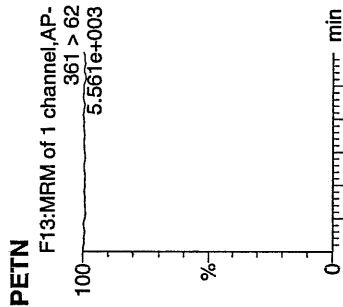
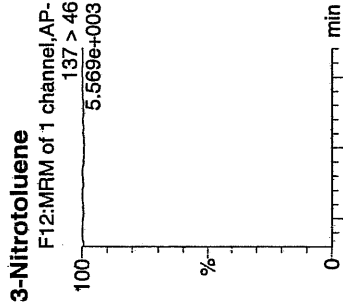
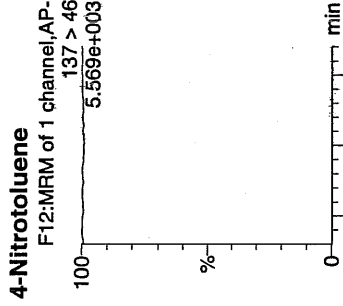
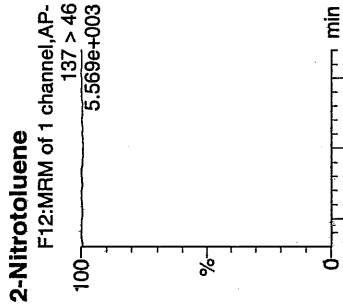
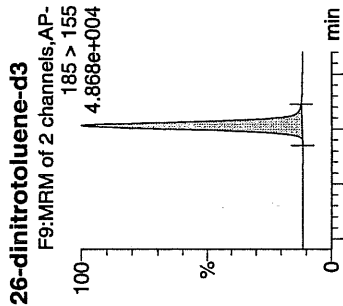
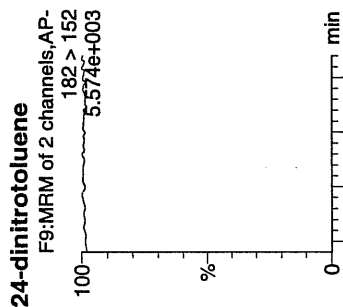


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN
XIBLK08	HMX	176 > 102			3077.436									
XIBLK08	RDX	176 > 102			3077.436									
XIBLK08	135-Trinitrobenzene	213 > 183			3077.436									
XIBLK08	13-Dinitrobenzene-d4	172 > 142	12.18	3077.436		3077.436	3077.436	bb			457.3472	91.5	-8.5	277.0
XIBLK08	13-Dinitrobenzene	168 > 138			3077.436									
XIBLK08	Tetryl	241 > 181			3077.436									
XIBLK08	Nitrobenzene	123 > 46			3077.436									
XIBLK08	4-Amino-26-dinitrotoluene	197 > 167			18022.805									
XIBLK08	2-Amino-46-dinitrotoluene	197 > 180			18022.805									
XIBLK08	246-Trinitrotoluene	227 > 210			18022.805									
XIBLK08	34-dinitrotoluene	182 > 152			18022.805									
XIBLK08	26-dinitrotoluene	182 > 152			18022.805									
XIBLK08	24-dinitrotoluene	182 > 152			18022.805									
XIBLK08	26-dinitrotoluene-d3	185 > 155	17.64	18022.805		18022.805	18022.805	bb			472.8994	94.6	-5.4	805.3
XIBLK08	2-Nitrotoluene	137 > 46			18022.805									
XIBLK08	4-Nitrotoluene	137 > 46			18022.805									
XIBLK08	3-Nitrotoluene	137 > 46			18022.805									
XIBLK08	PETN	361 > 62			18022.805									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 15-MAR-10 23:55

GEL Data File: EXP0314068a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	462.466
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	497.279

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Mar 16 09:29:05 2010, Page 59 of 79

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314068a

Date: 15-Mar-2010

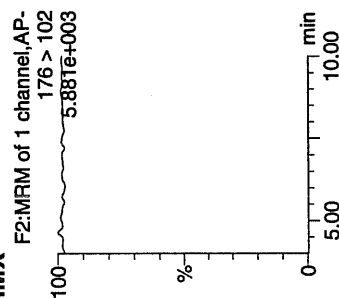
Time: 23:55:16

ID: XIBLK09

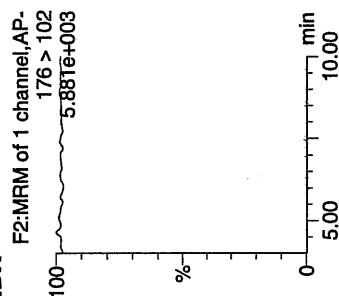
Vial: 1:1,A

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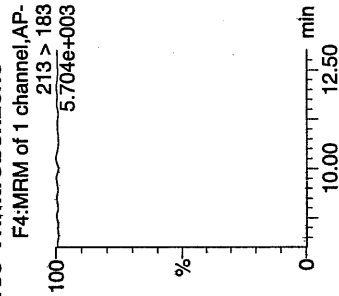
HMX



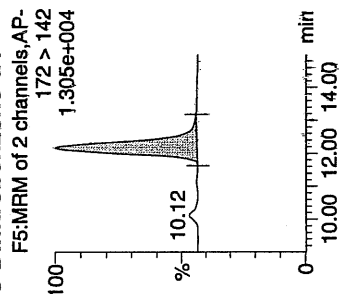
RDX



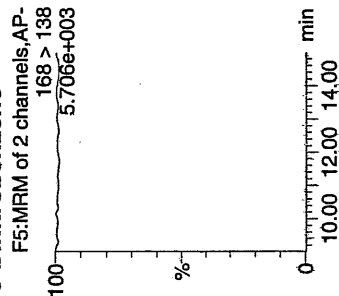
135-Trinitrobenzene



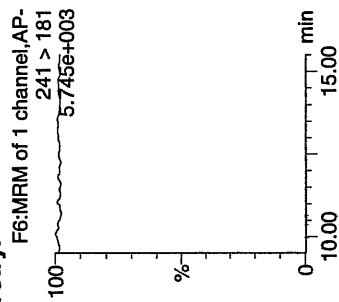
13-Dinitrobenzene-d4



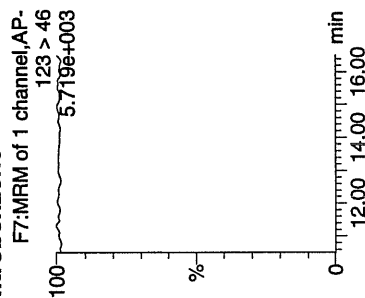
13-Dinitrobenzene



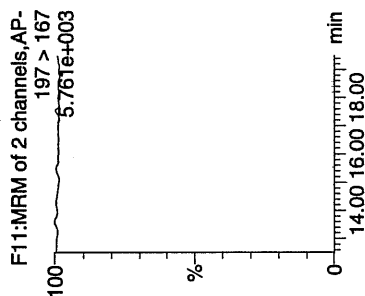
Tetryl



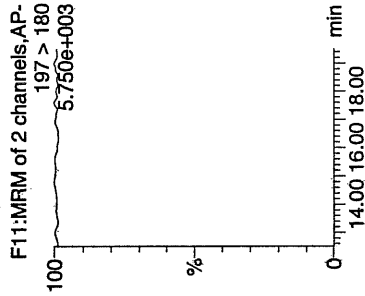
Nitrobenzene



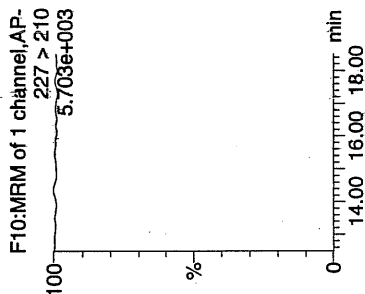
4-Amino-26-dinitrotoluene



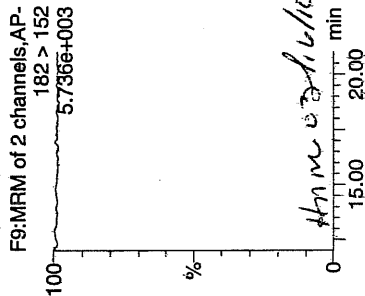
2-Amino-46-dinitrotoluene



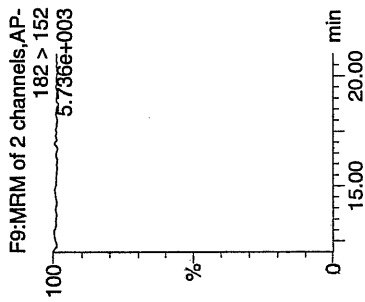
246-Trinitrotoluene

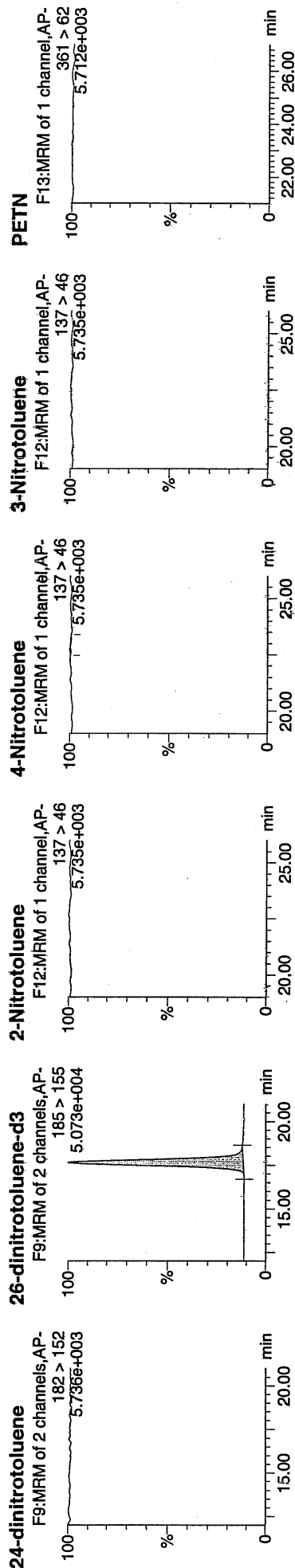


34-dinitrotoluene



26-dinitrotoluene



[illegible]

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 16-MAR-10 03:51

GEL Data File: EXP0314076a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	472.447
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	500.195
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Mar 16 09:29:05 2010, Page 75 of 79

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314076a

Date: 16-Mar-2010

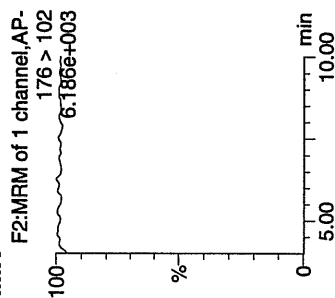
Time: 03:51:15

ID: XIBLK10

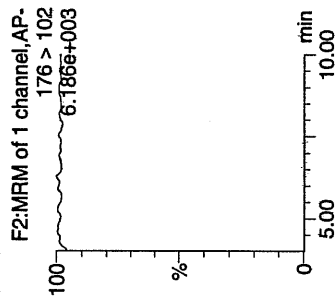
Vial: 1:1,A

MTT
3/16/10

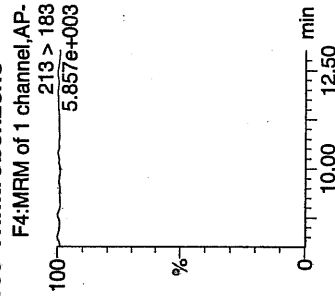
HMX



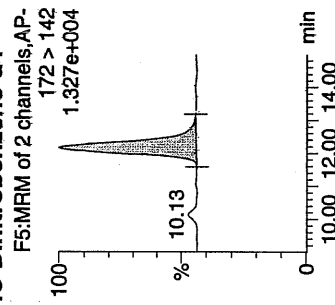
RDX



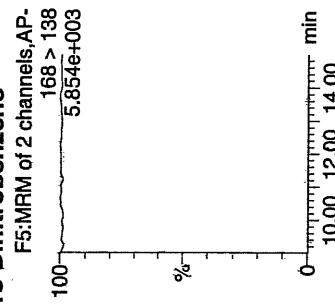
135-Trinitrobenzene



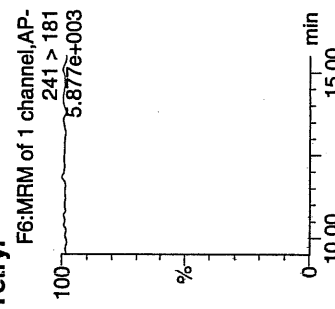
13-Dinitrobenzene-d4



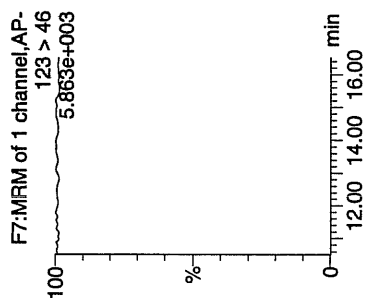
13-Dinitrobenzene



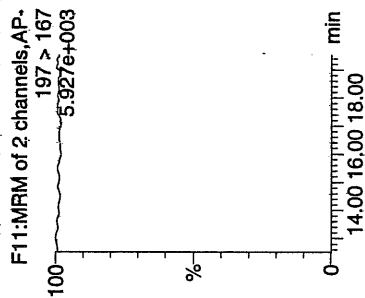
Tetryl



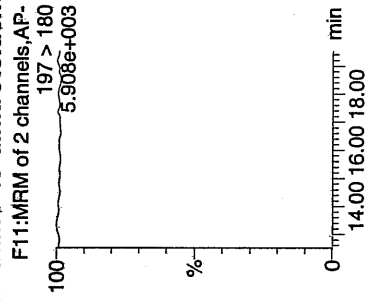
Nitrobenzene



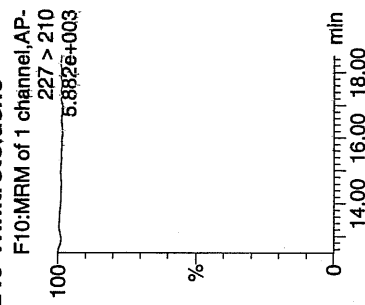
4-Amino-26-dinitrotoluene



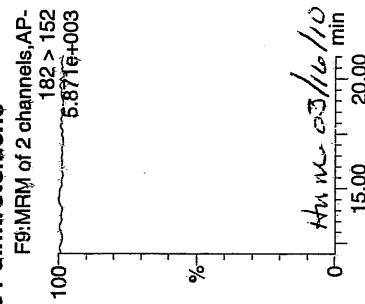
2-Amino-46-dinitrotoluene



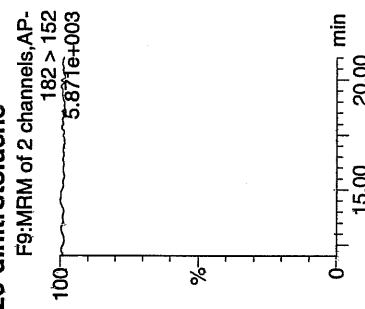
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

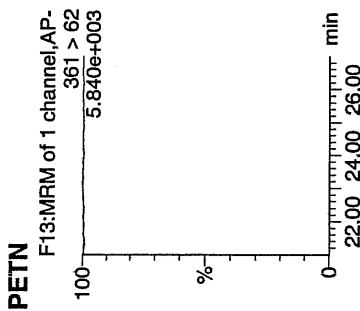
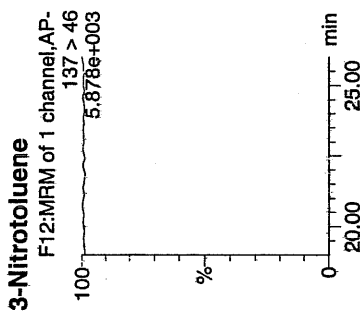
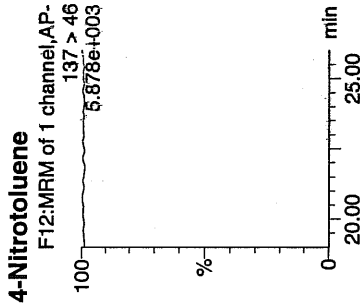
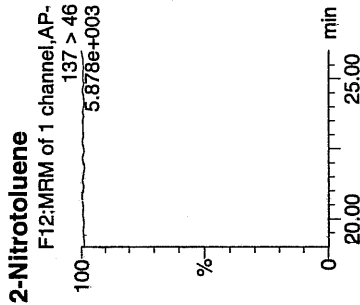
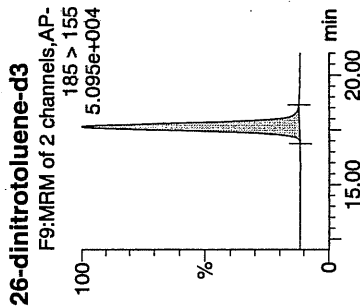
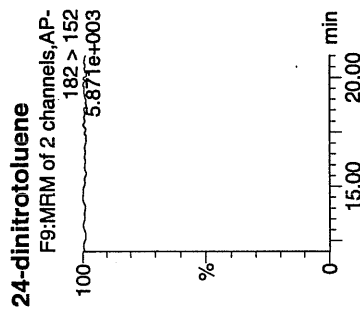


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Mar 16 09:29:05 2010, Page 76 of 79

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK10	HMX	176 > 102			3179.039									
XIBLK10	RDX	176 > 102			3179.039									
XIBLK10	135-Trinitrobenzene	213 > 183			3179.039									
XIBLK10	13-Dinitrobenzene-d4	172 > 142	12.17	3179.039		3179.039	3179.039	bb			472.4467	94.5	-5.5	209.6
XIBLK10	13-Dinitrobenzene	168 > 138			3179.039									
XIBLK10	Tetryl	241 > 181			3179.039									
XIBLK10	Nitrobenzene	123 > 46			3179.039									
XIBLK10	4-Amino-26-dinitrotoluene	197 > 167			19063.061									
XIBLK10	2-Amino-46-dinitrotoluene	197 > 180			19063.061									
XIBLK10	246-Trinitrotoluene	227 > 210			19063.061									
XIBLK10	34-dinitrotoluene	182 > 152			19063.061									
XIBLK10	26-dinitrotoluene	182 > 152			19063.061									
XIBLK10	24-dinitrotoluene	182 > 152			19063.061									
XIBLK10	26-dinitrotoluene-d3	185 > 155	17.64	19063.061		19063.061	19063.061	bb			500.1946	100.0	0.0	1986.1
XIBLK10	2-Nitrotoluene	137 > 46			19063.061									
XIBLK10	4-Nitrotoluene	137 > 46			19063.061									
XIBLK10	3-Nitrotoluene	137 > 46			19063.061									
XIBLK10	PETN	361 > 62			19063.061									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 16-MAR-10 07:47

GEL Data File: EXP0314084a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	544.973
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	605.177
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314084a

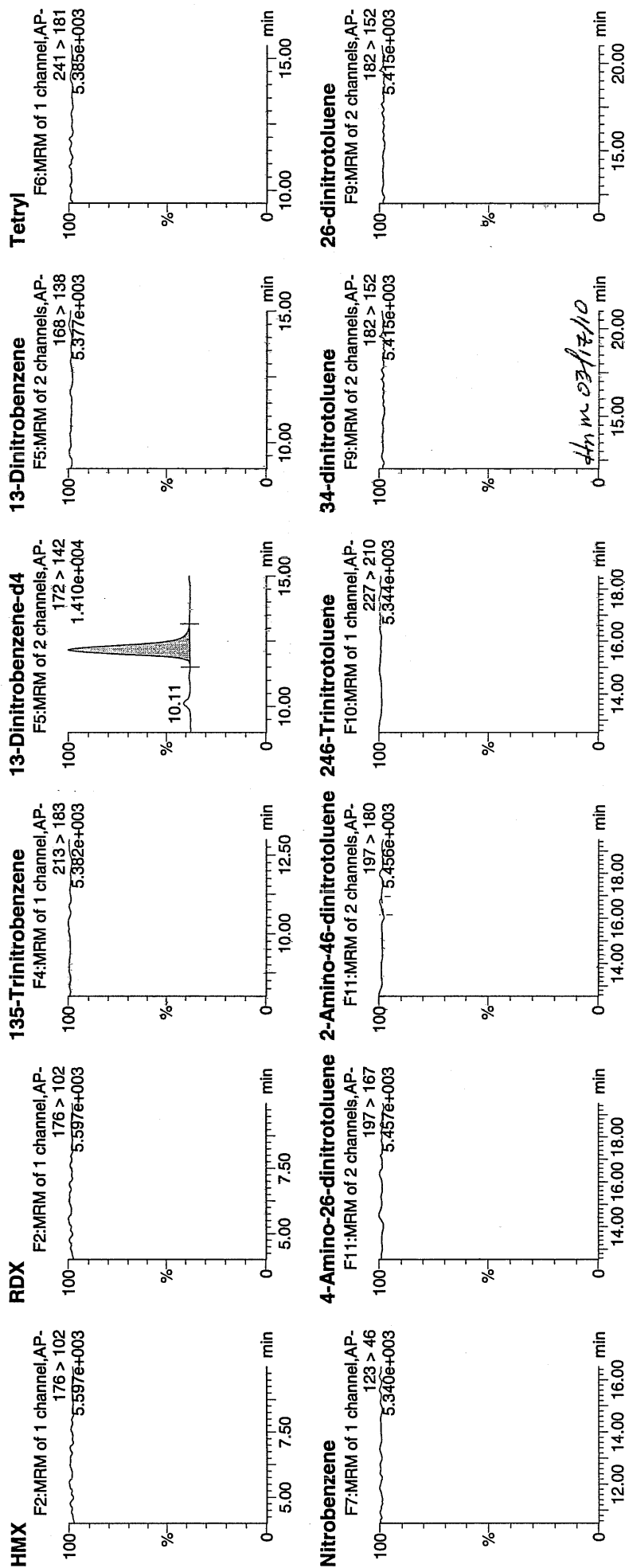
Date: 16-Mar-2010

Time: 07:47:04

ID: XIBLK15

Vial: 1:1,A

WAT
3/2/10



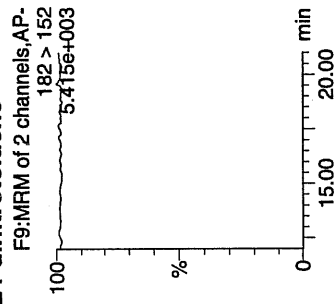
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

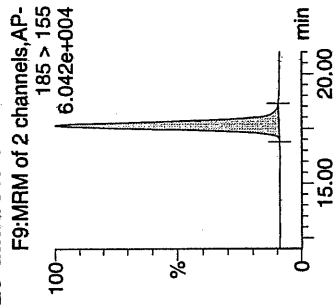
Printed: Wed Mar 17 12:37:22 2010, Page 14 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

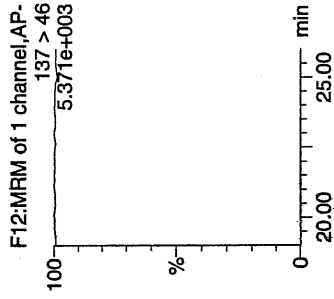
24-dinitrotoluene



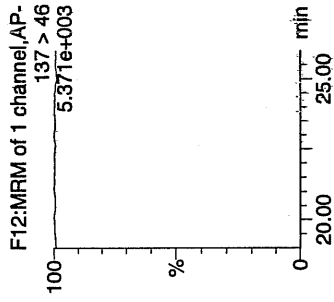
26-dinitrotoluene-d3



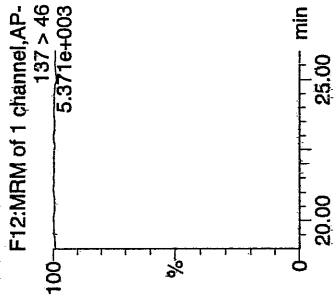
2-Nitrotoluene



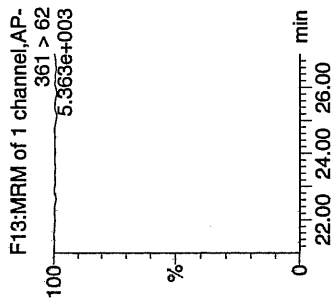
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK15	HMx	176 > 102			3667.060									
XIBLK15	RDX	176 > 102			3667.060									
XIBLK15	135-Trinitrobenzene	213 > 183			3667.060									
XIBLK15	13-Dinitrobenzene-d4	172 > 142	12.17	3667.060										
XIBLK15	13-Dinitrobenzene	168 > 138			3667.060									
XIBLK15	Tetryl	241 > 181			3667.060									
XIBLK15	Nitrobenzene	123 > 46			3667.060									
XIBLK15	4-Amino-26-dinitrotoluene	197 > 167			23064.059									
XIBLK15	2-Amino-46-dinitrotoluene	197 > 180			23064.059									
XIBLK15	246-Trinitrotoluene	227 > 210			23064.059									
XIBLK15	34-dinitrotoluene	182 > 152			23064.059									
XIBLK15	26-dinitrotoluene	182 > 152			23064.059									
XIBLK15	24-dinitrotoluene	182 > 152			23064.059									
XIBLK15	26-dinitrotoluene-d3	185 > 155	17.63	23064.059										
XIBLK15	2-Nitrotoluene	137 > 46			23064.059									
XIBLK15	4-Nitrotoluene	137 > 46			23064.059									
XIBLK15	3-Nitrotoluene	137 > 46			23064.059									
XIBLK15	PETN	361 > 62			23064.059									
						23064.059	23064.059	bb		17-Mar-10	12:32:35			
						3667.060	3667.060	bb				544.9730	109.0	9.0
												605.1766	121.0	21.0
														3350.5

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 16-MAR-10 10:14

GEL Data File: EXP0314089a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,6-Dinitrotoluene-d3	500	553.984
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	542.414
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314089a

Date: 16-Mar-2010

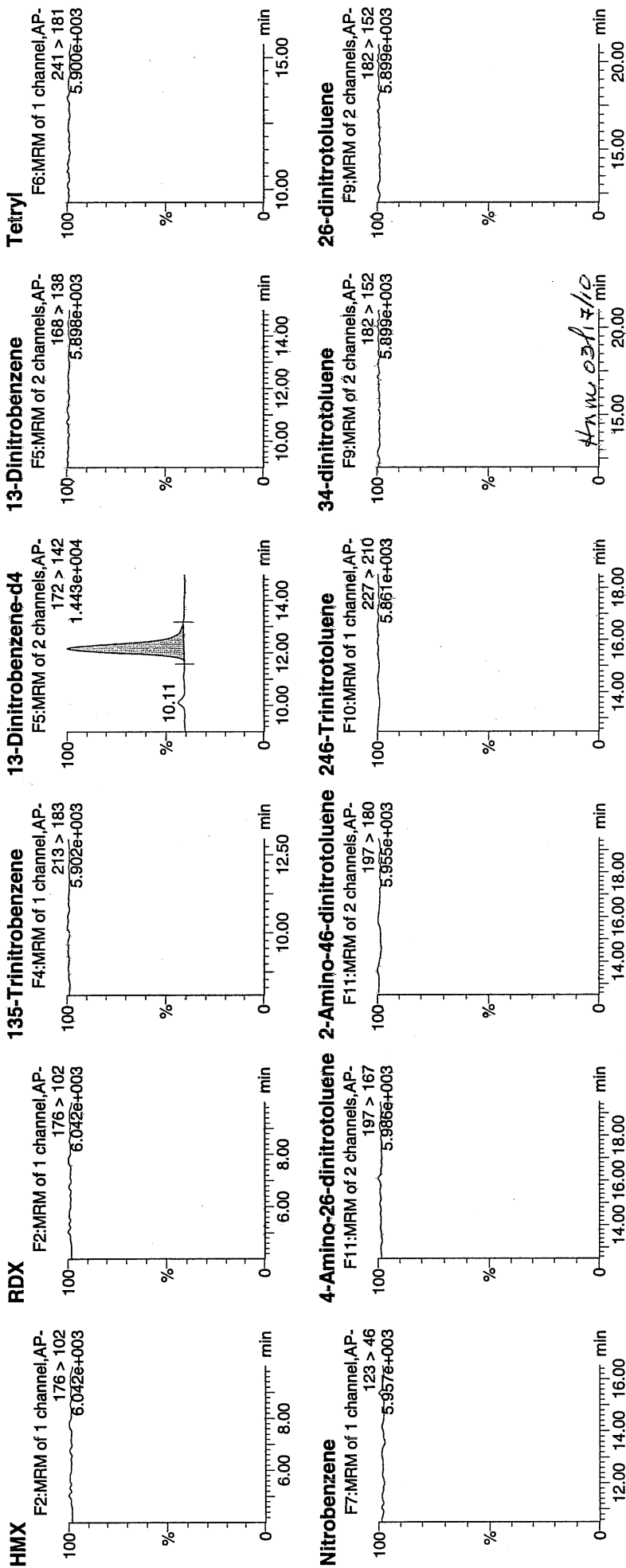
Time: 10:14:44

ID: XIBLK11

Vial: 1:1,A

WAT
3/19/10

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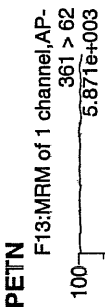
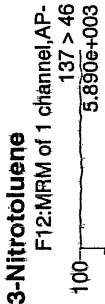
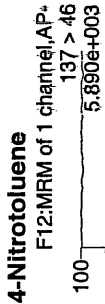
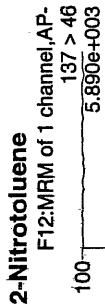
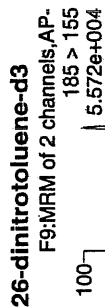
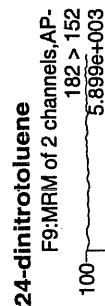


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 17 12:37:22 2010, Page 24 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
XIBLK11	HMX	176 > 102		3649.838	3649.838									
XIBLK11	RDX	176 > 102		3649.838	3649.838									
XIBLK11	135-Trinitrobenzene	213 > 183		3649.838	3649.838									
XIBLK11	13-Dinitrobenzene-d4	172 > 142	12.17	3649.838	3649.838	3649.838	3649.838	bb			542.4136	108.5	8.5	412.2
XIBLK11	13-Dinitrobenzene	168 > 138		3649.838	3649.838									
XIBLK11	Tetryl	241 > 181		3649.838	3649.838									
XIBLK11	Nitrobenzene	123 > 46		21113.055	21113.055									
XIBLK11	4-Amino-26-dinitrotoluene	197 > 167		21113.055	21113.055									
XIBLK11	2-Amino-46-dinitrotoluene	197 > 180		21113.055	21113.055									
XIBLK11	246-Trinitrotoluene	227 > 210		21113.055	21113.055									
XIBLK11	34-dinitrotoluene	182 > 152		21113.055	21113.055									
XIBLK11	26-dinitrotoluene	182 > 152		21113.055	21113.055									
XIBLK11	24-dinitrotoluene	182 > 152		21113.055	21113.055									
XIBLK11	26-dinitrotoluene-d3	185 > 155	17.64	21113.055	21113.055	21113.055	21113.055	bb			553.9843	110.8	10.8	1960.2
XIBLK11	2-Nitrotoluene	137 > 46		21113.055	21113.055									
XIBLK11	4-Nitrotoluene	197 > 46		21113.055	21113.055									
XIBLK11	3-Nitrotoluene	137 > 46		21113.055	21113.055									
XIBLK11	PETN	361 > 62		21113.055	21113.055									

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 19-MAR-10 20:50

GEL Data File: EXP0319009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	542.302
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	453.96
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319009a

Date: 19-Mar-2010

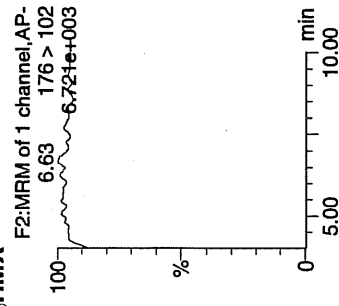
Time: 20:50:09

ID: XIBLK02

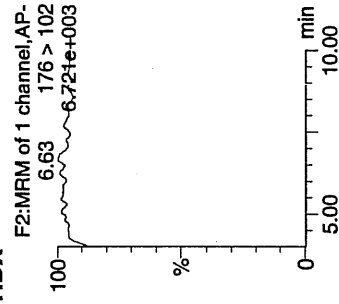
Vial: 1:1,A

MM
3/20/10

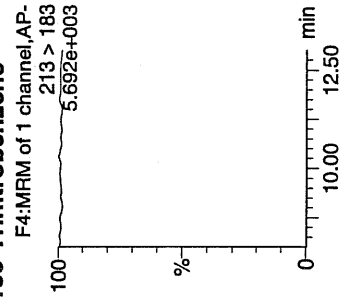
HMX



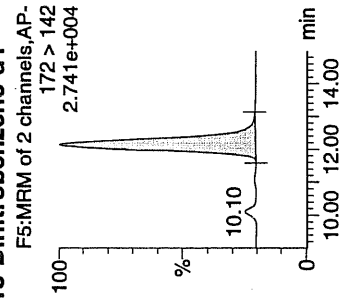
RDX



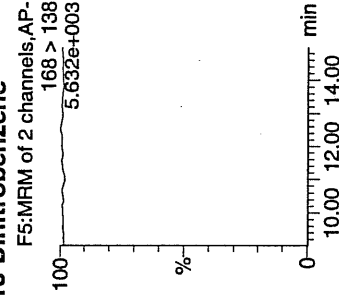
135-Trinitrobenzene



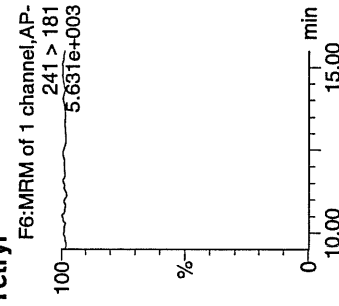
13-Dinitrobenzene-d4



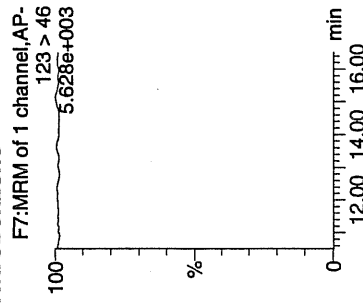
13-Dinitrobenzene



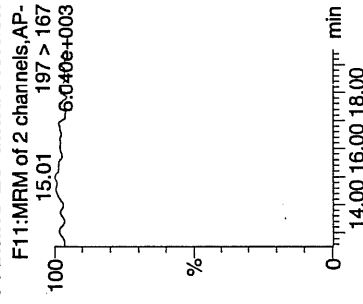
Tetryl



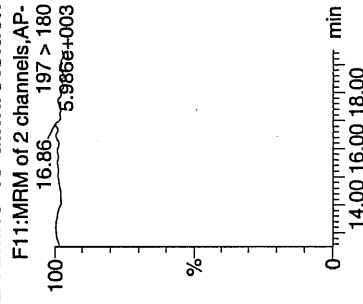
Nitrobenzene



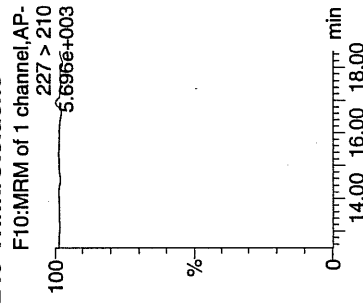
4-Amino-26-dinitrotoluene



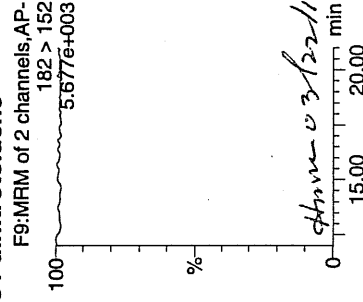
2-Amino-46-dinitrotoluene



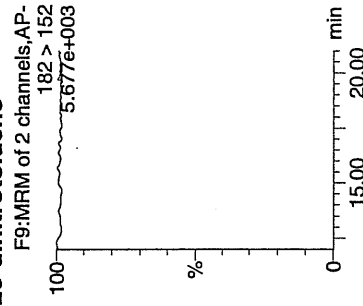
246-Trinitrotoluene



34-dinitrotoluene



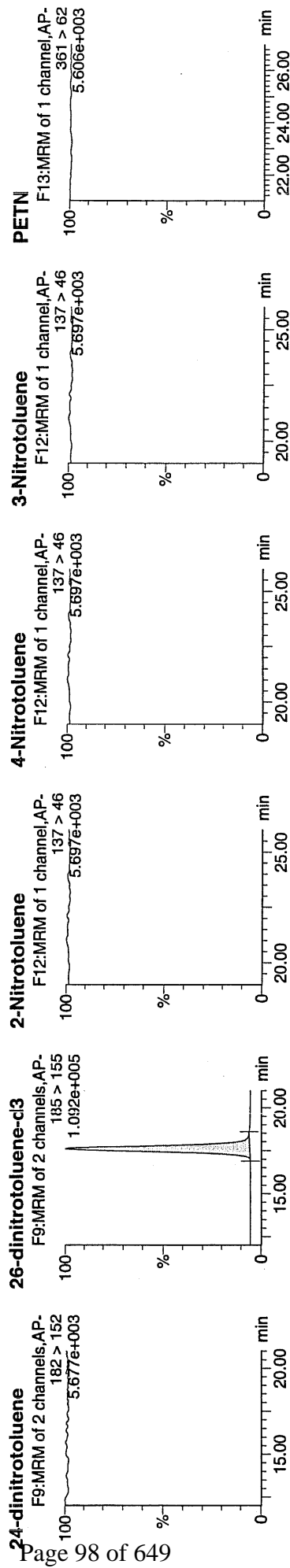
26-dinitrotoluene



Handwritten signature

Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK02	HMX	176 > 102			8902.596									
XIBLK02	RDX	176 > 102			8902.596									
XIBLK02	135-Trinitrobenzene	213 > 183			8902.596									
XIBLK02	13-Dinitrobenzene-d4	172 > 142	12.14	8902.596			8902.596	bb			542.3015	108.5	8.5	701.2
XIBLK02	13-Dinitrobenzene	168 > 138												
XIBLK02	Tetryl	241 > 181			8902.596									
XIBLK02	Nitrobenzene	123 > 46			8902.596									
XIBLK02	4-Amino-26-dinitrotoluene	197 > 167			42278.402									
XIBLK02	2-Amino-46-dinitrotoluene	197 > 180			42278.402									
XIBLK02	246-Trinitrotoluene	227 > 210			42278.402									
XIBLK02	34-dinitrotoluene	182 > 152			42278.402									
XIBLK02	26-dinitrotoluene	182 > 152			42278.402									
XIBLK02	26-dinitrotoluene-d3	185 > 155	17.60	42278.402			42278.402	bb			453.9598	90.8	-9.2	3635.3
XIBLK02	2-Nitrotoluene	137 > 46			42278.402									
XIBLK02	4-Nitrotoluene	137 > 46			42278.402									
XIBLK02	3-Nitrotoluene	137 > 46			42278.402									
XIBLK02	PETN	361 > 62												

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 19-MAR-10 21:49

GEL Data File: EXP0319011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	436.341
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	460.101
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319011a

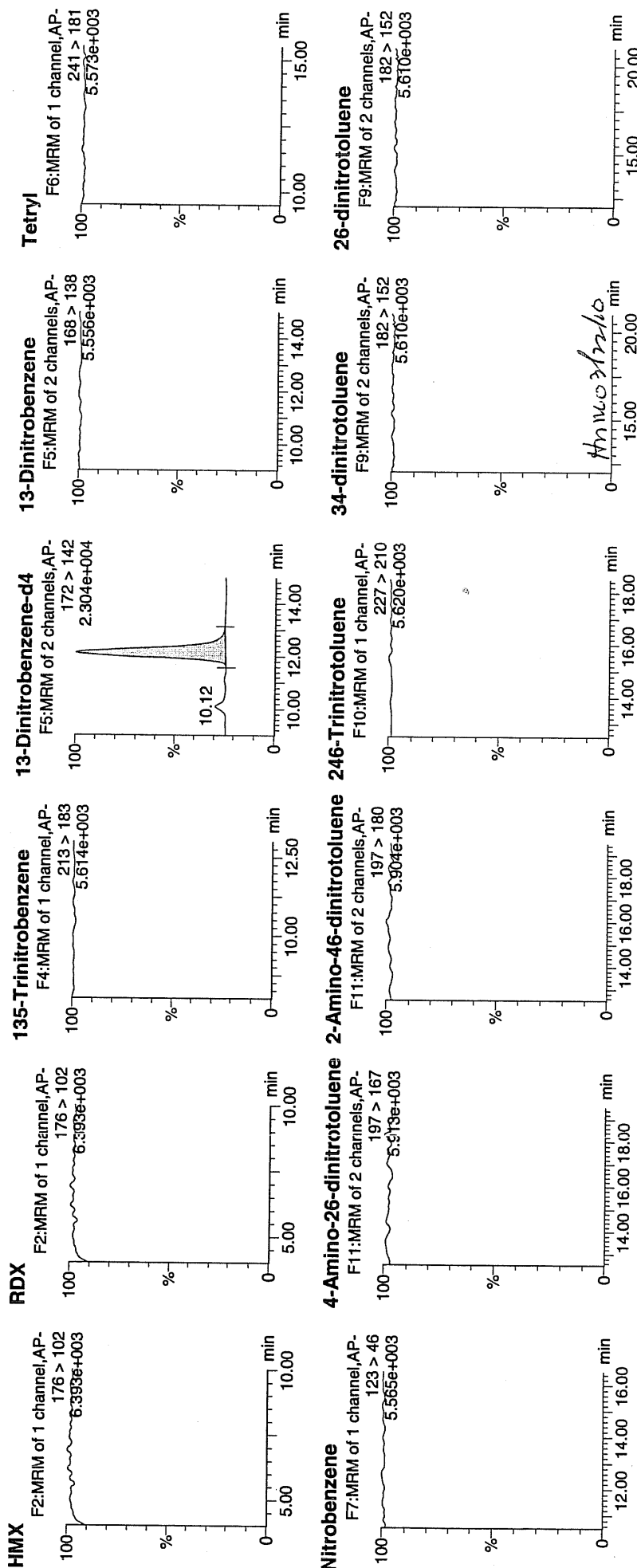
Date: 19-Mar-2010

Time: 21:49:07

ID: XIBLK03

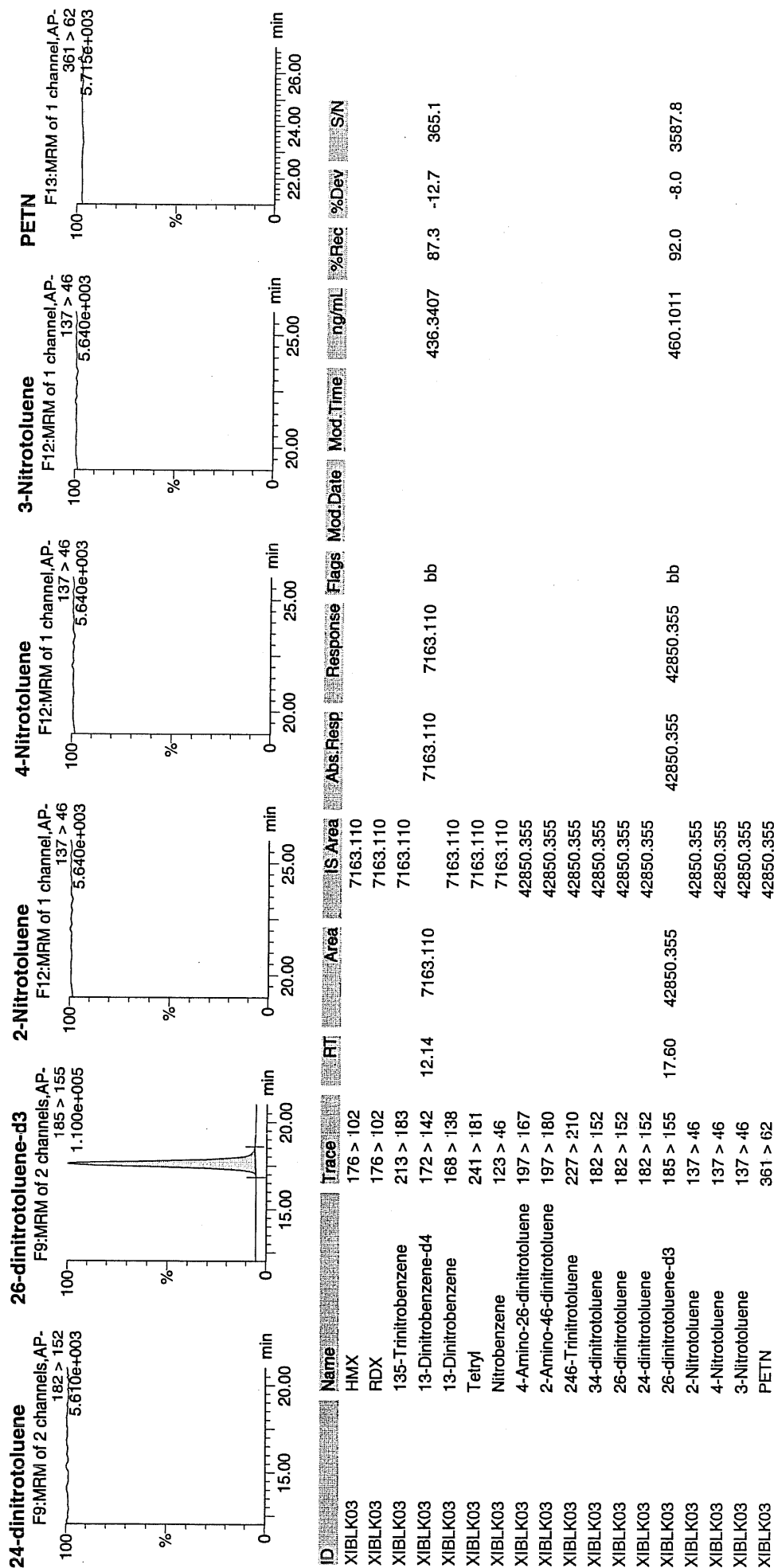
Vial: 1:1,A

3/20/10
M.A.P.



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 20-MAR-10 03:43

GEL Data File: EXP0319023a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	405.596
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	447.464
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319023a

Date: 20-Mar-2010

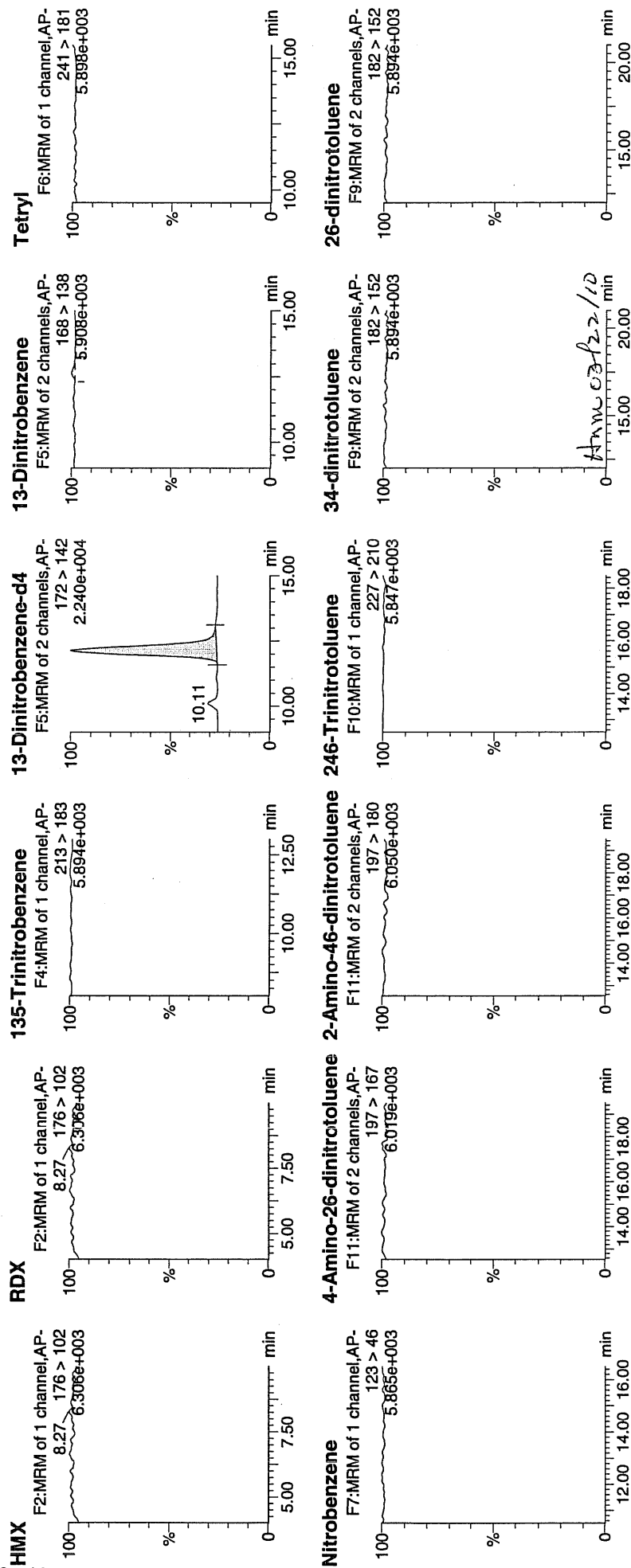
Time: 03:43:01

ID: XIBLK04

Vial: 1:1,A

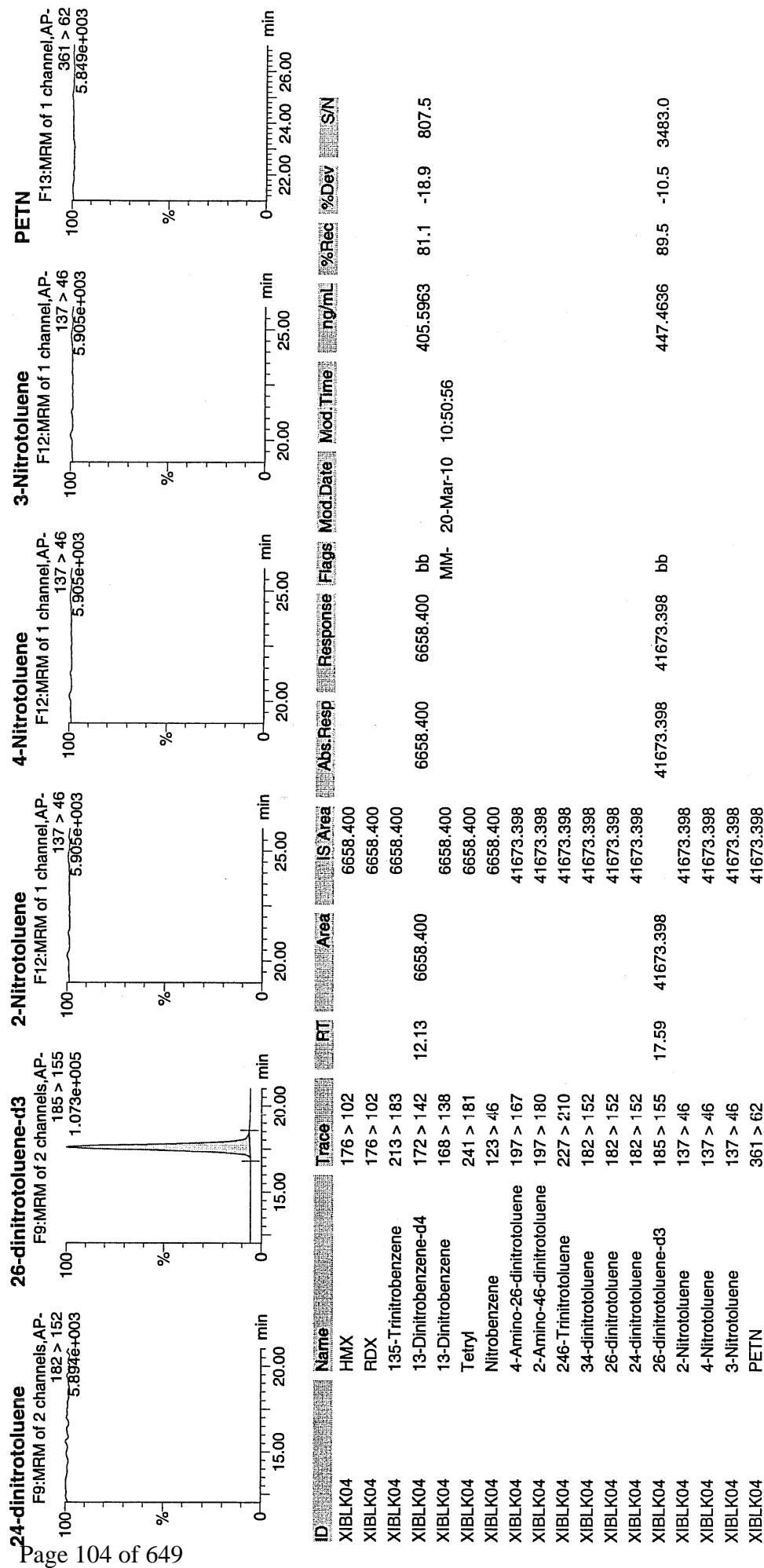
Page 103 of 649

Handwritten: 2/20/10



Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 05-MAR-10 19:29

GEL Data File: EXS03050010.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.24
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 31a110

Sample Name: "XIBLK02" Sample ID: "JILER" File: "EX03030010.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

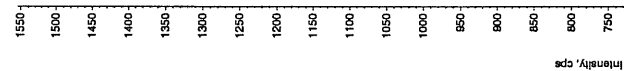
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/5/2010

Acq. Time: 7:29:01 PM

Modified: No



dfm03030010

Sample Name: "XIBLK02" Sample ID: "JILER" File: "EX03030010.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

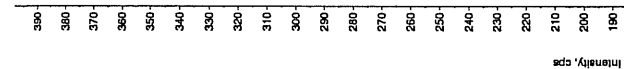
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/5/2010

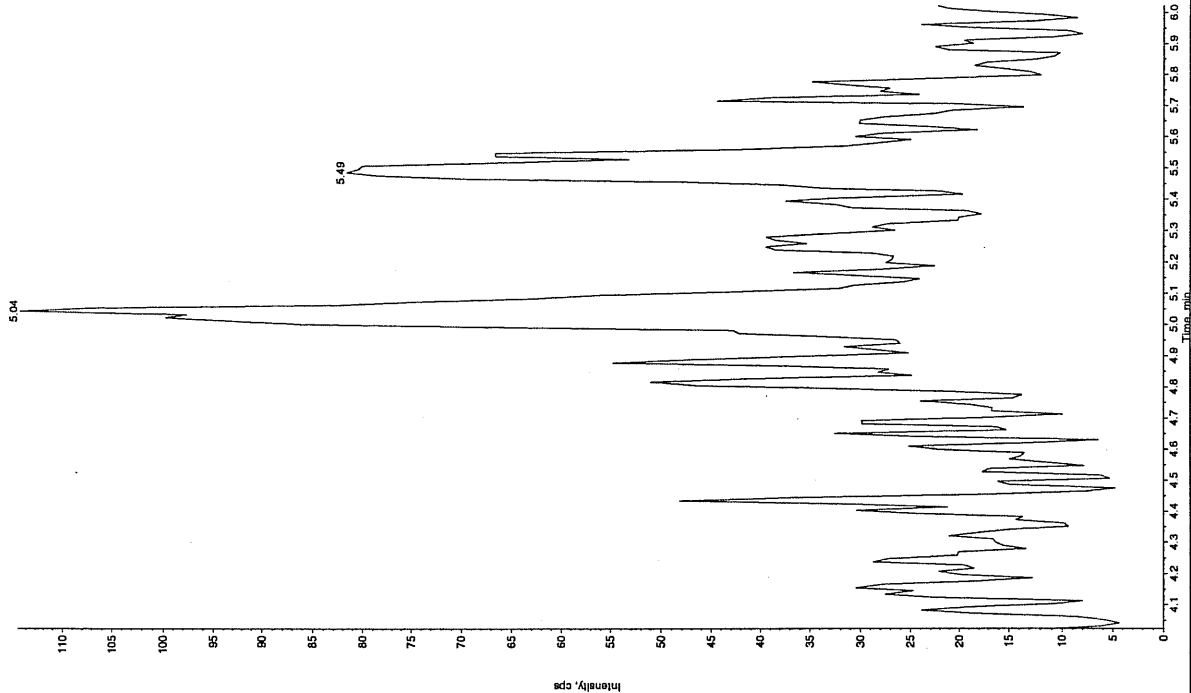
Acq. Time: 7:29:01 PM

Modified: No



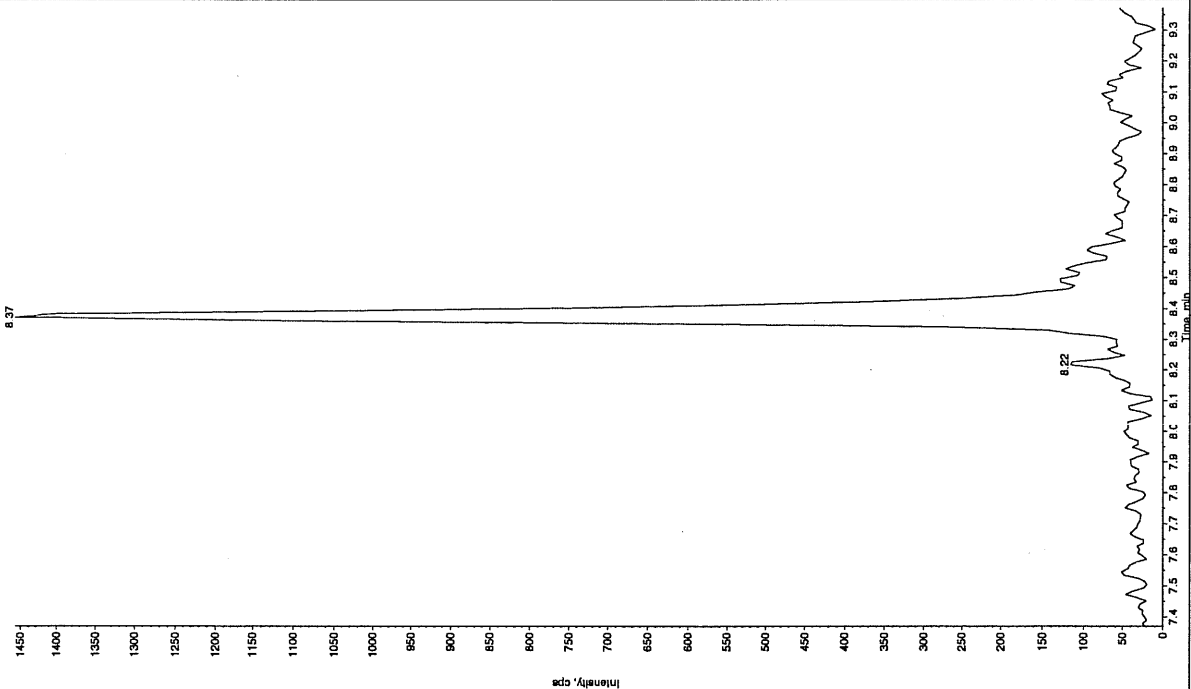
Sample Name: "XIBLK02" Sample ID: "1111ER" File: "EXS03050010.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

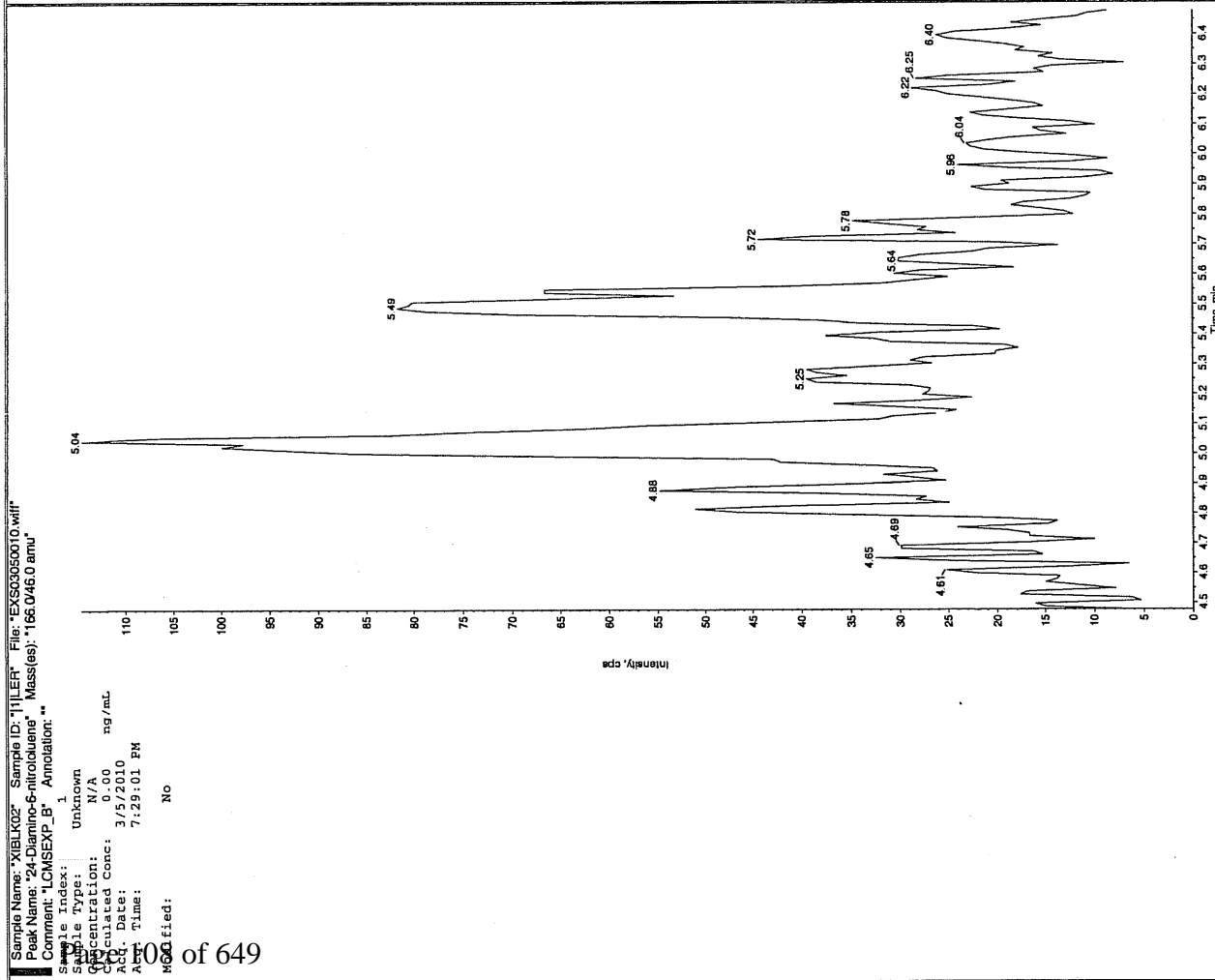
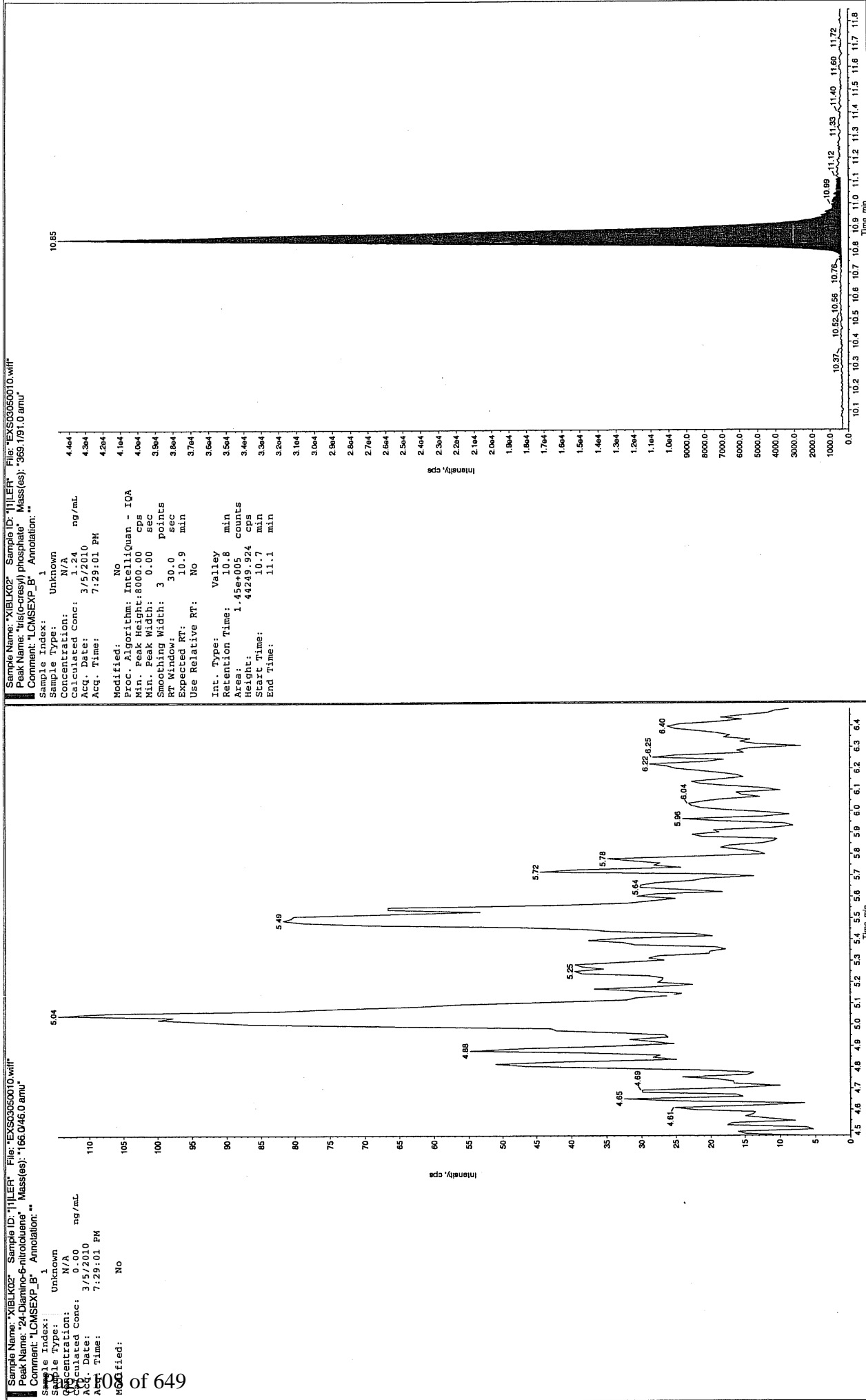
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 7:29:01 PM
 Modified: No



Sample Name: "XIBLK02" Sample ID: "1111ER" File: "EXS03050010.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1451.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 7:29:01 PM
 Modified: No





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 05-MAR-10 20:00

GEL Data File: EXS03050012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0

Scan 319/10

Sample Name: "XIBLK03" Sample ID: "1111ER" File: "EXS03050012.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0460 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

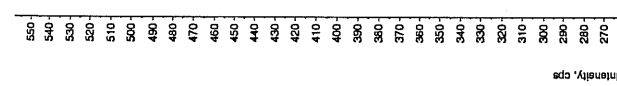
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/5/2010

Acq. Time: 8:00:24 PM

Modified: No



8/11/03 10:10

Sample Name: "XIBLK03" Sample ID: "1111ER" File: "EXS03050012.wif"

Peak Name: "1A1B" Mass(es): "257.22049 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

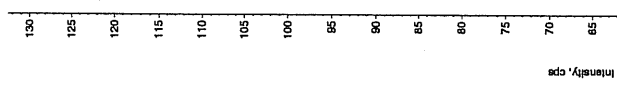
Concentration: N/A

Calculated Conc: 0.00 ng/mL

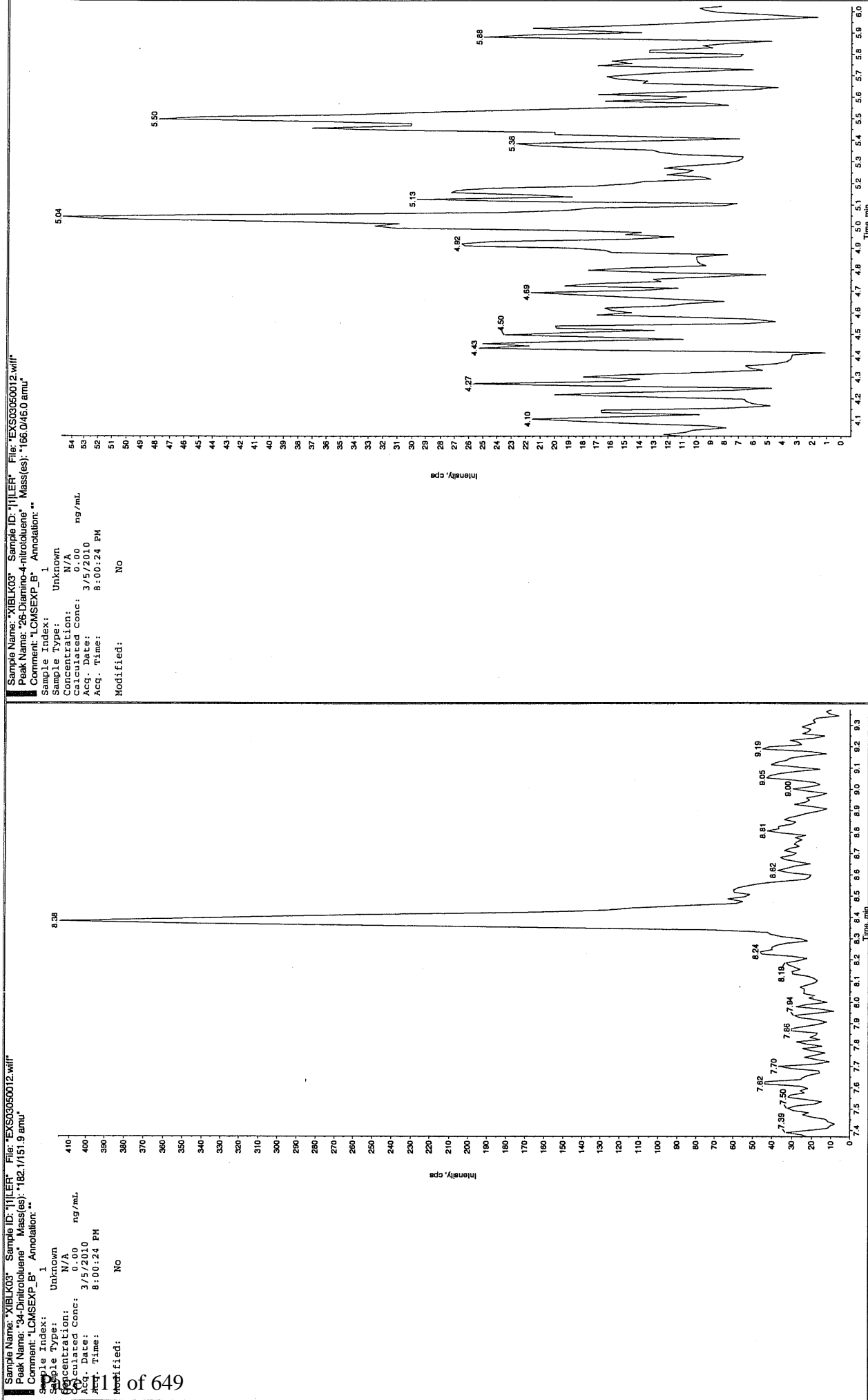
Acq. Date: 3/5/2010

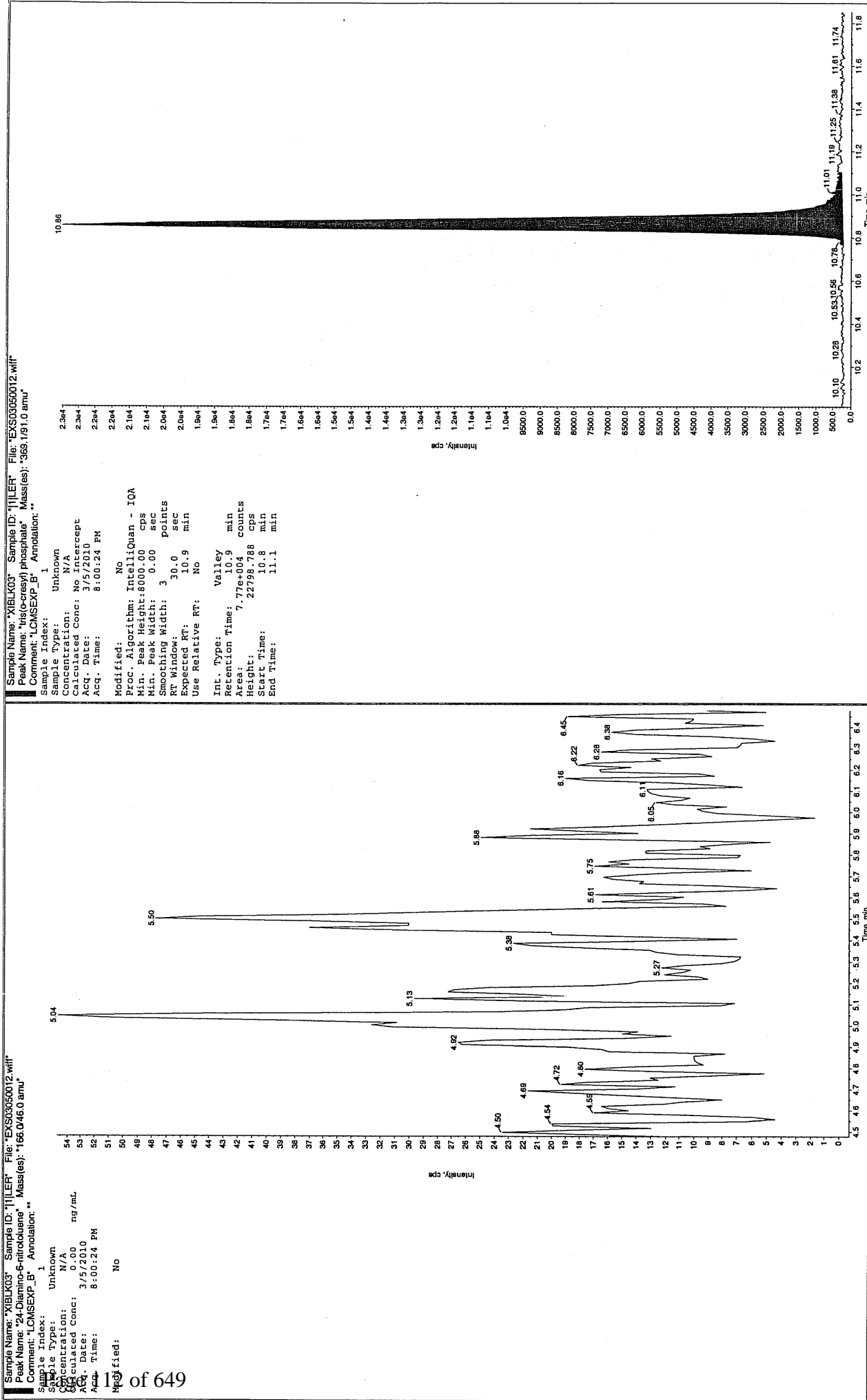
Acq. Time: 8:00:24 PM

Modified: No



649





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 05-MAR-10 23:24

GEL Data File: EXS03050025.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/9/10

Sample Name: "XIBLK04" Sample ID: "HILF" File: "EXS03050025.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Calculated Conc: 3/5/2010

Acq. Date: 11:24:26 PM

Acq. Time: 11:24:26 PM

Modified: No

Sample Name: "XIBLK04" Sample ID: "HILF" File: "EXS03050025.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1

Sample Type: Unknown

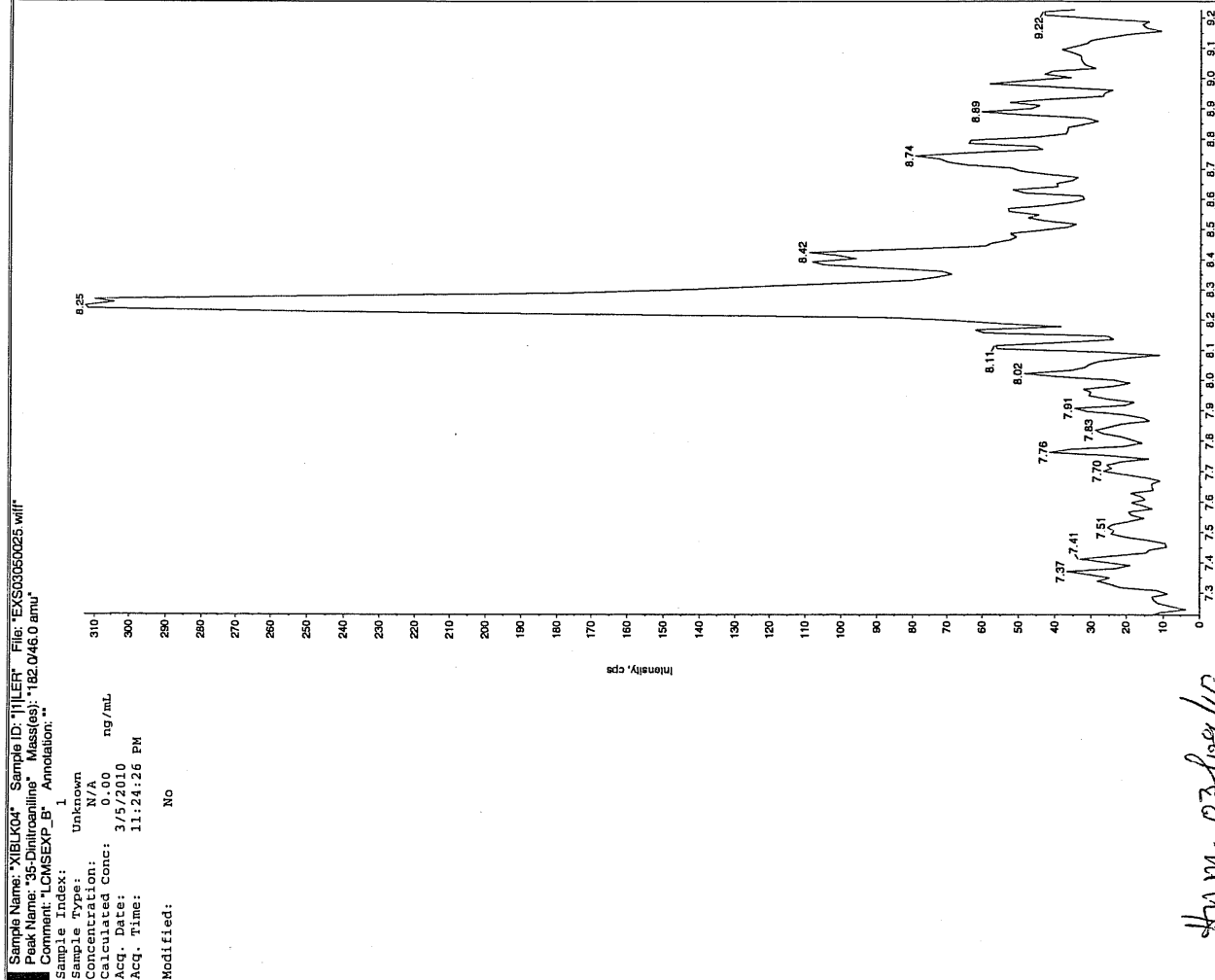
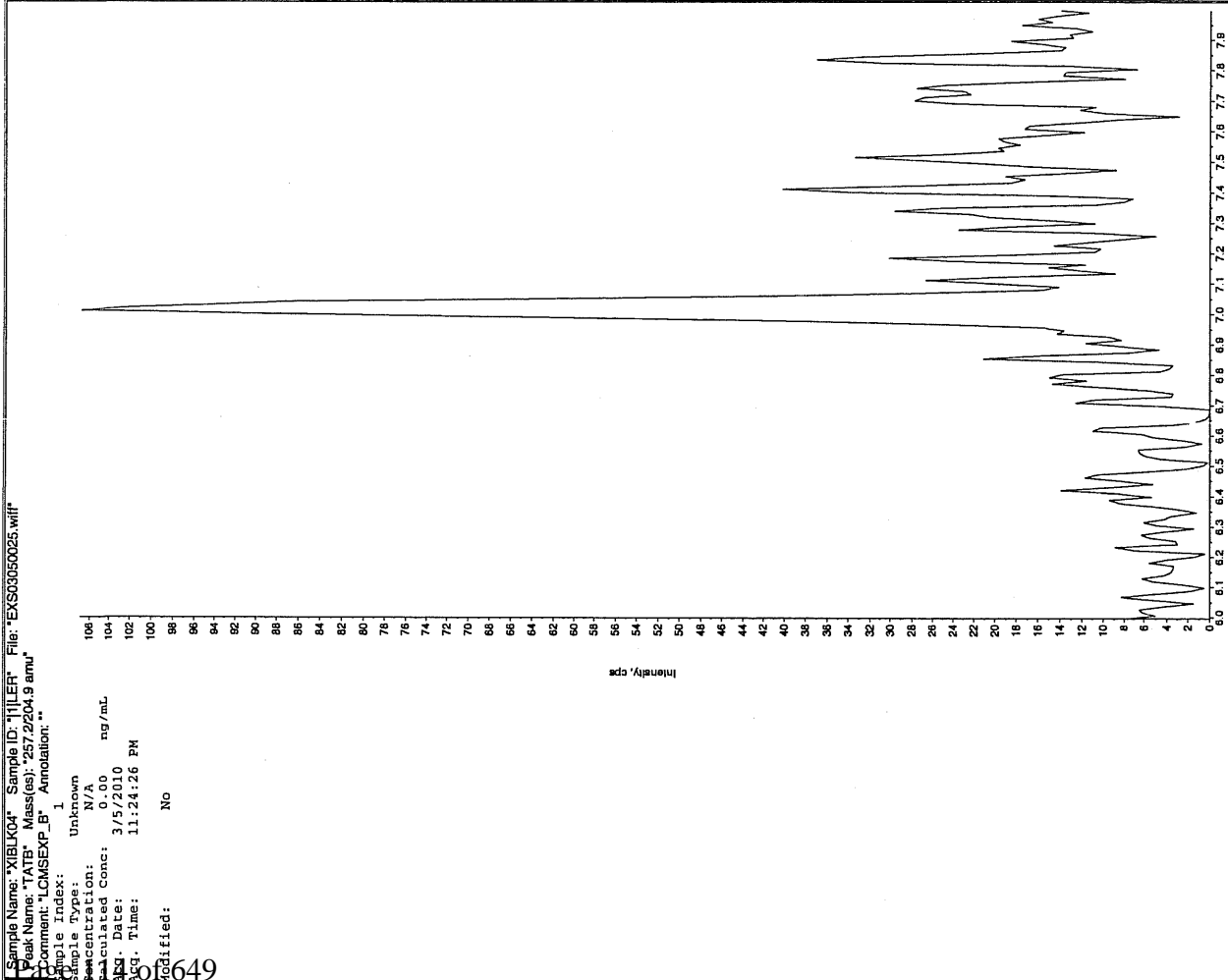
Concentration: 0.00 ng/mL

Calculated Conc: 3/5/2010

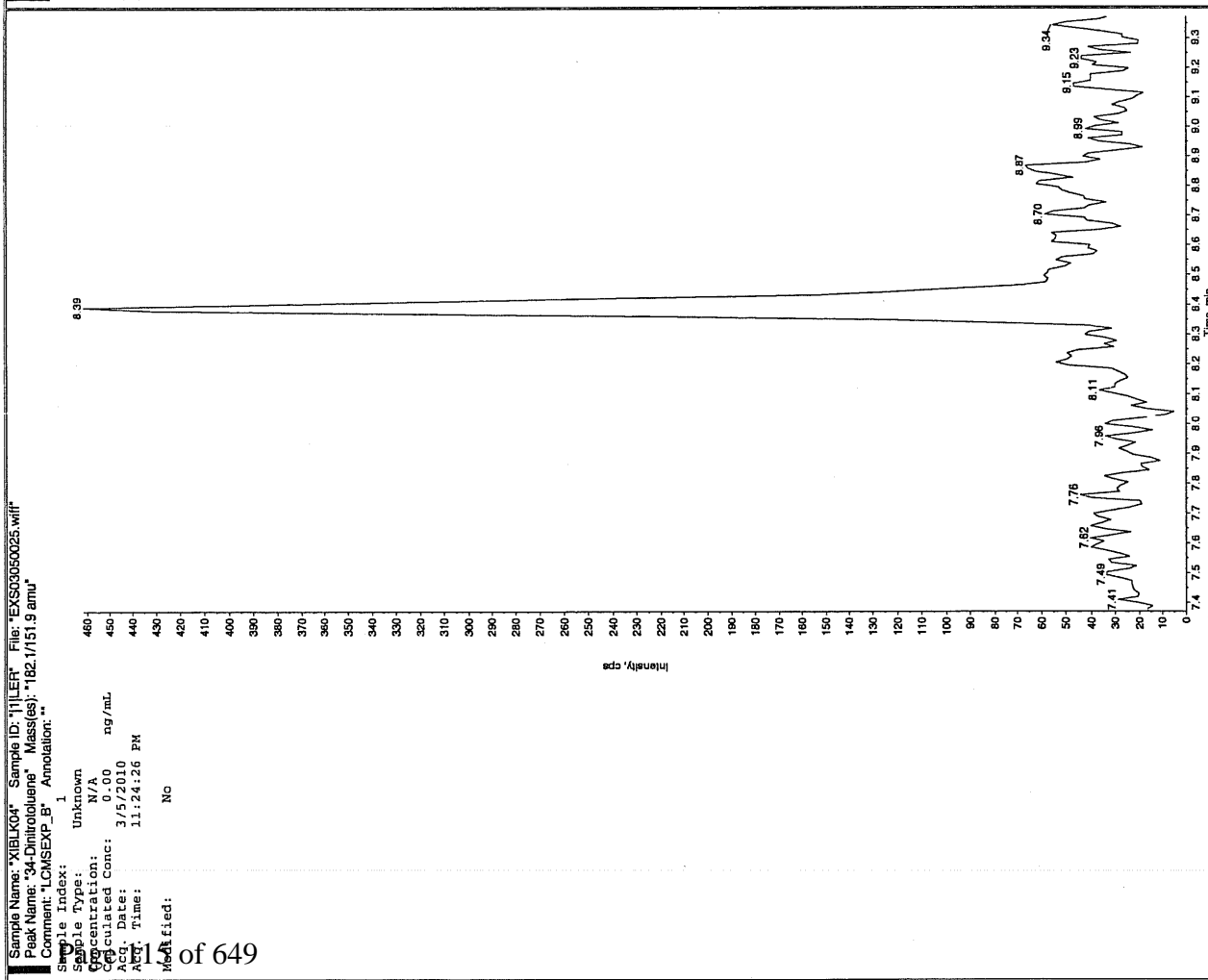
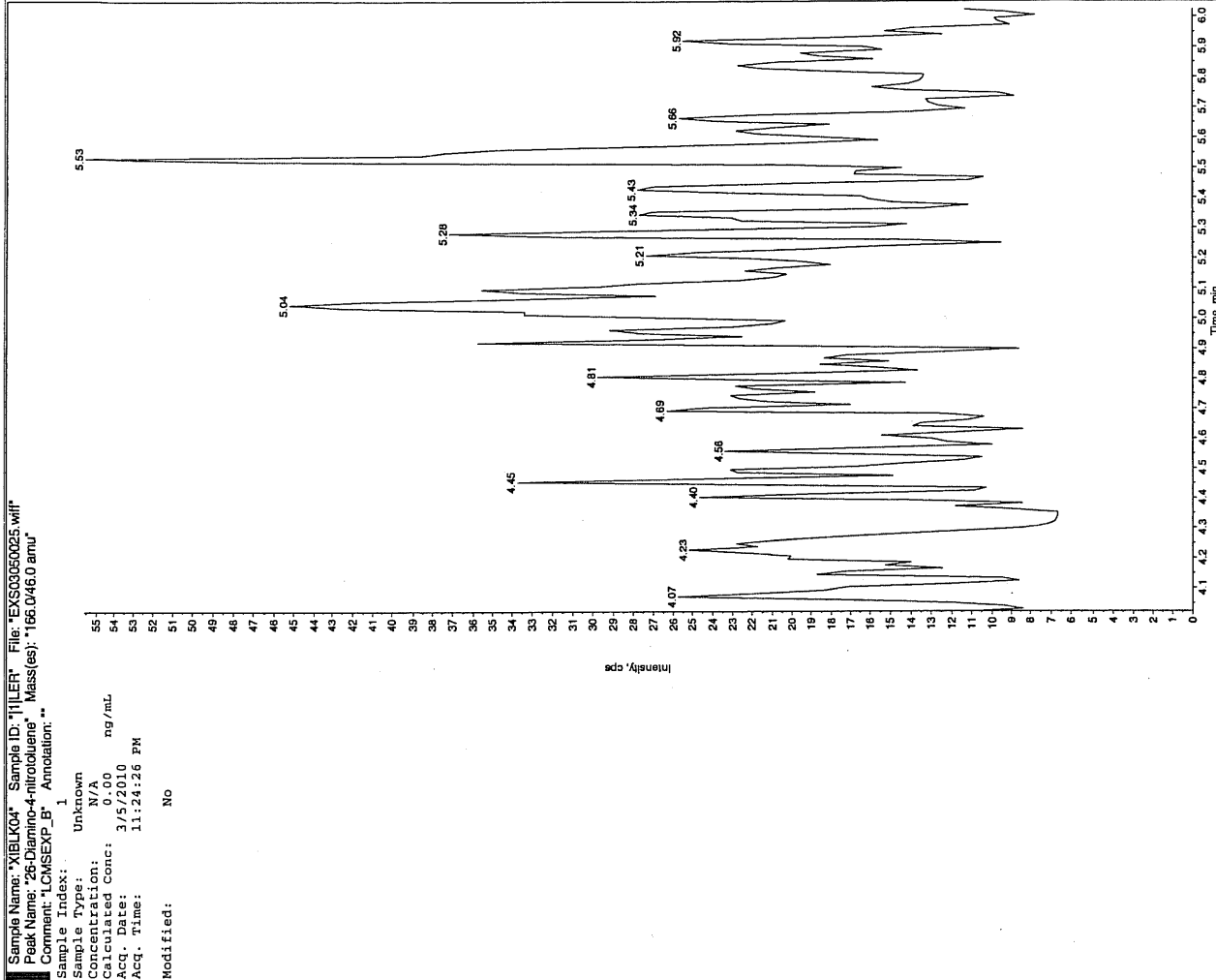
Acq. Date: 11:24:26 PM

Acq. Time: 11:24:26 PM

Modified: No

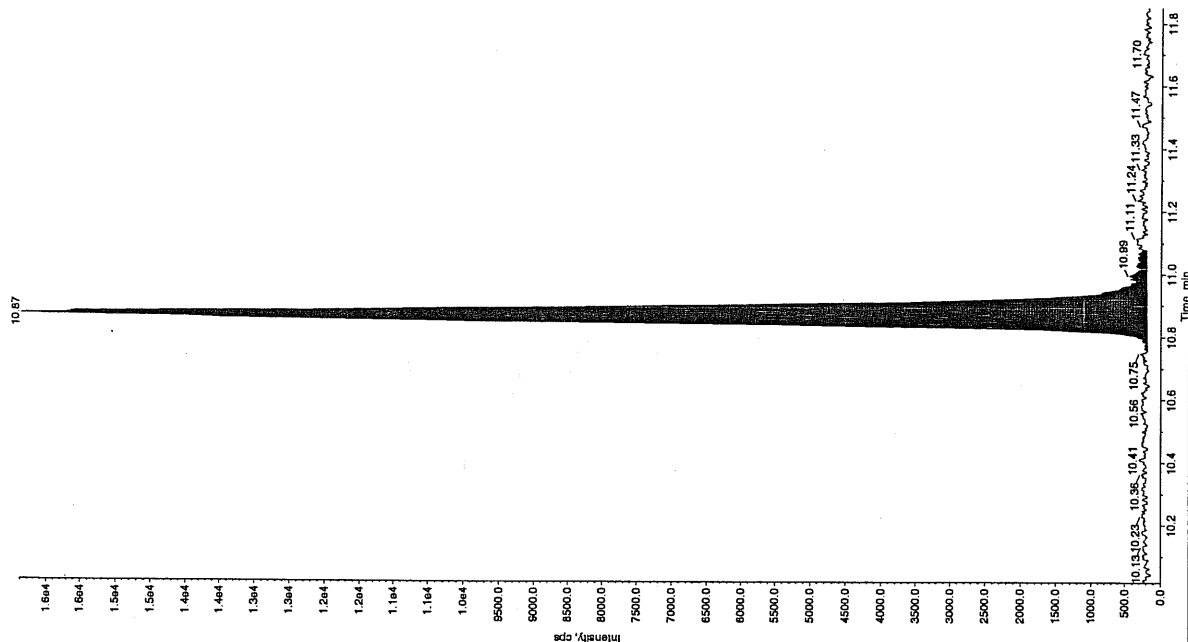


See 03/09/10



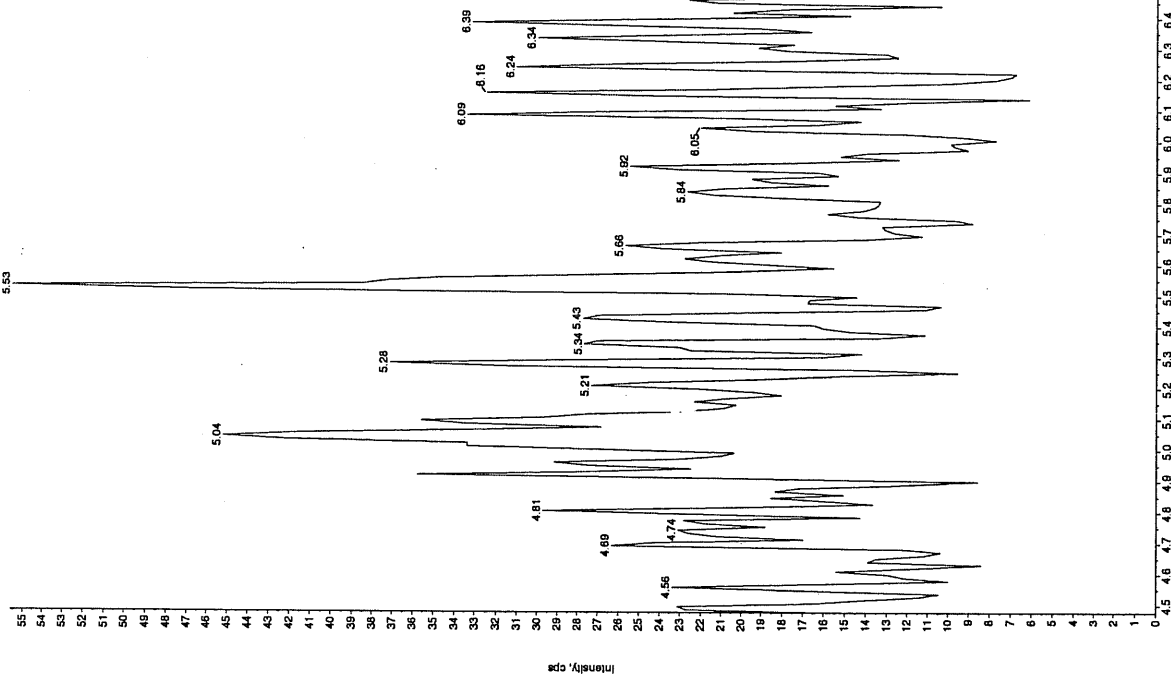
Sample Name: "XIBLK04" Sample ID: "1111ER" File: "EXS03050025.wif"
 Peak Name: "Ins(o-cresyl) phosphate" Mass(es): "369.191.0 and
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/5/2010
 Acq. Time: 11:24:26 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 5.49e+004 counts
 Height: 16220.448 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XIBLK04" Sample ID: "1111ER" File: "EXS03050025.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 11:24:26 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 06-MAR-10 02:17

GEL Data File: EXS03050036.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/2/10

Sample Name: "XIBLK05" Sample ID: "J11LER" File: "EXS03050036.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0460 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

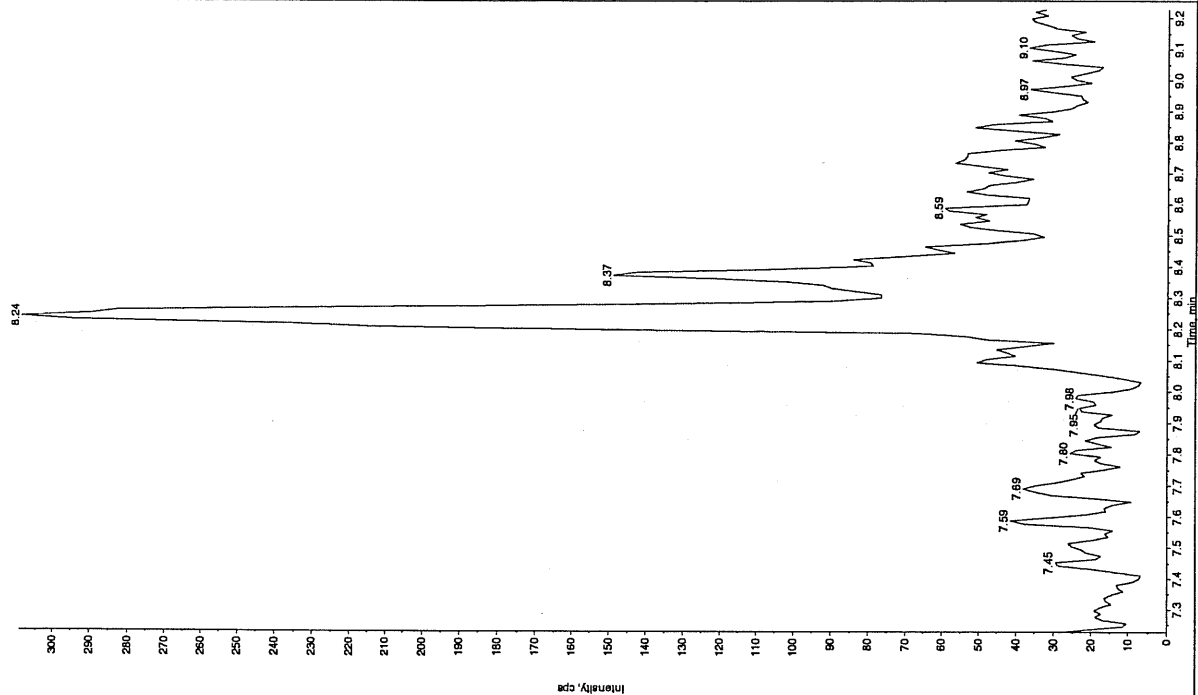
Concentration: 0.00 ng/mL

Calculated Conc: 3/6/2010

Acq. Date: 2:17:09 AM

Acq. Time: 2:17:09 AM

Modified: No



See 07/09/10

Sample Name: "XIBLK05" Sample ID: "J11LER" File: "EXS03050036.wif"

Peak Name: "TATB" Mass(es): "257.22049 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

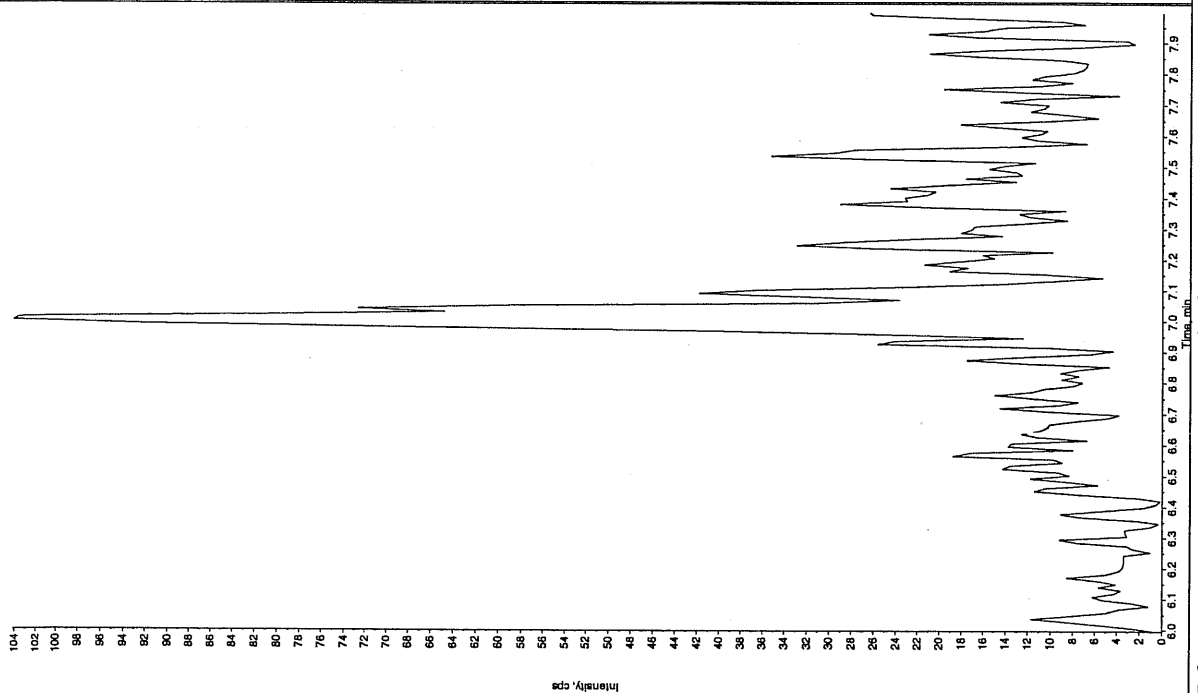
Concentration: 0.00 ng/mL

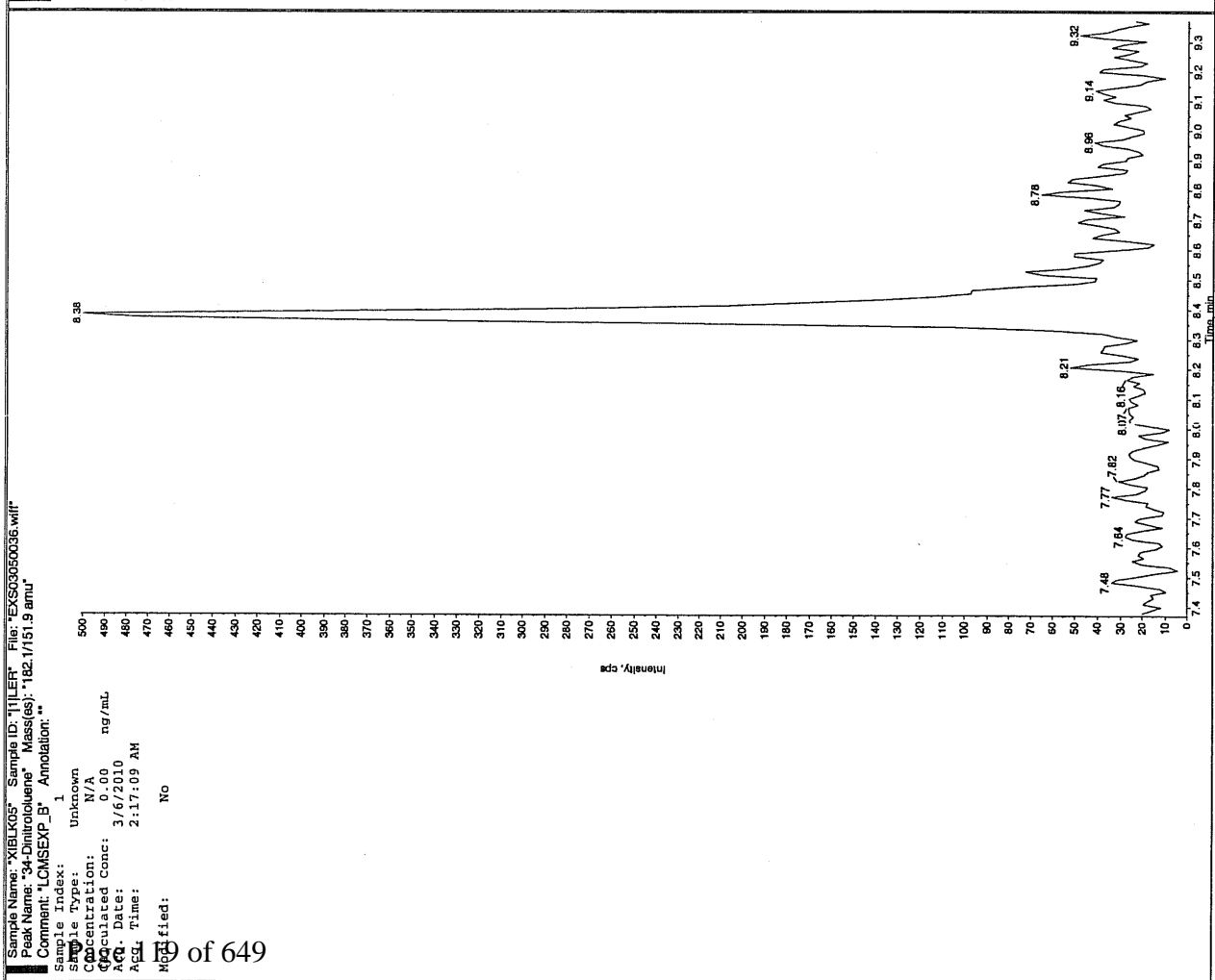
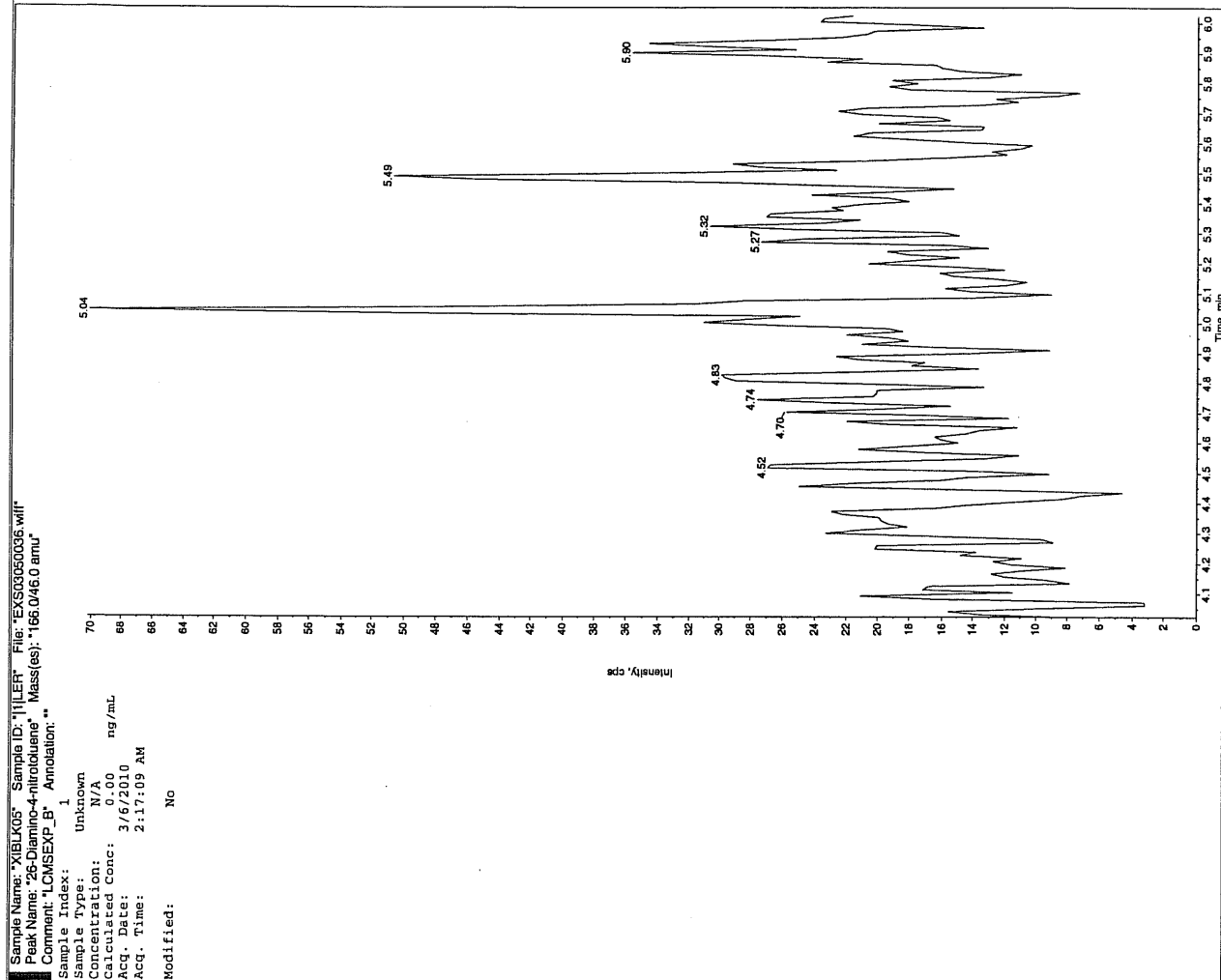
Calculated Conc: 3/6/2010

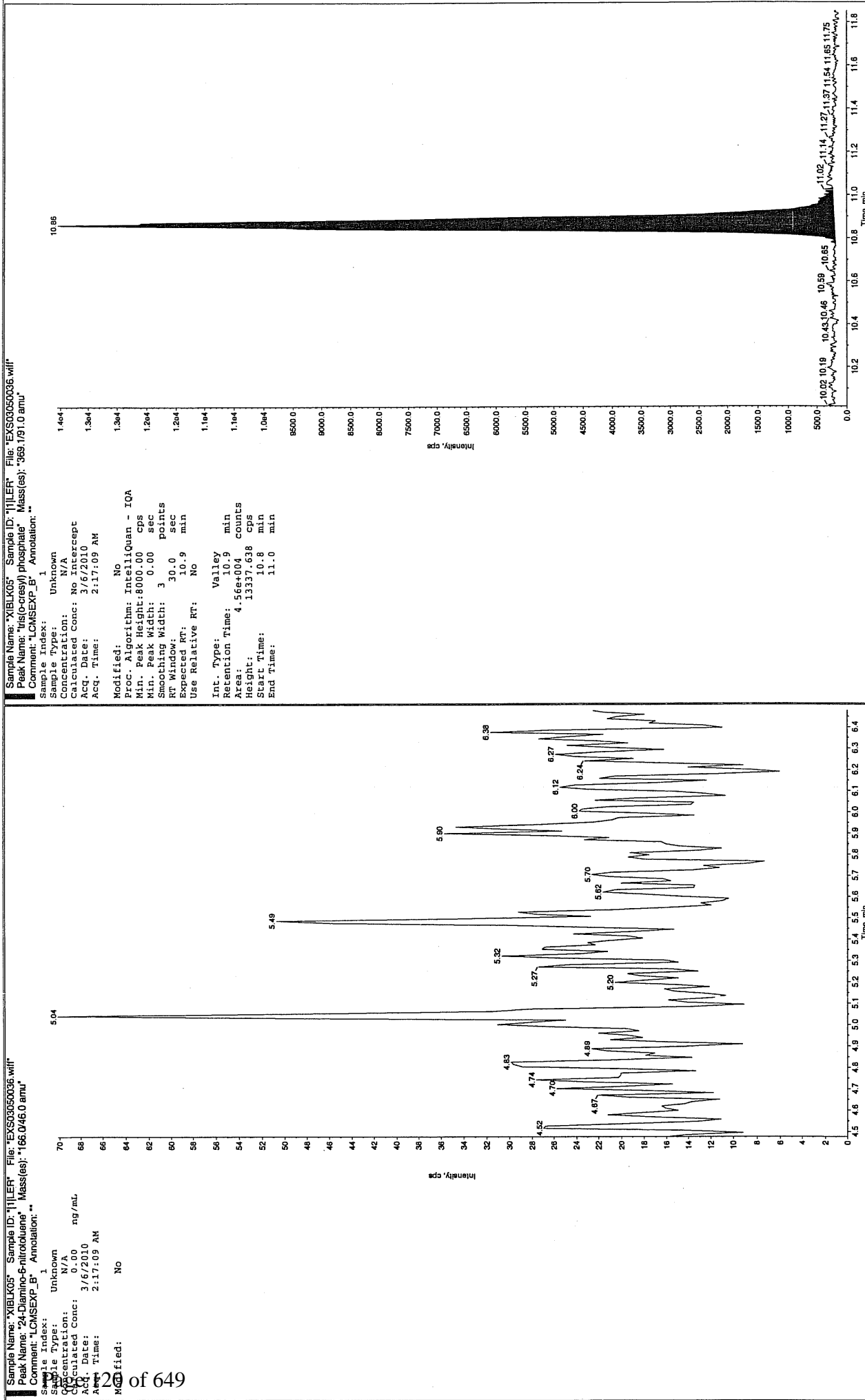
Acq. Date: 2:17:09 AM

Acq. Time: 2:17:09 AM

Modified: No







4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 06-MAR-10 05:41

GEL Data File: EXS03050049.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

San 3/9/10

Sample Name: "XIBLK06" Sample ID: "111ER" File: "EXS0050049.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

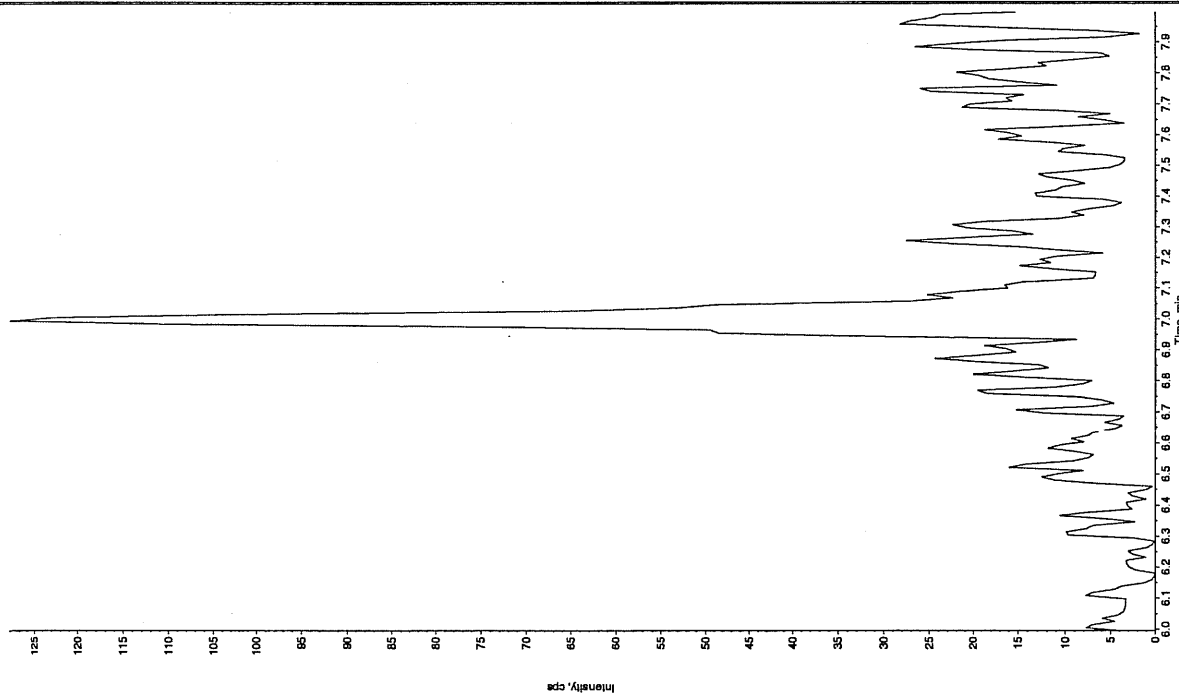
Sample Type: Unknown

Concentration: N/A ng/mL

Acquisition Date: 3/6/2010

Acq. Time: 5:41:16 AM

Modified: No



Sample Name: "XIBLK06" Sample ID: "111ER" File: "EXS0050049.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

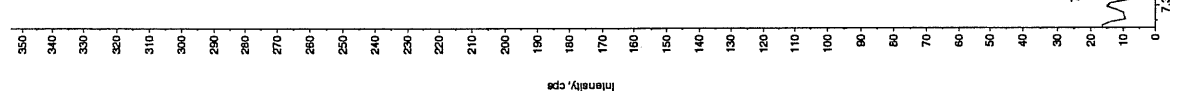
Sample Type: Unknown

Concentration: N/A ng/mL

Acquisition Date: 3/6/2010

Acq. Time: 5:41:16 AM

Modified: No



Sample Name: "XIBLK06" Sample ID: "111ER" File: "EXS0050049.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

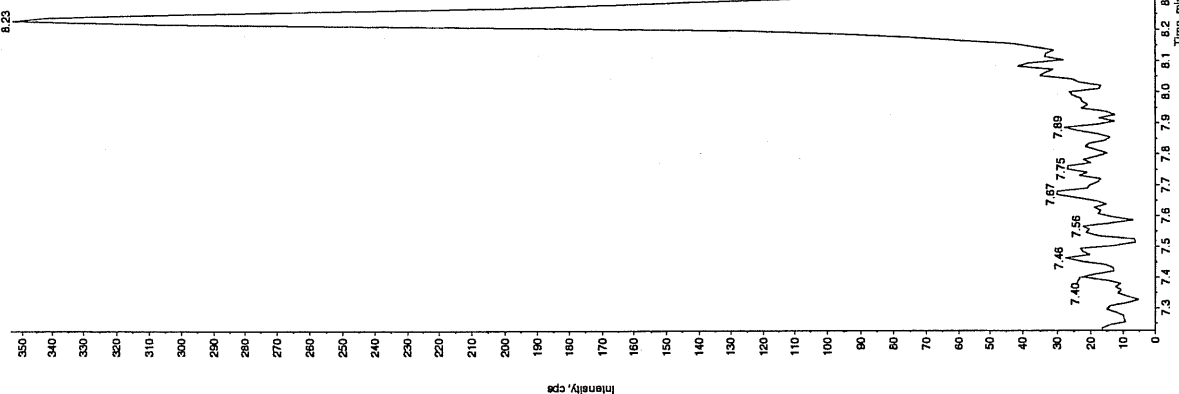
Sample Type: Unknown

Concentration: N/A ng/mL

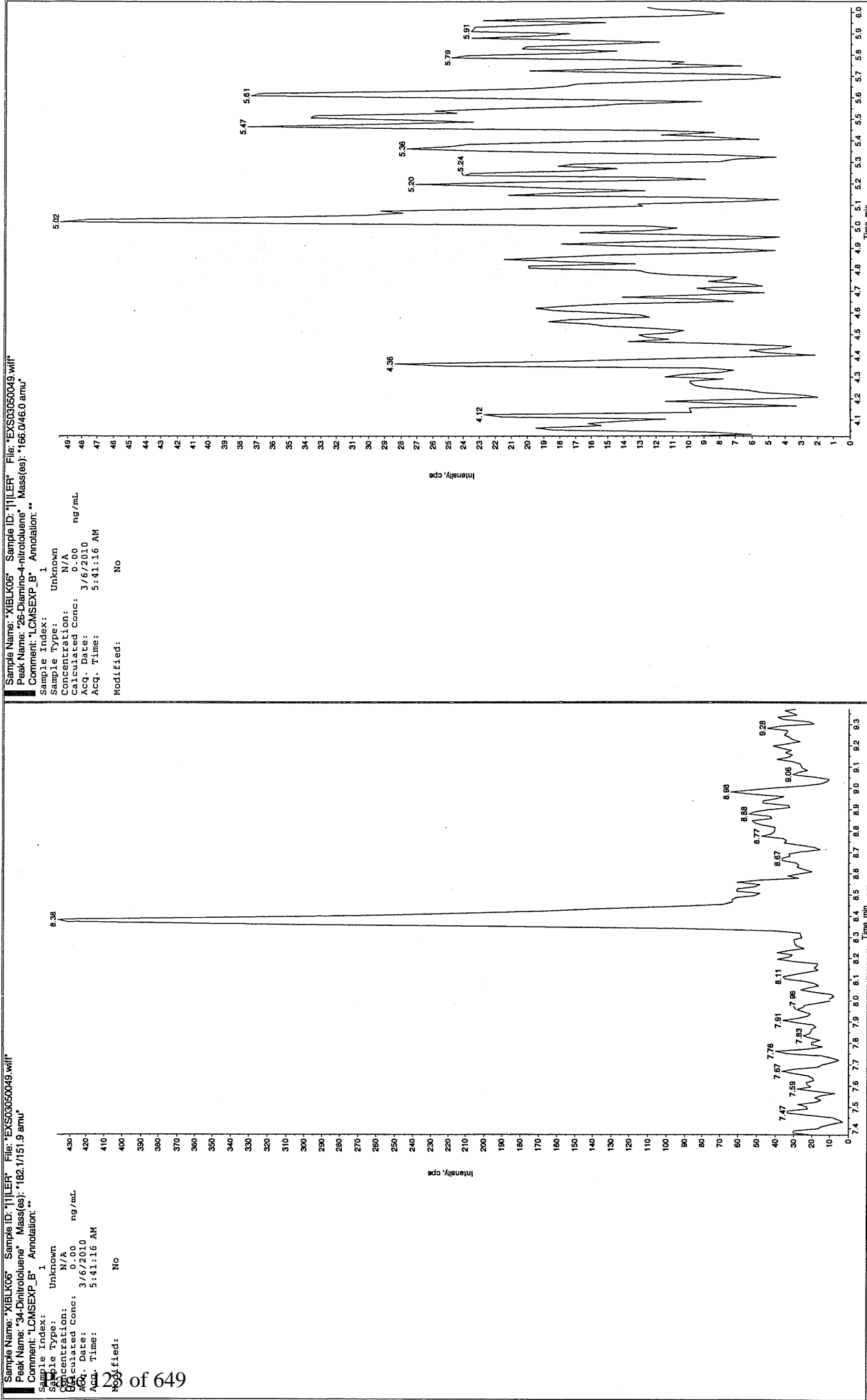
Acquisition Date: 3/6/2010

Acq. Time: 5:41:16 AM

Modified: No

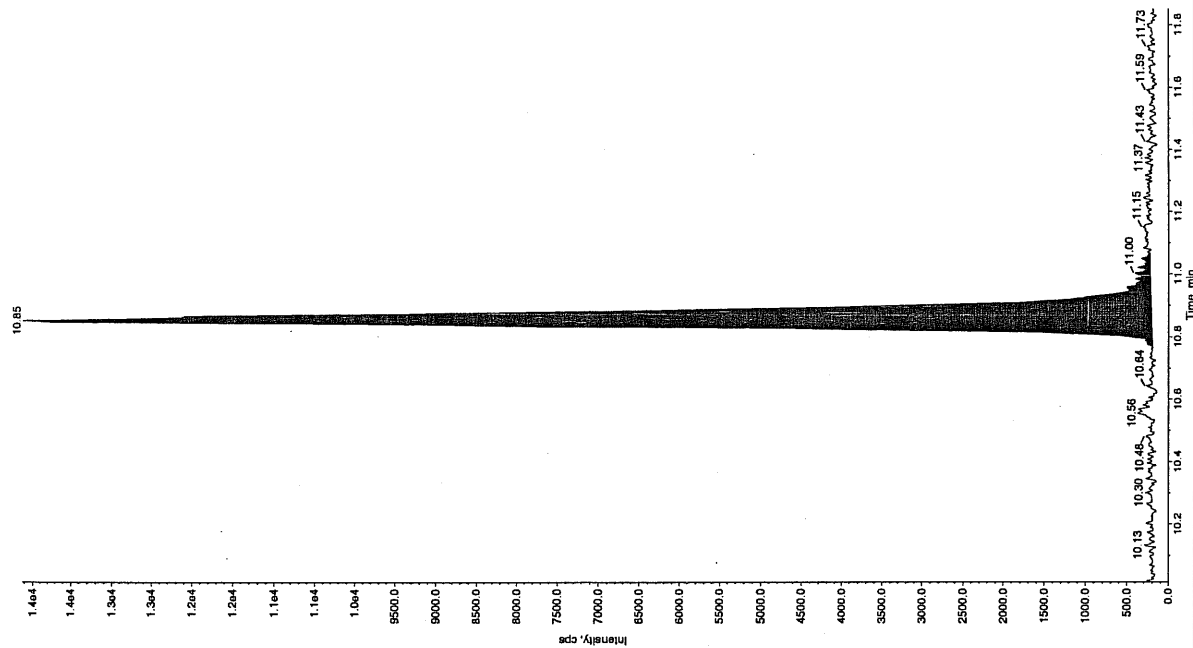


San 03/09/10



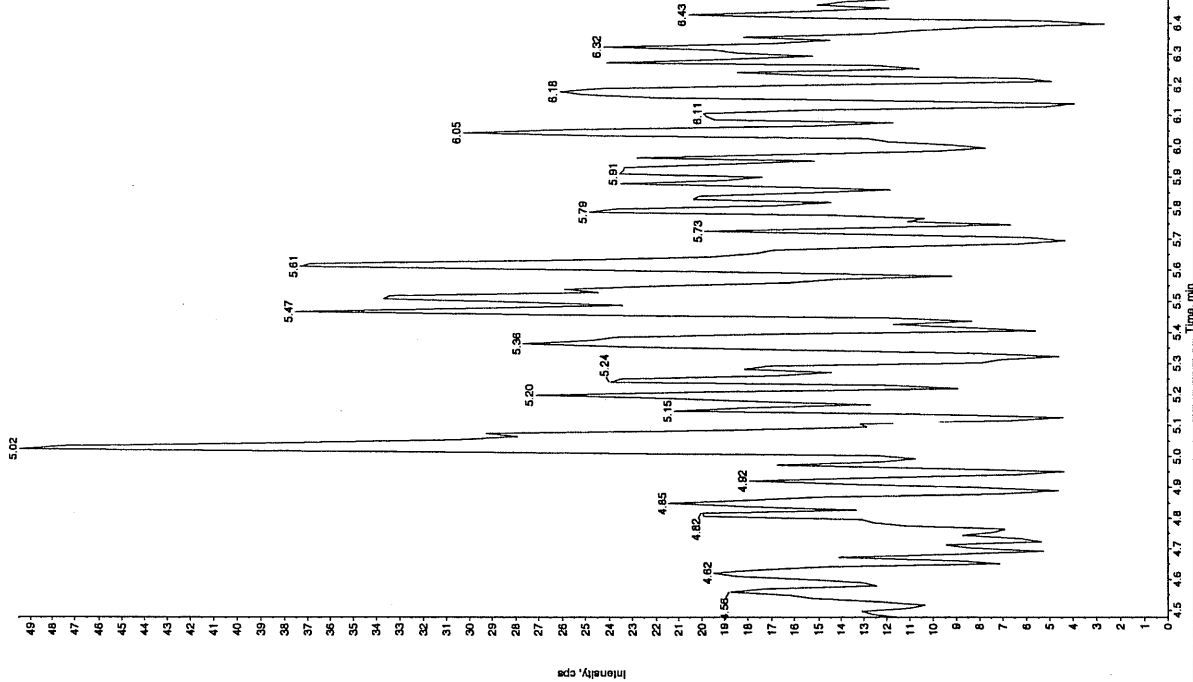
Sample Name: "XIBLK05" Sample ID: "1111ER" File: "EXS03050049.wif"
 Peak Name: "tris(2-chloroethyl) phosphate" Mass(es): "369.1791.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/6/2010
 Acq. Time: 5:41:16 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.64e+004 counts
 Height: 13920.753 cps
 Start Time: 10.6 min
 End Time: 11.1 min



Sample Name: "XIBLK05" Sample ID: "1111ER" File: "EXS03050049.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:41:16 AM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 06-MAR-10 08:49

GEL Data File: EXS03050061.wiff

Instrument ID: LCMSMS

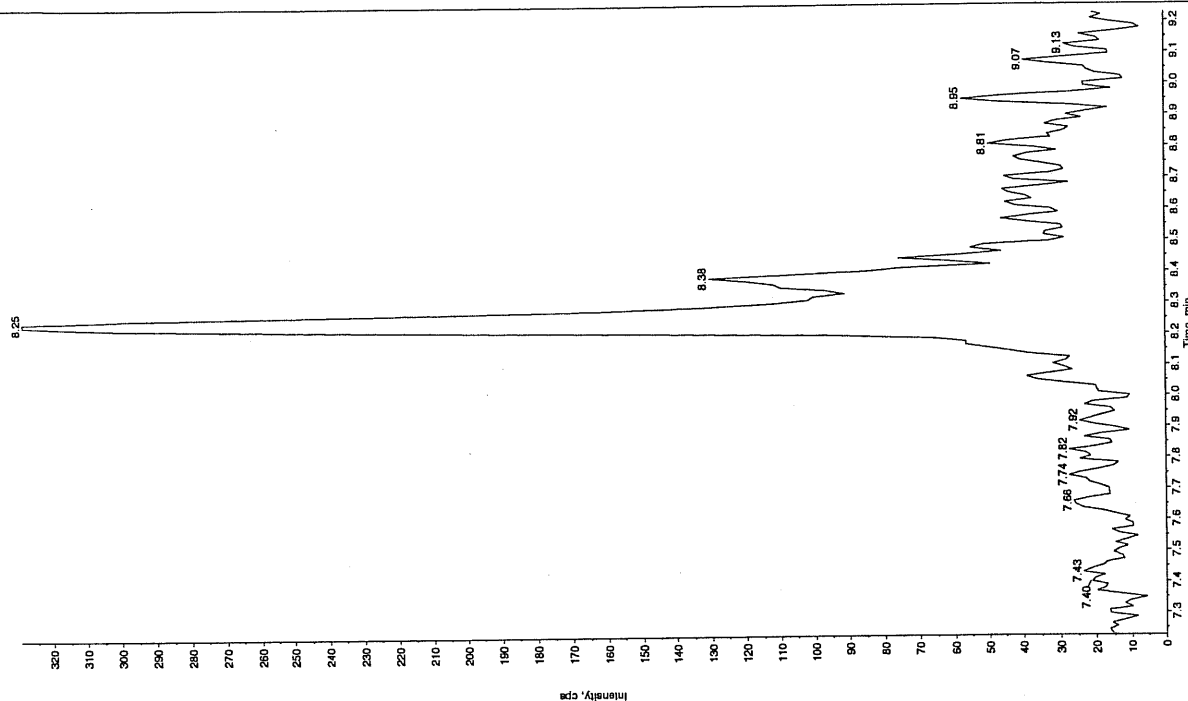
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/9/10

Sample Name: "XIBLK07" Sample ID: "JILLER" File: "EXS03050061.will"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

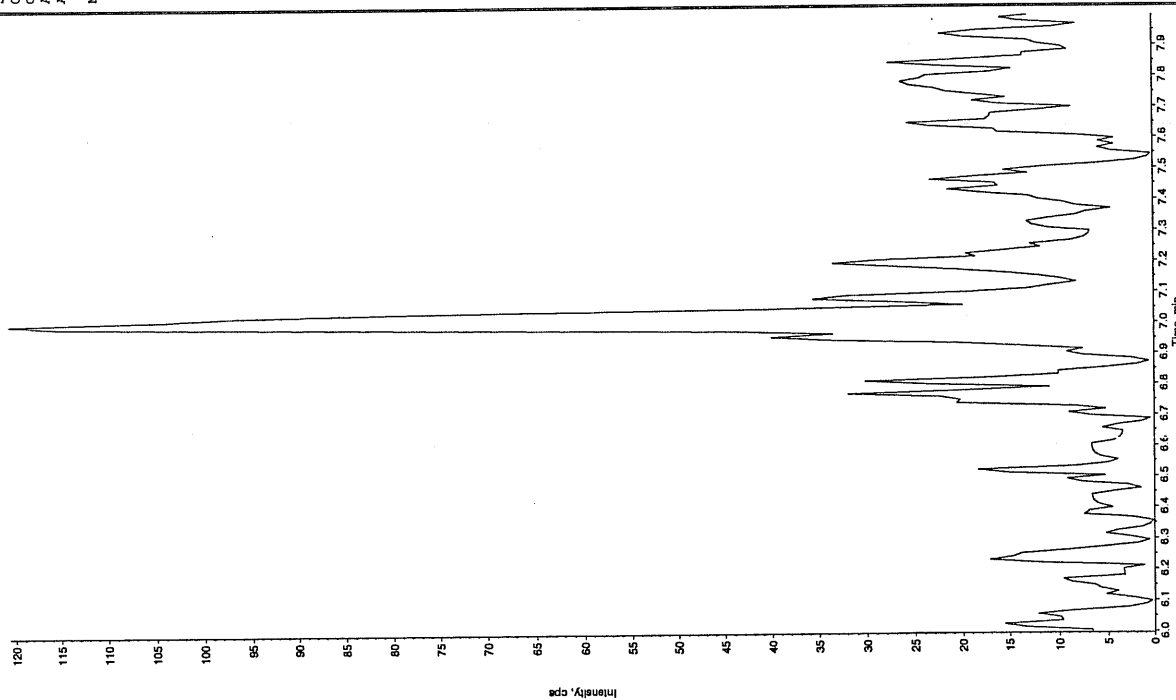
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:49:43 AM
 Modified: No



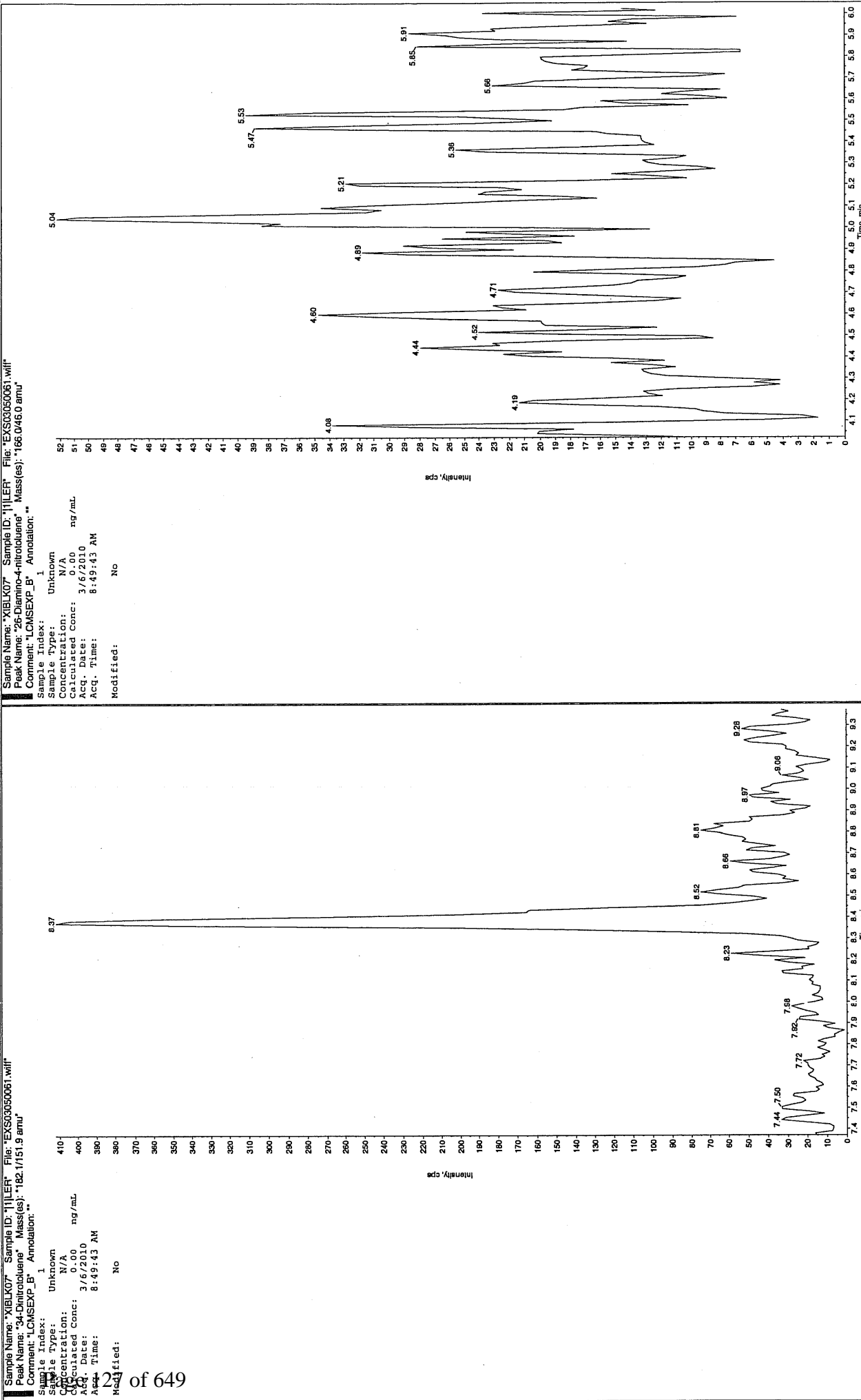
Time 08/09/10

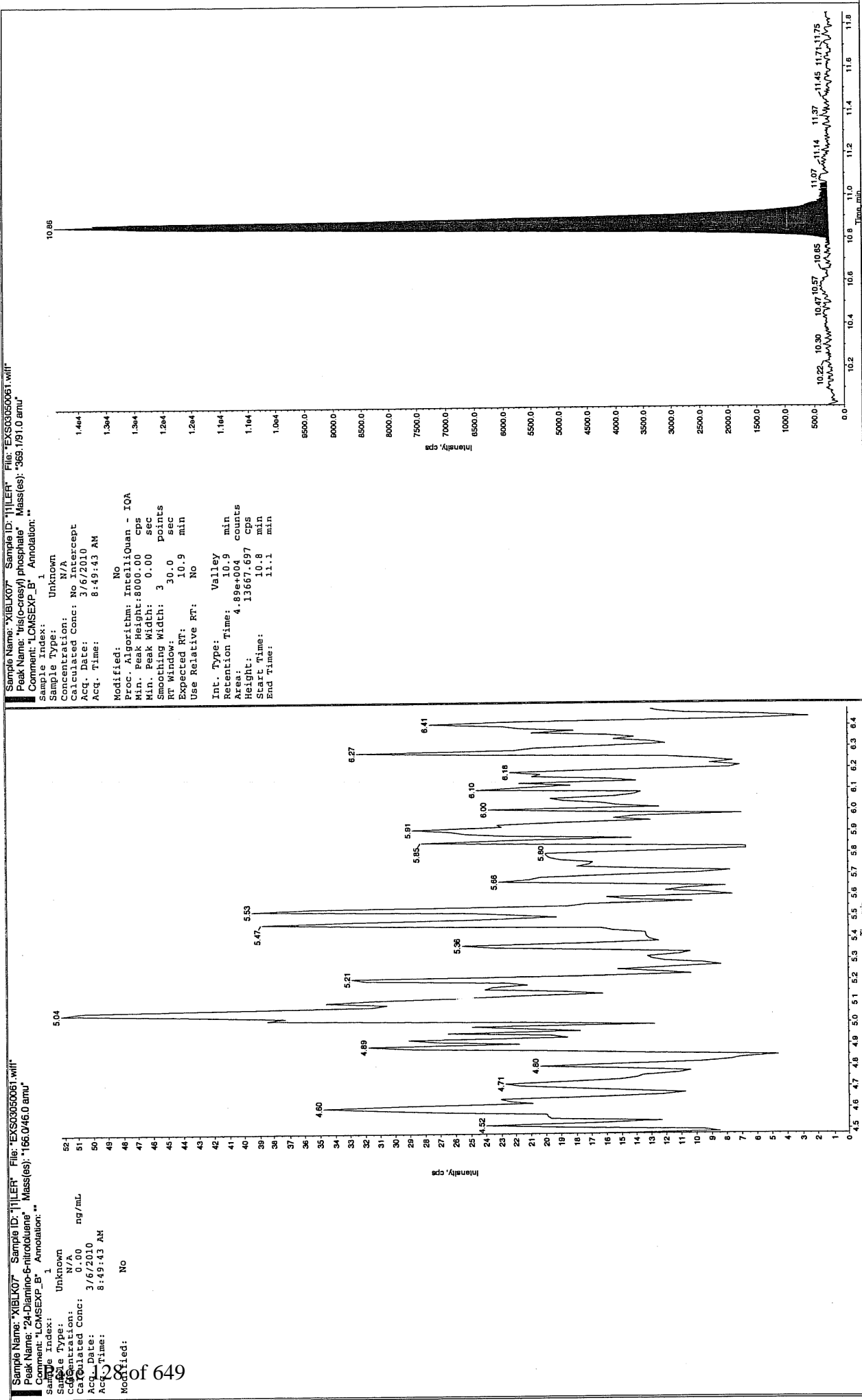
Sample Name: "XIBLK07" Sample ID: "JILLER" File: "EXS03050061.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:49:43 AM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 06-MAR-10 10:23

GEL Data File: EXS03050067.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/9/10

Sample Name: "XIBLK08" Sample ID: "JILER" File: "EXS03050067.will"

Peak Name: "TATB" Mass(es): "257 2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

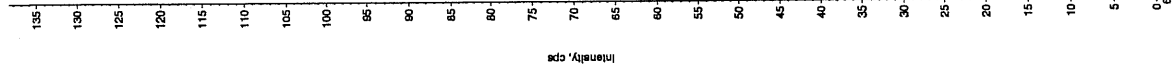
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 10:23:57 AM

Modified: No



Sample Name: "XIBLK08" Sample ID: "JILER" File: "EXS03050067.will"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

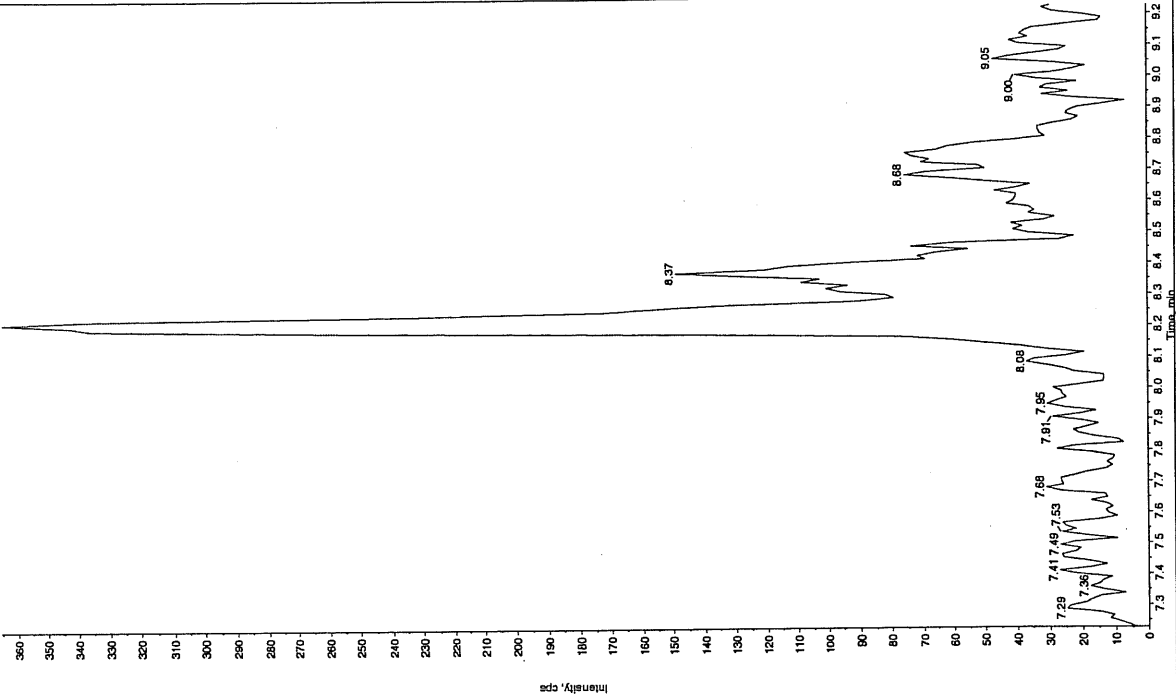
Concentration: N/A

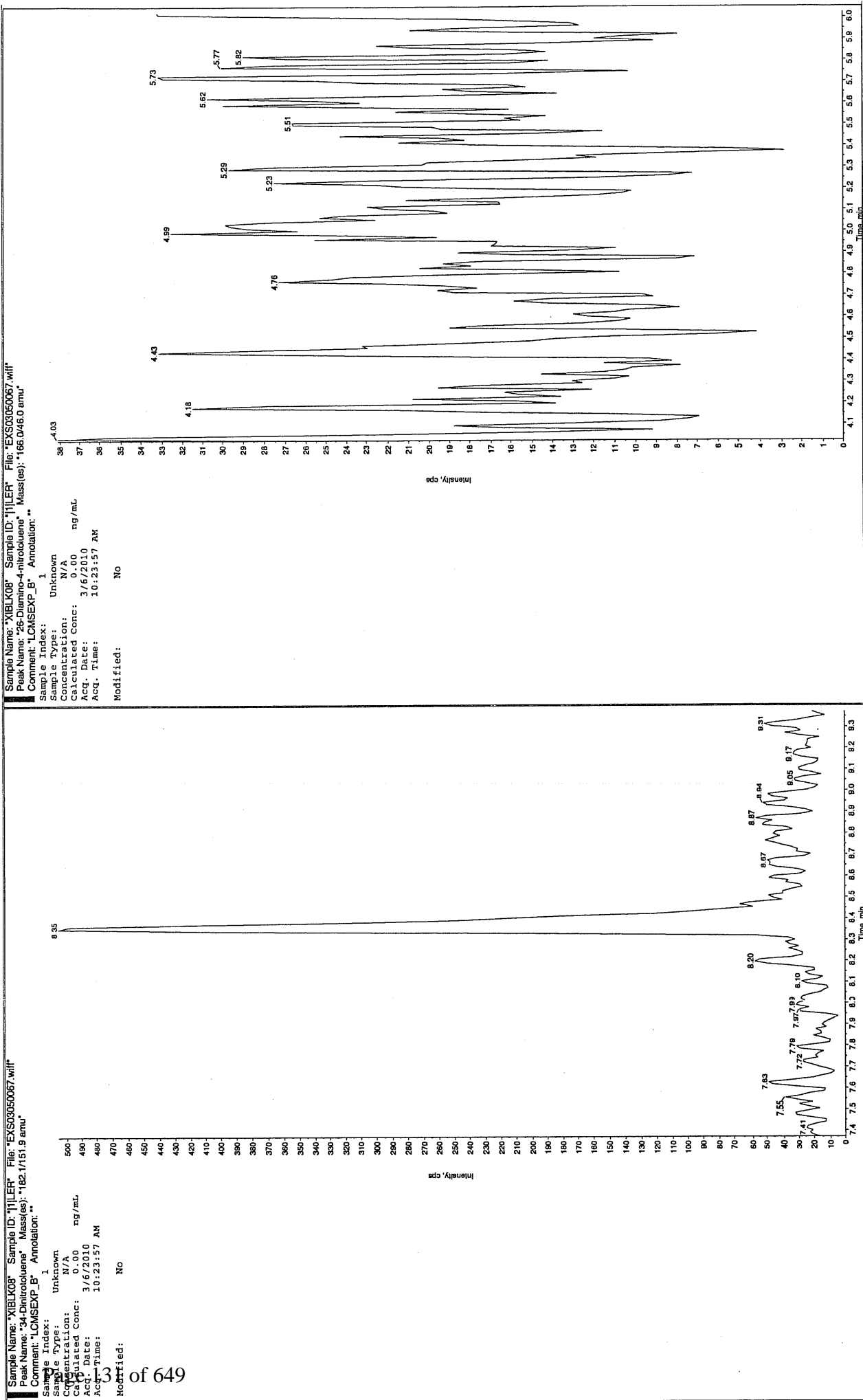
Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 10:23:57 AM

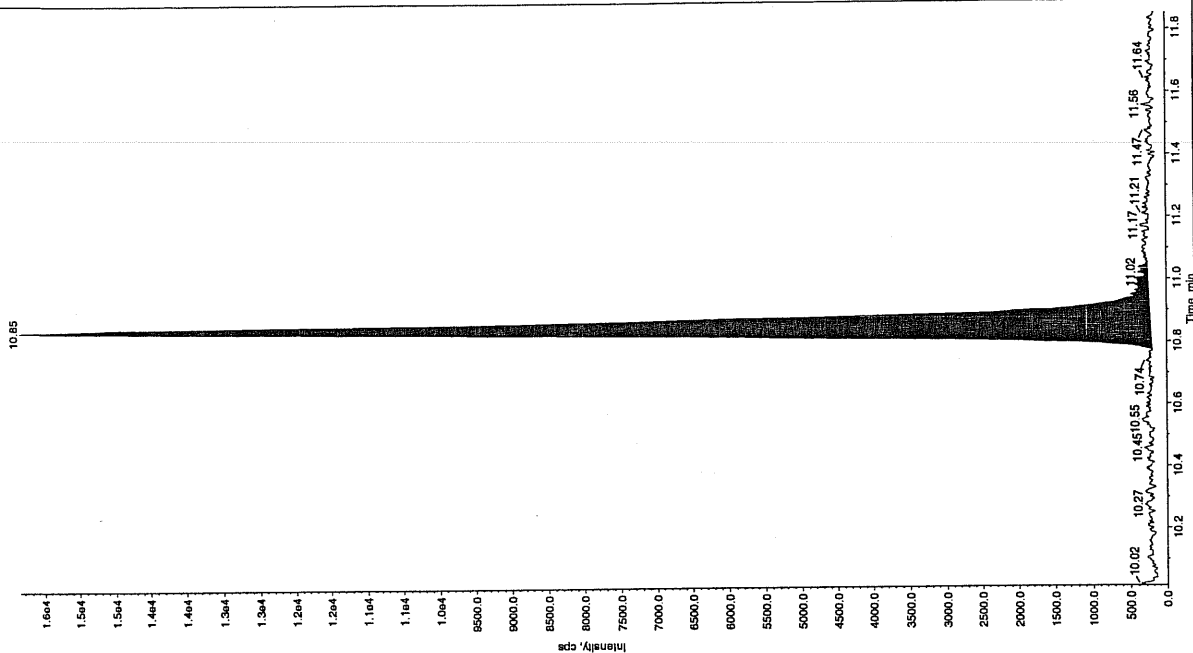
Modified: No





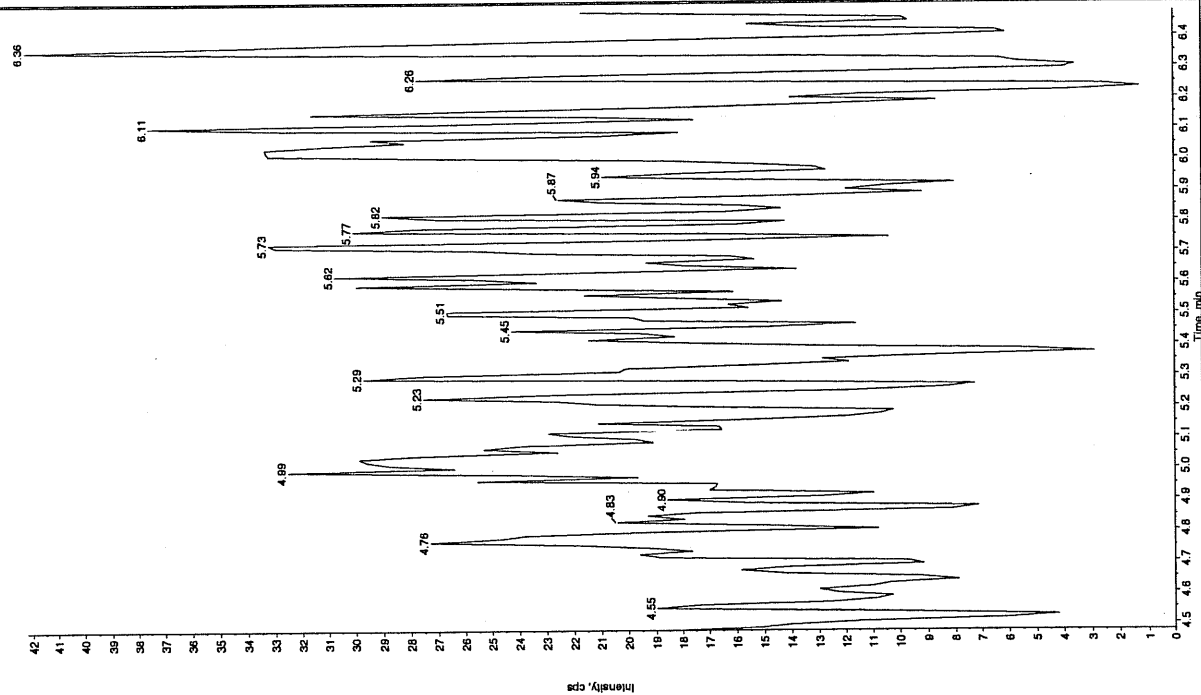
Sample Name: "XIBLK08" Sample ID: "JILLER" File: "EXS03050067.wif"
 Peak Name: "tris-(o-cresyl) phosphate" Mass(es): "359.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/6/2010
 Acq. Time: 10:23:57 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 4.83e+004 counts
 Height: 15628.639 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XIBLK08" Sample ID: "JILLER" File: "EXS03050067.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 10:23:57 AM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 06-MAR-10 13:48

GEL Data File: EXS03050080.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3a110

Sample Name: "XIBLK09" Sample ID: "1111ER" File: "EXS03050080.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 1:48:09 PM

Modified: No

Sample Name: "XIBLK09" Sample ID: "1111ER" File: "EXS03050080.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

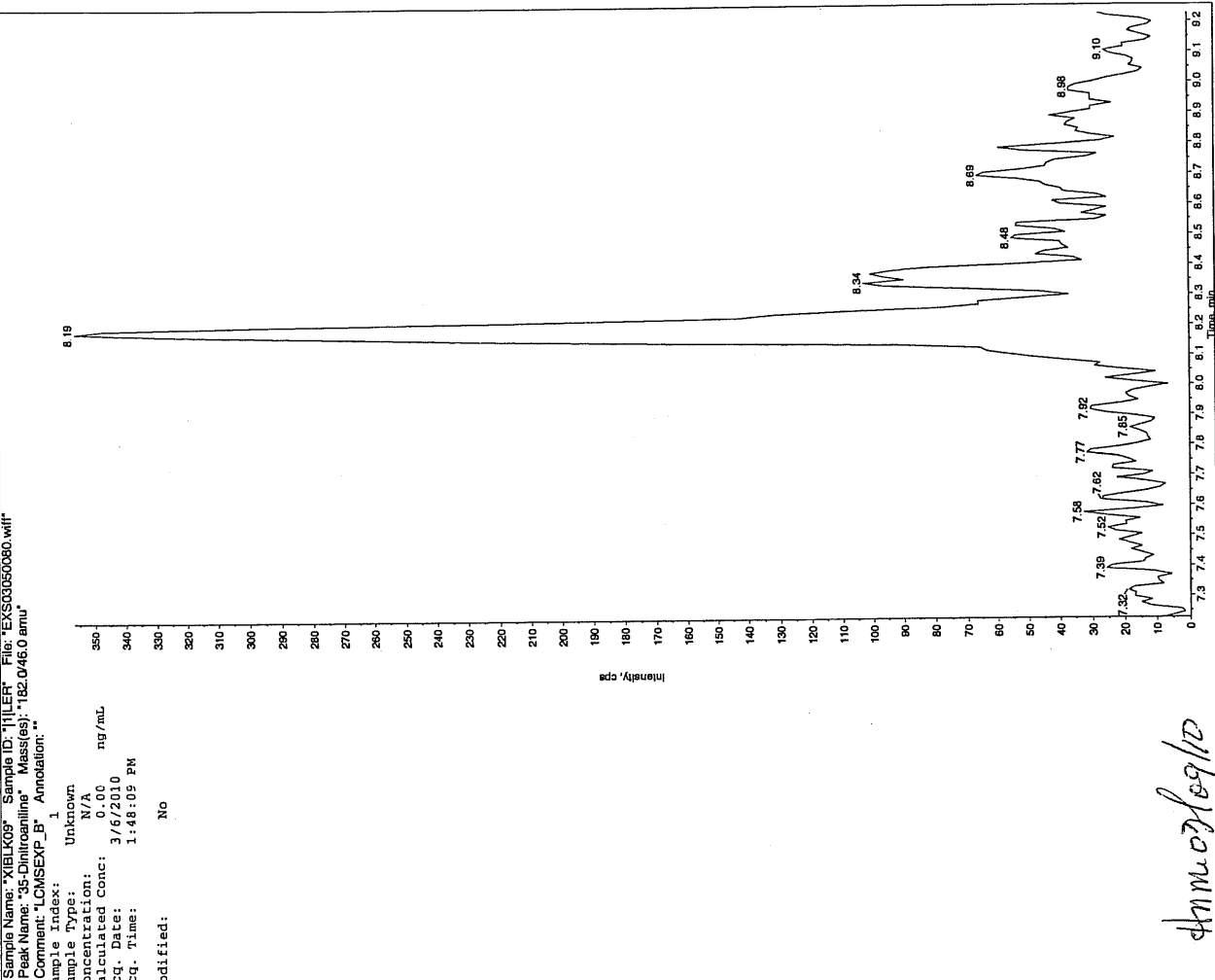
Concentration: N/A

Calculated Conc: 0.00 ng/mL

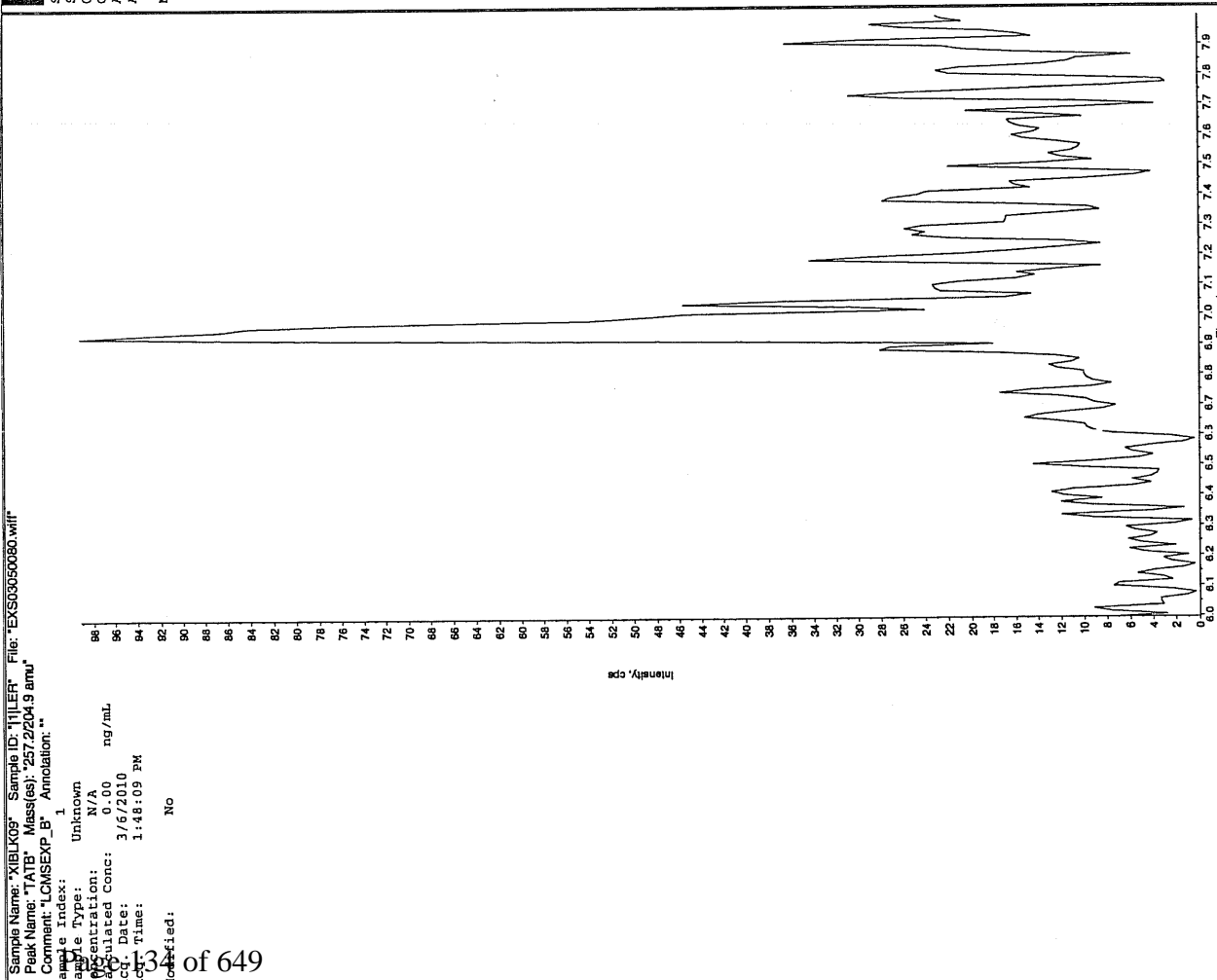
Acq. Date: 3/6/2010

Acq. Time: 1:48:09 PM

Modified: No

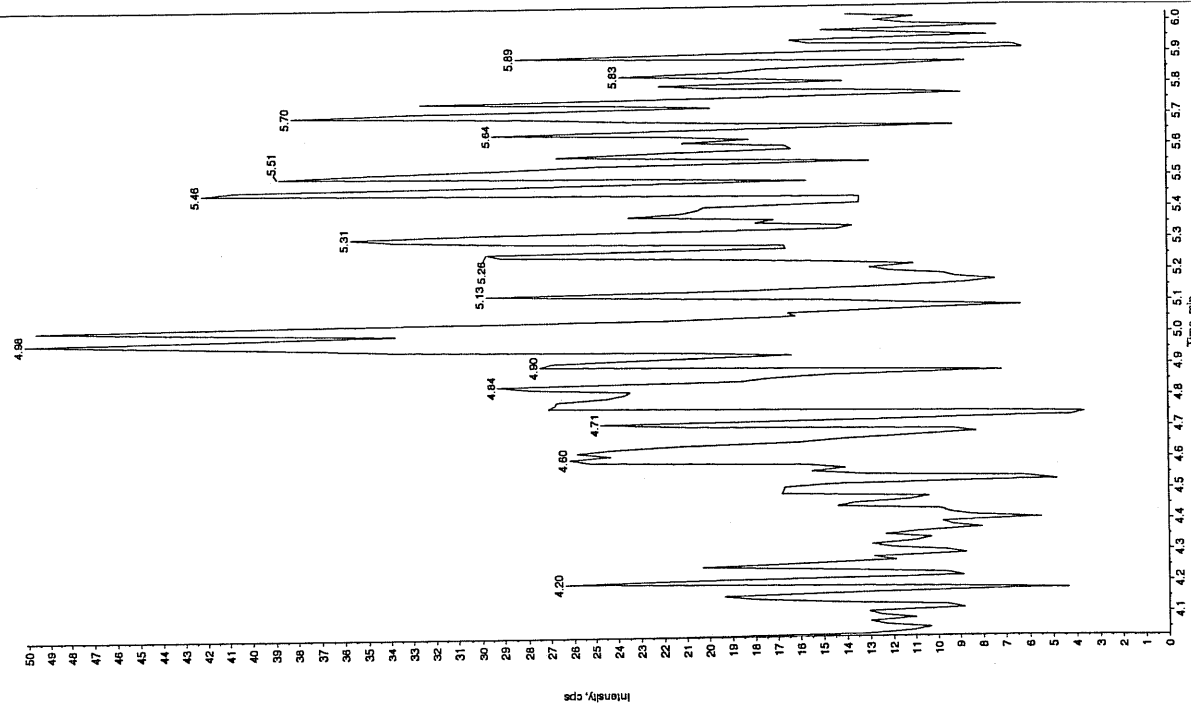


4/11/09 09:12



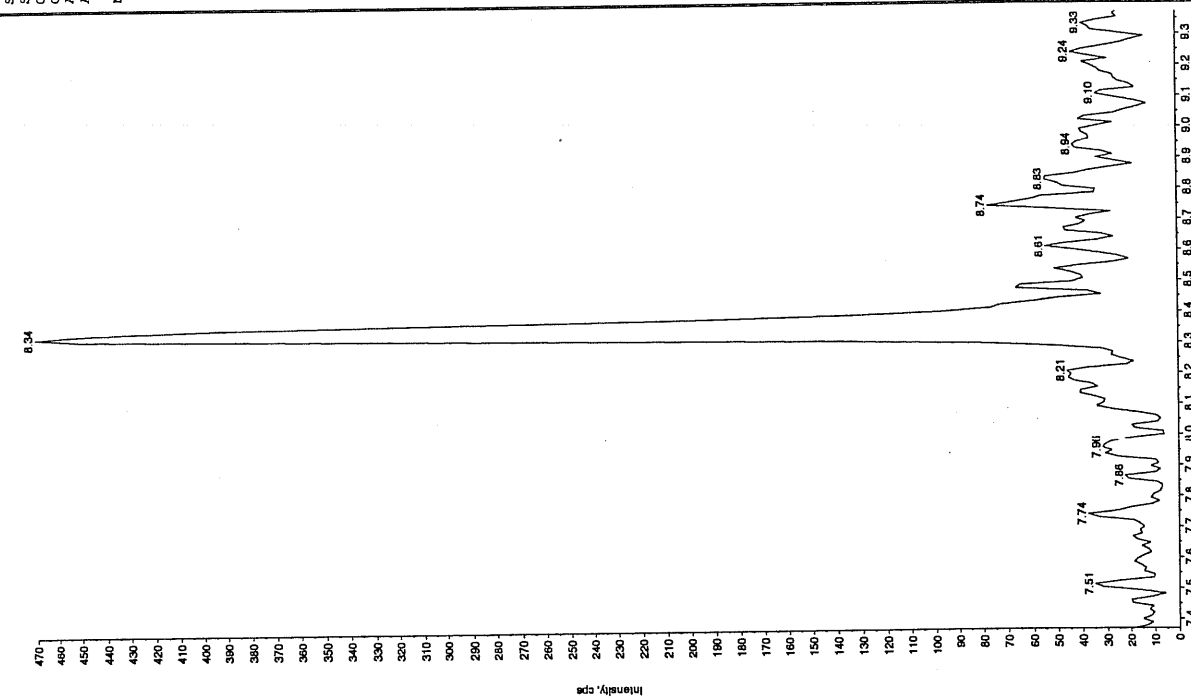
Sample Name: "XIBLK09" Sample ID: "111ER" File: "EXS03050080.wif"
 Peak Name: "2,4-Dinitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

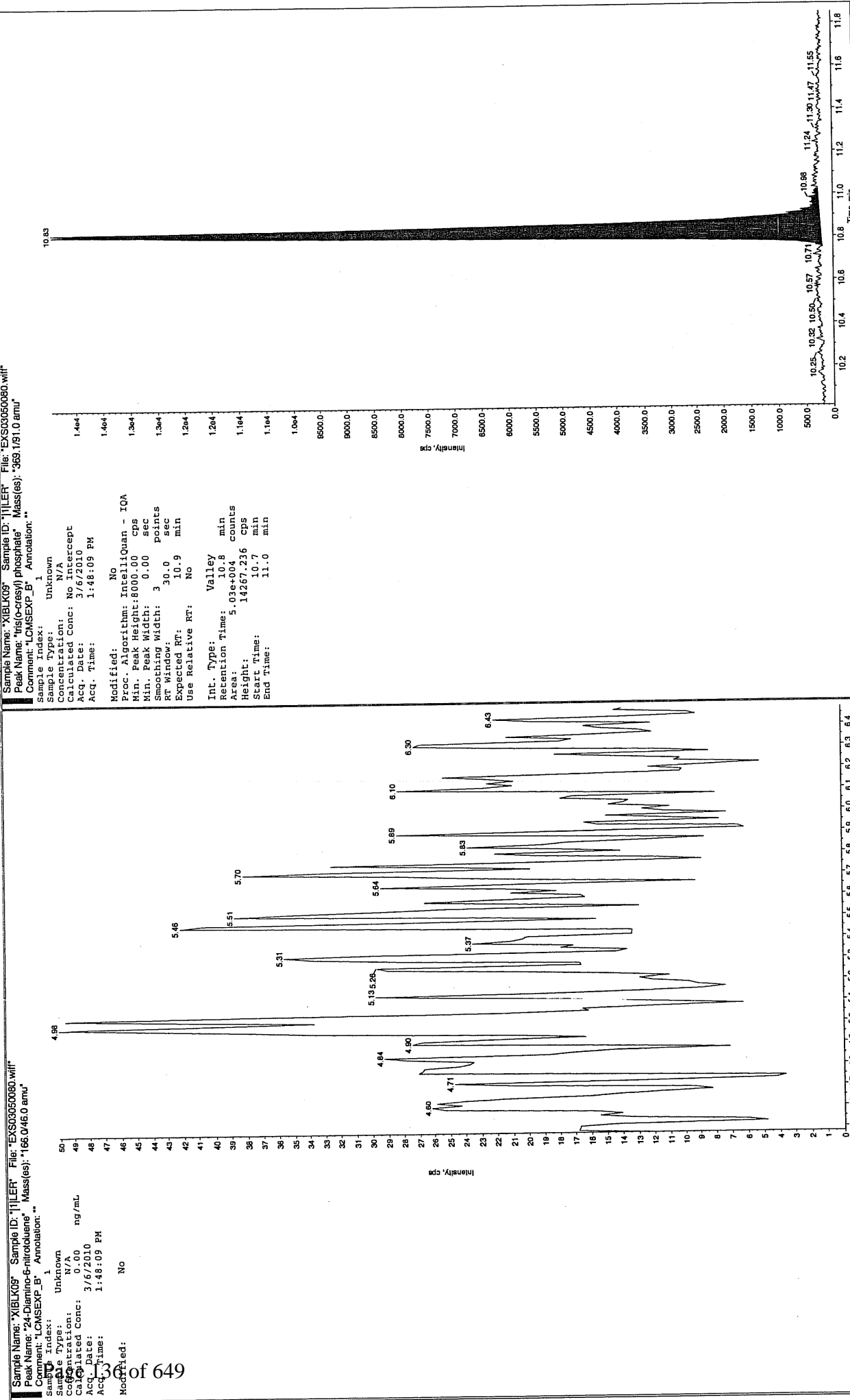
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 1:48:09 PM
 Acq. Time: 1:48:09 PM
 Modified: No



Sample Name: "XIBLK09" Sample ID: "111ER" File: "EXS03050080.wif"
 Peak Name: "2,4-Dinitrotoluene" Mass(es): "182.1513 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 1:48:09 PM
 Acq. Time: 1:48:09 PM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 06-MAR-10 15:06

GEL Data File: EXS03050085.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Sen 3/9/10

Sample Name: "XIBLK10" Sample ID: "T1LER" File: "EXS03050085.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

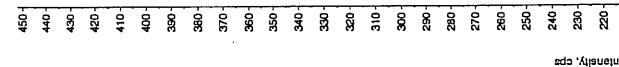
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 3:06:39 PM

Modified: No



Sen 3/9/10

Sample Name: "XIBLK10" Sample ID: "T1LER" File: "EXS03050085.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

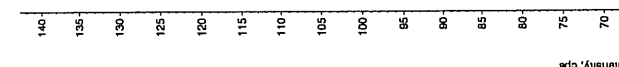
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

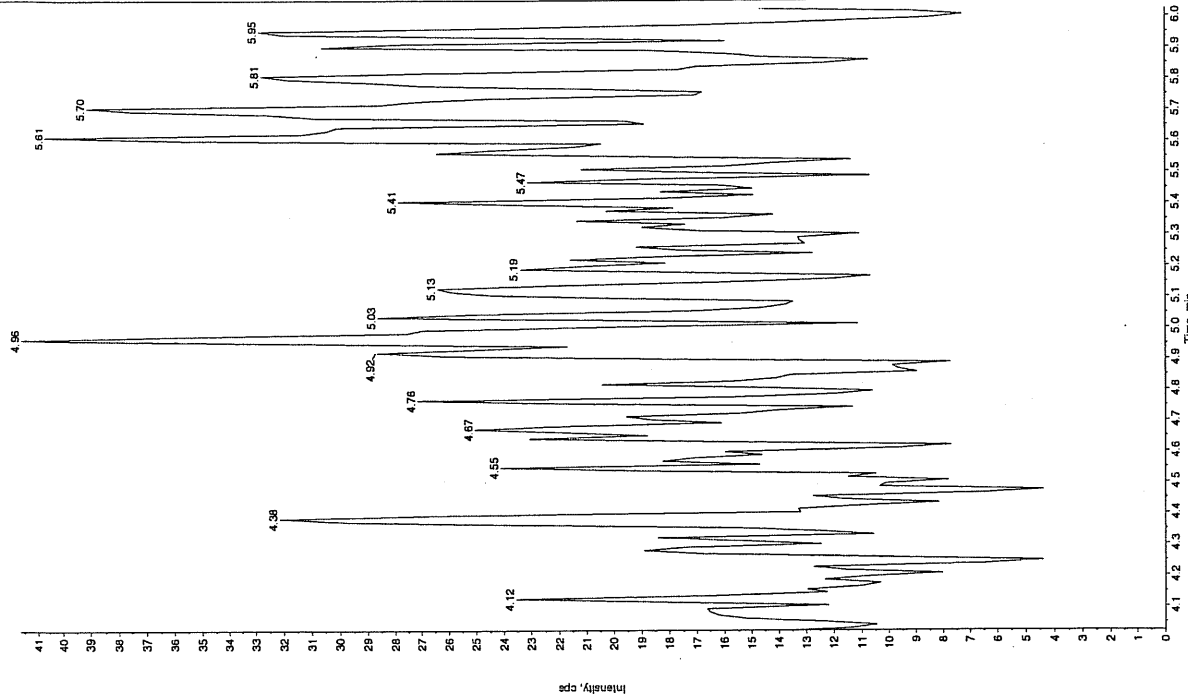
Acq. Time: 3:06:39 PM

Modified: No



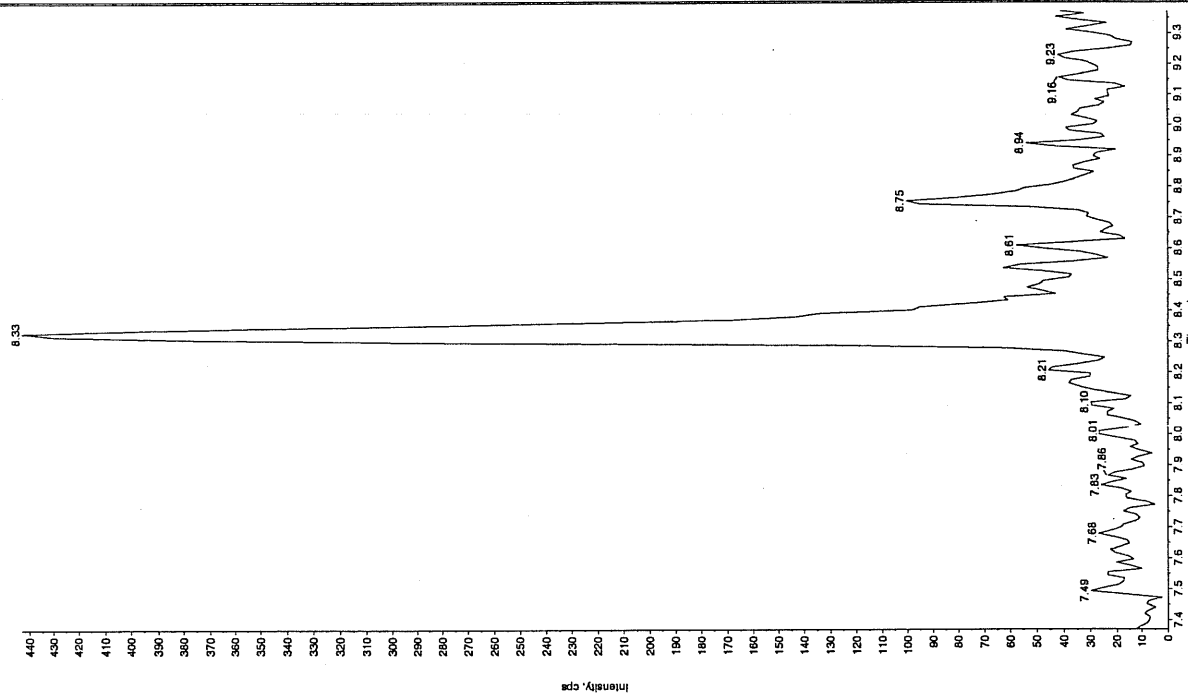
Sample Name: "XIBLK10" Sample ID: "JILLER" File: "EXS03050085.wit"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

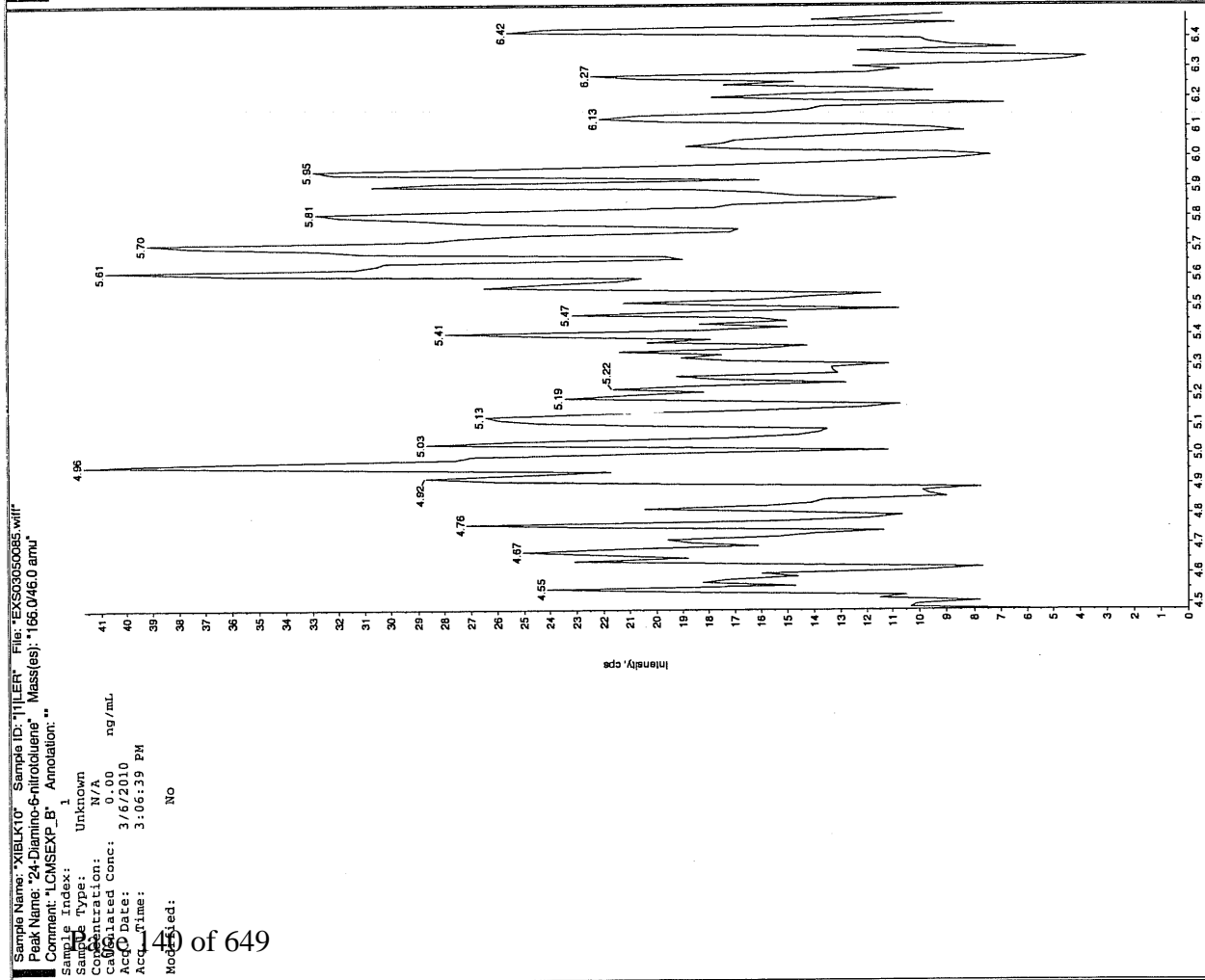
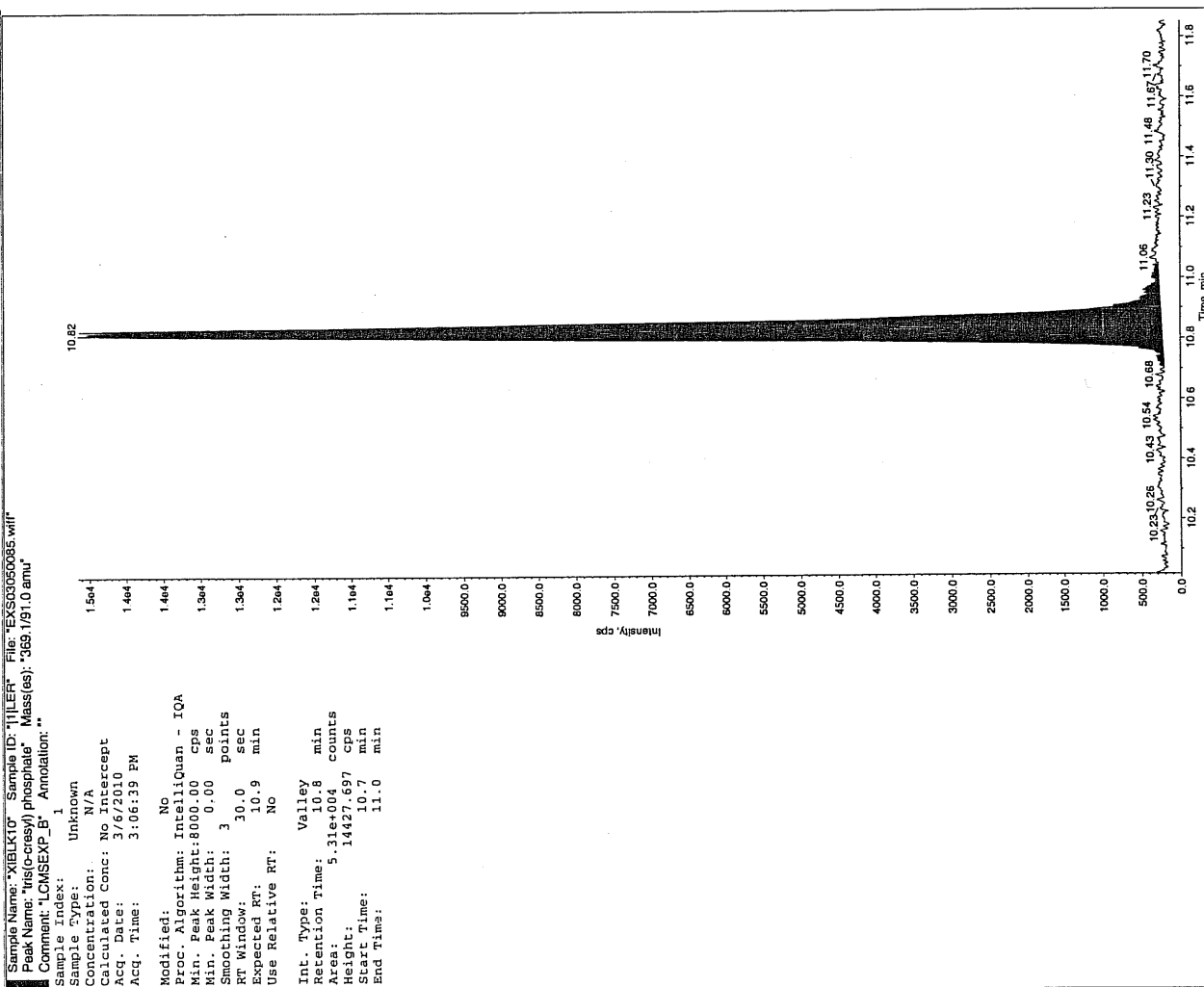
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 3:06:39 PM
 Modified: No



Sample Name: "XIBLK10" Sample ID: "JILLER" File: "EXS03050085.wit"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 3:06:39 PM
 Modified: No





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 06-MAR-10 17:28

GEL Data File: EXS03050094.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

den 3/9/10

Sample Name: "XIBLK11" Sample ID: "1111ER" File: "EXS03050094.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

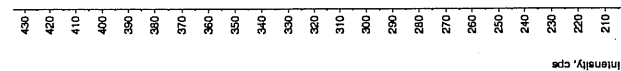
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 5:28:02 PM

Modified: No



den 3/9/10

Sample Name: "XIBLK11" Sample ID: "1111ER" File: "EXS03050094.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

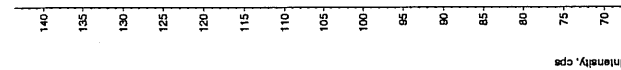
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

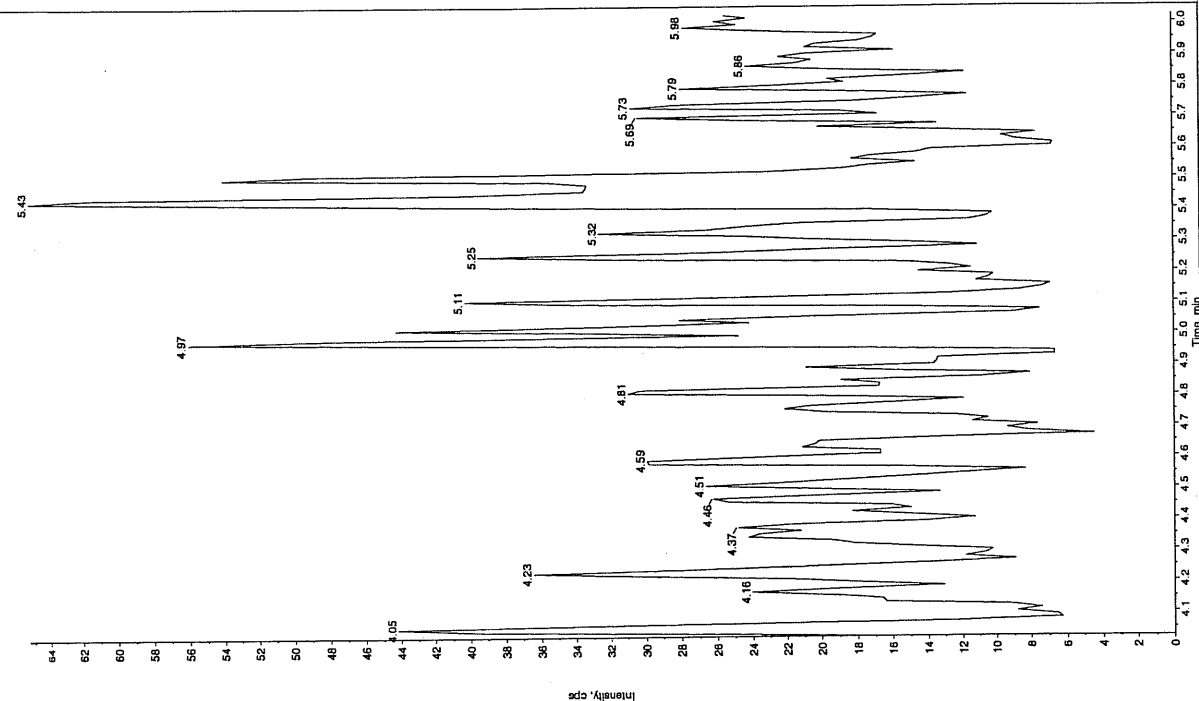
Acq. Time: 5:28:02 PM

Modified: No



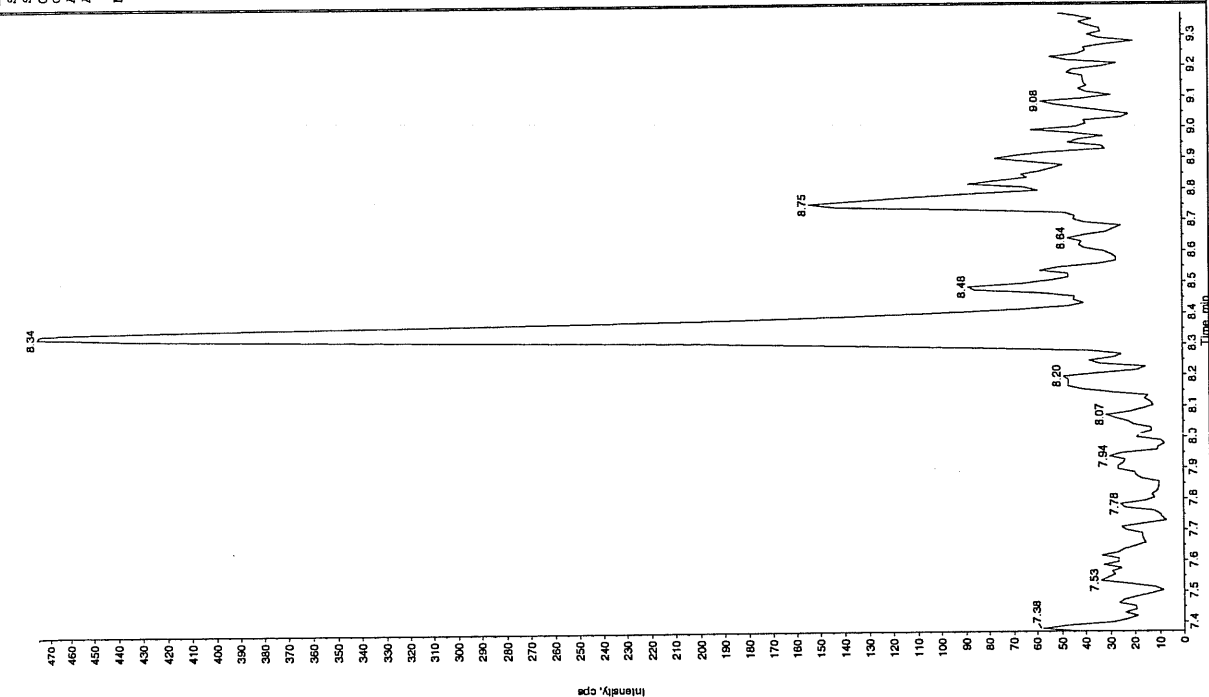
Sample Name: "XIBLK11" Sample ID: "J1LER" File: "EXS03050094.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

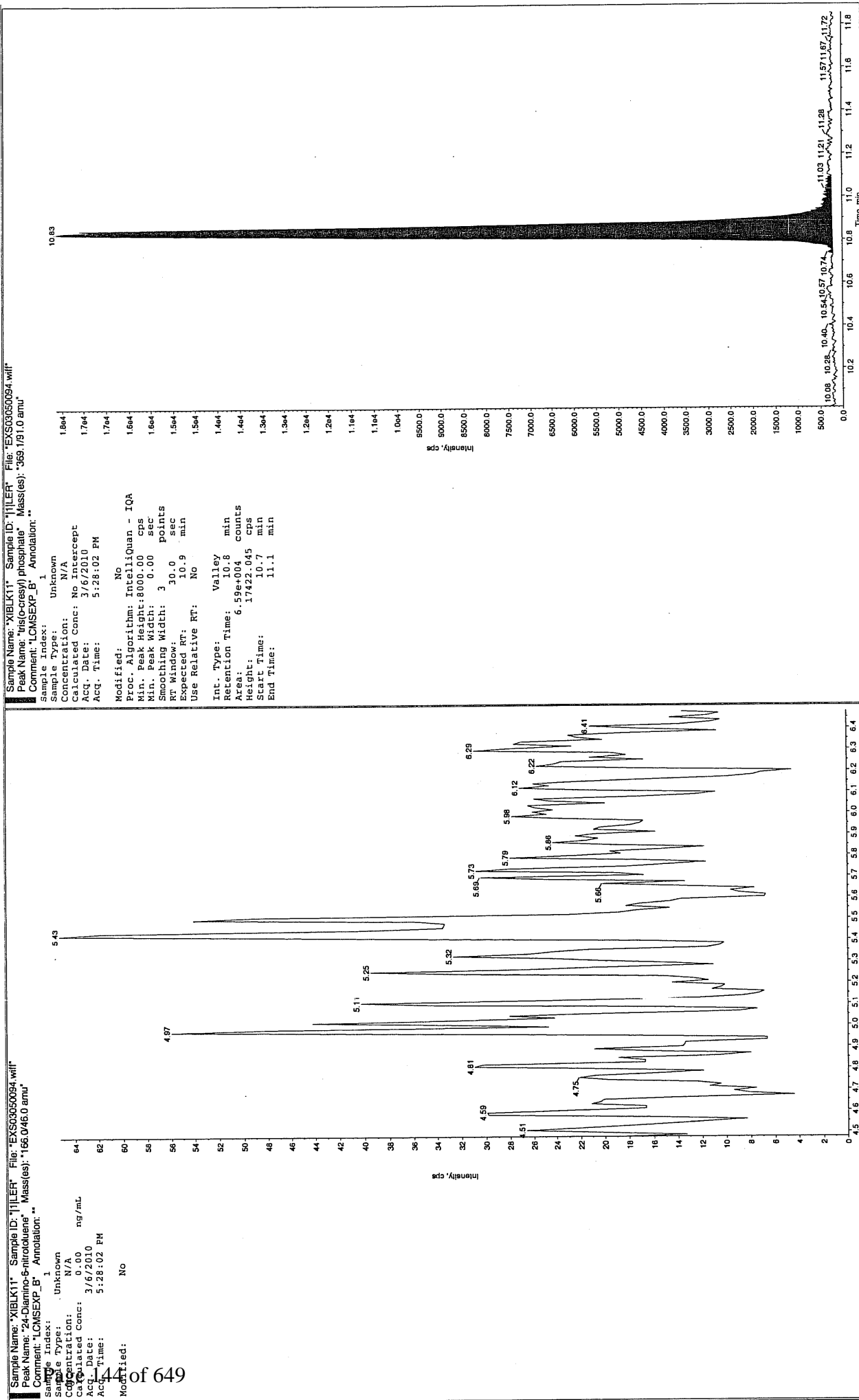
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 3/6/2010
 Acq. Time: 5:28:02 PM
 Modified: No



Sample Name: "XIBLK11" Sample ID: "J1LER" File: "EXS03050094.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/6/2010
 Acq. Time: 5:28:02 PM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 06-MAR-10 18:15

GEL Data File: EXS03050097.wiff

Instrument ID: LCMSMS

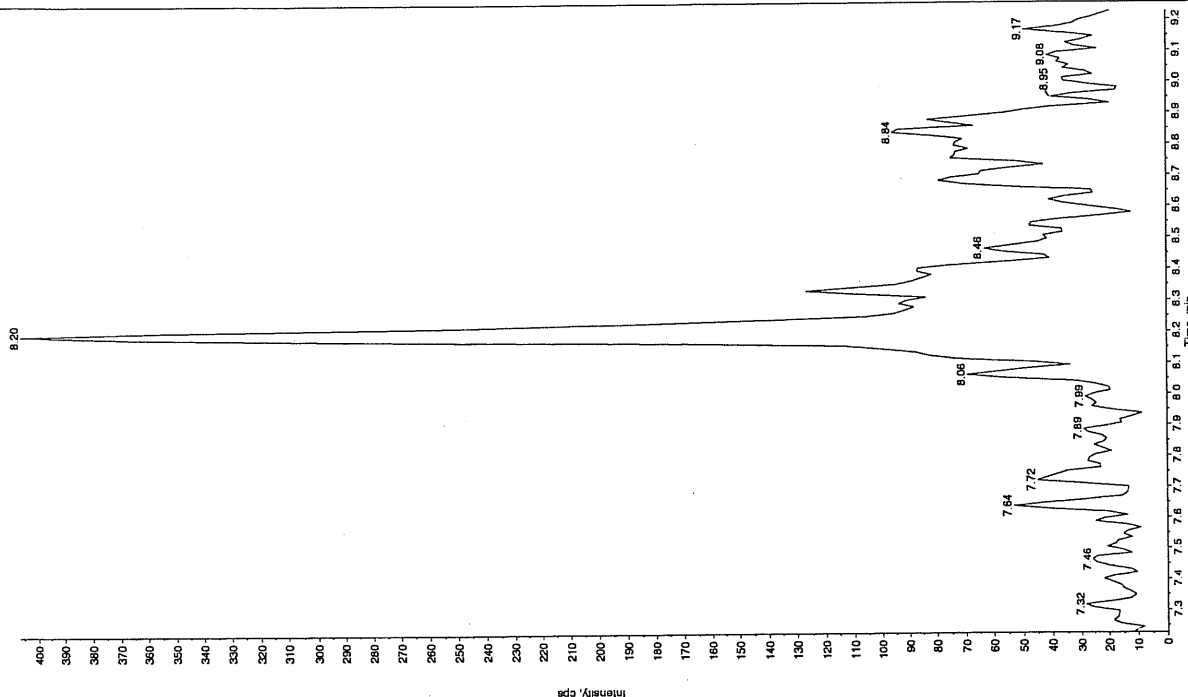
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/9/10

Sample Name: "XIBLK12" Sample ID: "111LER" File: "EXS03050097.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

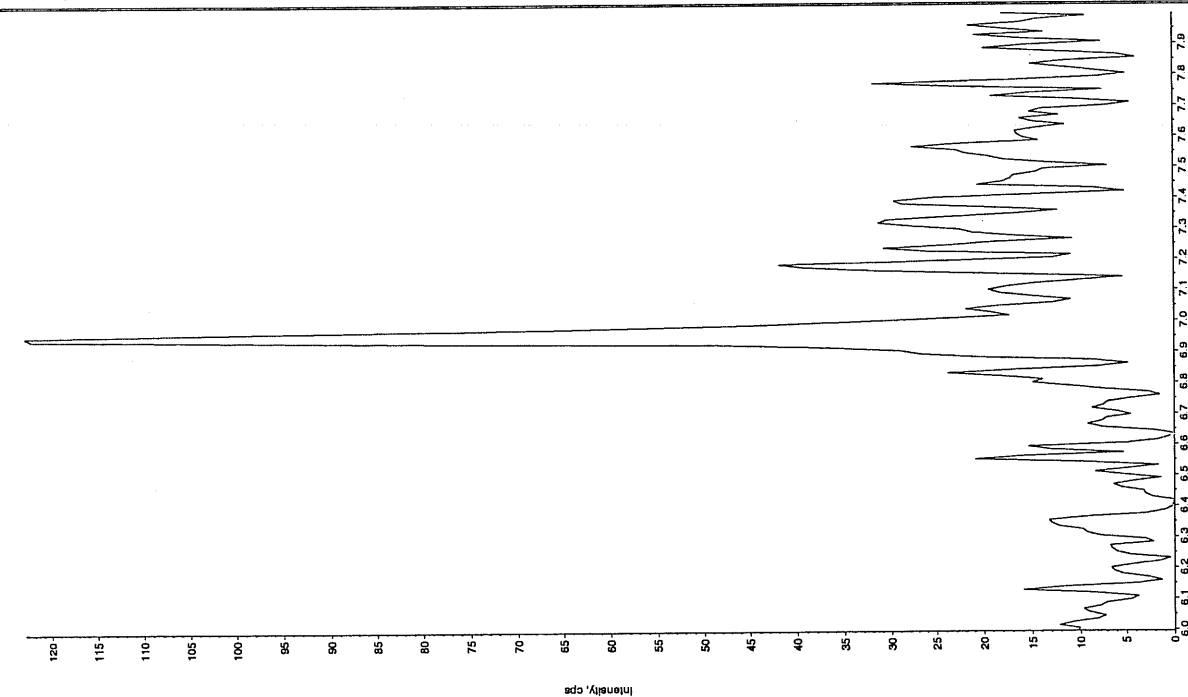
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:15:06 PM
 Modified: No



Jan 03/9/10

Sample Name: "XIBLK12" Sample ID: "111LER" File: "EXS03050097.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

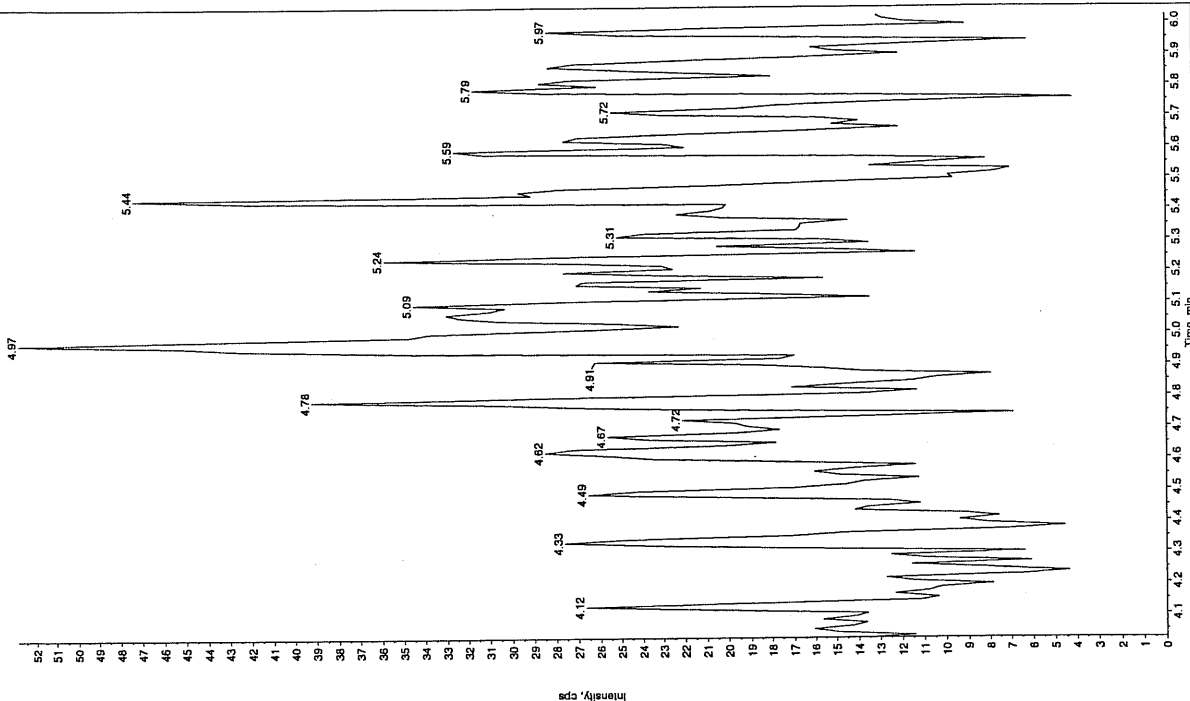
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:15:06 PM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

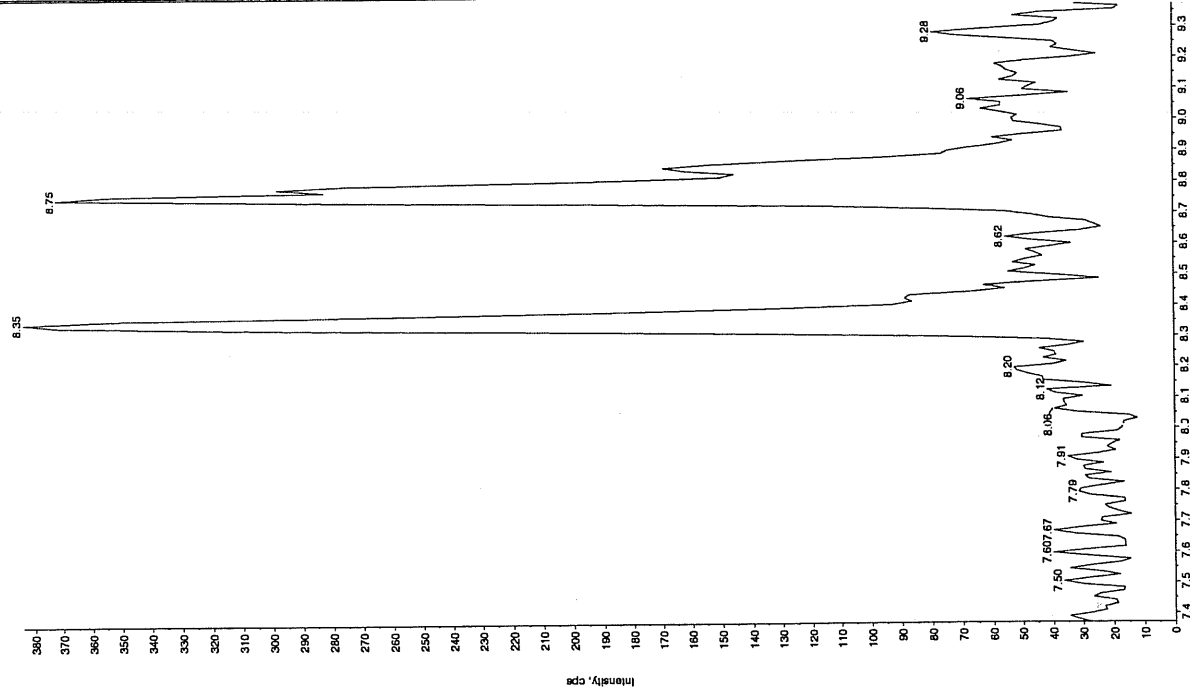
Sample Name: "XIBLK12" Sample ID: "111ER" File: "EXS03050097.will"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

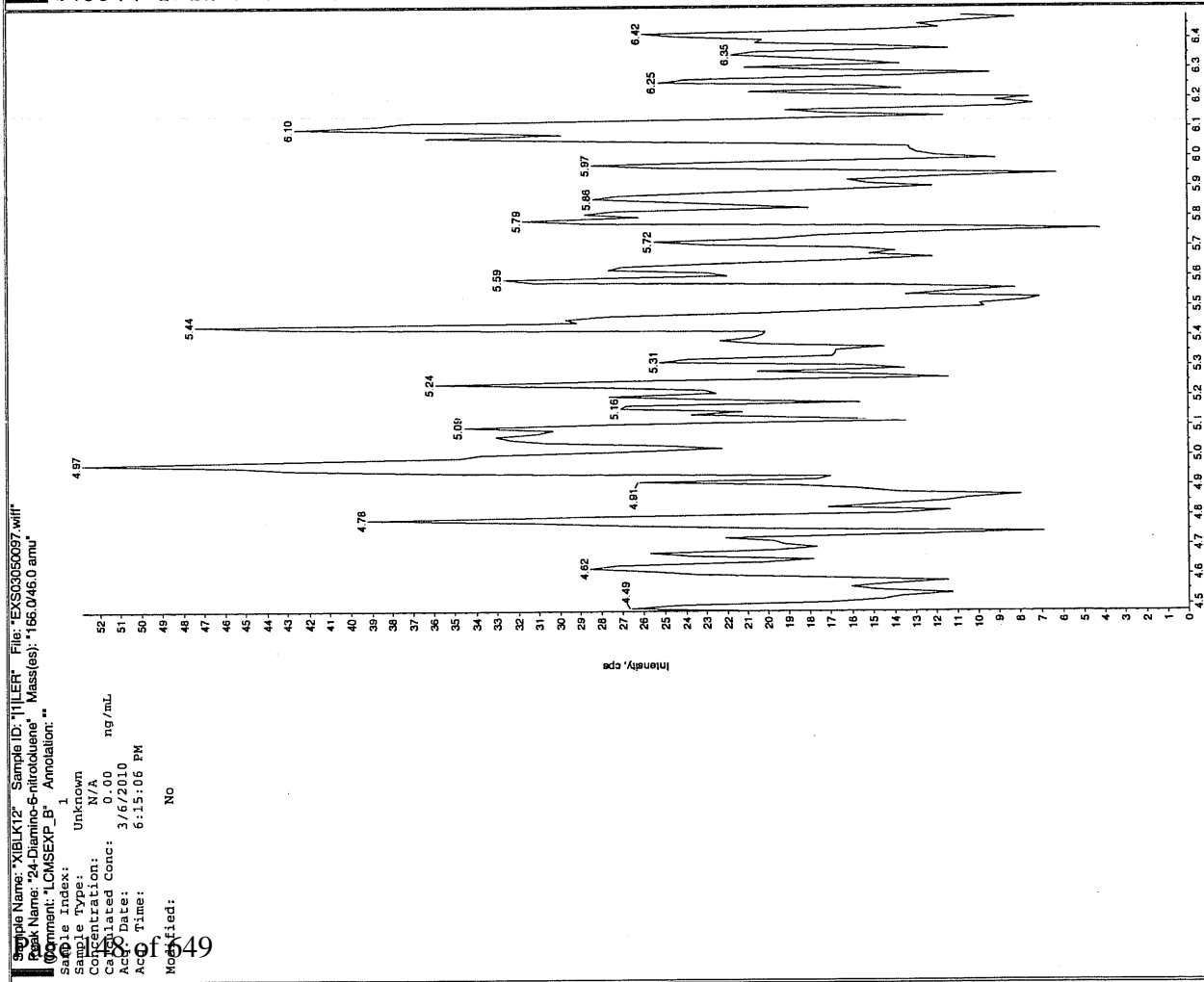
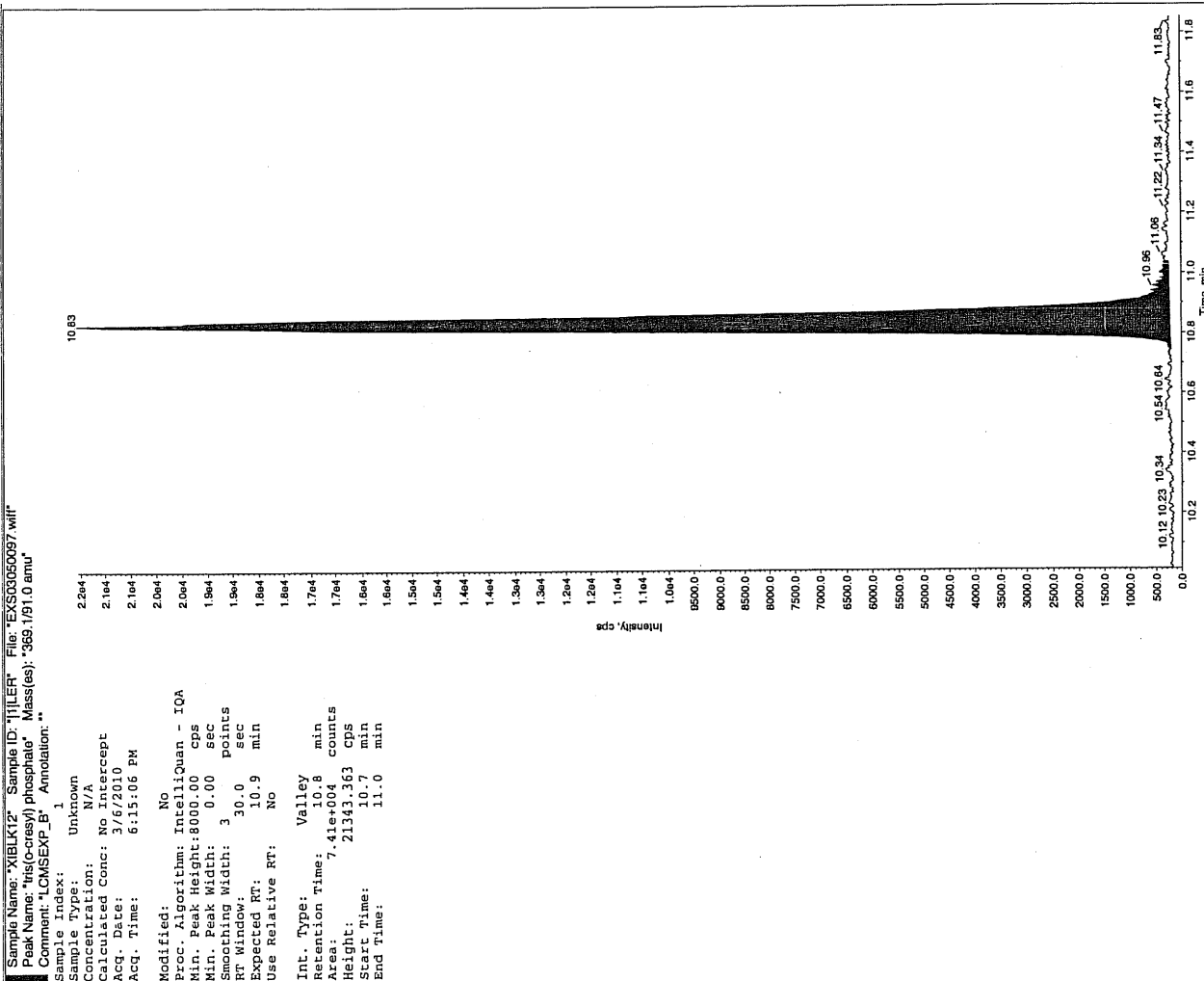
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:15:06 PM
 Modified: No



Sample Name: "XIBLK12" Sample ID: "111ER" File: "EXS03050097.will"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:15:06 PM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 06-MAR-10 20:52

GEL Data File: EXS03050107.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 31/10

Sample Name: "XIBLK13" Sample ID: "1111ER" File: "EXS03050107.will"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 8:52:01 PM

Modified: No

Sample Name: "XIBLK13" Sample ID: "1111ER" File: "EXS03050107.will"

Peak Name: "1A1B" Mass(es): "237.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

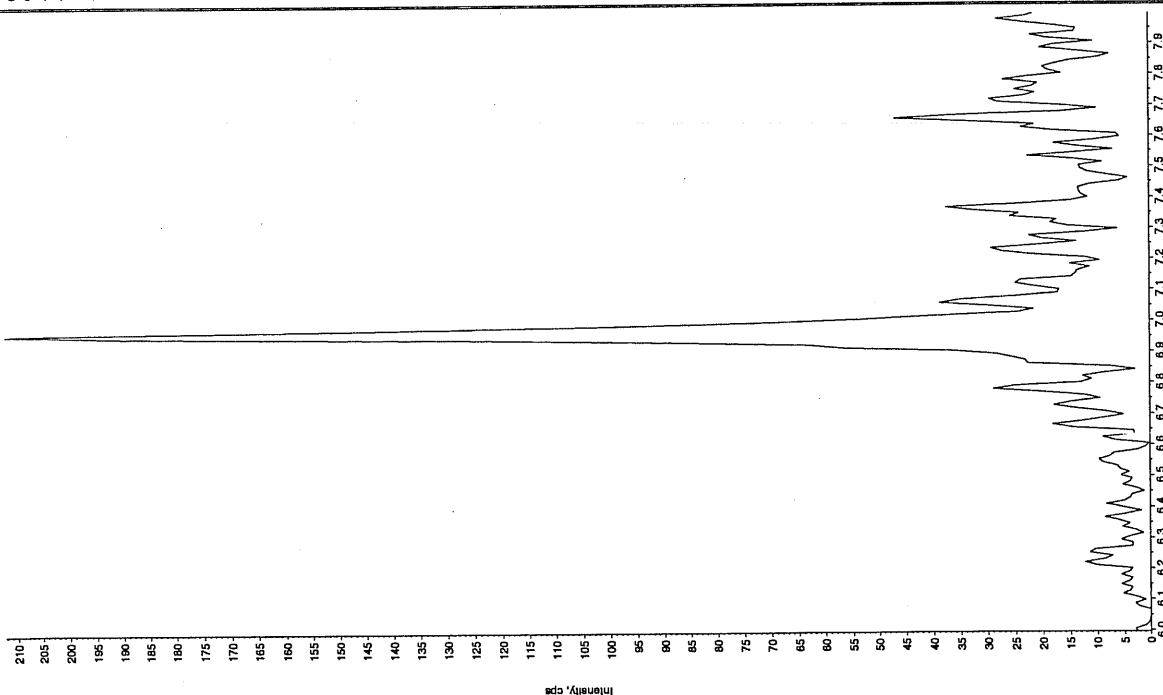
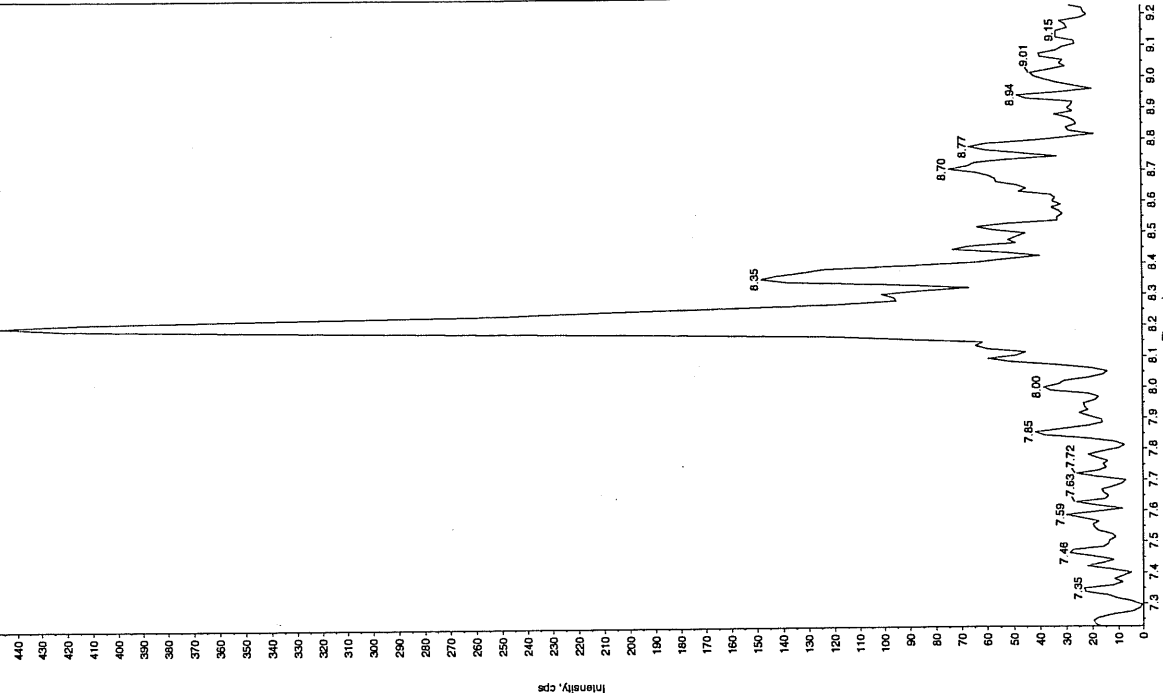
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 8:52:01 PM

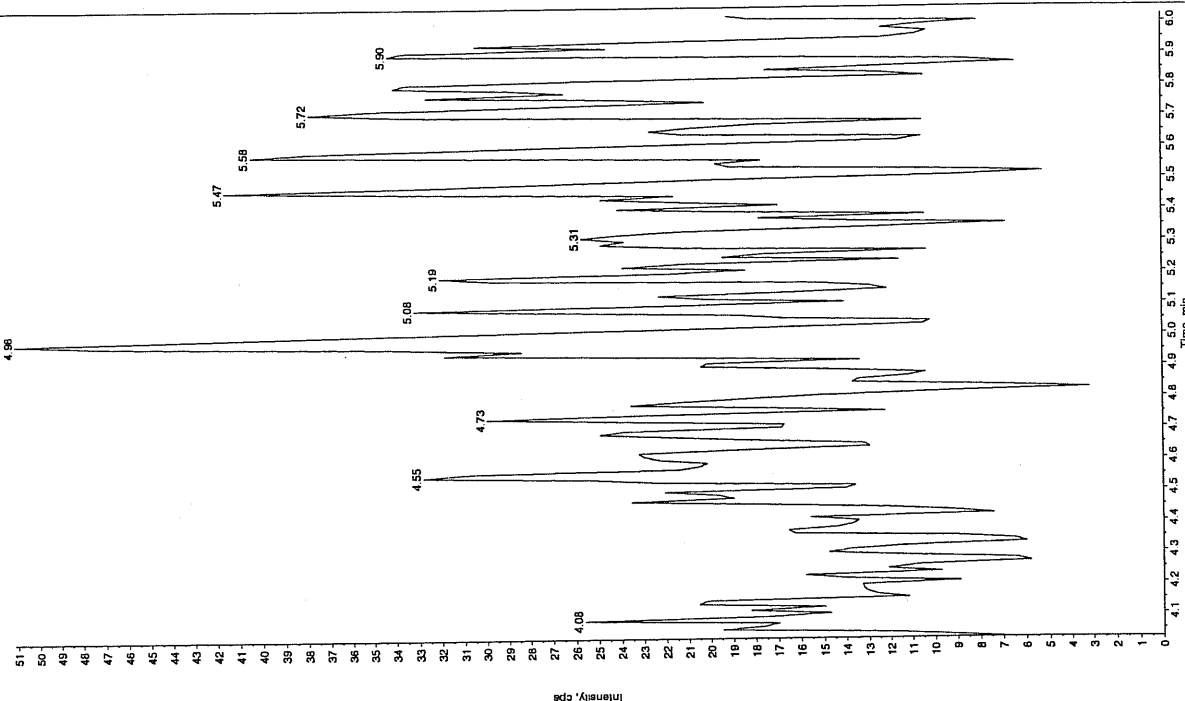
Modified: No



Jan 31/10

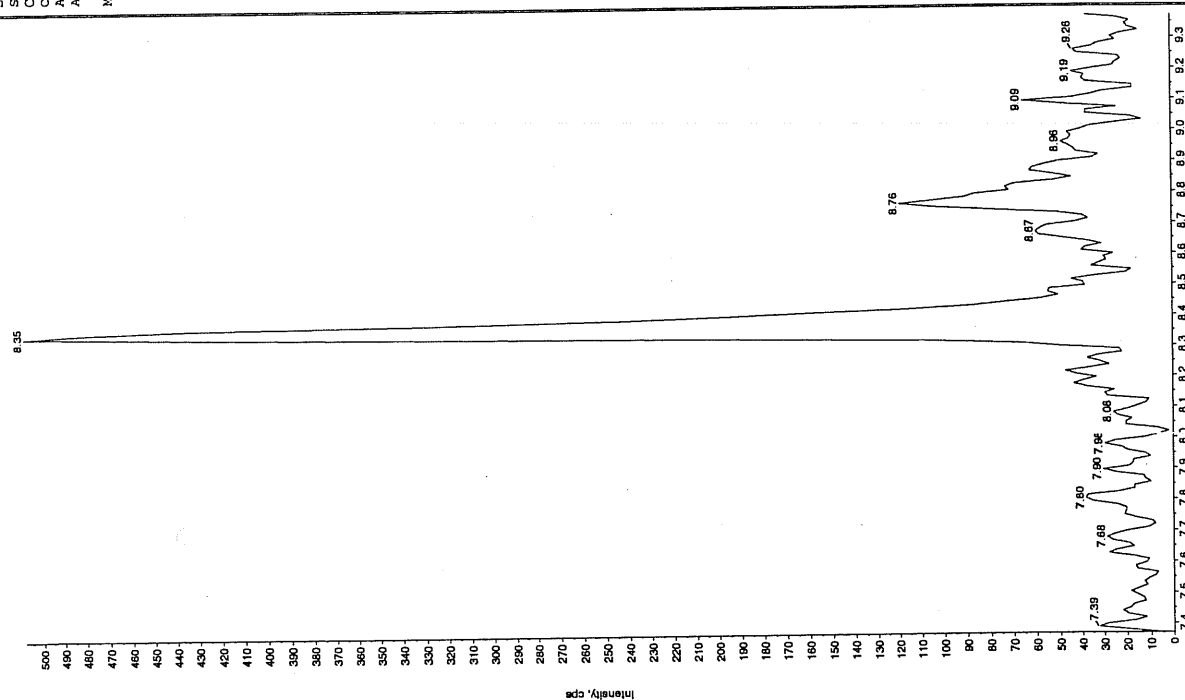
Sample Name: "XIBLK13" Sample ID: "111ER" File: "EXS03050107.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0465.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 8:52:01 PM
 Acq. Time: 8:52:01 PM
 Modified: No



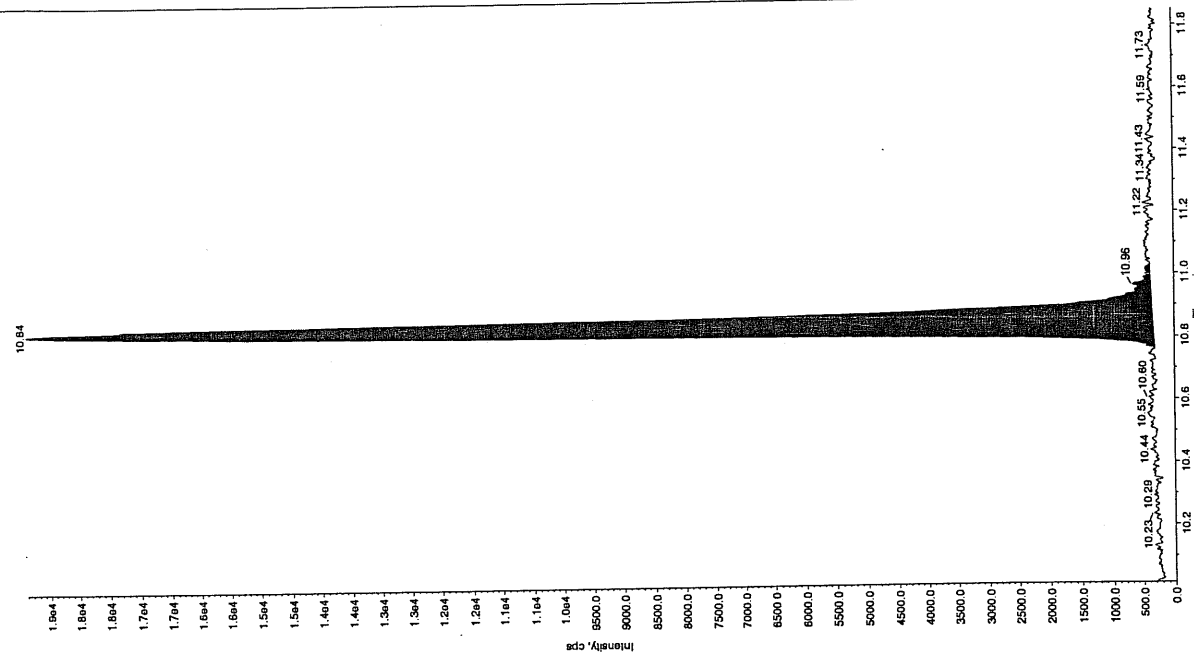
Sample Name: "XIBLK13" Sample ID: "111ER" File: "EXS03050107.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.17151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 8:52:01 PM
 Acq. Time: 8:52:01 PM
 Modified: No



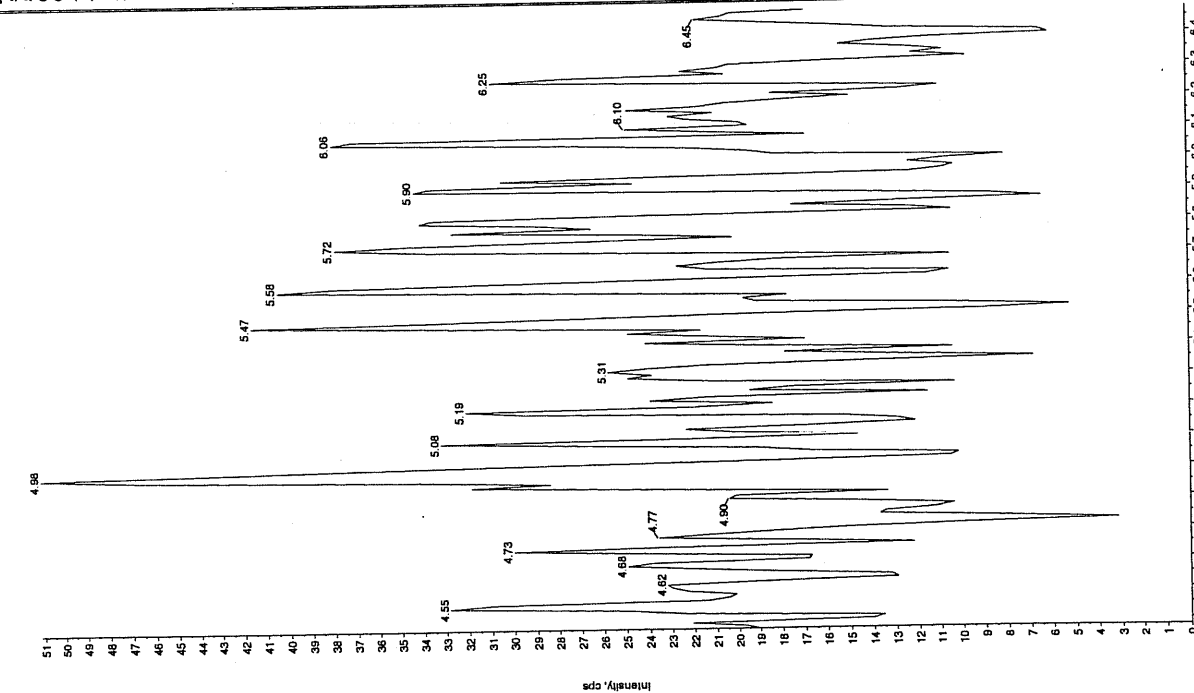
Sample Name: "XIBLK13" Sample ID: "11LER" File: "EXS03050107.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/6/2010
 Acq. Time: 8:52:01 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 6.66e+004 counts
 Height: 18580.671 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Sample Name: "XIBLK13" Sample ID: "11LER" File: "EXS03050107.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:52:01 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1911

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 07-MAR-10 00:00

GEL Data File: EXS03050119.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Sen 3/9/10

Sample Name: "XIBLK14" Sample ID: "JILLER" File: "EXS03050119.will"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/7/2010

Acq. Time: 12:00:23 AM

Modified: No

Sample Name: "XIBLK14" Sample ID: "JILLER" File: "EXS03050119.will"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

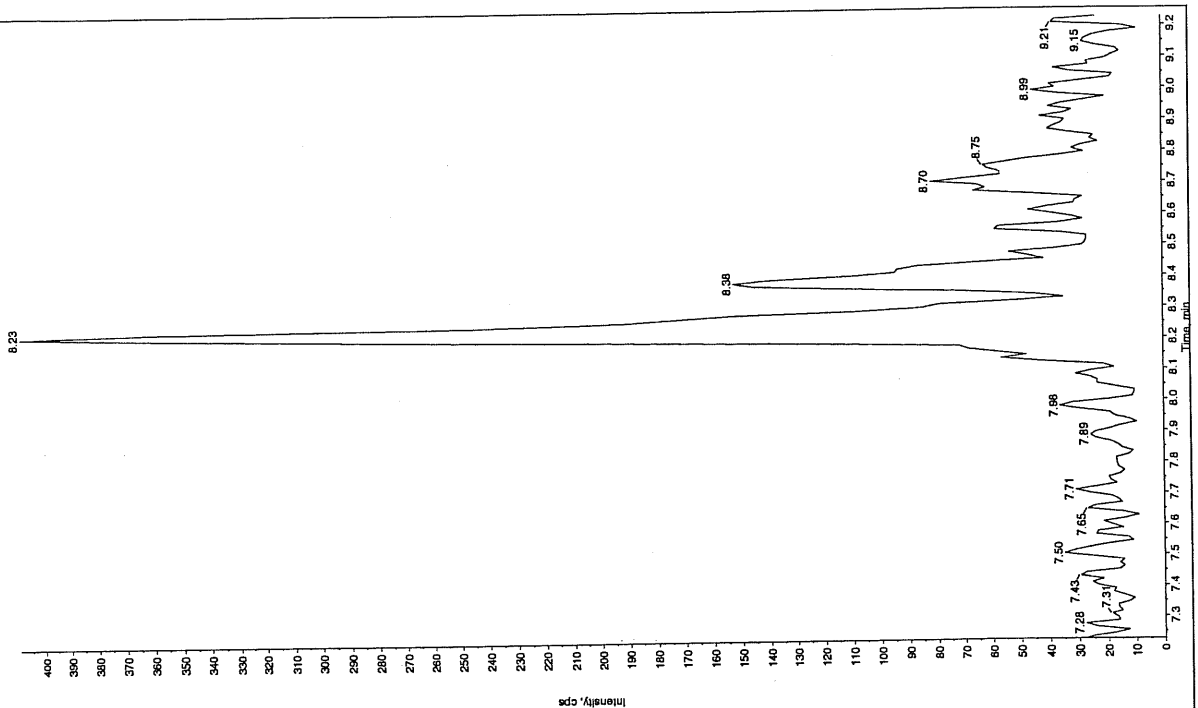
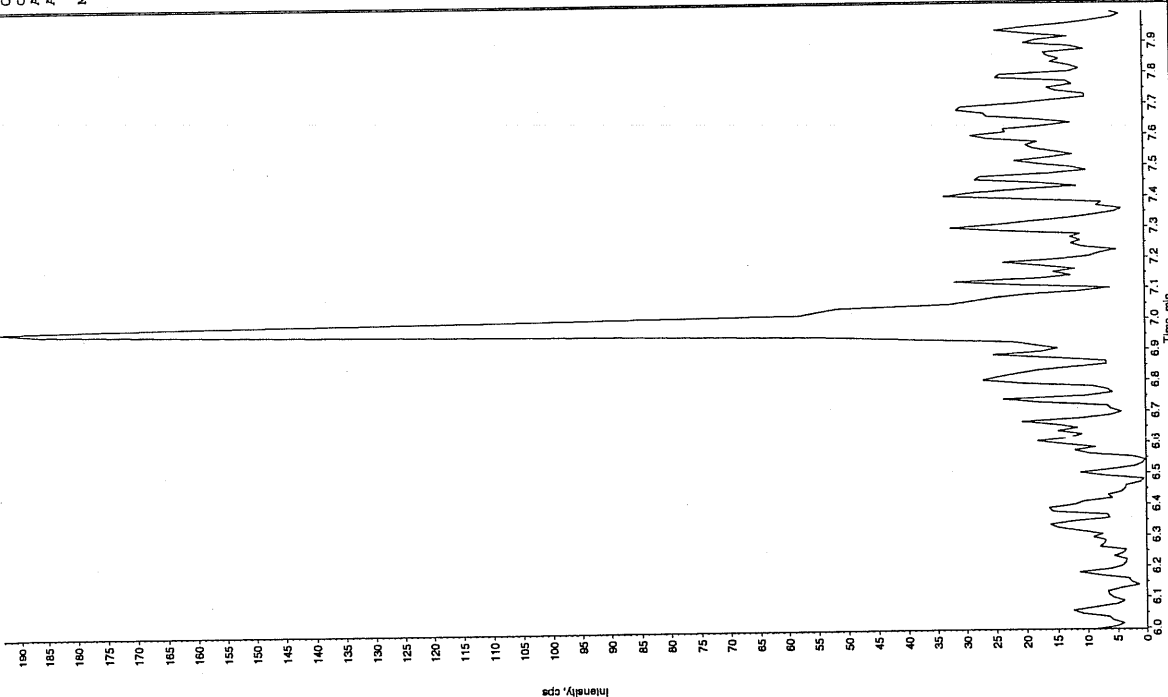
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/7/2010

Acq. Time: 12:00:23 AM

Modified: No



Amw 03/09/10

Sample Name: "XIBLK14" Sample ID: "HLEF" File: "EXS03050119.wif"

Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

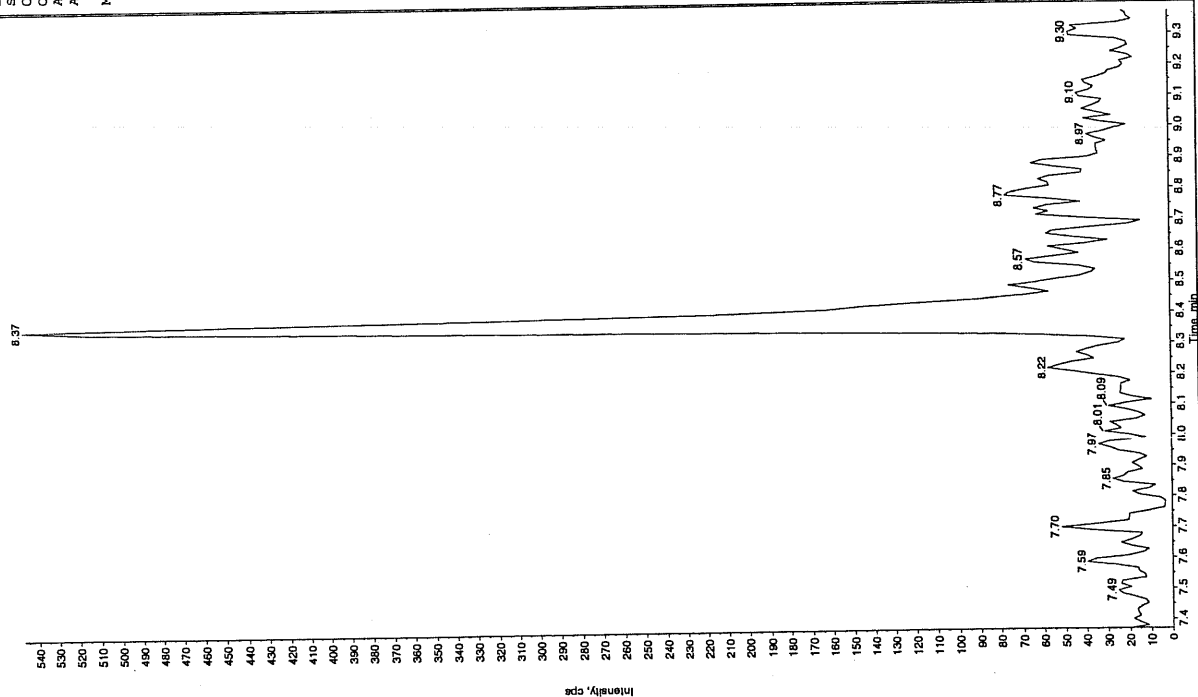
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/7/2010

Acq. Time: 12:00:23 AM

Modified: No



Sample Name: "XIBLK14" Sample ID: "HLEF" File: "EXS03050119.wif"

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

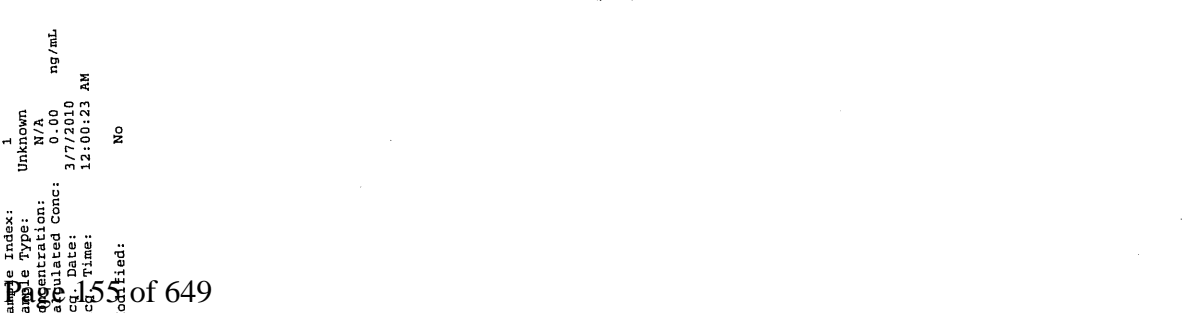
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/7/2010

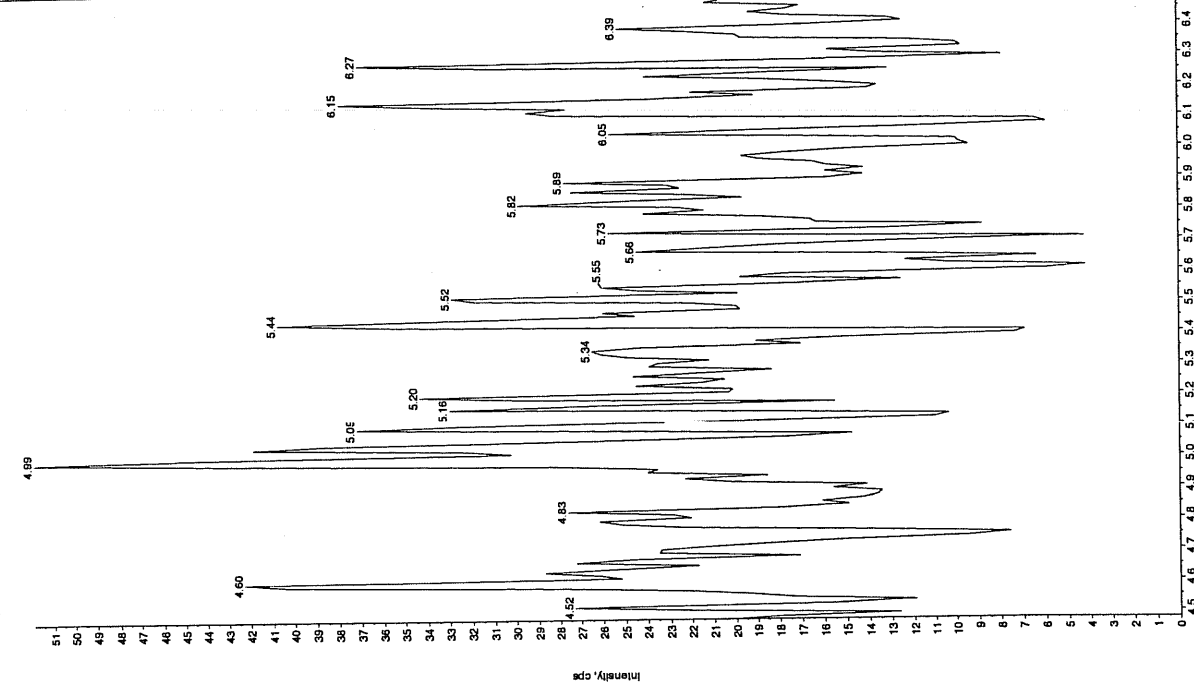
Acq. Time: 12:00:23 AM

Modified: No



Sample Name: "XIBLK14" Sample ID: "JILLER" File: "EXS03050119.will"
 Peak Name: "tris(C-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/7/2010
 Acq. Time: 12:00:23 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOR
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.83e+004 counts
 Height: 19398.643 cps
 Start Time: 10.7 min
 End Time: 11.1 min



Sample Name: "XIBLK14" Sample ID: "JILLER" File: "EXS03050119.will"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/7/2010
 Acq. Time: 12:00:23 AM
 Modified: No

Nairb.ref

;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H₂O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.
 Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

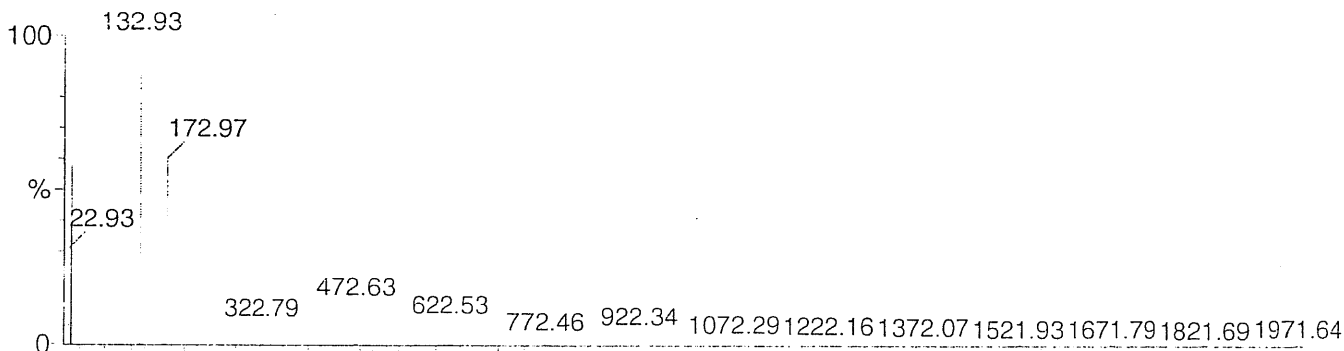
Calibration Report - MS1 Static

Page 1 of 1

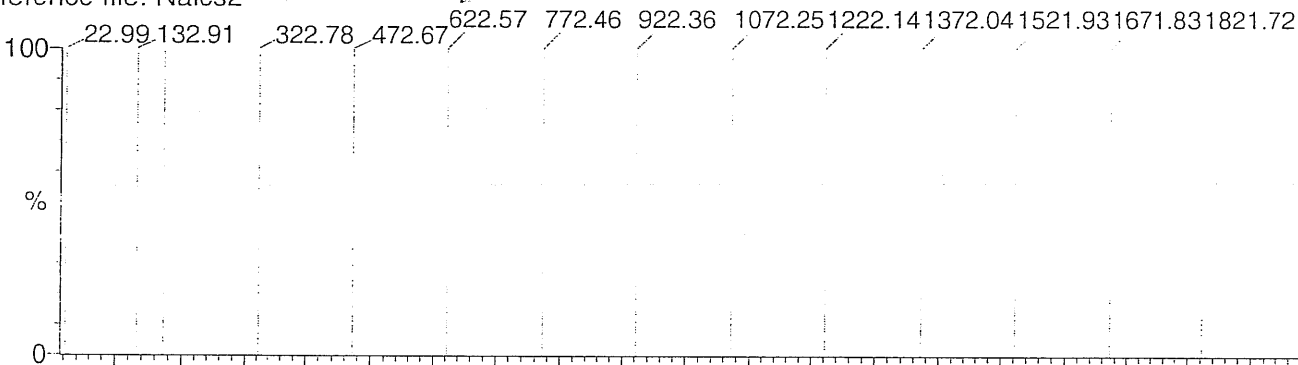
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

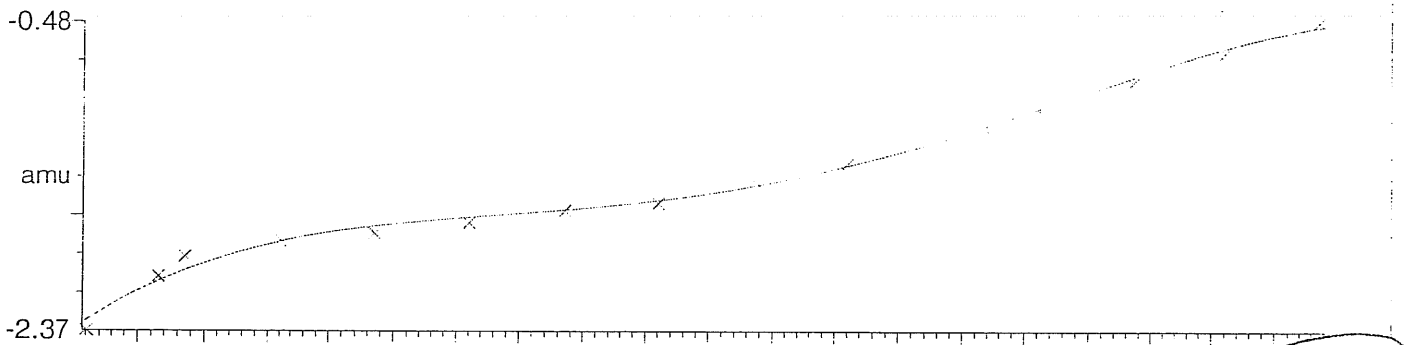
15 matches of 15 tested references



Reference file: Naics2

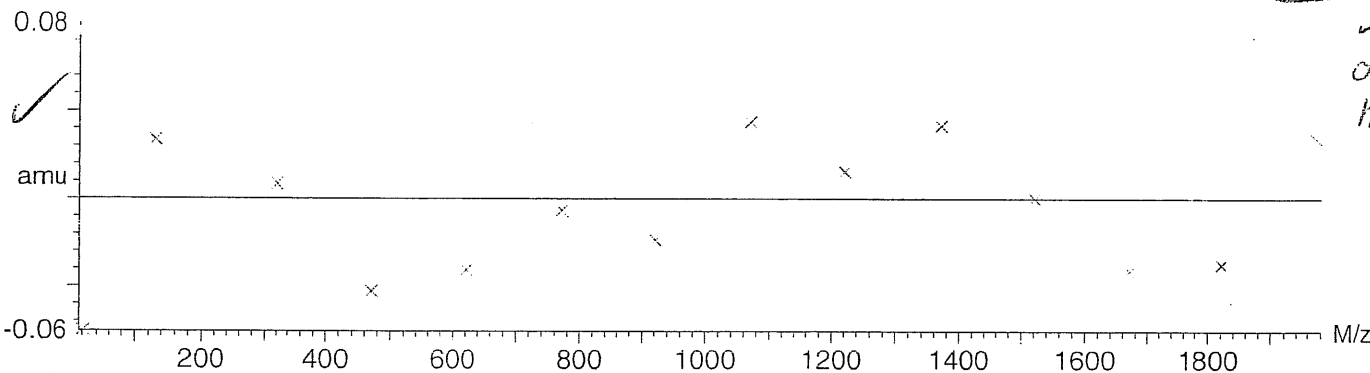


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



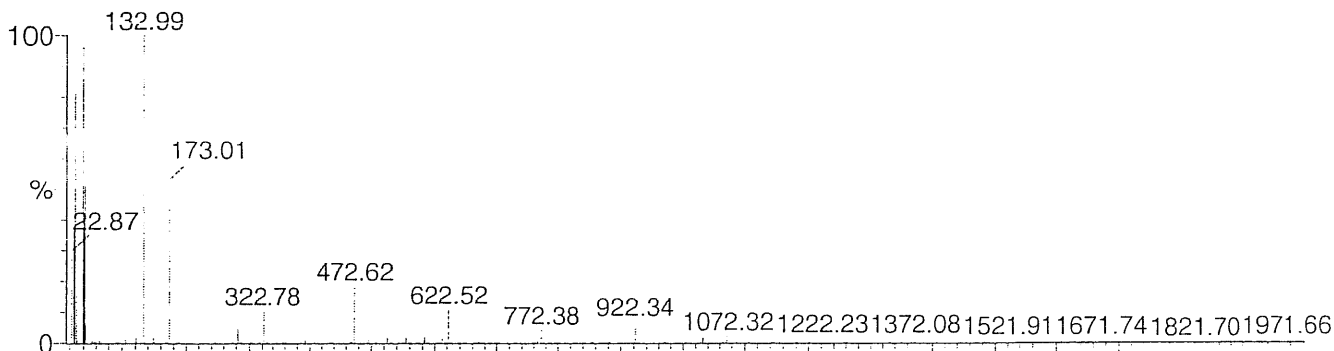
Calibration Report - MS1 Scanning

Page 1 of 1

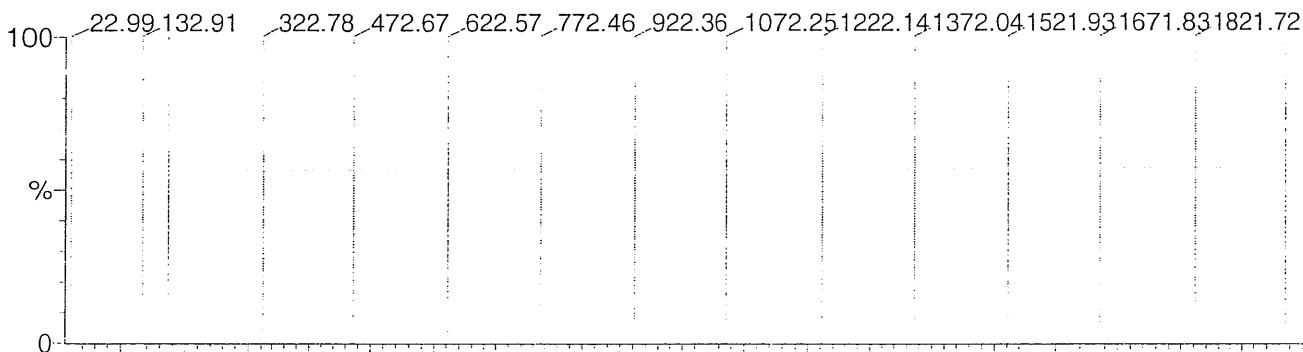
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

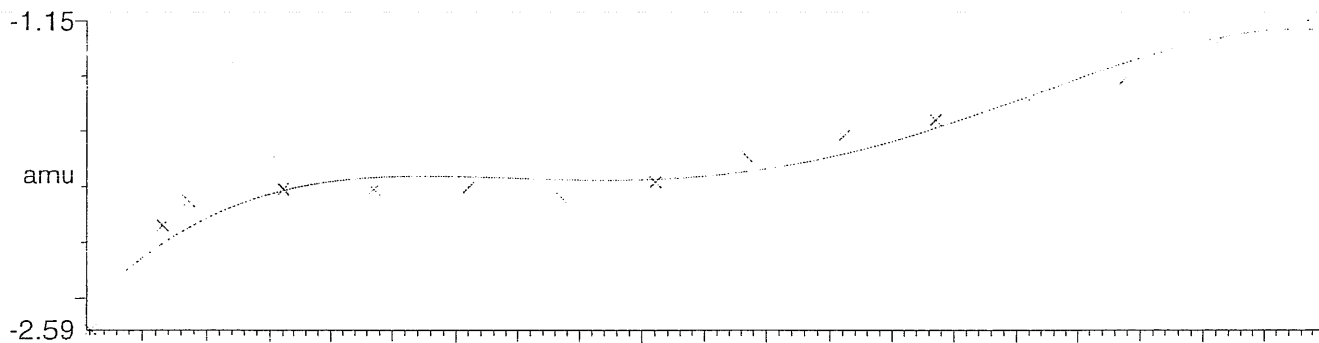
15 matches of 15 tested references



Reference file: Naics2

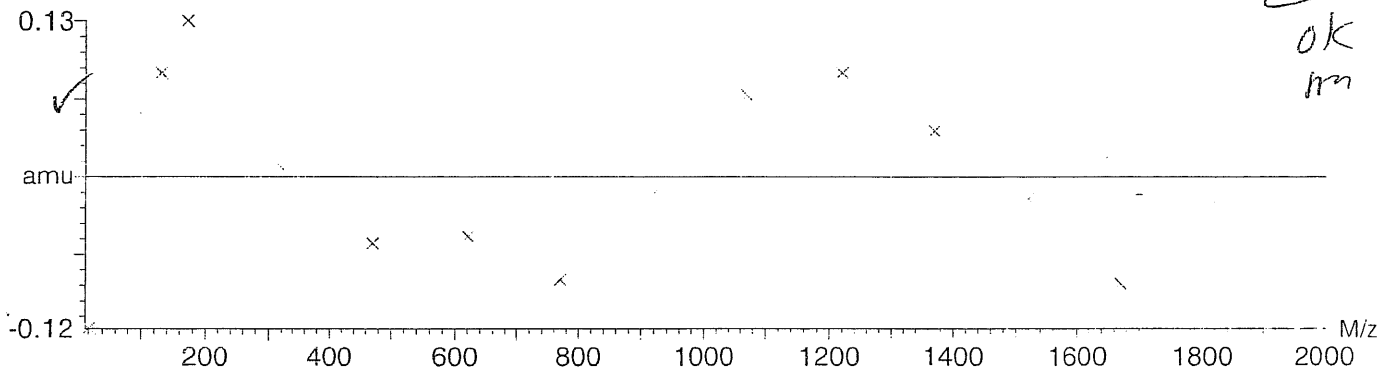


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715 \times 10^{-9} \pm 0.069858$



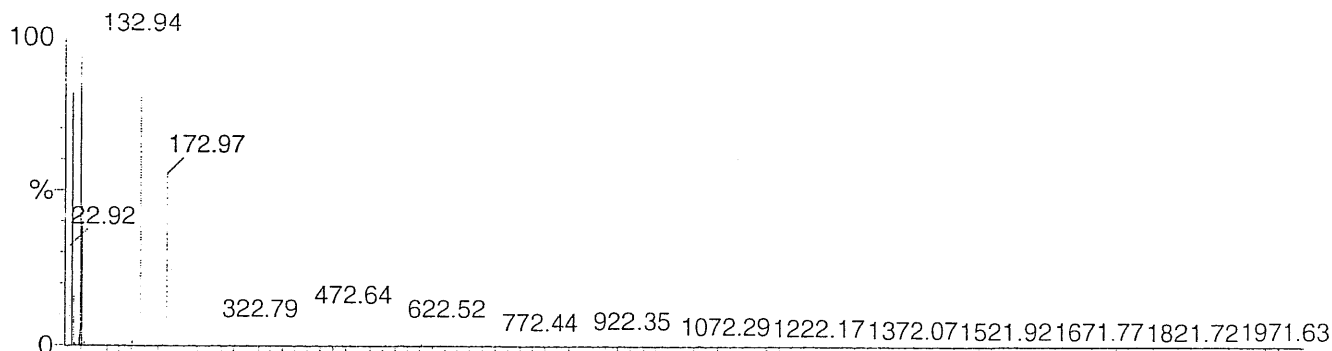
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

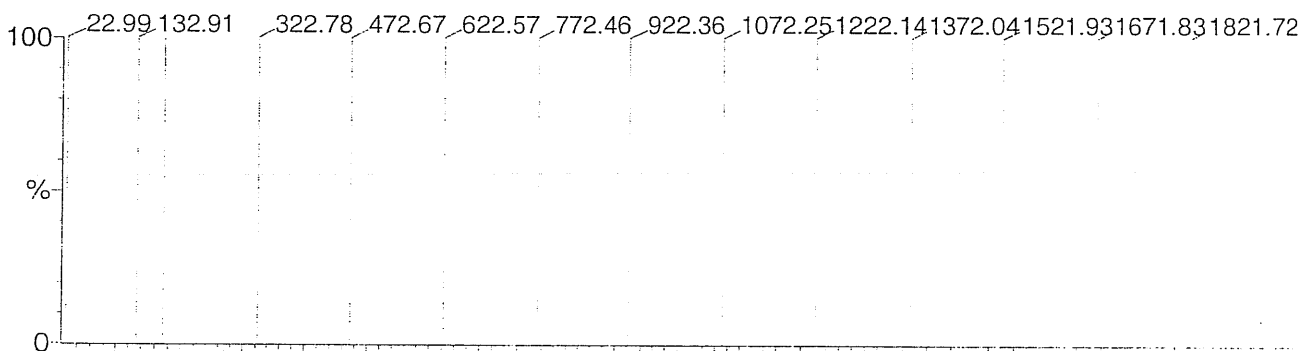
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

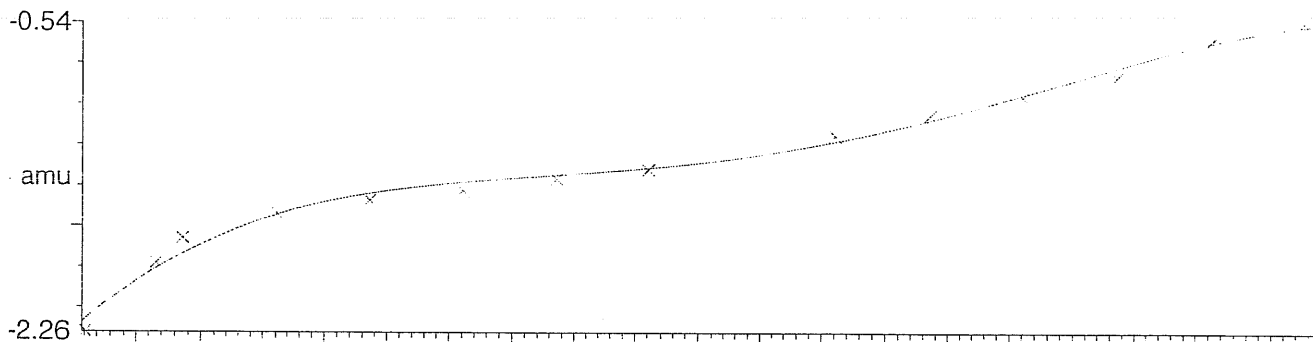
15 matches of 15 tested references



Reference file: Naics2

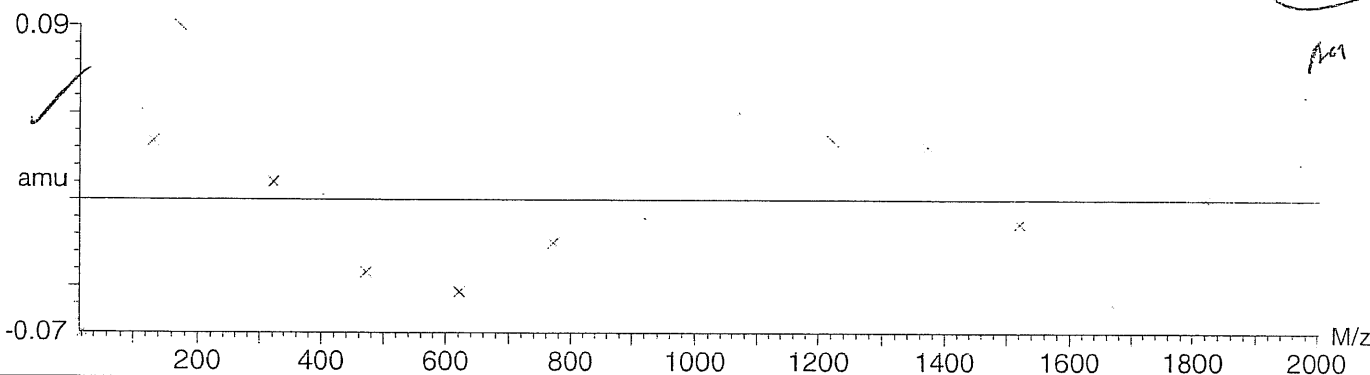


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.486639 \times 10^{-9} \pm 0.040487$



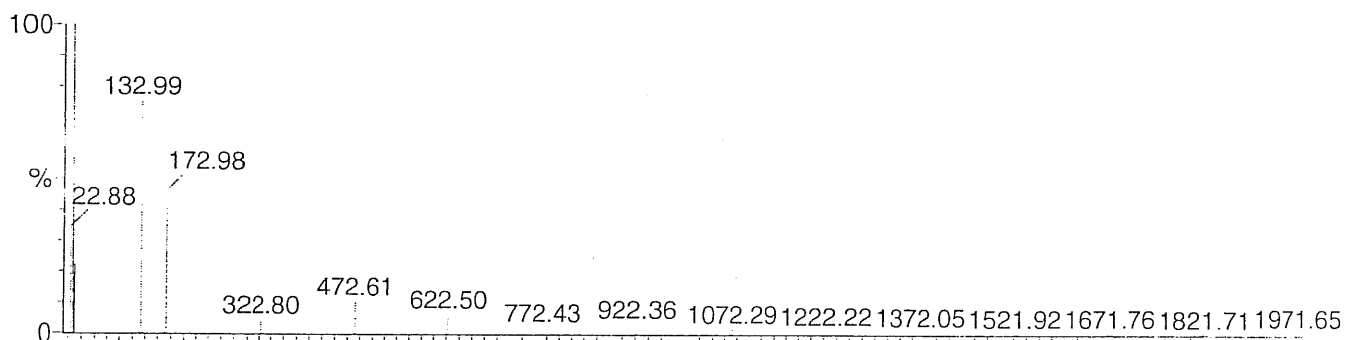
Calibration Report - MS2 Static

Page 1 of 1

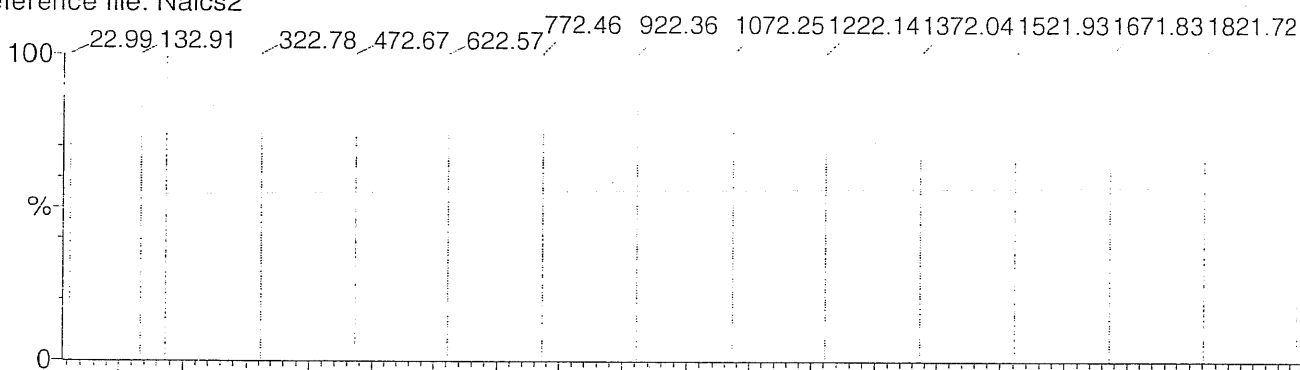
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

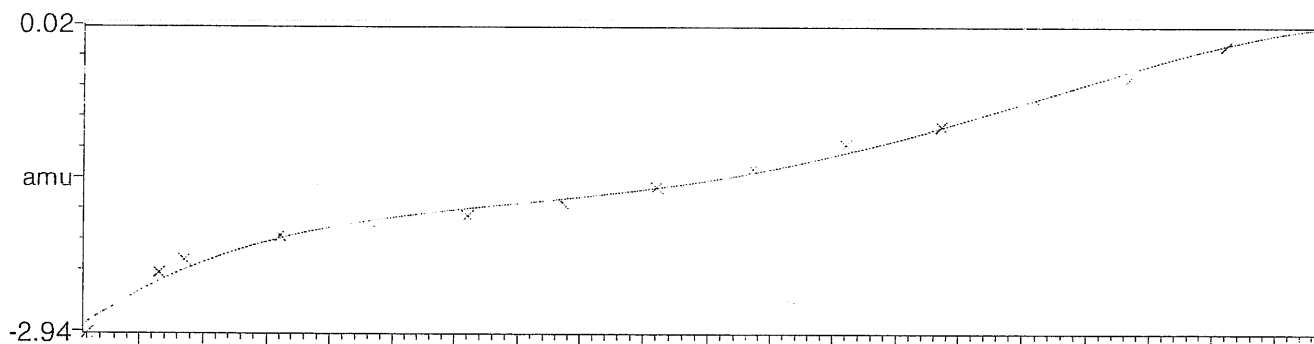
15 matches of 15 tested references



Reference file: Naics2

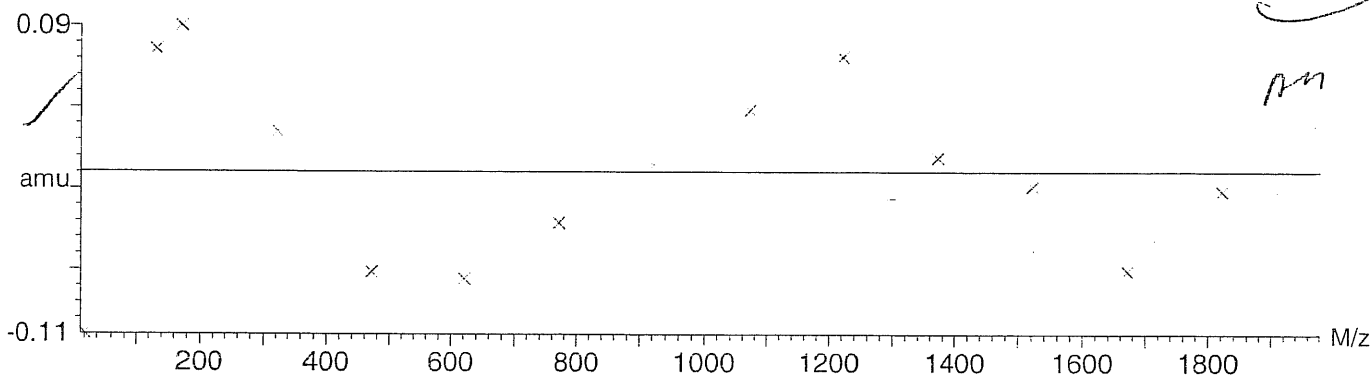


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910 \times 10^{-9} \pm 0.057803$



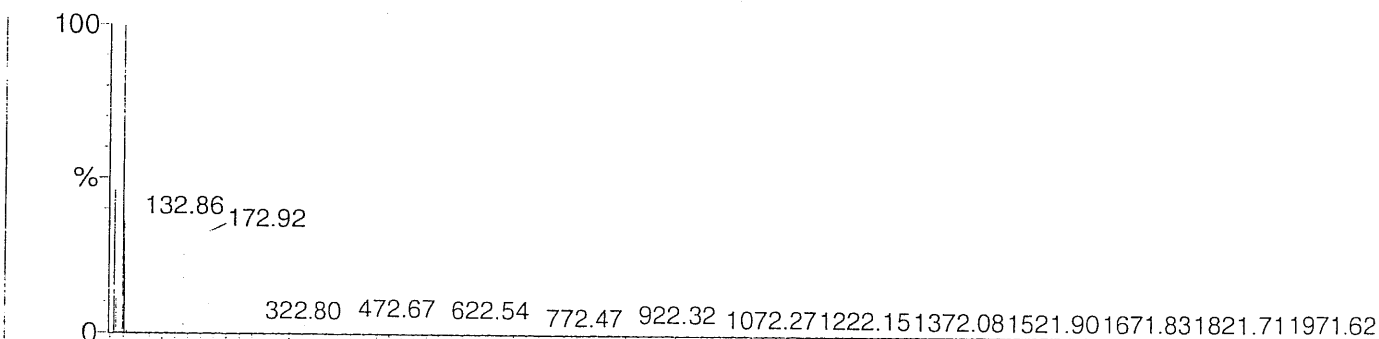
Calibration Report - MS2 Scanning

Page 1 of 1

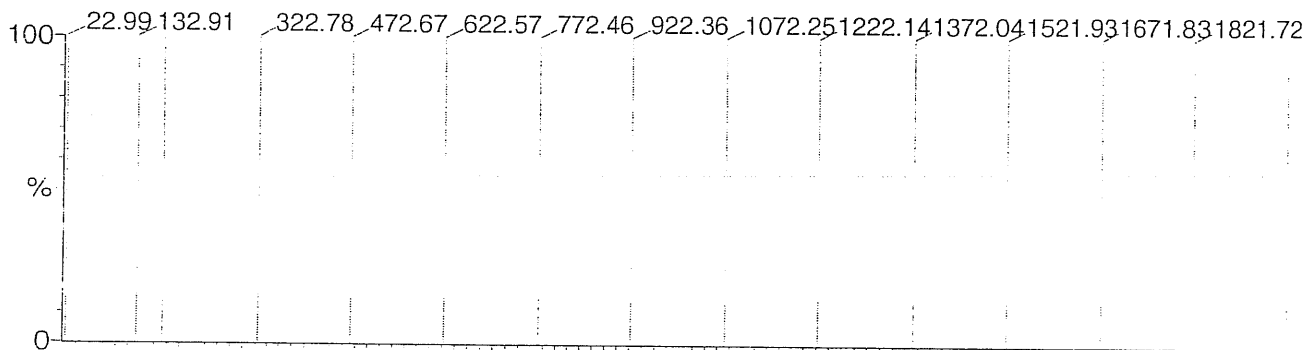
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

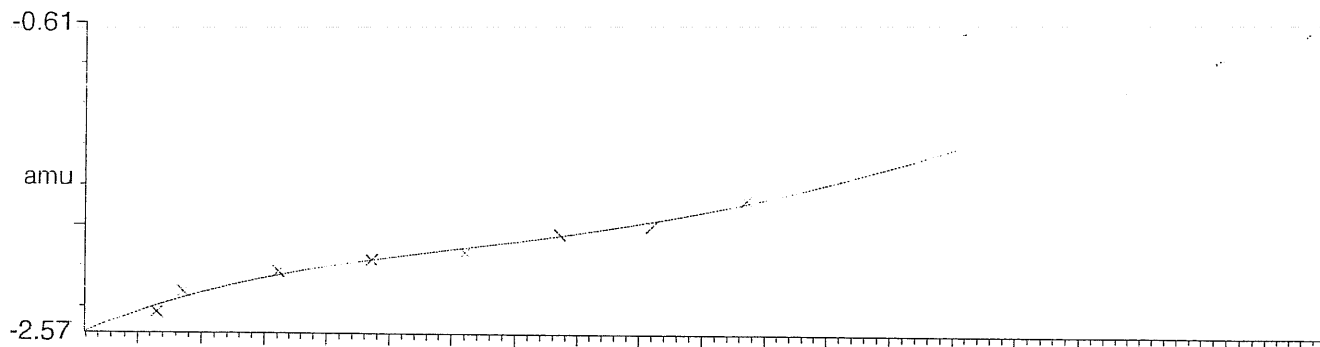
14 matches of 15 tested references



Reference file: Naics2

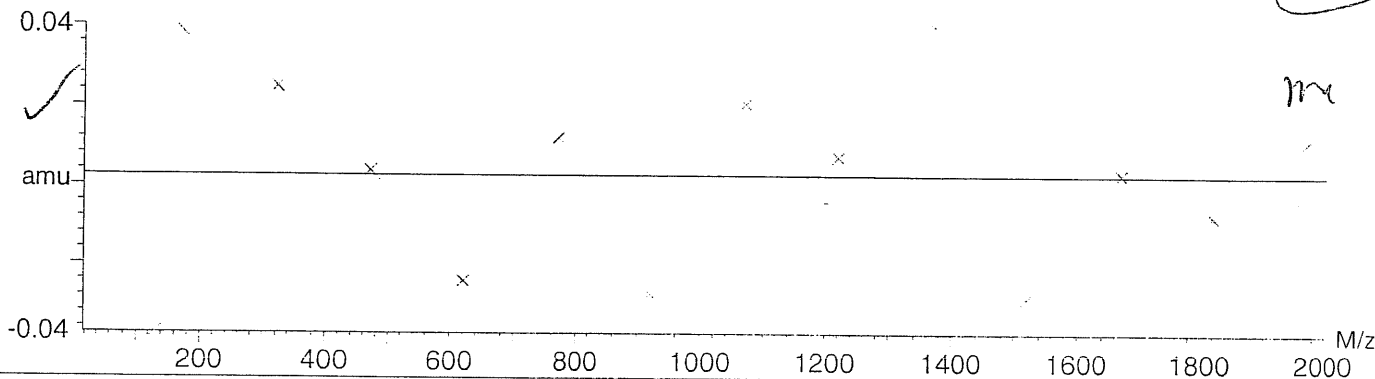


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502 \times 10^{-9} \pm 0.025622$



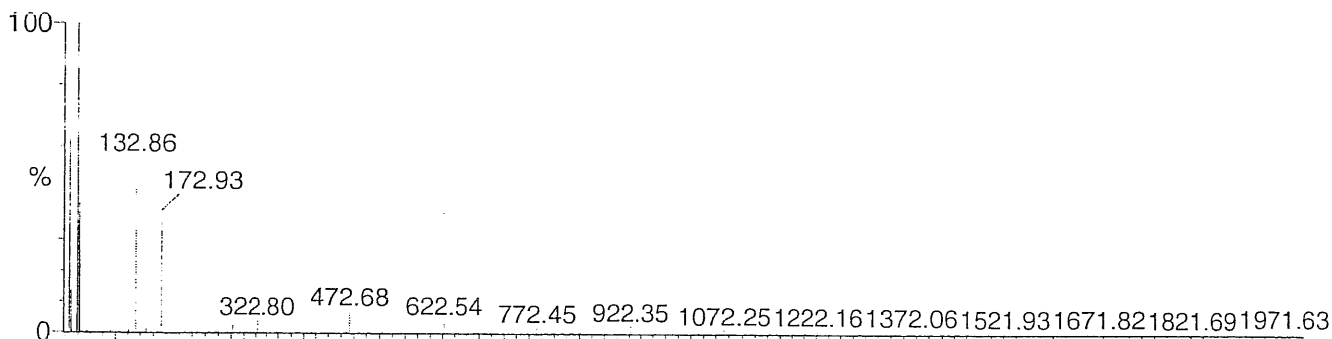
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

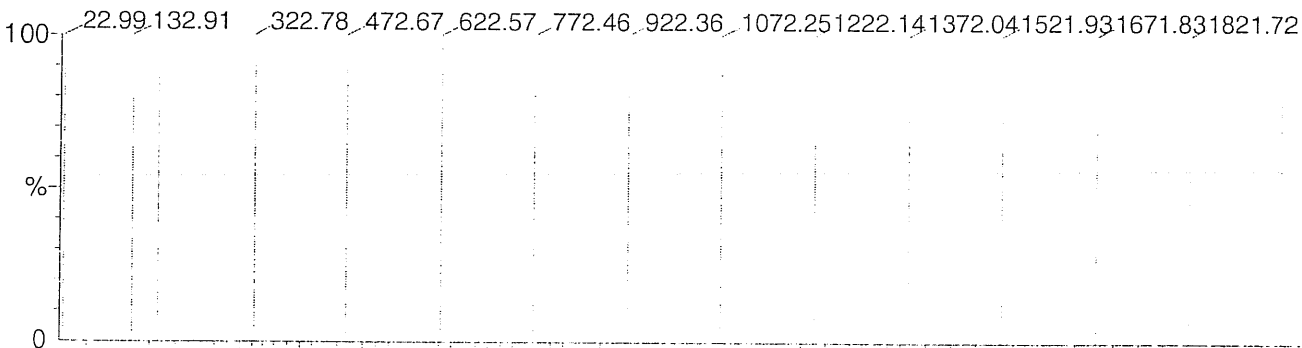
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

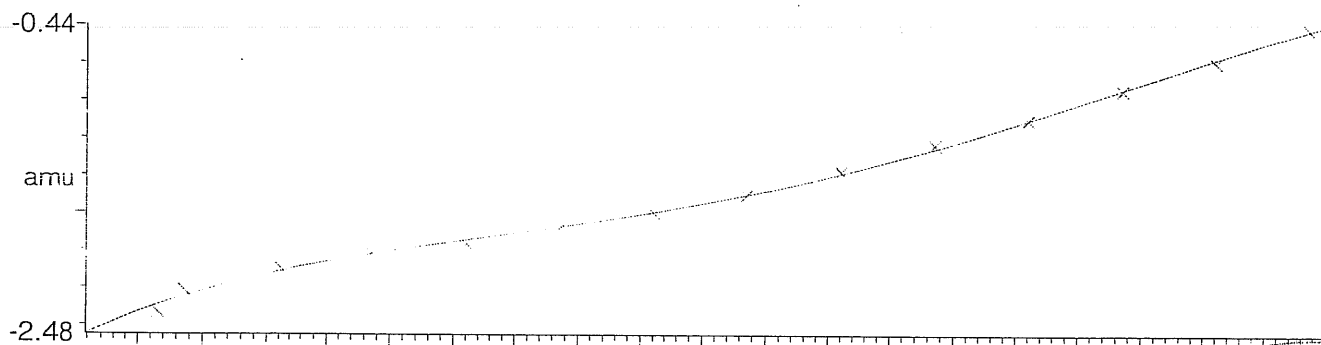
14 matches of 15 tested references



Reference file: Naics2

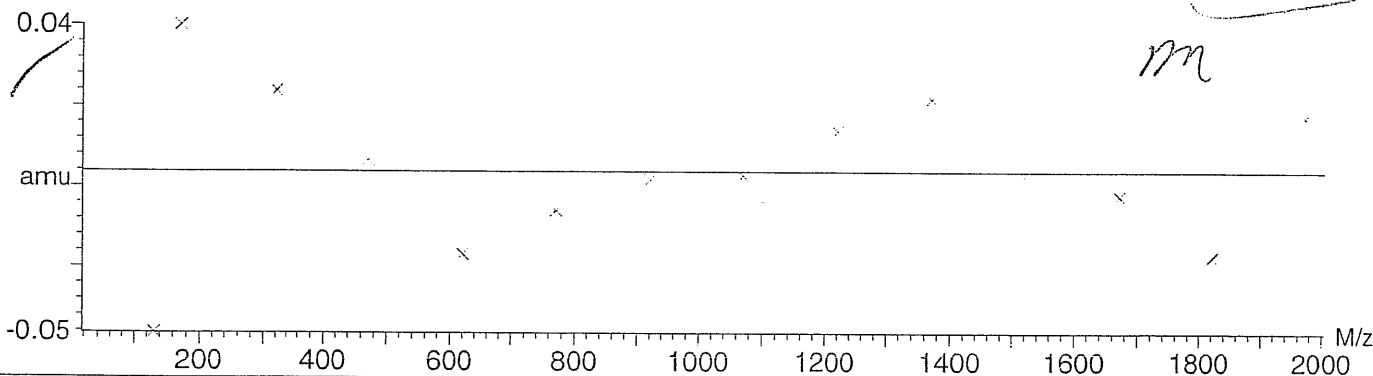


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-6.785350 \times 10^{-9} \pm 0.023134$

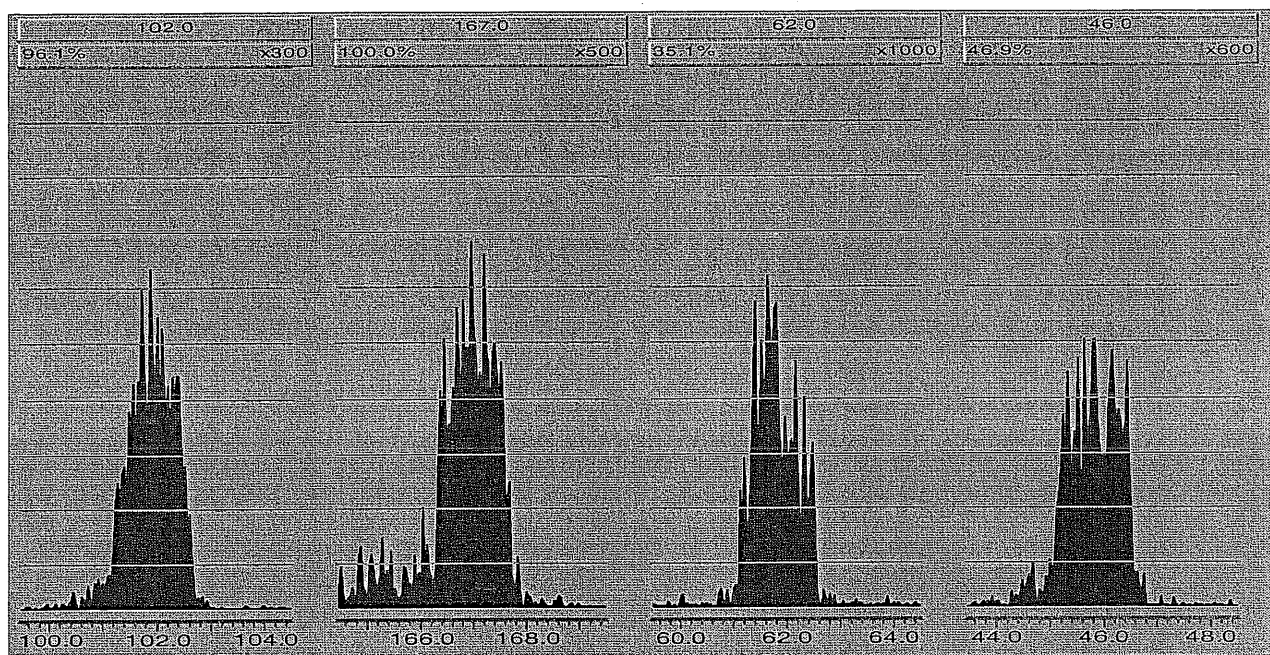


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PRO\ACQUDB\explosives04.IPR

Printed : Sun Mar 14 12:47:33 2010

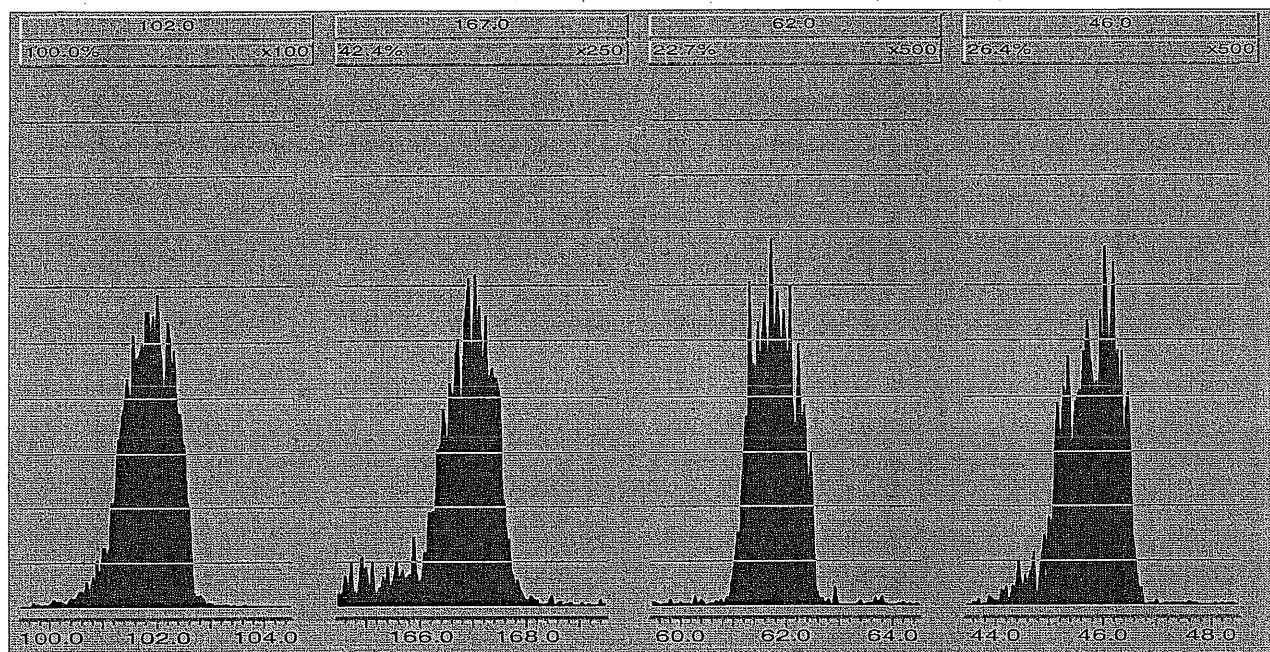


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PRO\ACQUDB\explosives04.IPR

Printed : Fri Mar 19 12:20:57 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Instrument ID: LCMSMS

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			3364.442	12.175	19055.667	17.644
Upper Limit			4373.7746	12.675	24772.3671	18.144
Lower Limit			2355.1094	11.675	13338.9669	17.144
MB for batch 955064	16-mar-10 04:50	EXP0314078a	3528.74	12.17	20031.3	17.641
LCS for batch 955064	16-mar-10 05:19	EXP0314079a	3687.47	12.17	20843.3	17.64
RE15-10-8246	16-mar-10 08:16	EXP0314085a	3592.03	12.168	21415.4	17.651
RE15-10-8245	16-mar-10 08:46	EXP0314086a	3843.05	12.17	22496.4	17.64
RE15-10-8243	16-mar-10 09:15	EXP0314087a	3390.96	12.17	21658.4	17.641

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			8208.162	12.135	46566.233	17.593
Upper Limit			10670.6106	12.635	60536.1029	18.093
Lower Limit			5745.7134	11.635	32596.3631	17.093
RE15-10-8244	19-mar-10 22:48	EXP0319013a	8511.98	12.136	60100.4	17.597
RE15-10-8242	19-mar-10 23:17	EXP0319014a	7345.05	12.136	45229.1	17.597
RE15-10-8240	19-mar-10 23:47	EXP0319015a	7095.04	12.136	45620	17.597
RE15-10-8241	20-mar-10 00:16	EXP0319016a	7248.81	12.133	44894.1	17.607
RE15-10-8267	20-mar-10 00:46	EXP0319017a	7518.33	12.136	44100.8	17.597

IS1 (DNB) = 1,3-Dinitrobenzene-d4

IS2 (DNT) = 2,6-Dinitrotoluene-d3

Area Upper Limit = + 30% of average IS area from multipoint calibration

Area Lower Limit = - 30% of average IS area from multipoint calibration

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits

SAMPLE DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8246

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346001

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314085a

Date Analyzed: 16-MAR-10 08:16

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314085a

Date: 16-Mar-2010

Time: 08:16:38

ID: 247346001

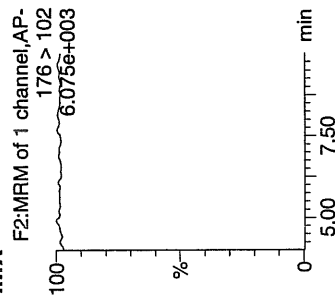
Vial: 3:2,A

μMFP
3/17/10

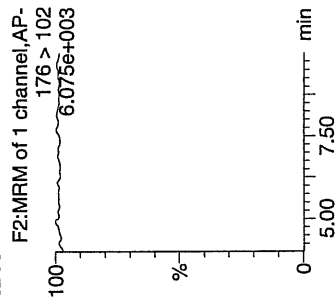
WAVE/955065/SOZZ/21

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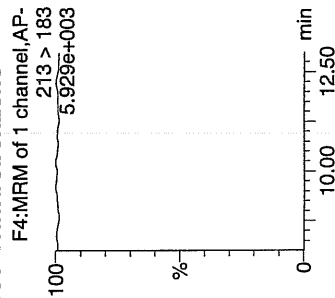
HMX



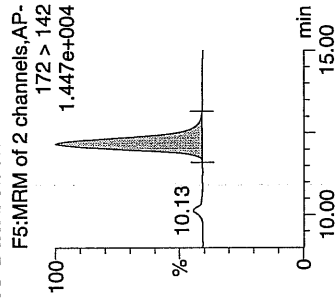
RDX



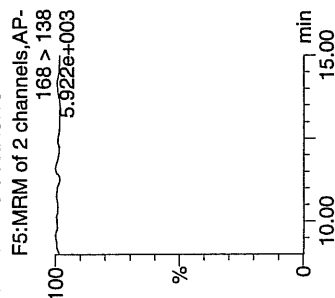
135-Trinitrobenzene



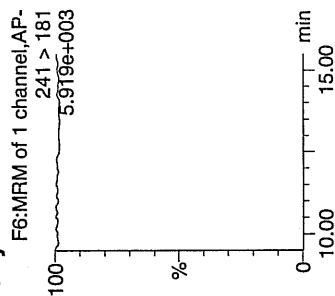
13-Dinitrobenzene-d4



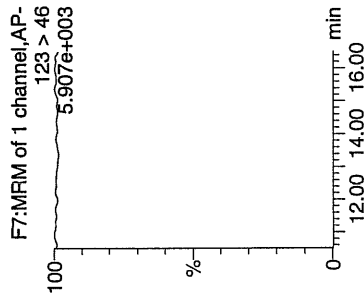
13-Dinitrobenzene



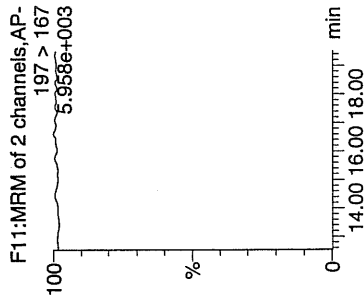
Tetryl



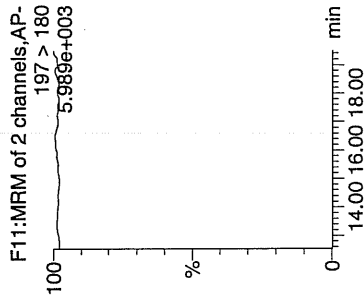
Nitrobenzene



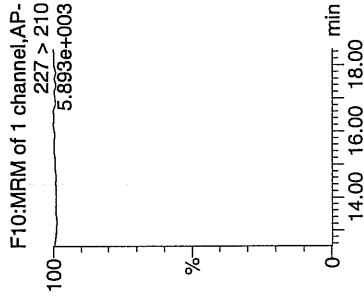
4-Amino-26-dinitrotoluene



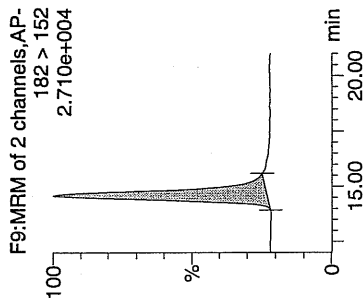
2-Amino-46-dinitrotoluene



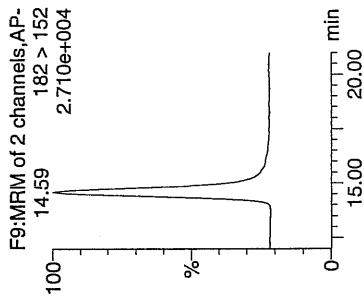
246-Trinitrotoluene



34-dinitrotoluene



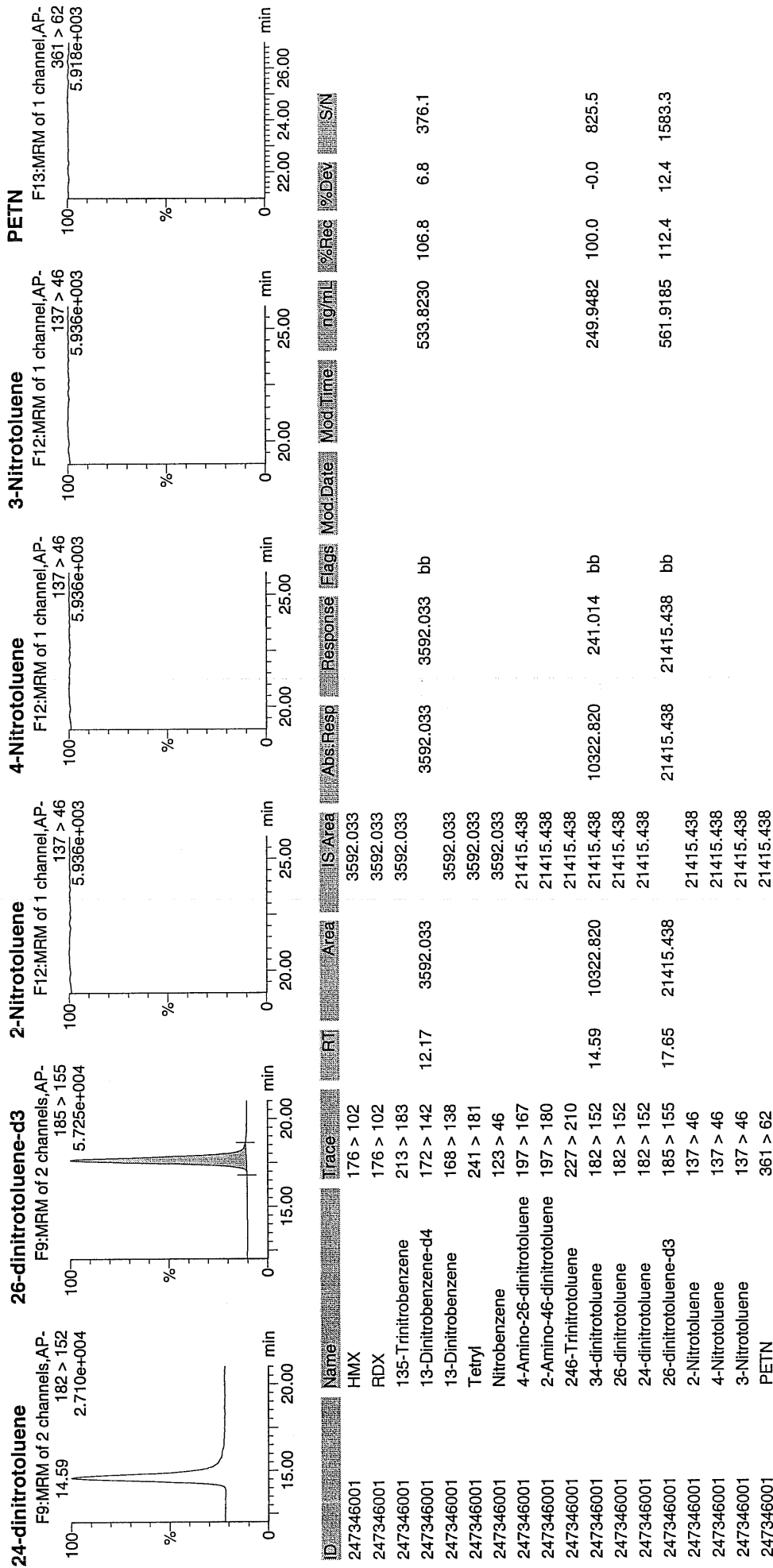
26-dinitrotoluene



4mm 8x10

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8246

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346001

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050103.wiff

Date Analyzed: 06-MAR-10 19:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

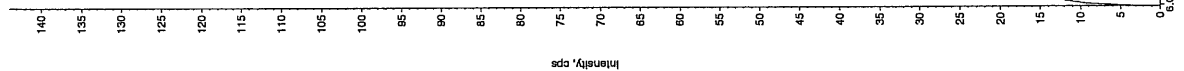
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Jan 3/9/10

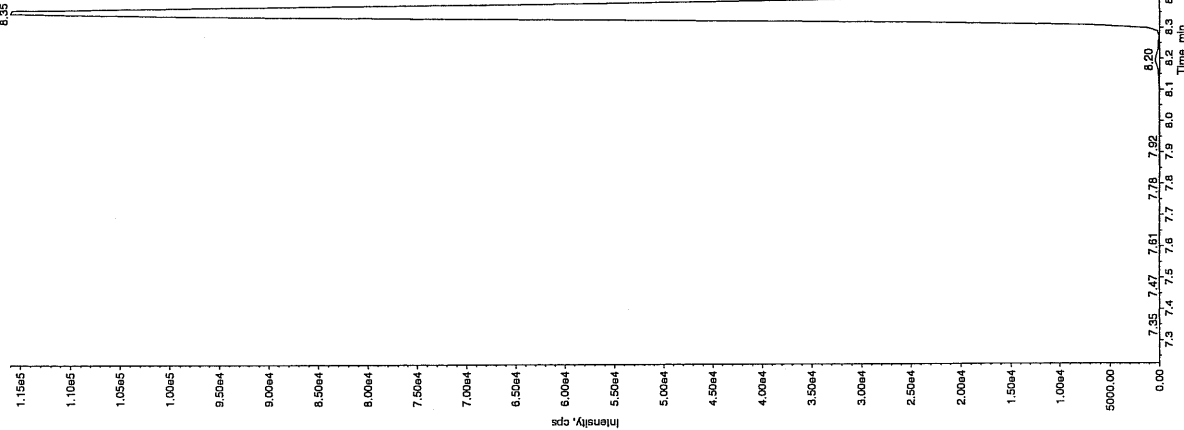
Sample Name: "247346001" Sample ID: "95506521ER" File: "EXS03050103.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:49:15 PM
 Modified: No



Sample Name: "247346001" Sample ID: "95506521ER" File: "EXS03050103.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:49:15 PM
 Modified: No



Ann. 03/09/10

Sample Name: "247346001" Sample ID: "955065[2]LER" File: "EXS0303050103.wif"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 7:49:15 PM
Modified: No

Intensity, cps

50
49
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0

Time, min

4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6.0

Sample Name: "247346001" Sample ID: "955065[2]LER" File: "EXS0303050103.wif"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 247. ng/mL
Acq. Date: 3/6/2010
Acq. Time: 7:49:15 PM
Modified: No

Dec. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 30.0 points
Spectrum Window: 8.37 min
Expected RT: No
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.35 min
Area: 3.09e+006 counts
Height: 93431.431 cps
Start Time: 8.26 min
End Time: 8.68 min

Intensity, cps

9265
9065
8865
8665
8465
8265
8065
7865
7665
7465
7265
7065
6865
6665
6465
6265
6065
5865
5665
5465
5265
5065
4865
4665
4465
4265
4065
3865
3665
3465
3265
3065
2865
2665
2465
2265
2065
1865
1665
1465
1265
1065
8064
6064
4064
2064
0.0

Time, min

7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0 9.1 9.2 9.3

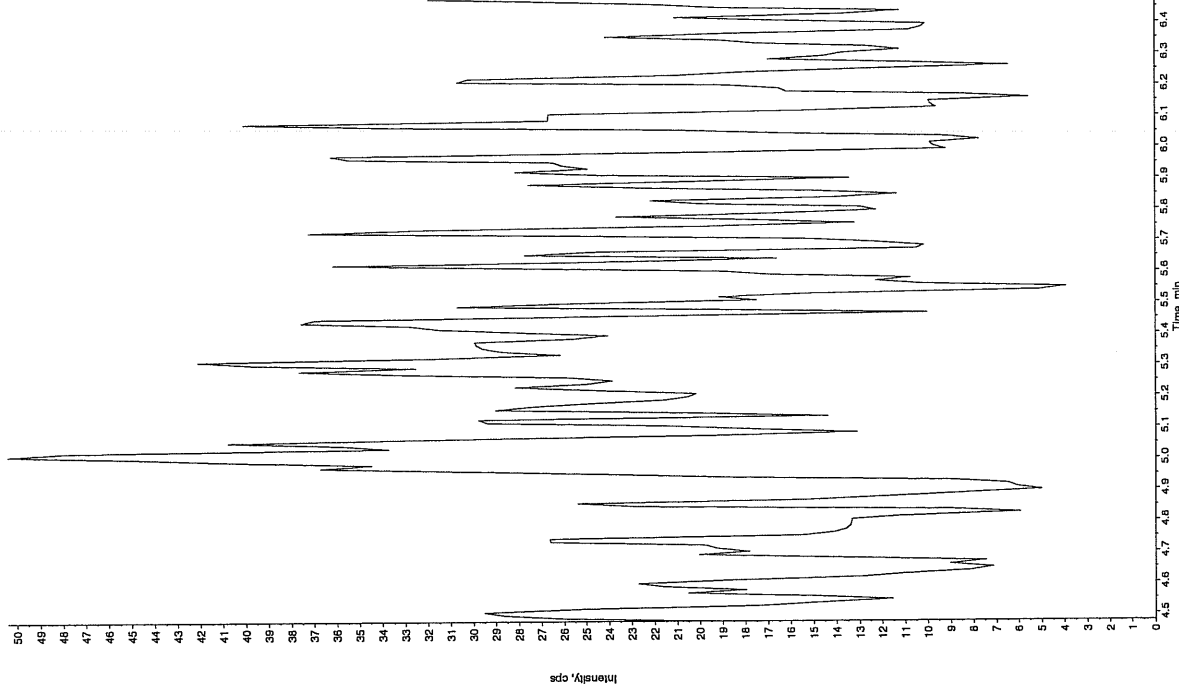
Sample Name: "247346001" Sample ID: "955065[2]LRF" File: "EXS03050103.wif"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 3/6/2010
Acq. Time: 7:49:15 PM
Modified: No
Proc Algorithm: IntelliQuan - IQA
Min. Peak Height: 8000.00 cps
Min. Peak Width: 3.0.00 sec
Smoothing Width: 30.0 points
RT Window: 30.0 sec
Expected RT: 10.9 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 10.8 min
Area: 3.38e+004 counts
Height: 8986.092 cps
Start Time: 10.7 min
End Time: 11.0 min



Sample Name: "247346001" Sample ID: "955065[2]LRF" File: "EXS03050103.wif"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 7:49:15 PM
Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8245

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346002

Sample Amount 2

Moisture: 1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314086a

Date Analyzed: 16-MAR-10 08:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314086a

Date: 16-Mar-2010

Time: 08:46:13

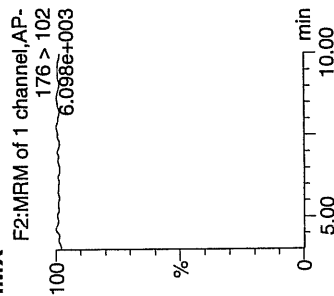
ID: 247346002

Vial: 3:2,B

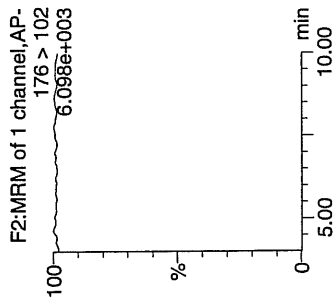
14077
3/17/10

Handwritten: *955065 / 21*

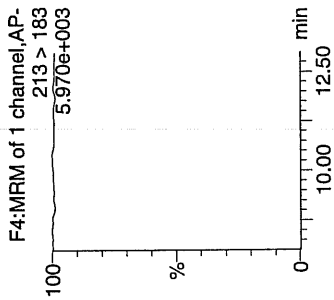
HMX



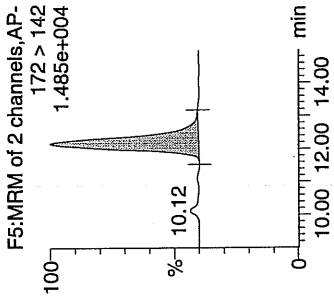
RDX



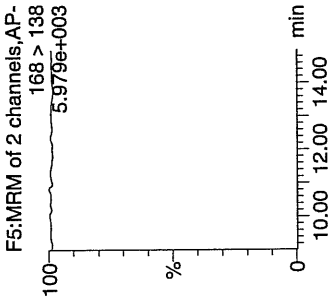
135-Trinitrobenzene



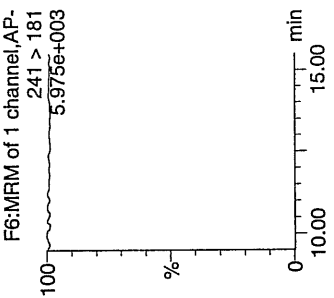
13-Dinitrobenzene-d4



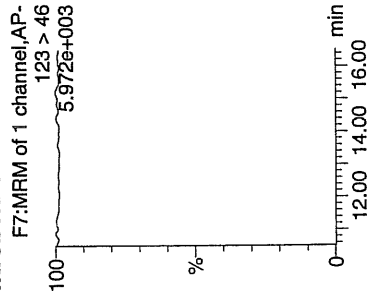
13-Dinitrobenzene



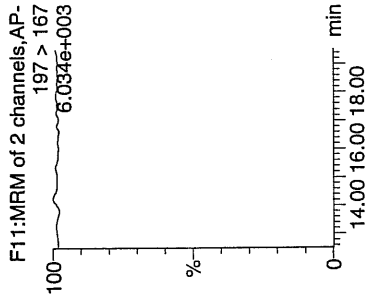
Tetryl



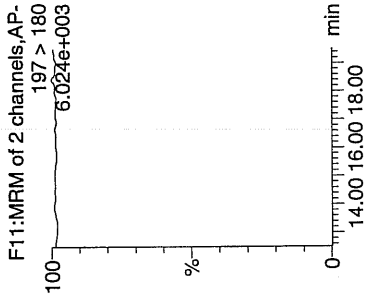
Nitrobenzene



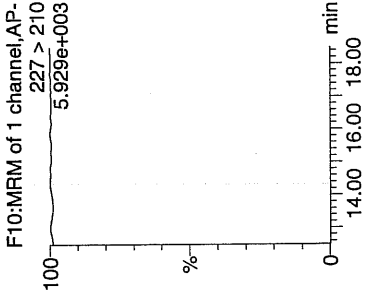
4-Amino-26-dinitrotoluene



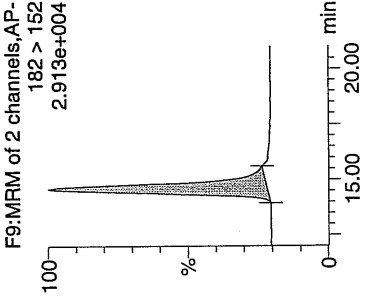
2-Amino-46-dinitrotoluene



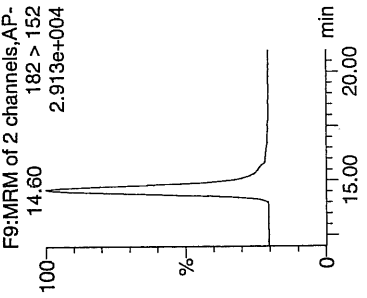
246-Trinitrotoluene



34-dinitrotoluene



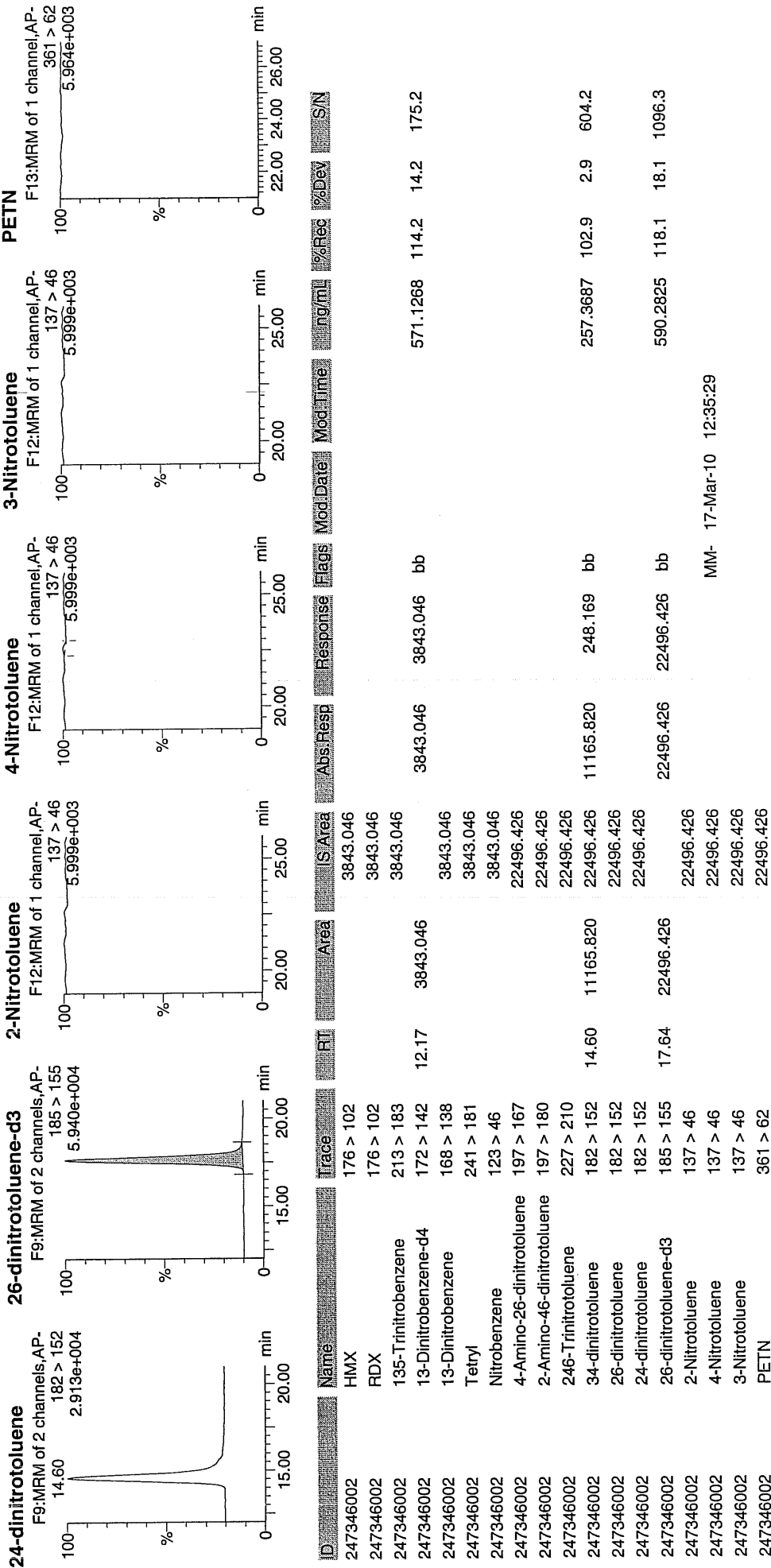
26-dinitrotoluene



Handwritten: *done 3/17/10*

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8245

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346002

Sample Amount 2

Moisture: 1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050104.wiff

Date Analyzed: 06-MAR-10 20:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

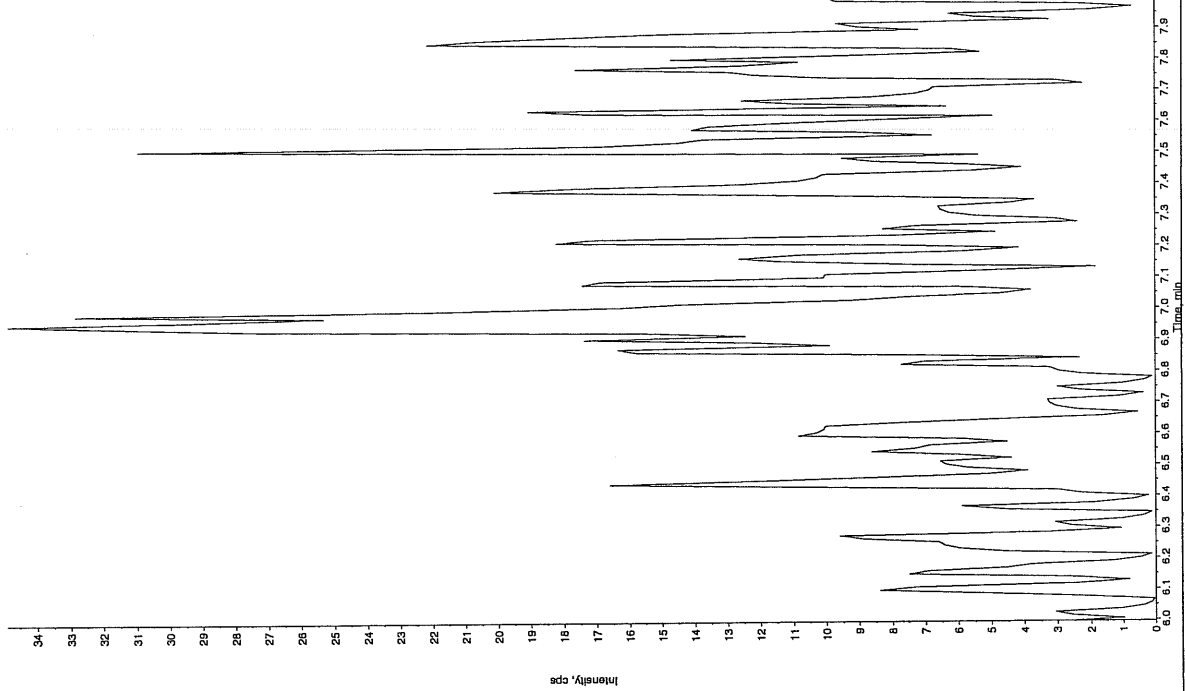
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Ken 3/9/10

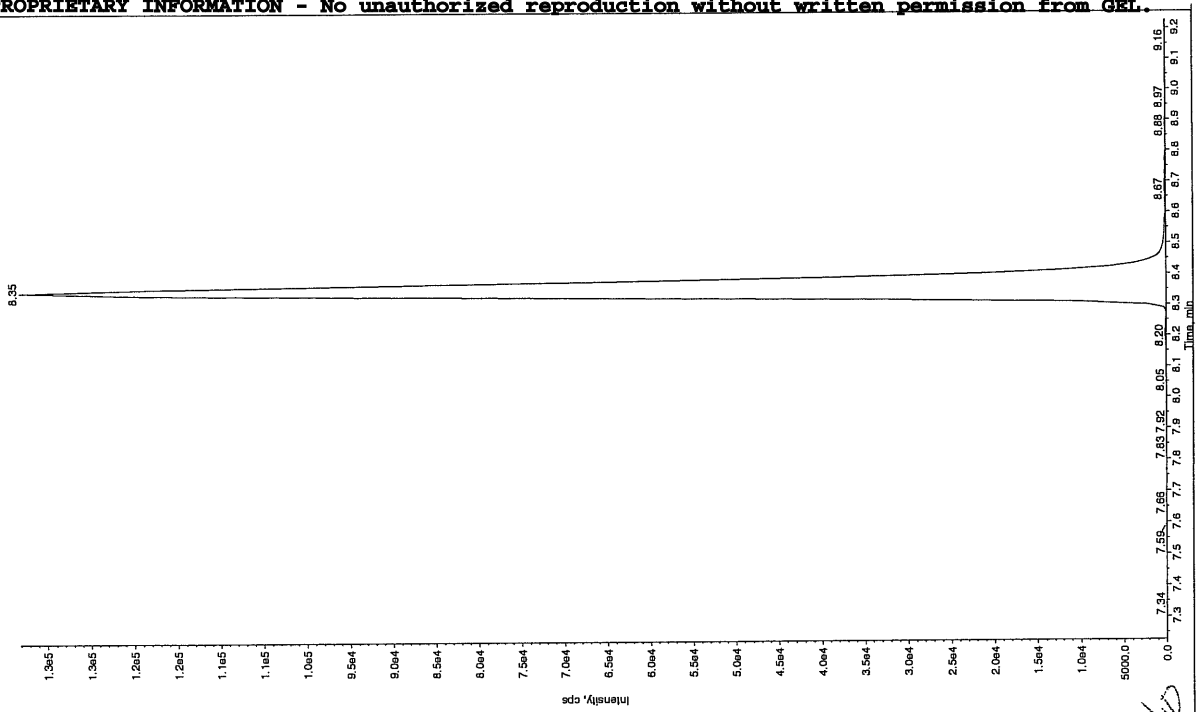
Sample Name: "247346002" Sample ID: "95506521ER" File: "EXS03050104.wif"
 Peak Name: "TAIB" Mass(es): "237.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:04:56 PM
 Modified: No



Sample Name: "247346002" Sample ID: "95506521ER" File: "EXS03050104.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:04:56 PM
 Modified: No



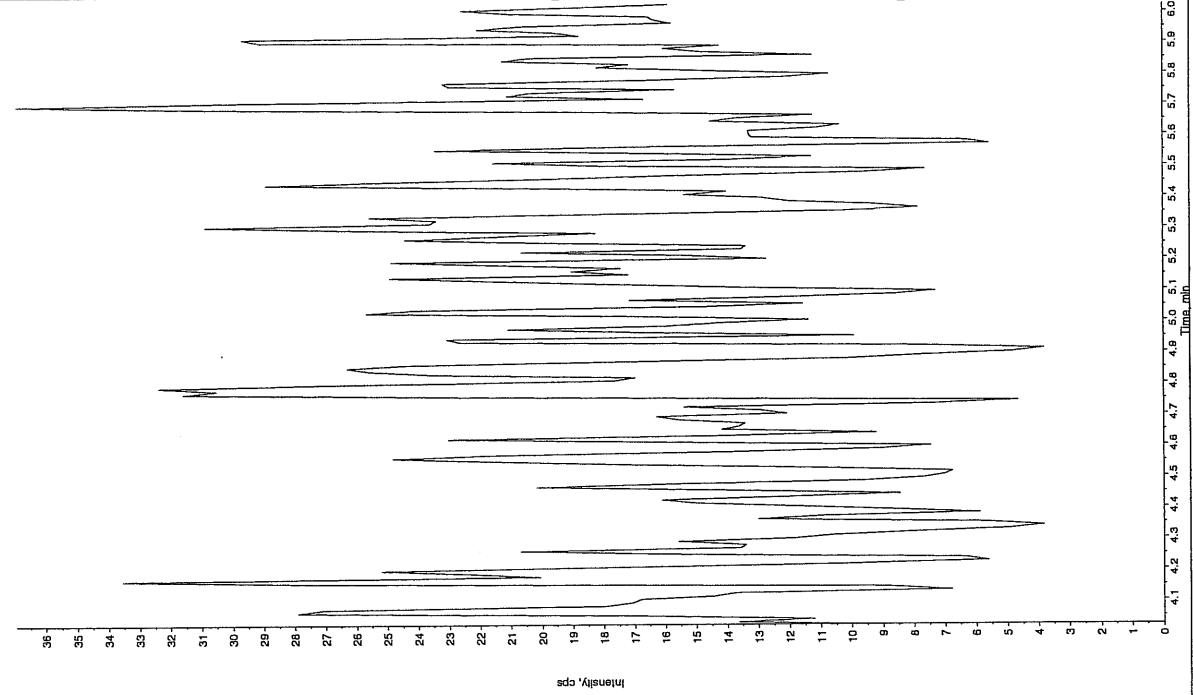
Ann 03/09/10

Sample Name: "247346002" Sample ID: "955065121ER" File: "EXS03050104.wif"

Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:04:56 PM
 Modified: No



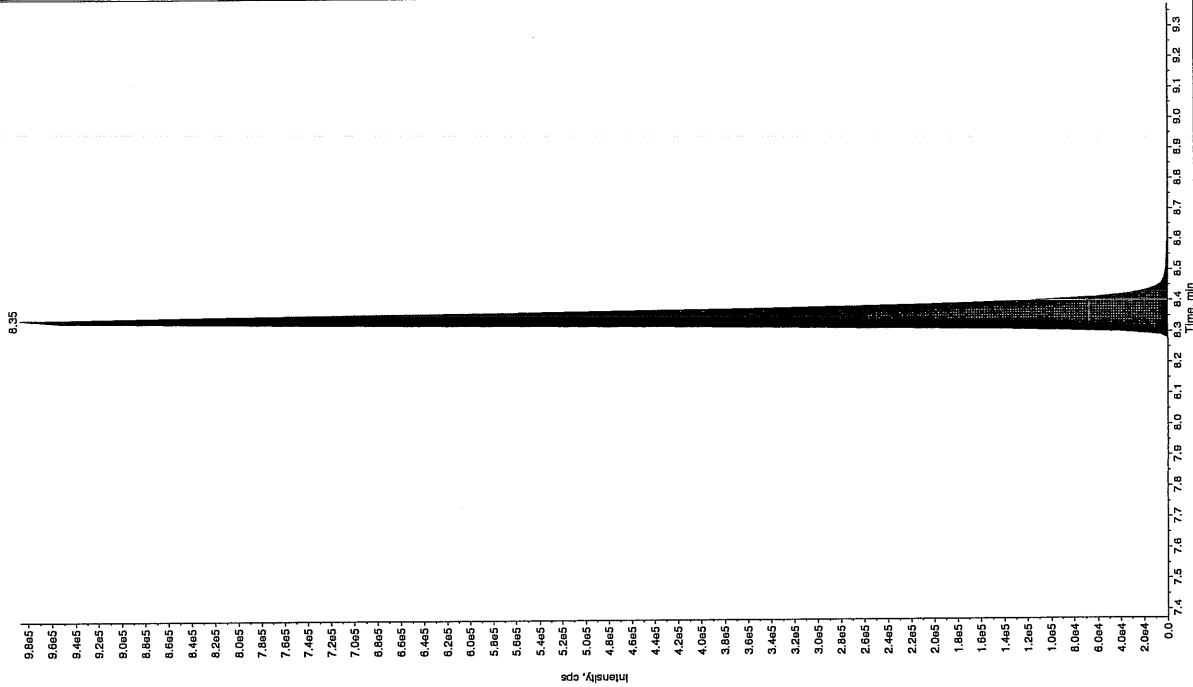
Sample Name: "247346002" Sample ID: "955065121ER" File: "EXS03050104.wif"

Peak Name: "34-Dinitrotoluene" Mass(es): "182.1751.9 amu"

Comment: "LCX83212S" Annotation: "

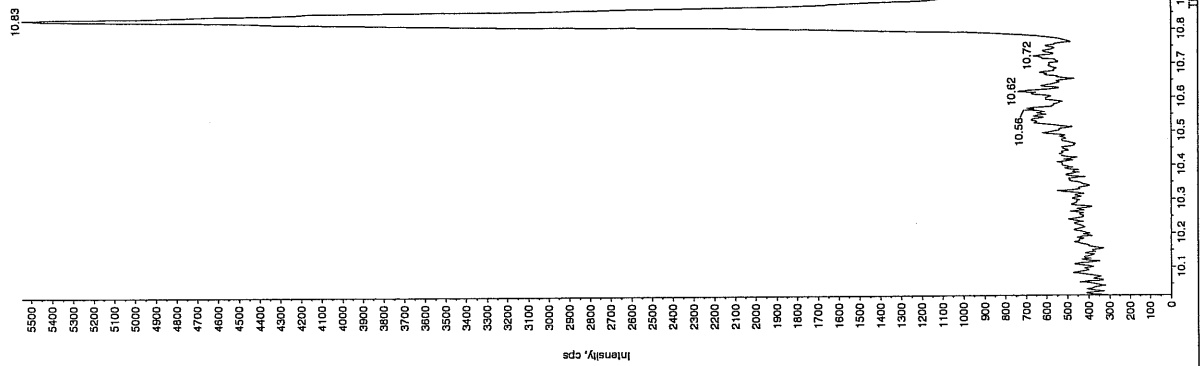
Sample Index: 1
 Sample Type: Unknown
 Concentration: 271 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:04:56 PM
 Modified: No
 Dec. Algorithm: Intelliquan - IQA
 Min. Peak Height: 1460.00 cps
 Max. Peak Width: 3.00 points
 Smoothing Width: 30.0
 Window: 30.0
 Detected RT: 8.37 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.35 min
 Area: 3.38e+006 counts
 Height: 986635.313 cps
 Start Time: 8.26 min
 End Time: 8.71 min



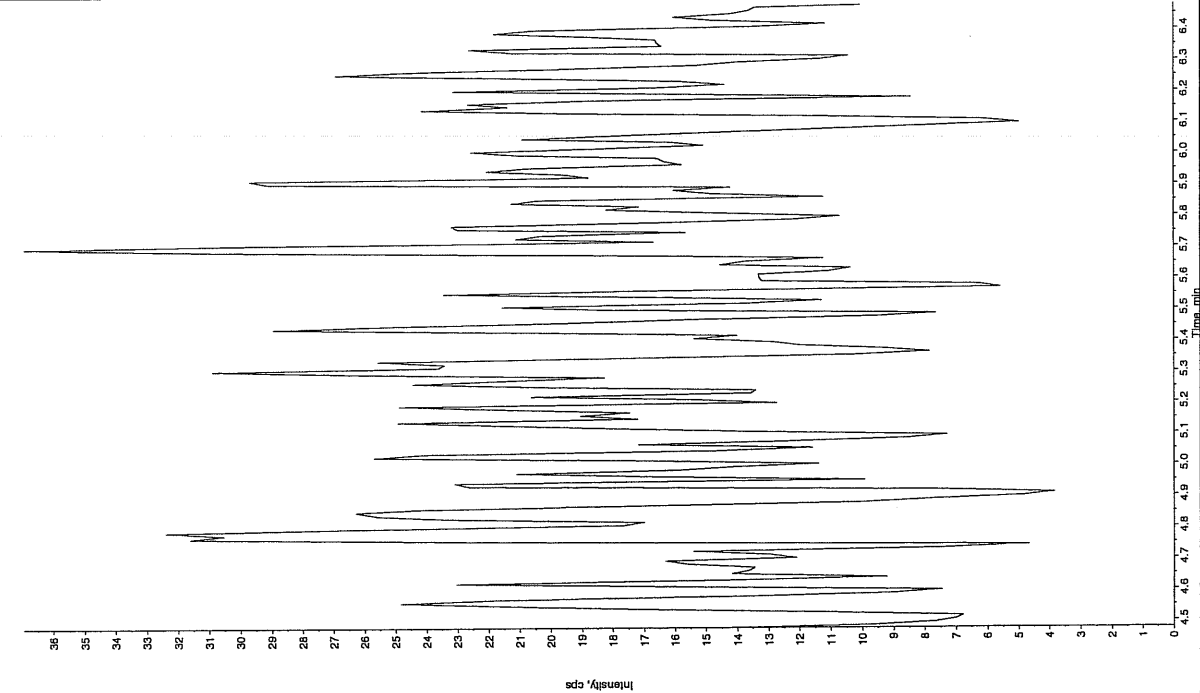
Sample Name: "247346002" Sample ID: "955065121ER" File: "EXS03050104.wif"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 8:04:56 PM
Modified: No



Sample Name: "247346002" Sample ID: "955065121ER" File: "EXS03050104.wif"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 8:04:56 PM
Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8243

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314087a

Date Analyzed: 16-MAR-10 09:15

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314087a

Date: 16-Mar-2010

Time: 09:15:42

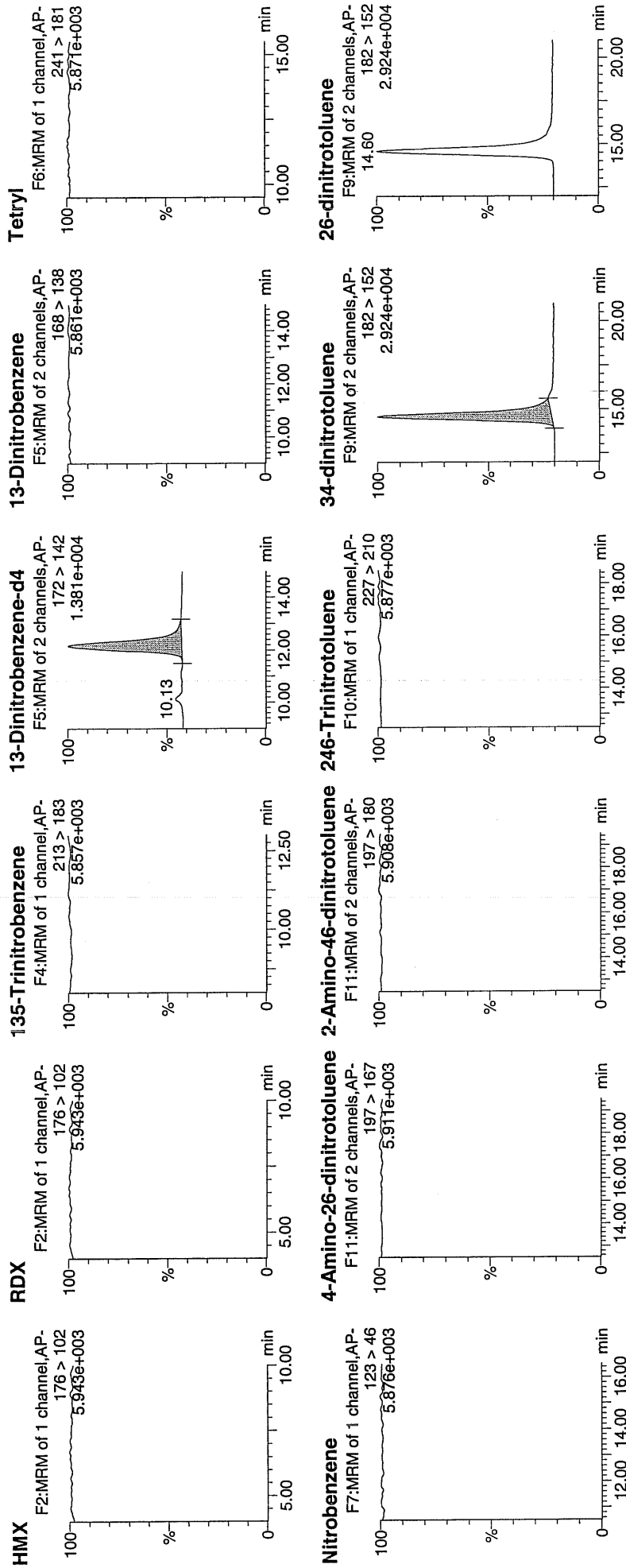
ID: 247346003

Vial: 3:2,C

1471
3/17/10

WAV 955065 | 21

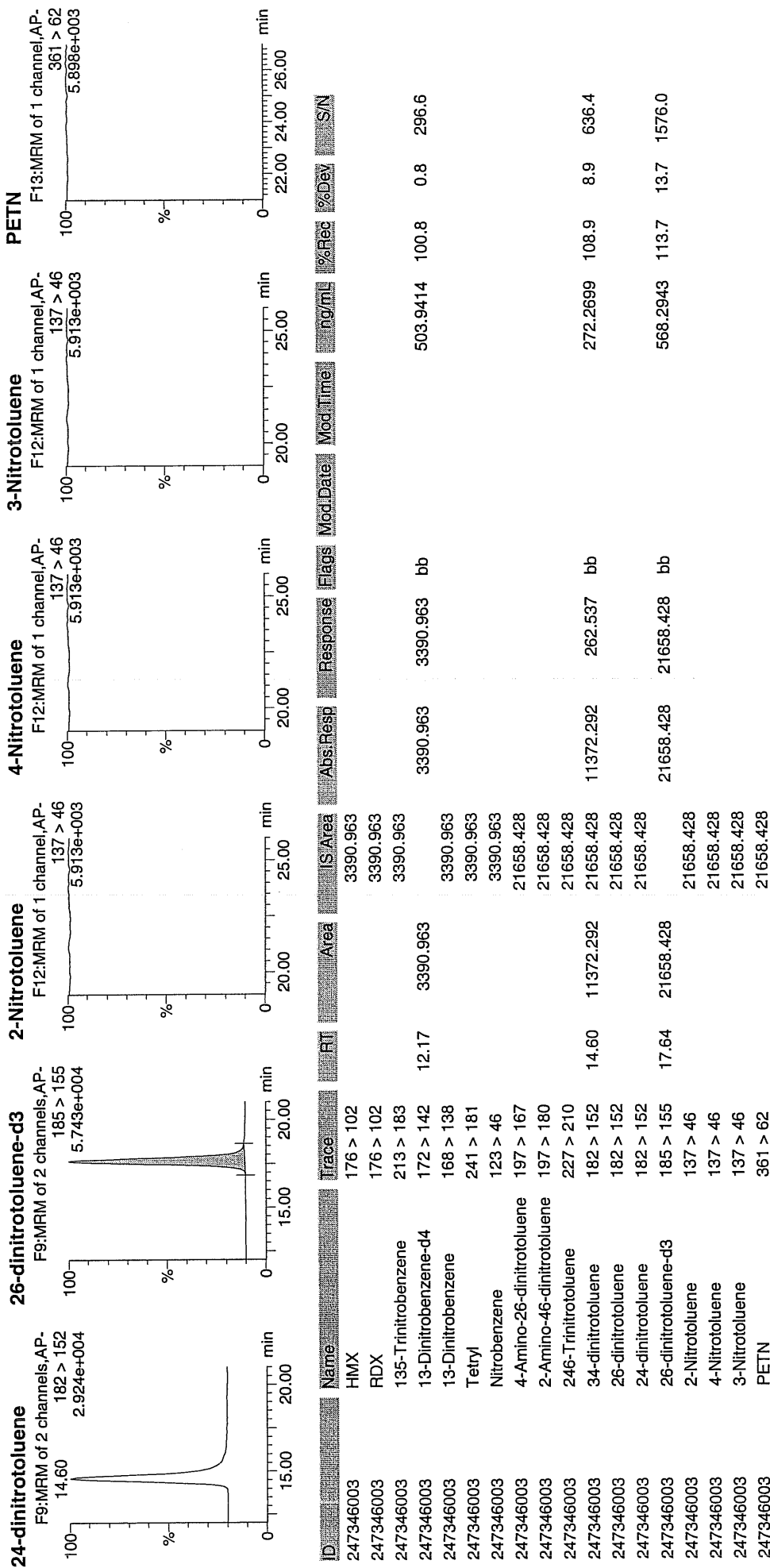
Page 183 of 649



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Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8243

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050105.wiff

Date Analyzed: 06-MAR-10 20:20

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

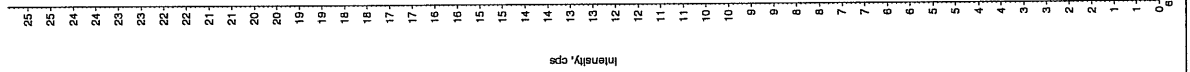
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

kan 3/9/10

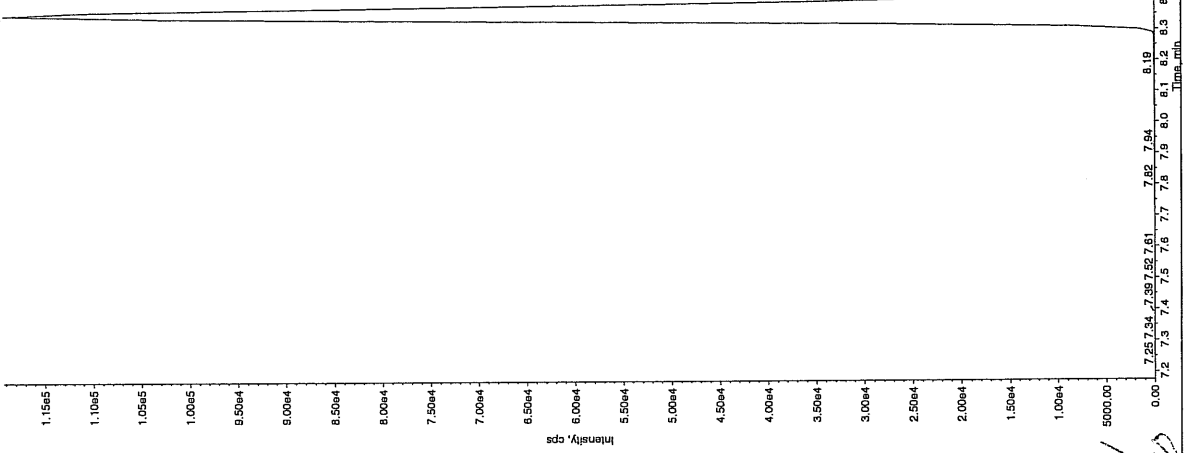
Sample Name: "247346003" Sample ID: "955065121ER" File: "EXS03050105.wif"
 Peak Name: "1ATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:20:37 PM
 Modified: No



Sample Name: "247346003" Sample ID: "955065121ER" File: "EXS03050105.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

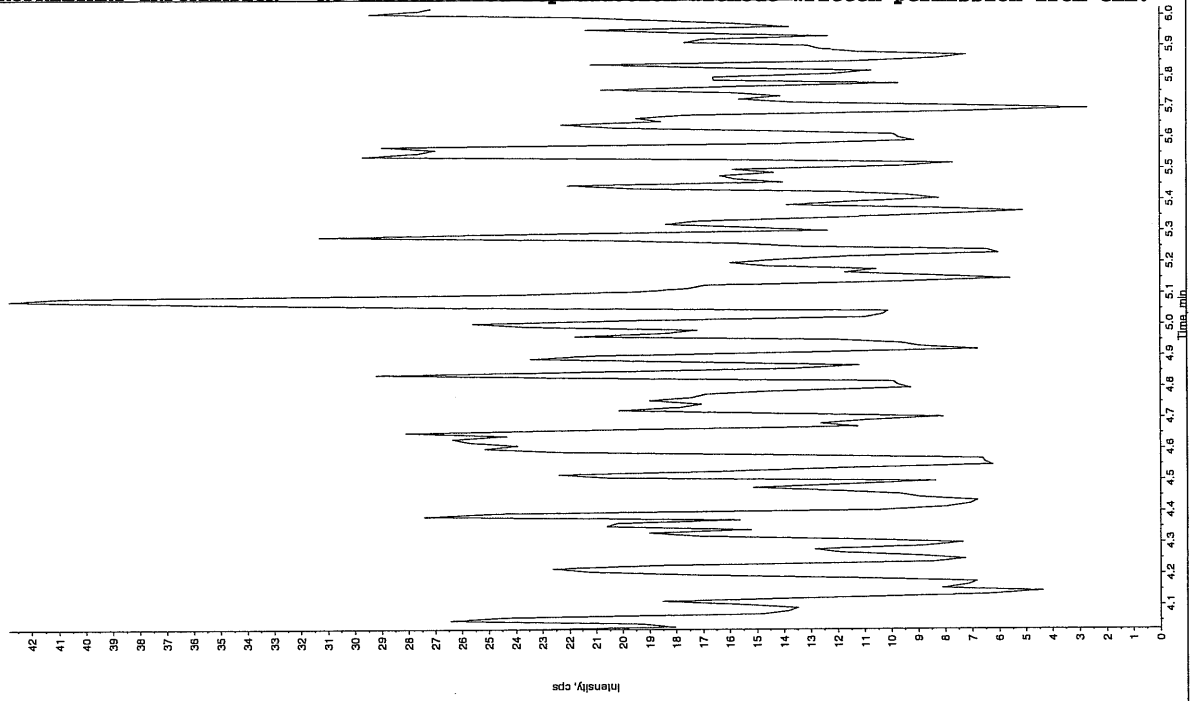
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:20:37 PM
 Modified: Yes



kan 03/09/10

Sample Name: "247346003" Sample ID: "955065121" File: "EX503050105.wif"
 Peak Name: "26-Diantho-4-nitrotoluene" Mass(es): "186.046.0 amu"
 Comment: "LCX83212S" Annotation: "

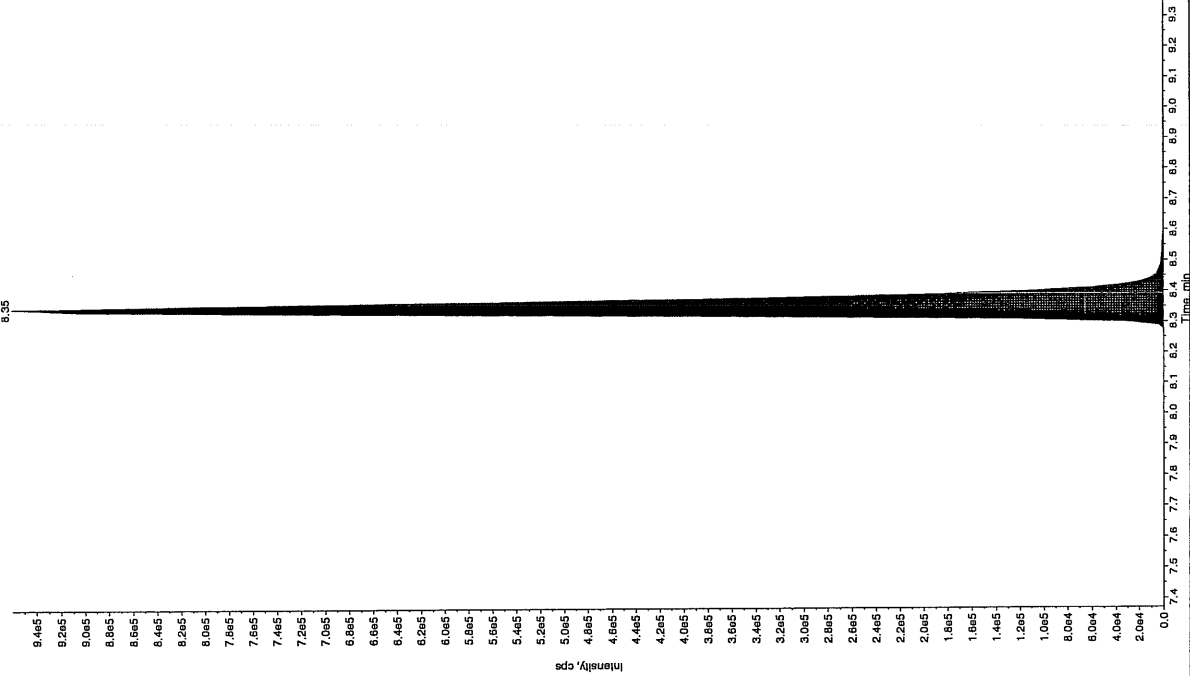
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/6/2010
 Acq. Time: 8:20:37 PM
 Modified: No



Sample Name: "247346003" Sample ID: "955065121" File: "EX503050105.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCX83212S" Annotation: "

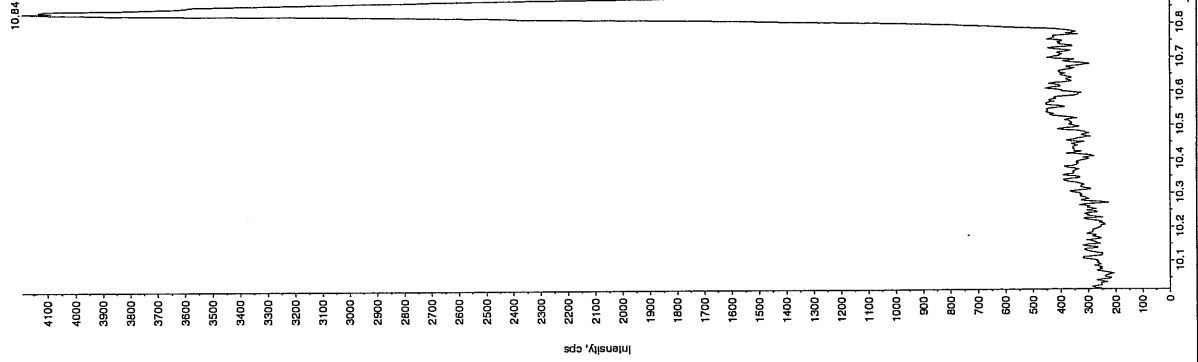
Sample Index: 1
 Sample Type: Unknown
 Concentration: 259. ng/mL
 Calculated Conc: 259.
 Acq. Date: 3/6/2010
 Acq. Time: 8:20:37 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 30.0 sec
 Selected RT: 8.37 min
 Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 3.23e+006 counts
 Height: 959897.827 cps
 Start Time: 8.26 min
 End Time: 8.67 min



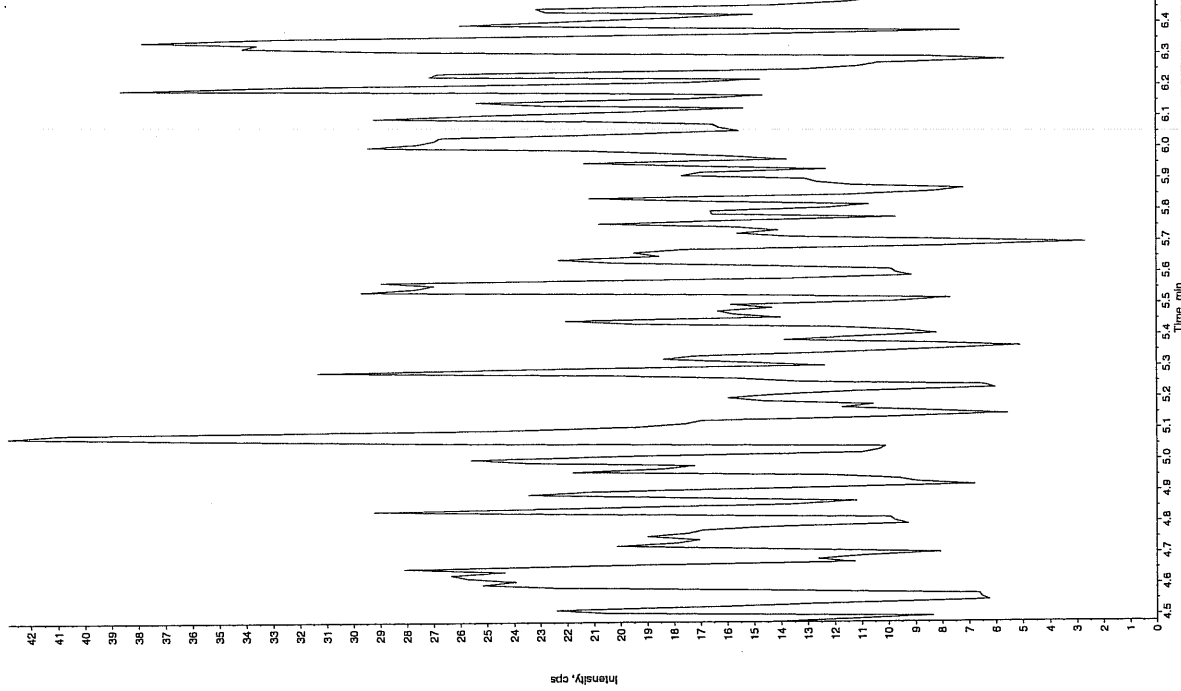
Sample Name: "247346003" Sample ID: "95506521LER" File: "EXS03050105.wif"
 Peak Name: "bis(4-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:20:37 PM
 Modified: No



Sample Name: "247346003" Sample ID: "95506521LER" File: "EXS03050105.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:20:37 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8244

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346004

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319013a

Date Analyzed: 19-MAR-10 22:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319013a

Date: 19-Mar-2010

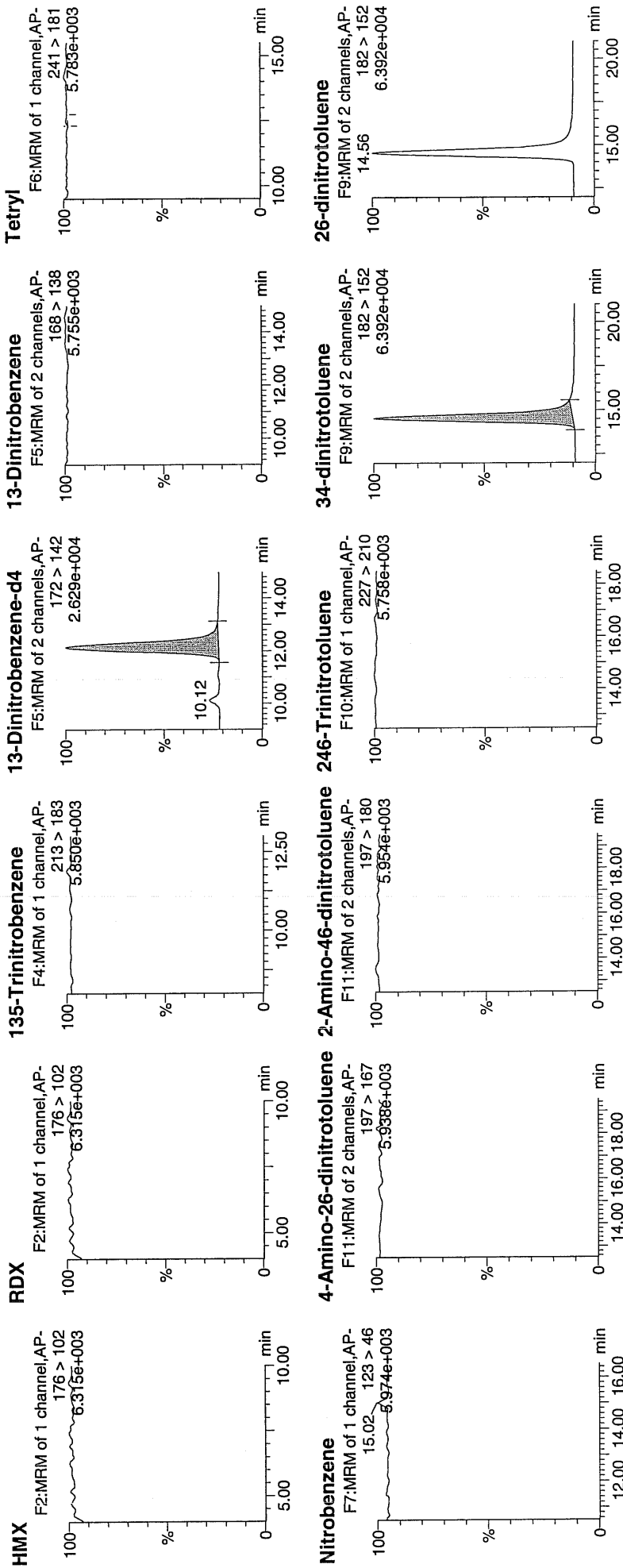
Time: 22:48:04

ID: 247346004

Vial: 1:5,A

LC#17
3/20/10

195565 / 8025 / 21



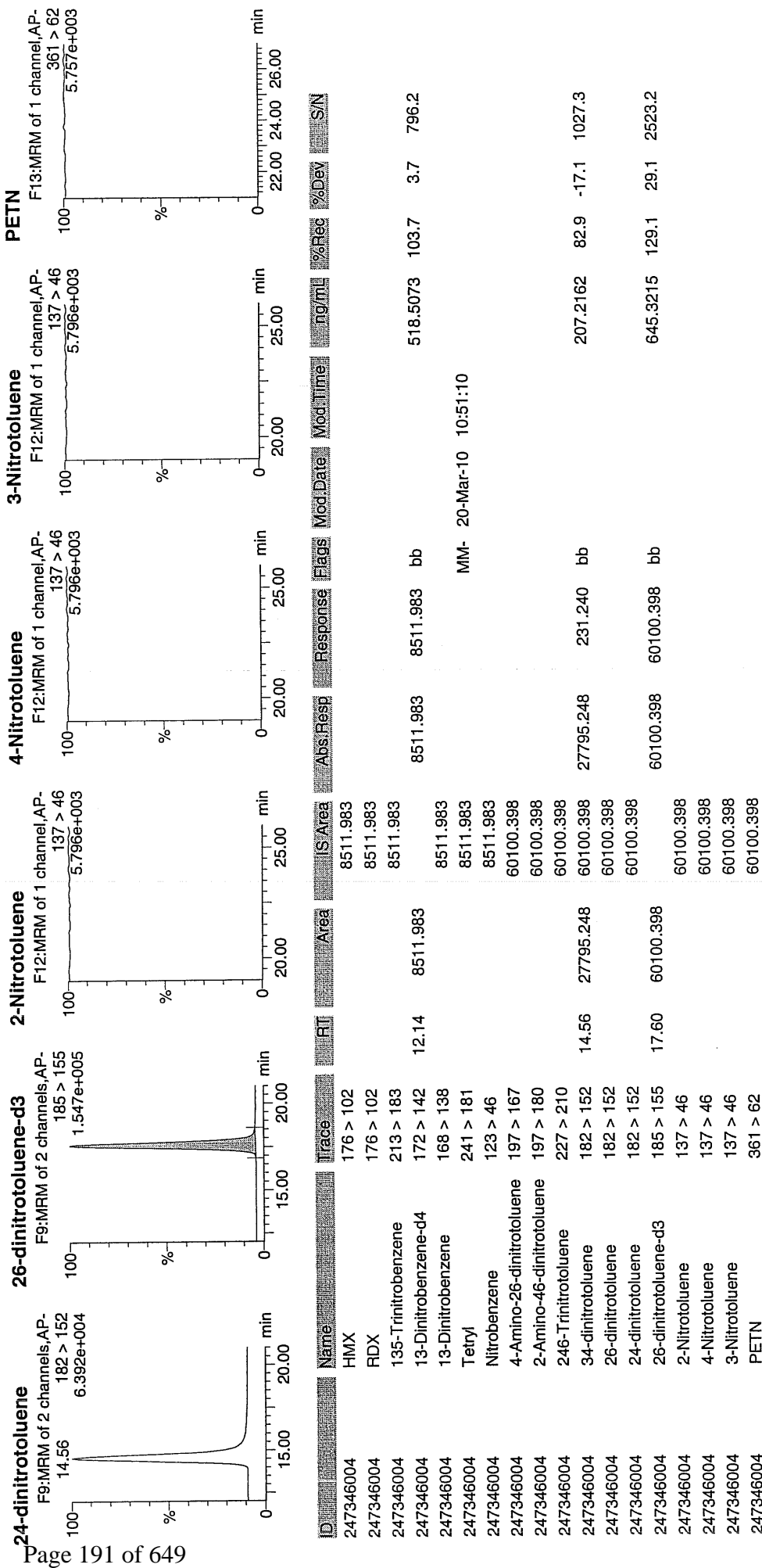
done 3/22/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Mar 20 11:06:08 2010, Page 26 of 73

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8244

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346004

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050109.wiff

Date Analyzed: 06-MAR-10 21:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

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Sample Name: "247346004" Sample ID: "955065121" File: "EXS03050109.wif"

Peak Name: "1ATB" Mass(es): "257.2/204.9 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

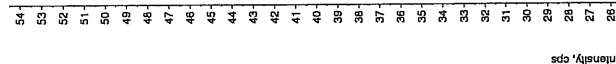
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 9:23:26 PM

Modified: No



Sample Name: "247346004" Sample ID: "955065121" File: "EXS03050109.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

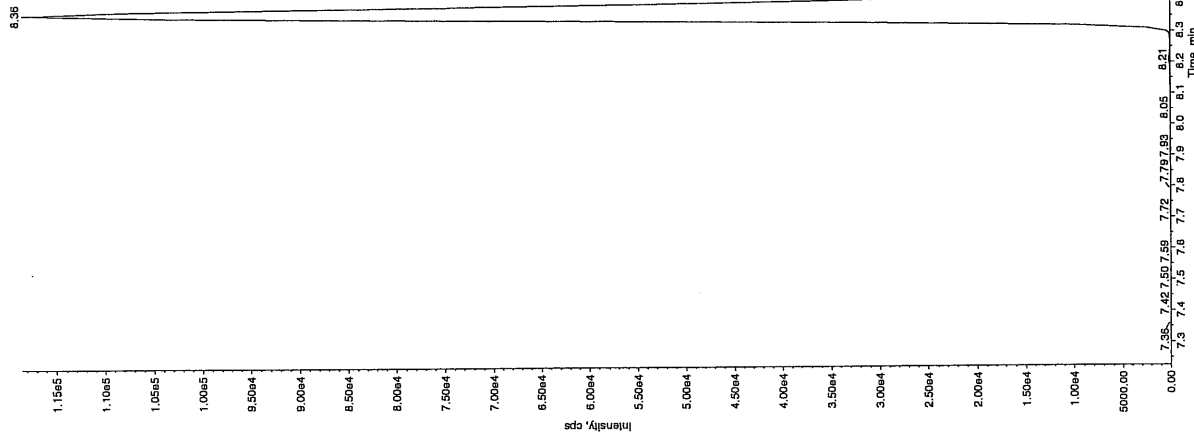
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 9:23:26 PM

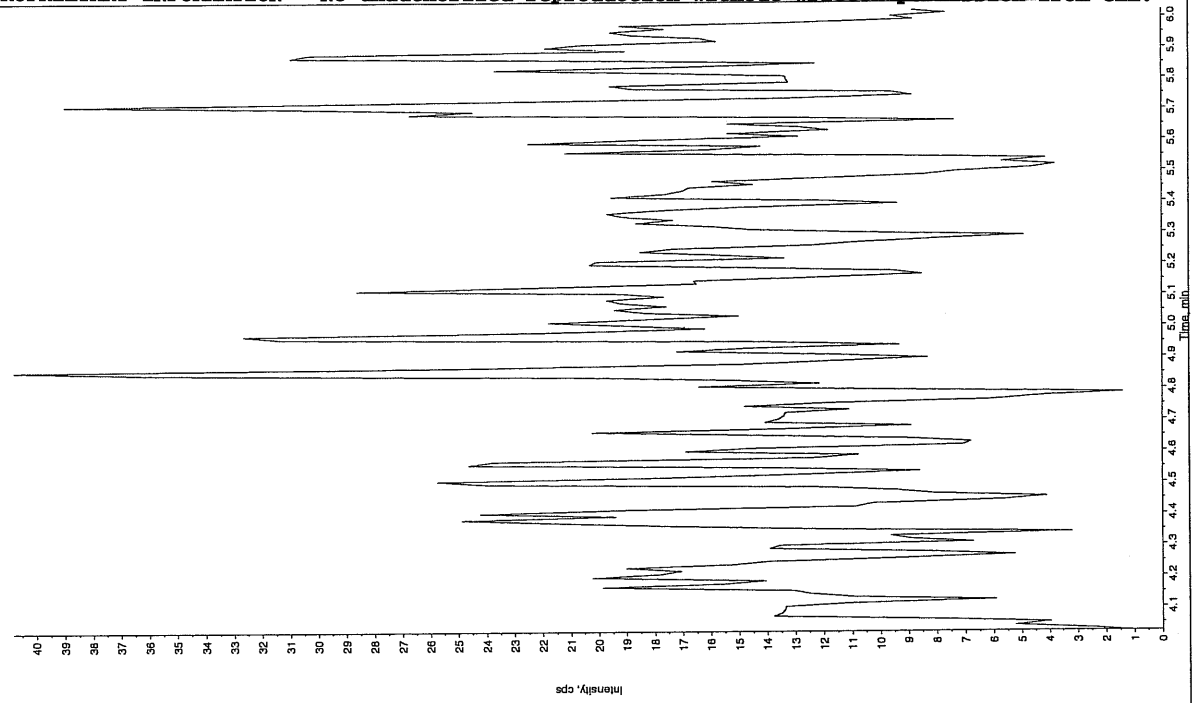
Modified: No



Time 03/09/10

Sample Name: "247346004" Sample ID: "955065[2]LER" File: "EXS03050109.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

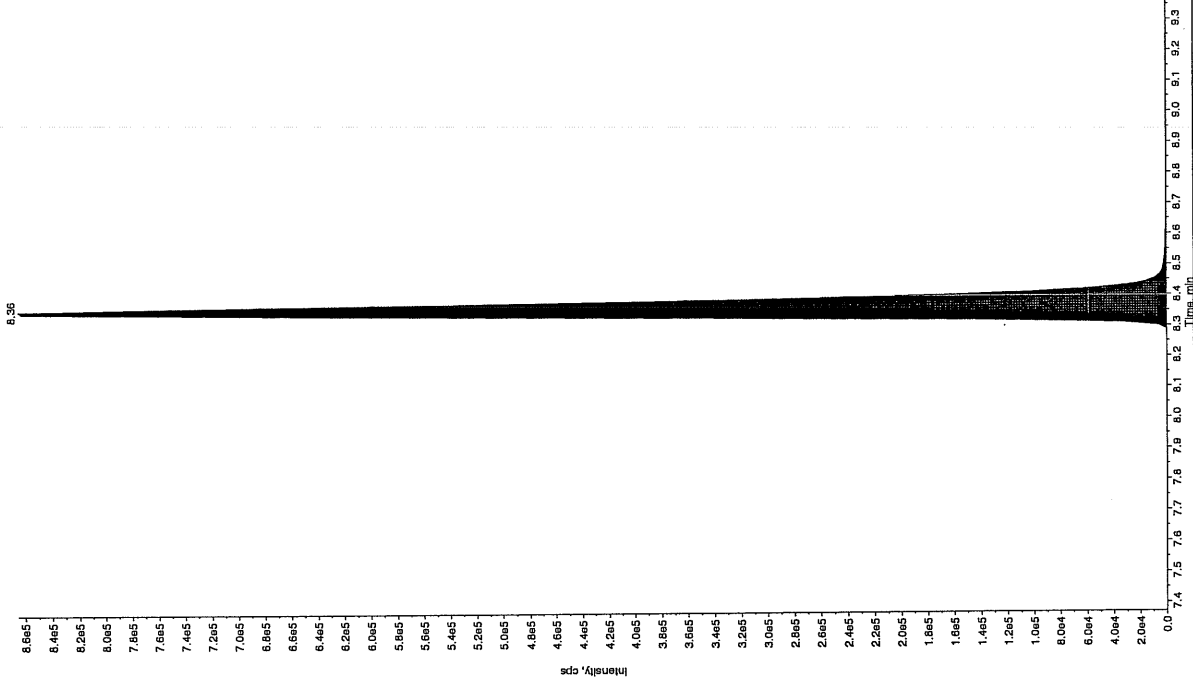
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 9:23:26 PM
 Modified: No



Sample Name: "247346004" Sample ID: "955065[2]LER" File: "EXS03050109.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCX83212S" Annotation: ""

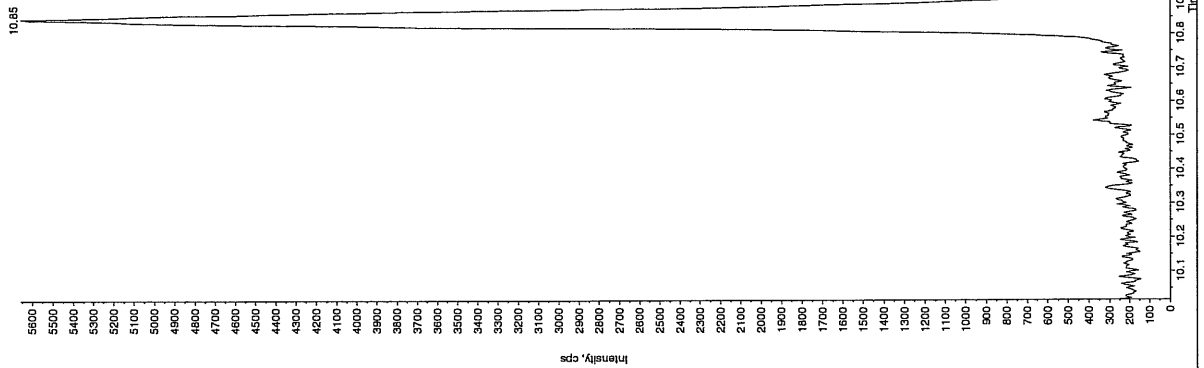
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 242. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 9:23:26 PM
 Modified: No

Int. Type: Valley
 Retention Time: 8.36 min
 Area: 3.03e+006 counts
 Height: 865497437 cps
 Start Time: 8.25 min
 End Time: 8.74 min



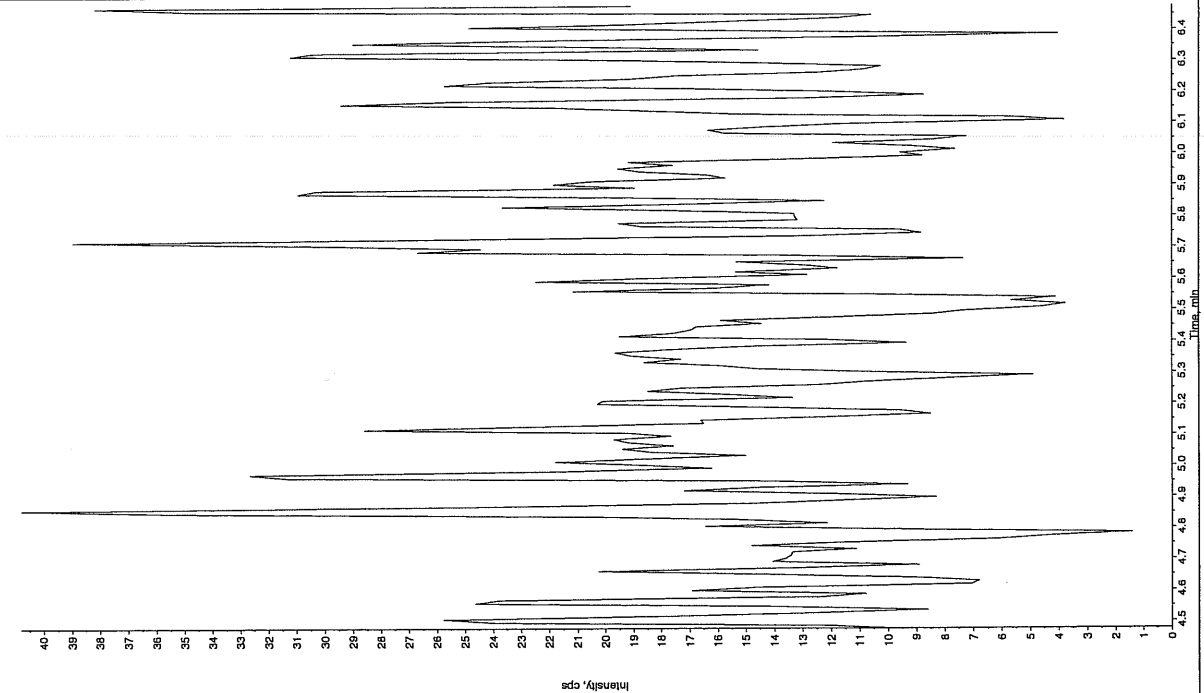
Sample Name: "247346004" Sample ID: "955065121ER" File: "EXS03050109.wif"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 9:23:26 PM
Modified: No



Sample Name: "247346004" Sample ID: "955065121ER" File: "EXS03050109.wif"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 9:23:26 PM
Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8242

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346005

Sample Amount 2

Moisture: 1.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319014a

Date Analyzed: 19-MAR-10 23:17

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319014a

Date: 19-Mar-2010

Time: 23:17:34

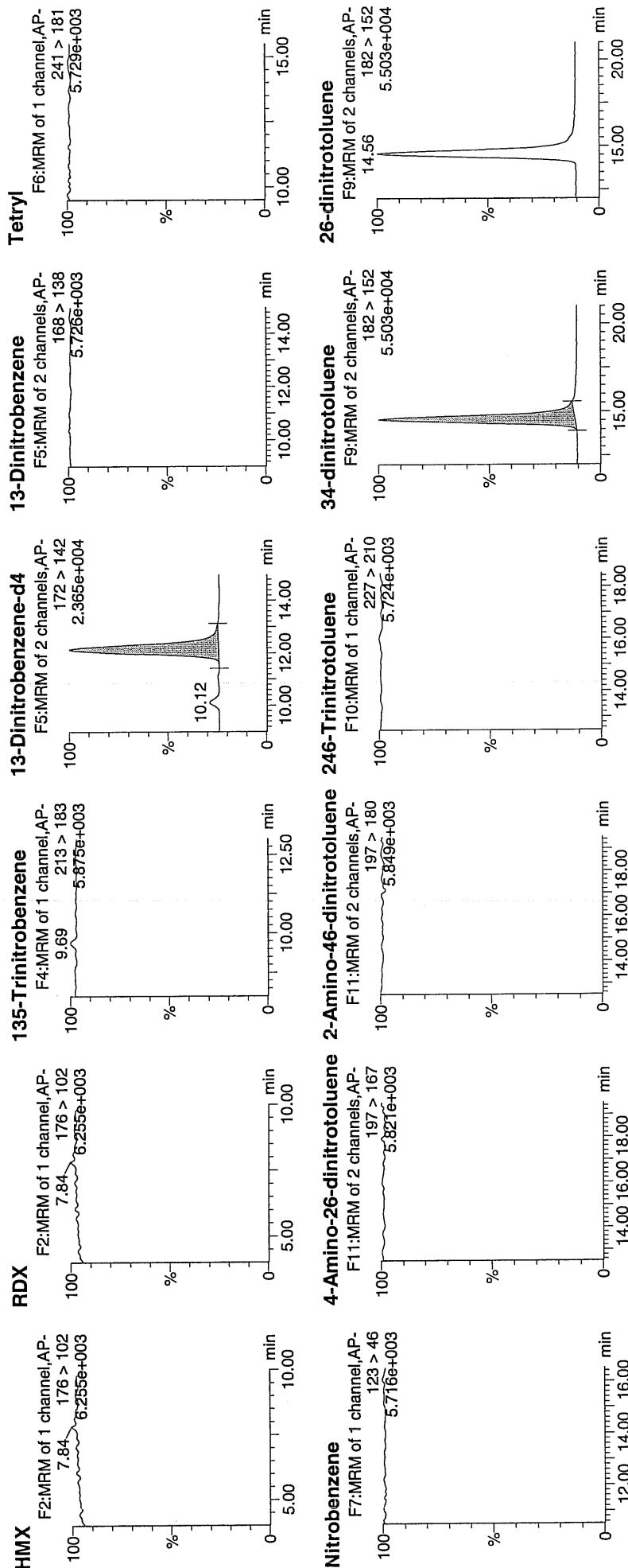
ID: 247346005

Vial: 1:5,B

10.12
3/25/10

121
1955065 / 8022

Page 197 of 649

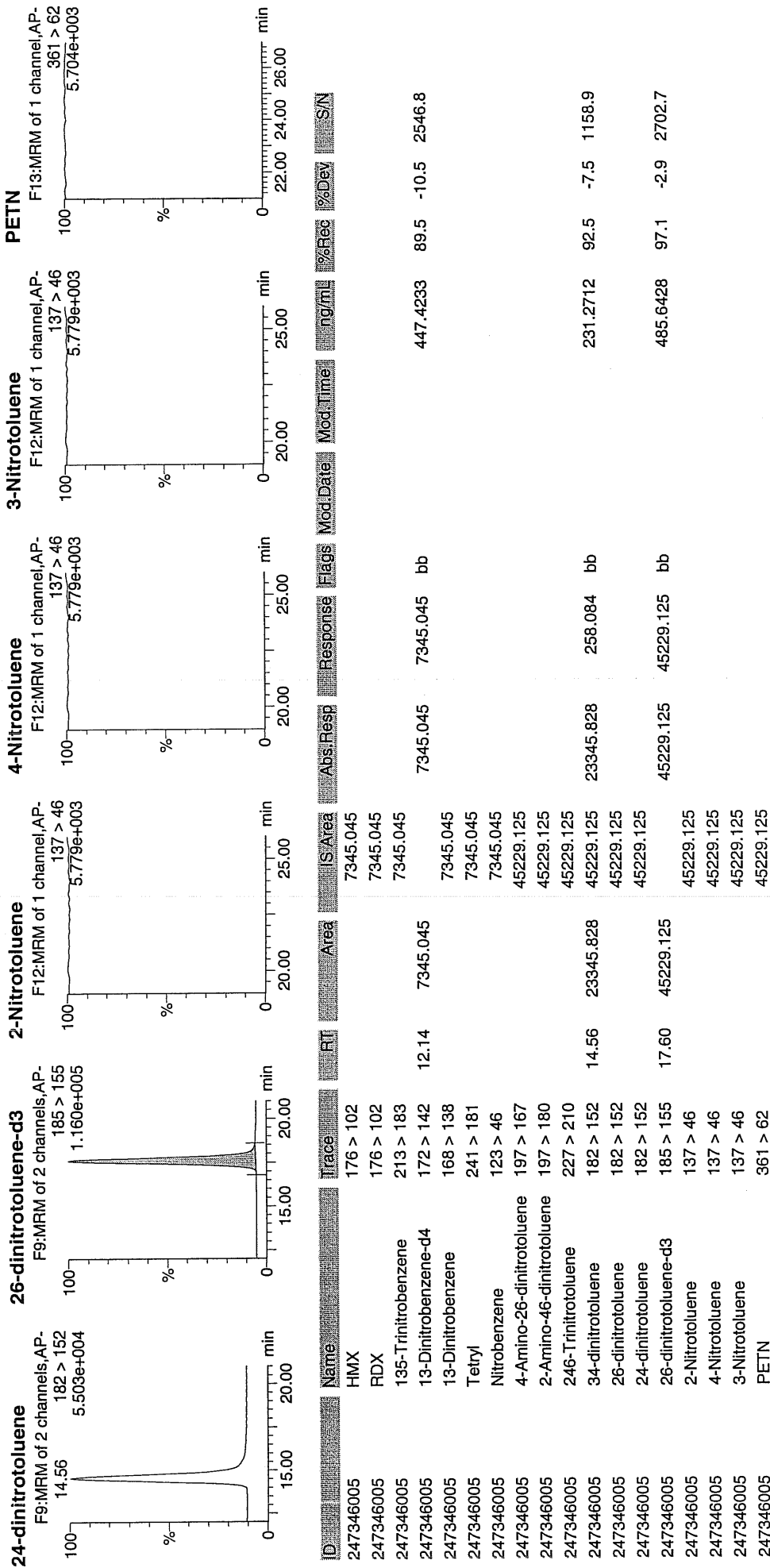


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Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8242

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346005

Sample Amount 2

Moisture: 1.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050110.wiff

Date Analyzed: 06-MAR-10 21:39

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

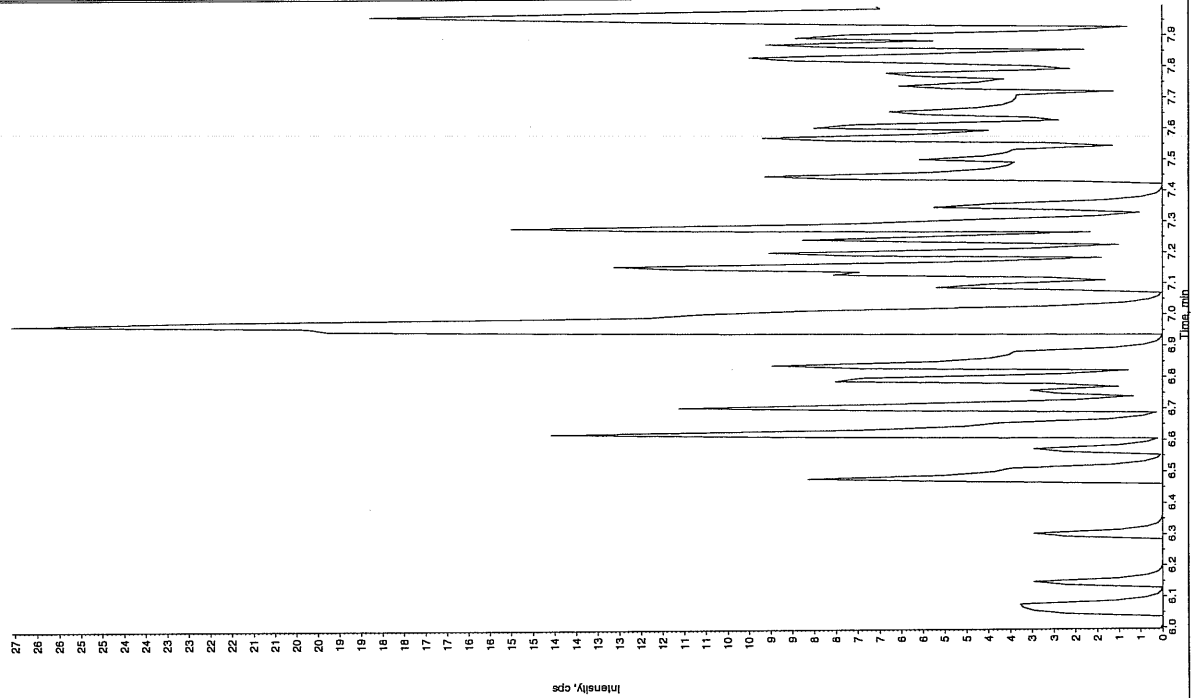
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

San 31010

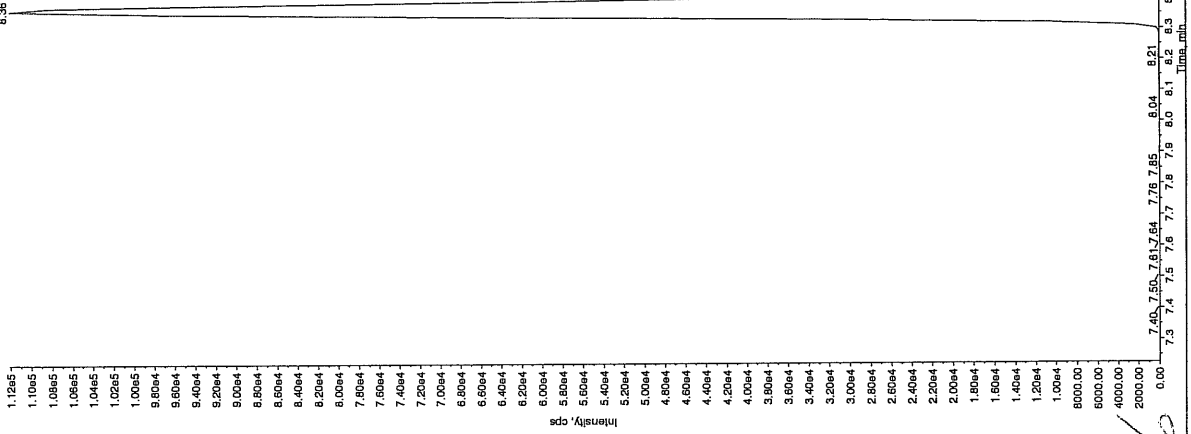
Sample Name: "247346005" Sample ID: "955065121LER" File: "EXS03050110.wif"
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 9:39:08 PM
 Modified: No



Sample Name: "247346005" Sample ID: "955065121LER" File: "EXS03050110.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

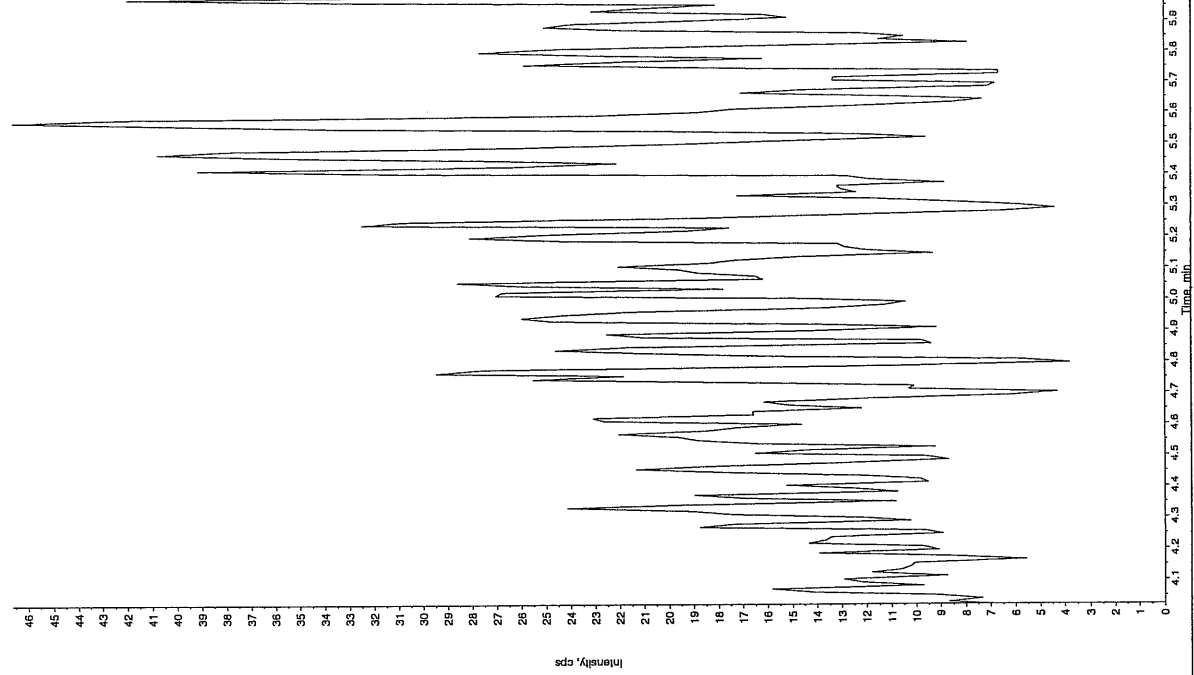
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 9:39:08 PM
 Modified: No



HW 03/09/10

Sample Name: "247346005" Sample ID: "955065121" File: "EXS03050110.wif"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0460.0 amu"
Comment: "LCX83212S" Annotation: ""

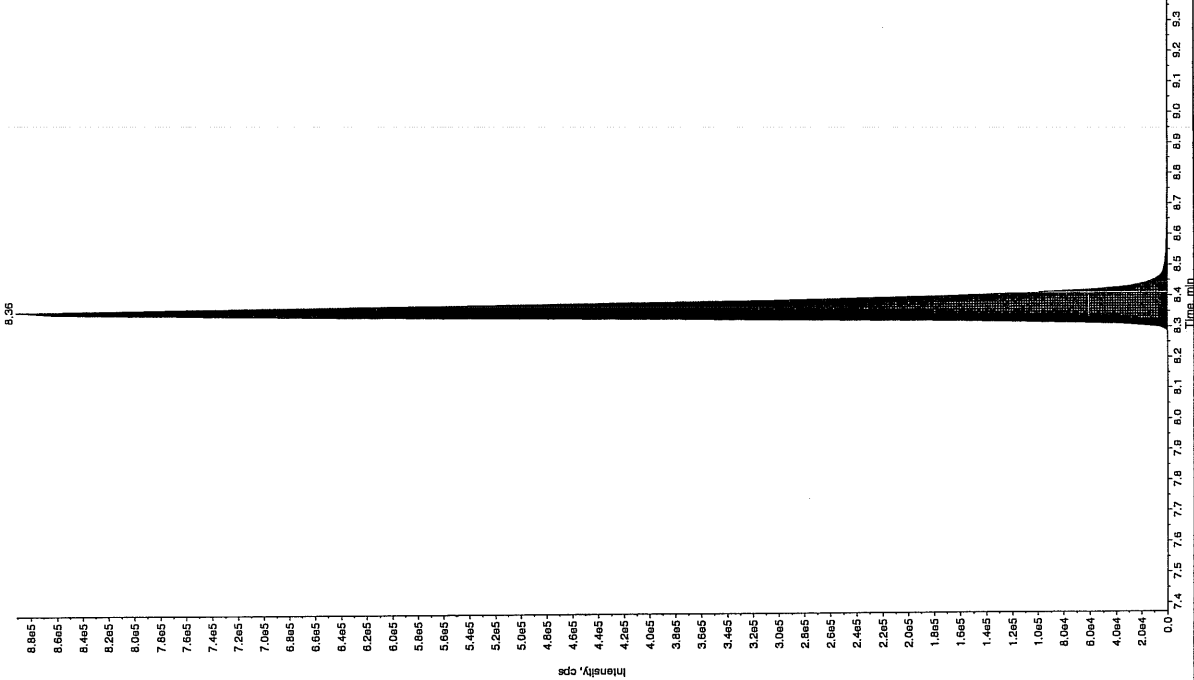
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 9:39:08 PM
Modified: No



Sample Name: "247346005" Sample ID: "955065121" File: "EXS03050110.wif"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
Comment: "LCX83212S" Annotation: ""

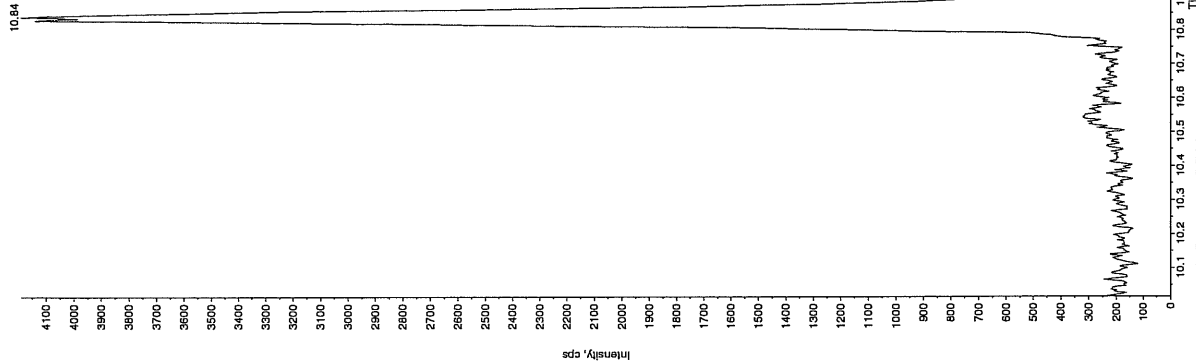
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 247. ng/mL
Acq. Date: 3/6/2010
Acq. Time: 9:39:08 PM
Modified: No

Dec. Algorithm: IntelliQuan - IOA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
Window: 30.0 sec
Selected RT: 8.37 min
Relative RT: No
Int. Type: Valley
Retention Time: 8.36 min
Area: 3.08e+006 counts
Height: 891264.648 cps
Start Time: 8.23 min
End Time: 8.73 min



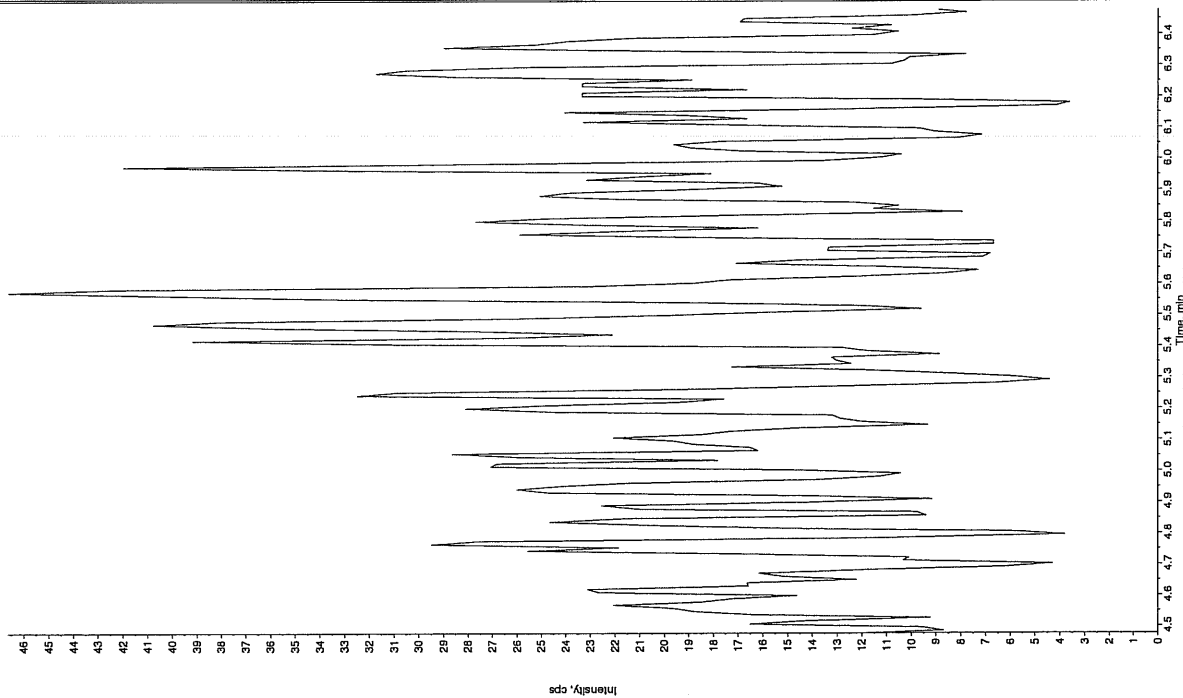
Sample Name: "247346005" Sample ID: "955055[2]LER" File: "EXS03050110.wif"
Peak Name: "tris(p-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 9:39:08 PM
Modified: No



Sample Name: "247346005" Sample ID: "955055[2]LER" File: "EXS03050110.wif"
Peak Name: "24-Diamino-6-hydroxylurea" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 9:39:08 PM
Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8240

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319015a

Date Analyzed: 19-MAR-10 23:47

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument		X	Concentrated Extract Volume		X	Dilution
Value			Sample Amount			Factor

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319015a

Date: 19-Mar-2010

Time: 23:47:04

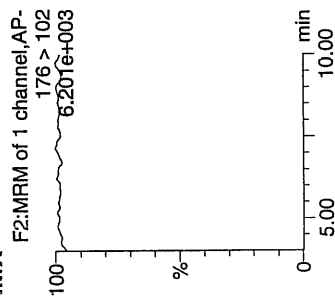
ID: 247346006

Vial: 1:5,C

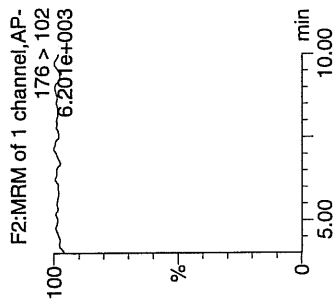
1007
3/20/10

1955065 (8022) 121

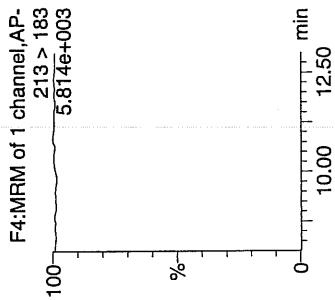
HMX



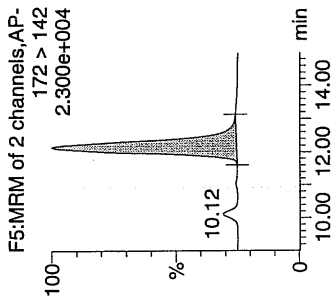
RDX



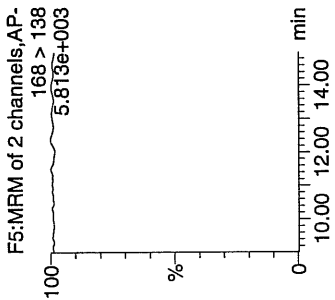
135-Trinitrobenzene



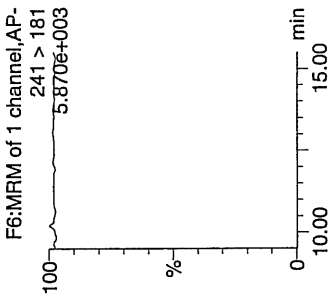
13-Dinitrobenzene-d4



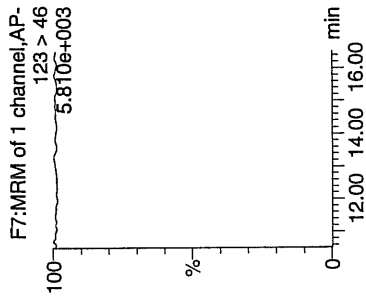
13-Dinitrobenzene



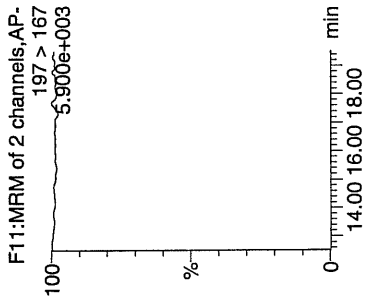
Tetryl



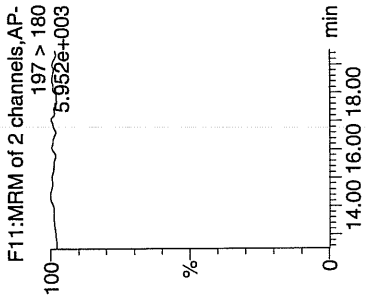
Nitrobenzene



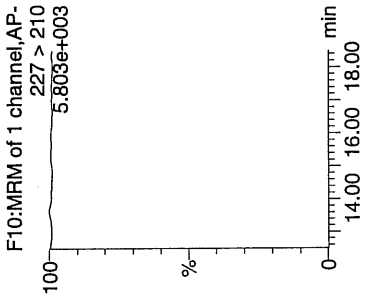
4-Amino-26-dinitrotoluene



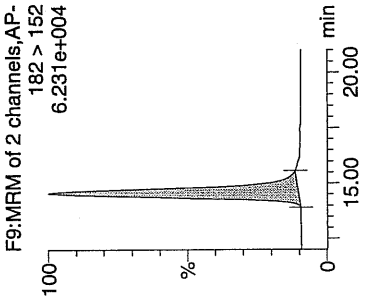
2-Amino-46-dinitrotoluene



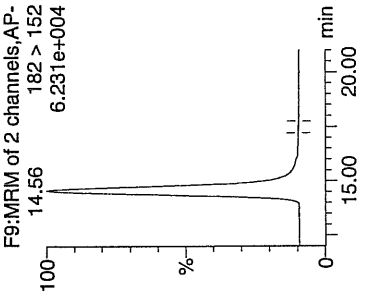
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

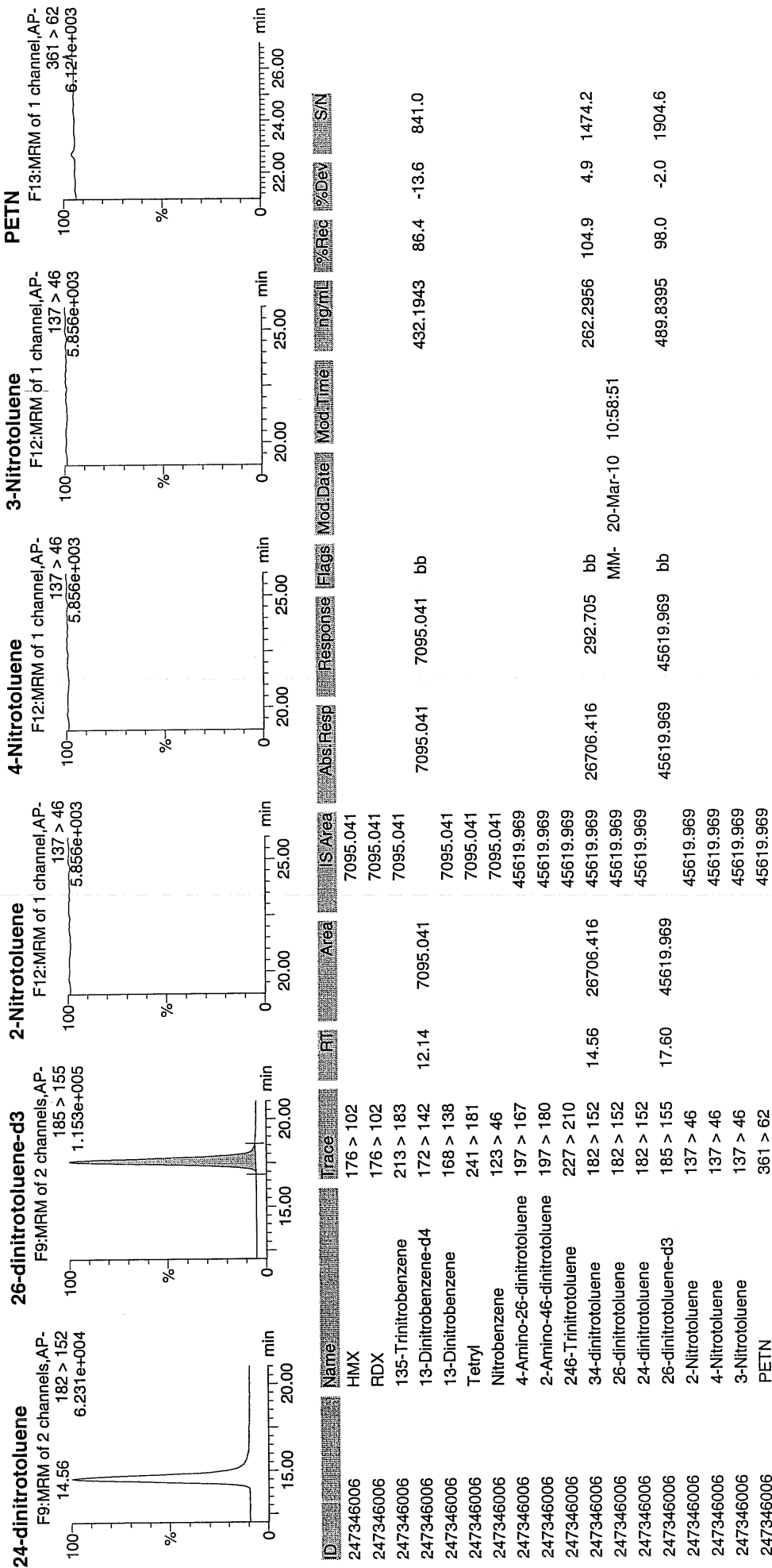


3/20/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8240

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050111.wiff

Date Analyzed: 06-MAR-10 21:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

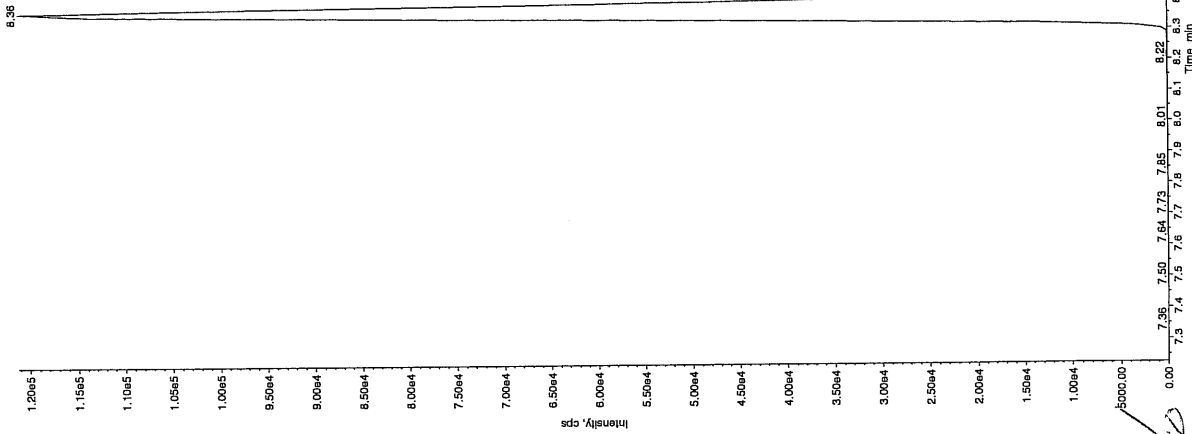
San 3/10/10

Sample Name: "247346005" Sample ID: "95506521LER" File: "EXS03050111.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 9:54:49 PM
 Modified: No

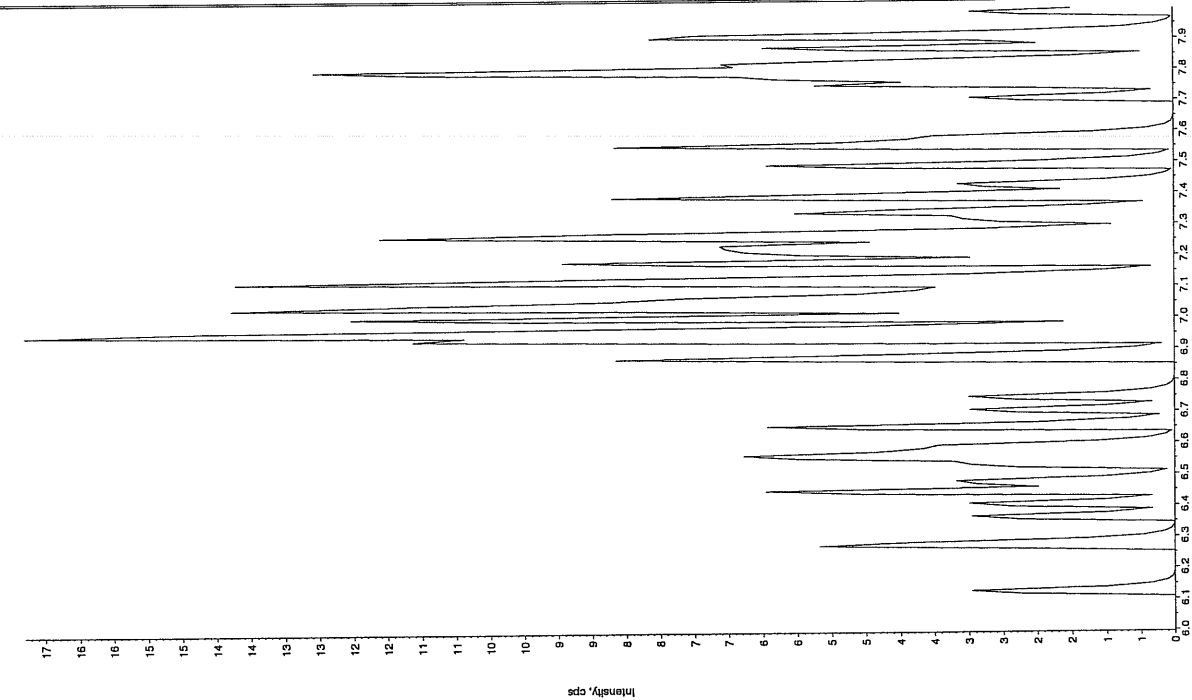


Sample Name: "247346005" Sample ID: "95506521LER" File: "EXS03050111.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX83212S" Annotation: ""

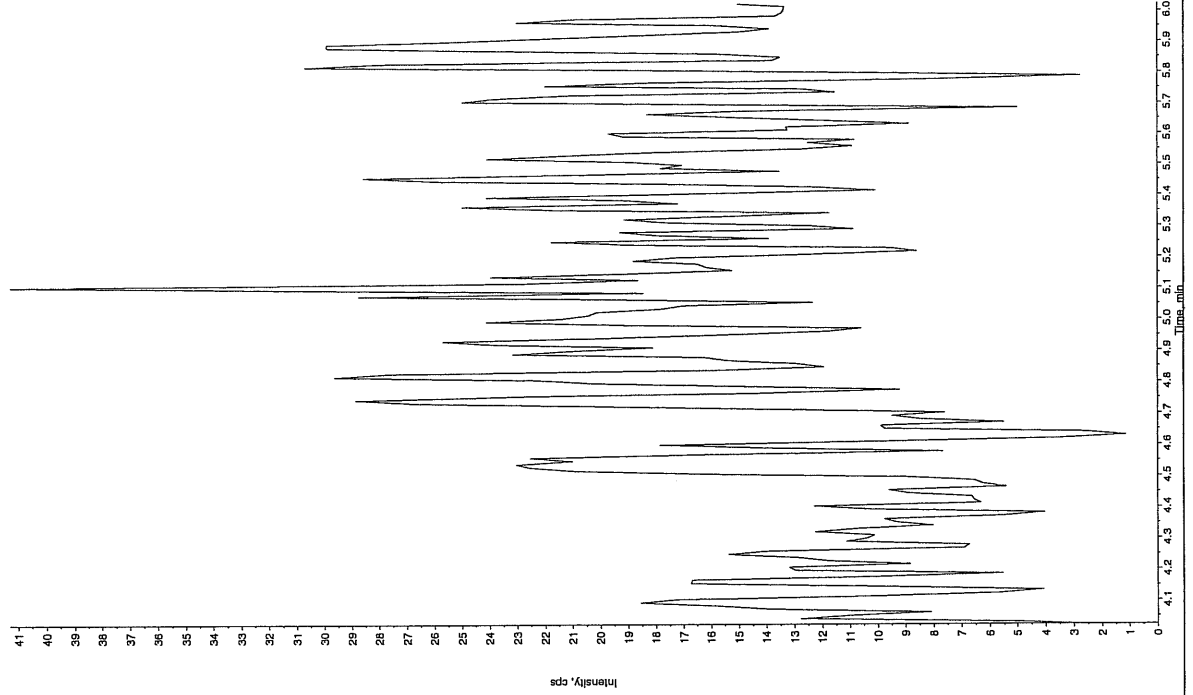
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 9:54:49 PM
 Modified: No



San 03/04/10

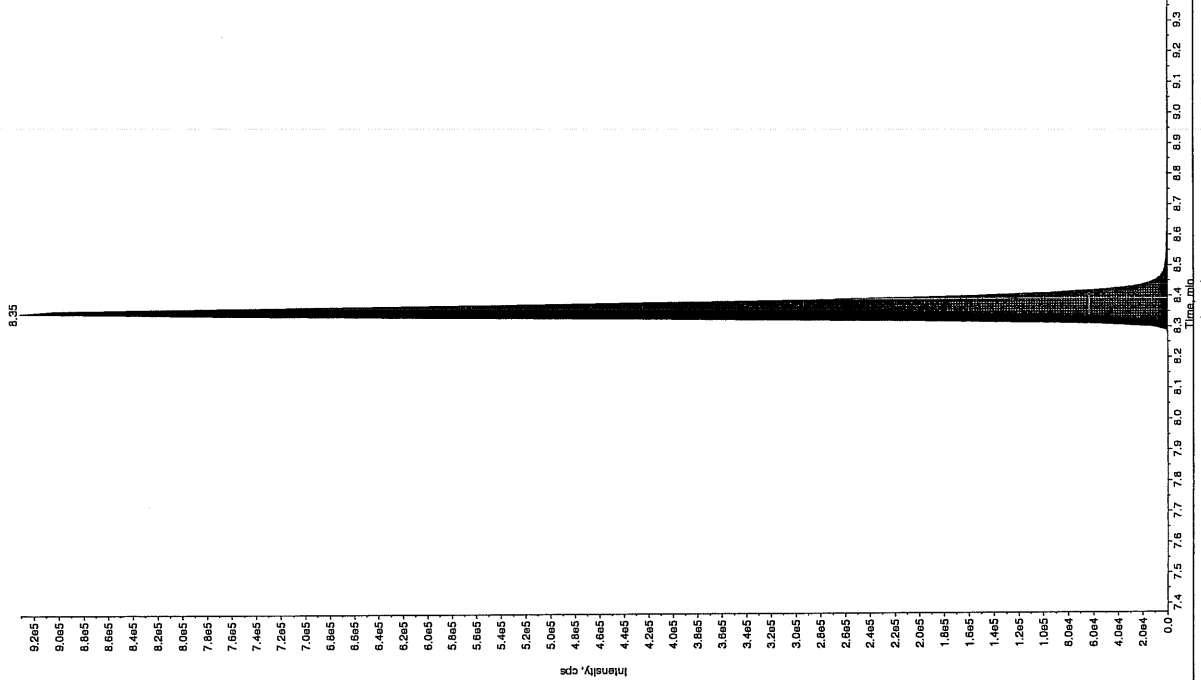
Sample Name: "247346006" Sample ID: "955065121" File: "EXS03050111.wif"
Peak Name: "26-Diamino-4-nitrotoleune" Mass(es): "166.0463.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 9:54:49 PM
Modified: No



Sample Name: "247346006" Sample ID: "955065121" File: "EXS03050111.wif"
Peak Name: "34-Dinitrotoleune" Mass(es): "182.1151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 259. ng/mL
Acq. Date: 3/6/2010
Acq. Time: 9:54:49 PM
Modified: No
Calc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
Scan Window: 30.0 sec
Selected RT: 8.37 min
Use Relative RT: No



Int. Type: Valley
Retention Time: 8.35 min
Area: 3.23e+006 counts
Height: 53114212 cps
Start Time: 8.25 min
End Time: 8.71 min

Sample Name: "247346006" Sample ID: "955065121ER" File: "EXS03050111.wif"

Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

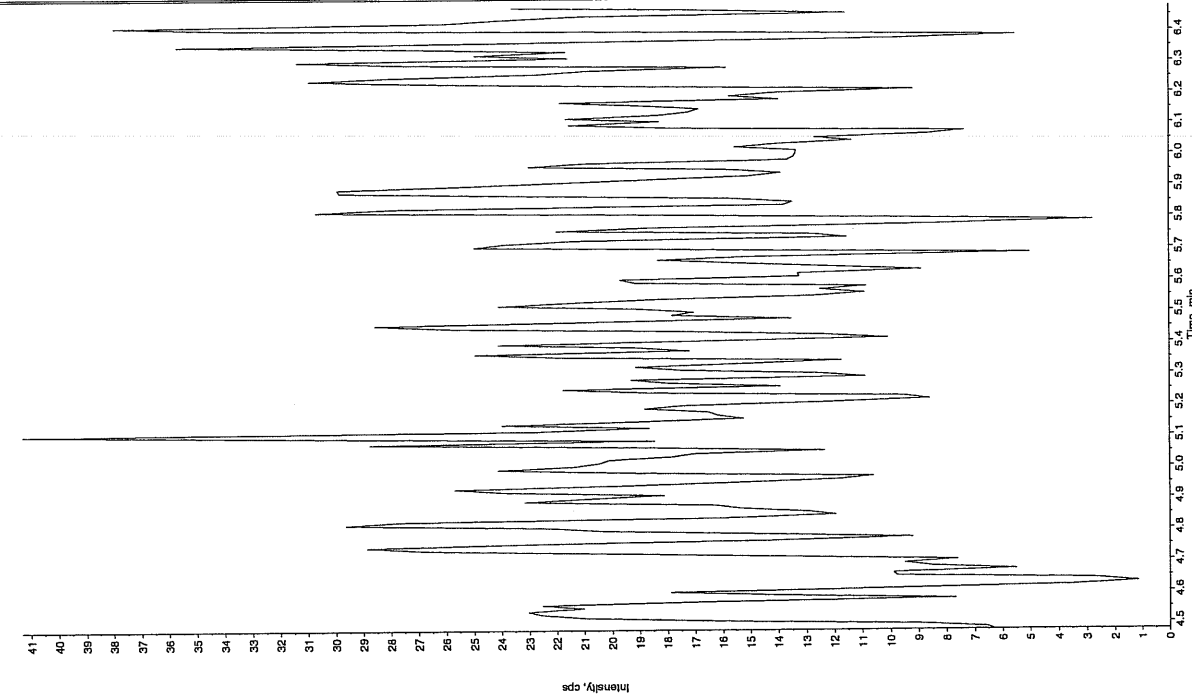
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 9:54:49 PM

Modified: No



Sample Name: "247346006" Sample ID: "955065121ER" File: "EXS03050111.wif"

Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 9:54:49 PM

Modified: No

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8241

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319016a

Date Analyzed: 20-MAR-10 00:16

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319016a

Date: 20-Mar-2010

Time: 00:16:34

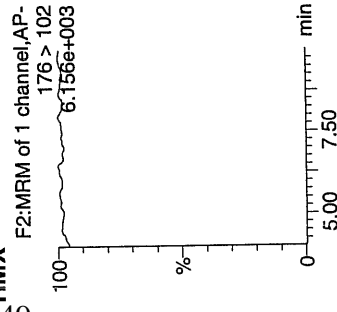
ID: 247346007

Vial: 1:5,D

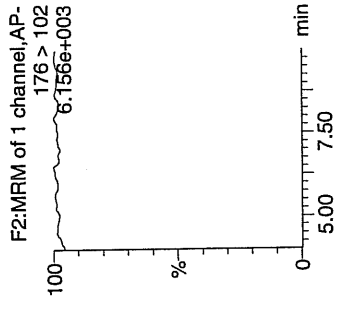
Not
3/25/10

Handwritten: 955065 / 8022 / 21

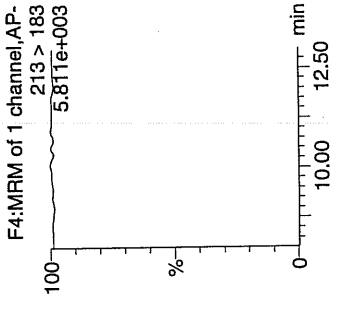
HMX



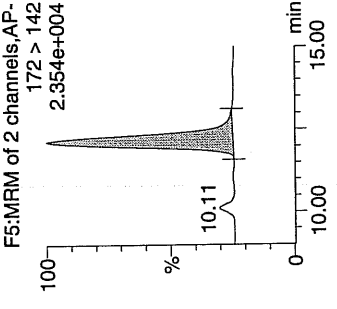
RDX



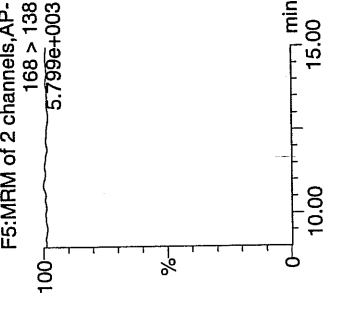
135-Trinitrobenzene



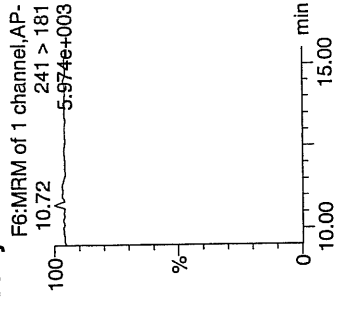
13-Dinitrobenzene-d4



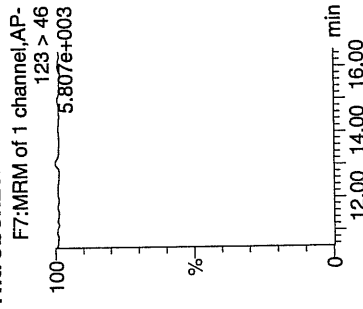
13-Dinitrobenzene



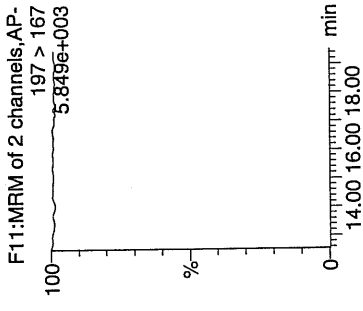
Tetryl



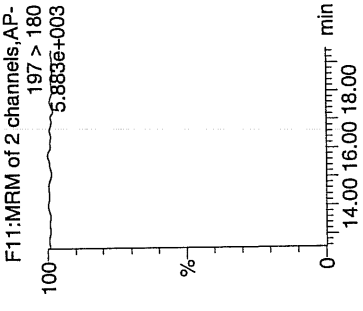
Nitrobenzene



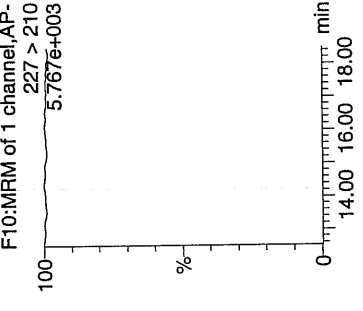
4-Amino-26-dinitrotoluene



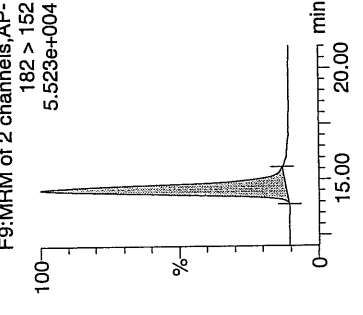
2-Amino-46-dinitrotoluene



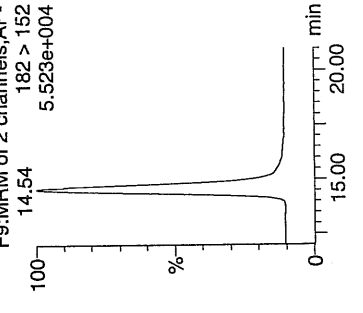
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

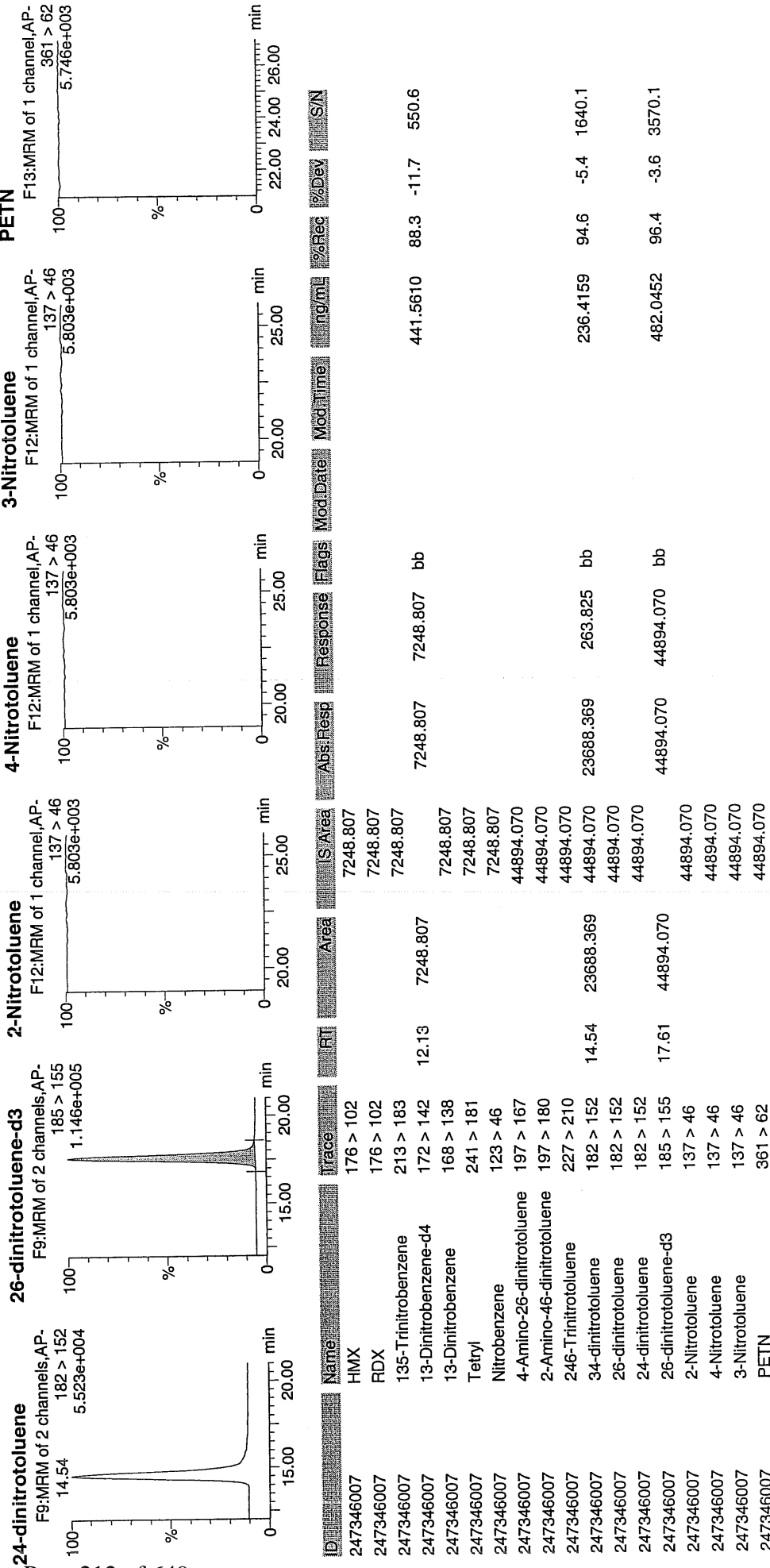


Handwritten: 03/25/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8241

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346007

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050112.wiff

Date Analyzed: 06-MAR-10 22:10

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amoun</u>		Factor

San 3/9/10

Sample Name: "247346007" Sample ID: "955065121ER" File: "EXS03050112.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

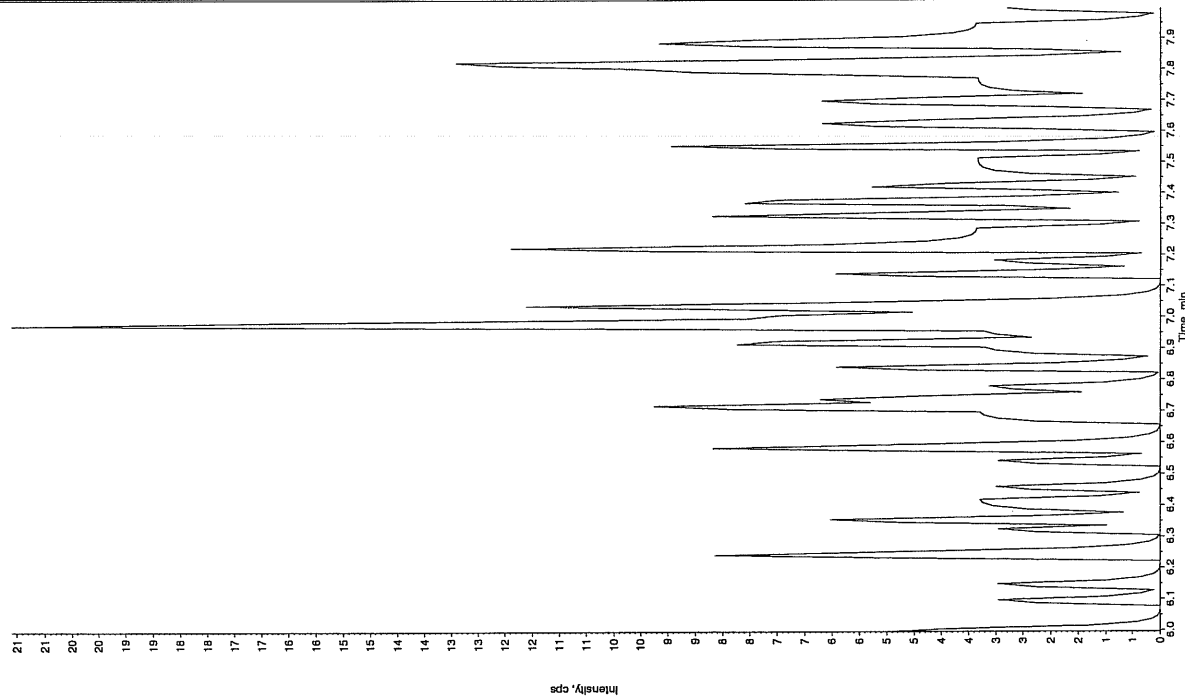
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 10:10:32 PM

Modified: No



Sample Name: "247346007" Sample ID: "955065121ER" File: "EXS03050112.wif"

Peak Name: "1ATB" Mass(es): "257.2/204.9 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

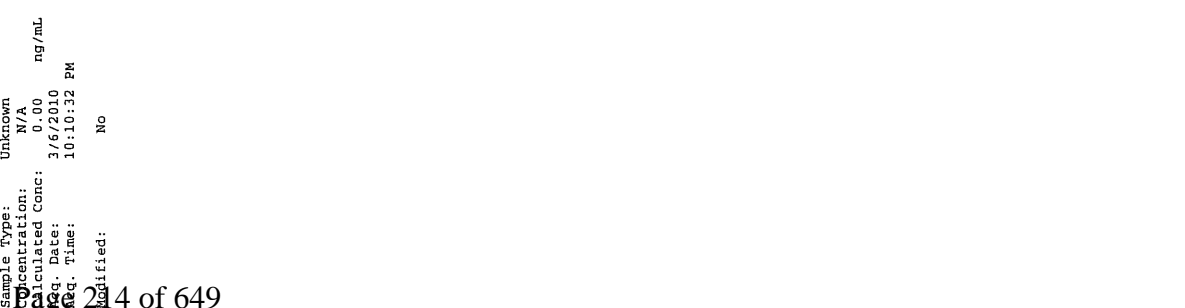
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/6/2010

Acq. Time: 10:10:32 PM

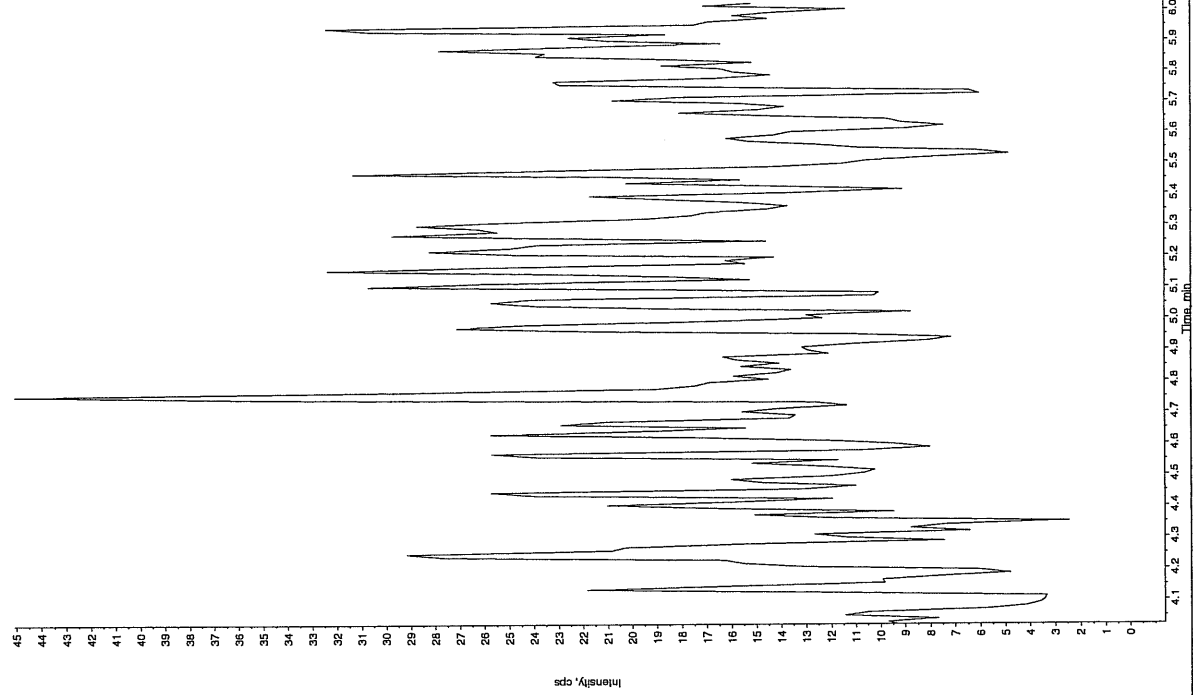
Modified: No



San 03/09/10

Sample Name: "247346007" Sample ID: "955065121" File: "EXS03050112.wif"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0465.0 amu"
Comment: "LCX83212S" Annotation: ""

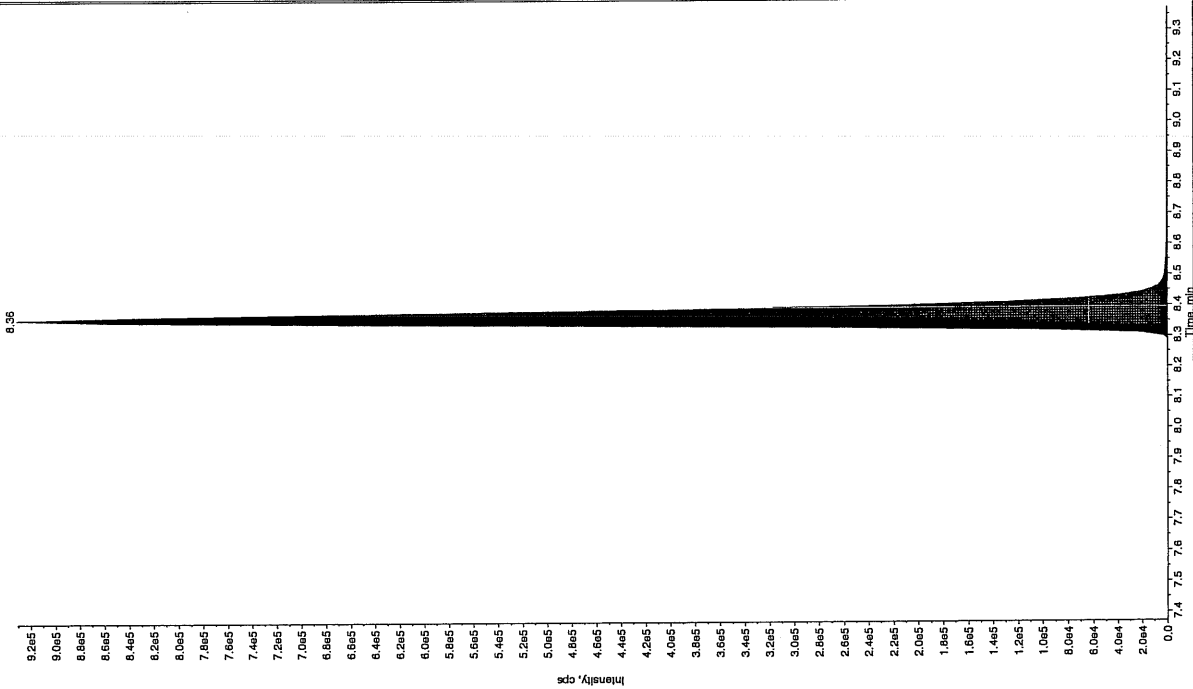
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 10:10:32 PM
Modified: No



Sample Name: "247346007" Sample ID: "955065121" File: "EXS03050112.wif"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1715.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 255. ng/mL
Acq. Date: 3/6/2010
Acq. Time: 10:10:32 PM
Modified: No

Typic. Algorithm: IntelliQuan - IOA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
Integration Window: 30.0 sec
Selected RT: 8.37 min
Relative RT: No
Int. Type: Valley
Retention Time: 8.36 min
Area: 3.18e+006 counts
Height: 931110.168 cps
Start Time: 8.28 min
End Time: 8.71 min



Sample Name: "247346007" Sample ID: "95505521LER" File: "EXS03050112.wif"

Peak Name: "tris(O-cresyl) phosphate" Mass(es): "365.191.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

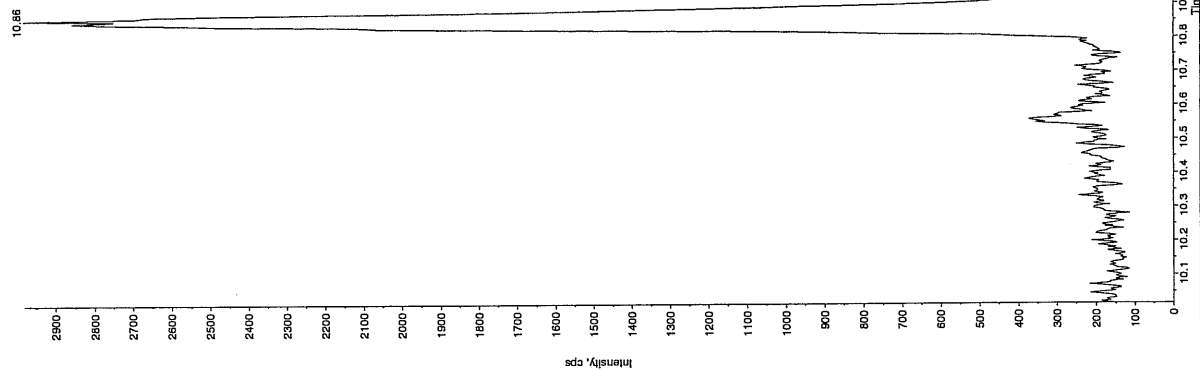
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/6/2010

Acq. Time: 10:10:32 PM

Modified: No



Sample Name: "247346007" Sample ID: "95505521LER" File: "EXS03050112.wif"

Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

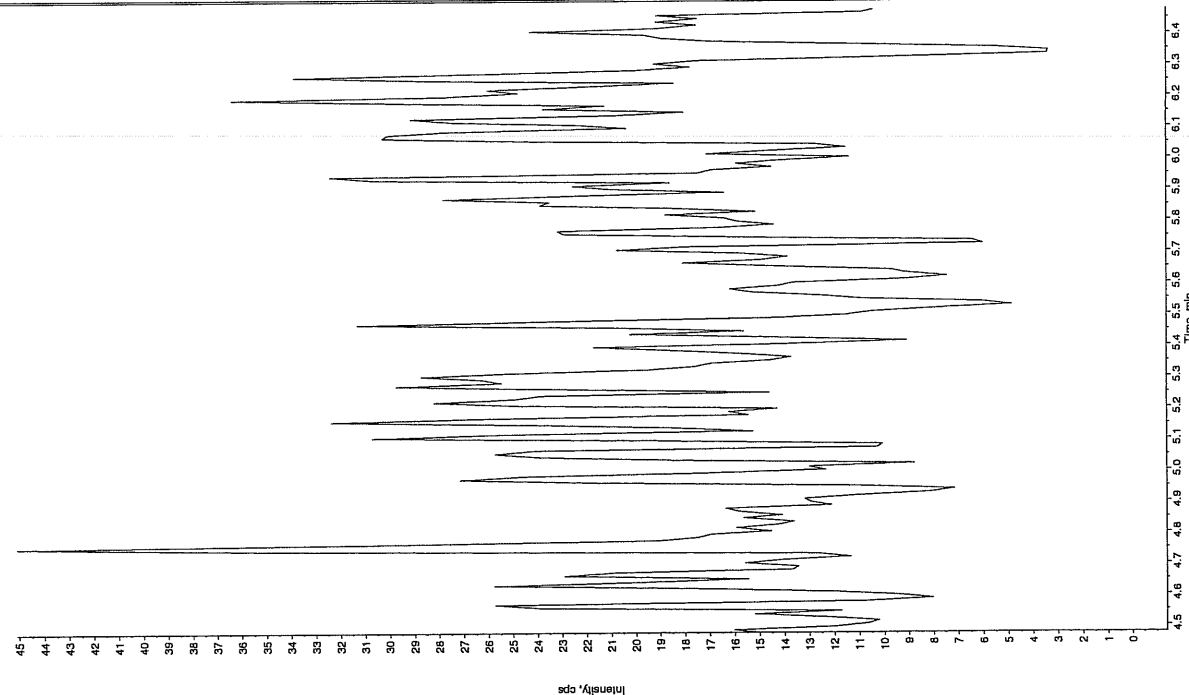
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/6/2010

Acq. Time: 10:10:32 PM

Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8267

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346008

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319017a

Date Analyzed: 20-MAR-10 00:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319017a

Date: 20-Mar-2010

Time: 00:46:03

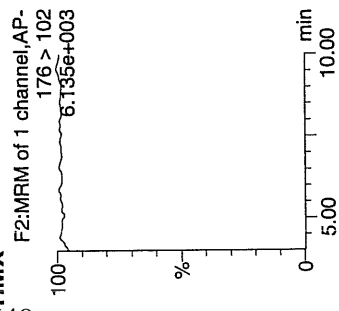
ID: 247346008

Vial: 1:5,E

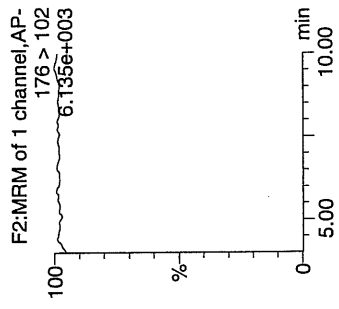
ACT
3/25/10

Lawrence / 8000121

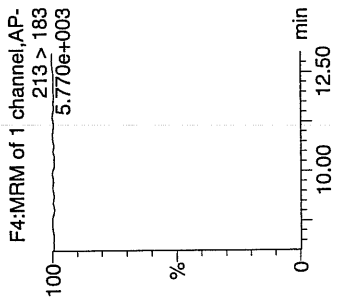
HMZ



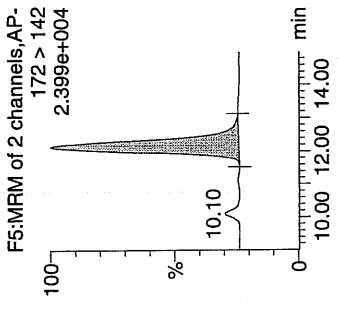
RDX



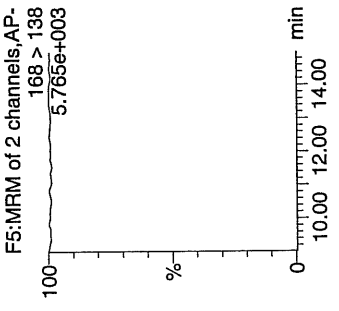
135-Trinitrobenzene



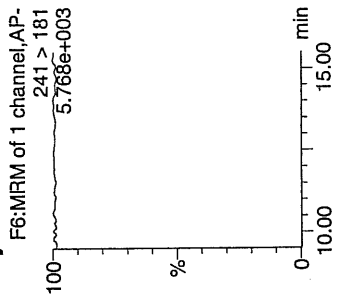
13-Dinitrobenzene-d4



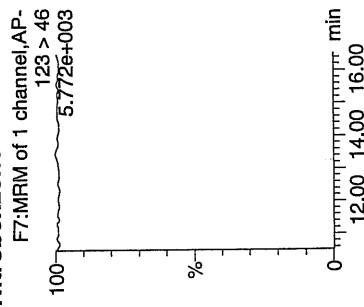
13-Dinitrobenzene



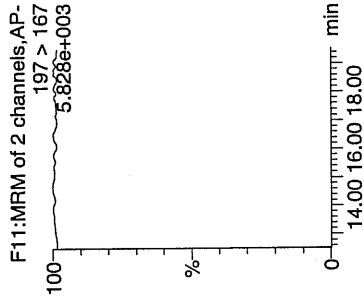
Tetryl



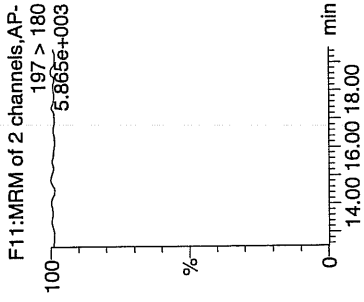
Nitrobenzene



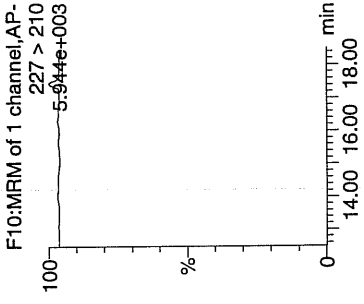
4-Amino-26-dinitrotoluene



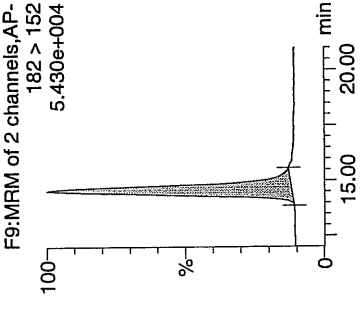
2-Amino-46-dinitrotoluene



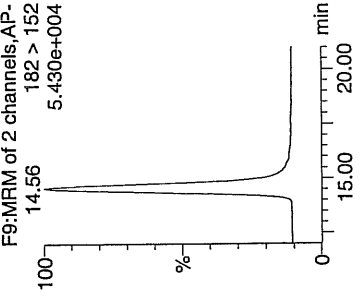
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

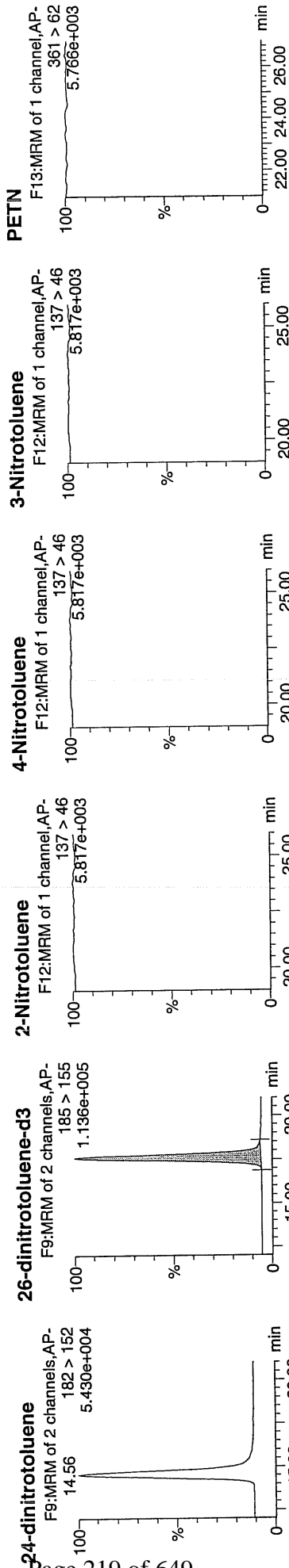


Handwritten signature

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod. Date	Mod. Time	ng/mL	%Rec	%Dev	S/N
247346008	HMX	176 > 102			7518.327									
247346008	RDX	176 > 102			7518.327									
247346008	135-Trinitrobenzene	213 > 183			7518.327									
247346008	13-Dinitrobenzene-d4	172 > 142	12.14	7518.327		7518.327	7518.327	bb			457.9788	91.6	-8.4	310.5
247346008	13-Dinitrobenzene	168 > 138			7518.327									
247346008	Tetryl	241 > 181			7518.327									
247346008	Nitrobenzene	123 > 46			7518.327									
247346008	4-Amino-26-dinitrotoluene	197 > 167			44100.801									
247346008	2-Amino-46-dinitrotoluene	197 > 180			44100.801									
247346008	246-Trinitrotoluene	227 > 210			44100.801									
247346008	34-dinitrotoluene	182 > 152	14.56	22940.898		22940.898	260.096	bb			233.0743	93.2	-6.8	1329.4
247346008	26-dinitrotoluene	182 > 152			44100.801									
247346008	24-dinitrotoluene	182 > 152			44100.801									
247346008	26-dinitrotoluene-d3	185 > 155	17.60	44100.801		44100.801	44100.801	bb			473.5276	94.7	-5.3	3811.2
247346008	2-Nitrotoluene	137 > 46			44100.801									
247346008	4-Nitrotoluene	137 > 46			44100.801									
247346008	3-Nitrotoluene	137 > 46			44100.801									
247346008	PETN	361 > 62			44100.801									

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8267

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 247346008

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050113.wiff

Date Analyzed: 06-MAR-10 22:26

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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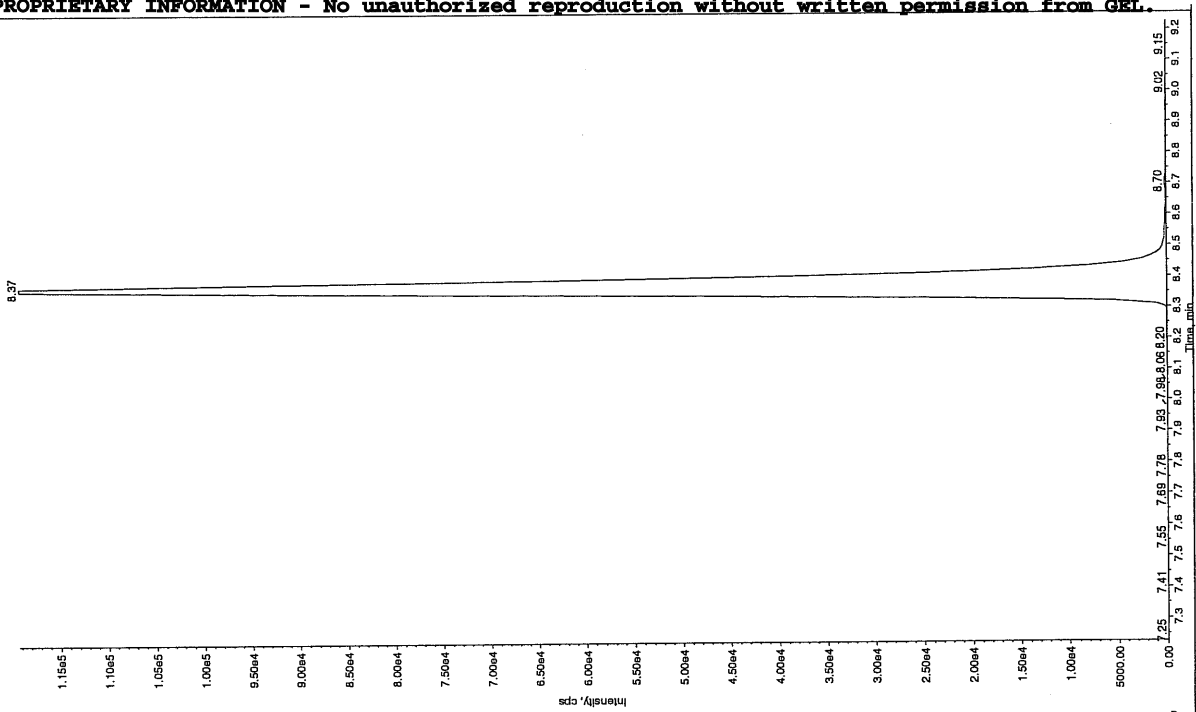
Jan 31/10

Sample Name: "247346008" Sample ID: "95506521LER" File: "EXS03050113.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 10:26:14 PM
 Modified: No

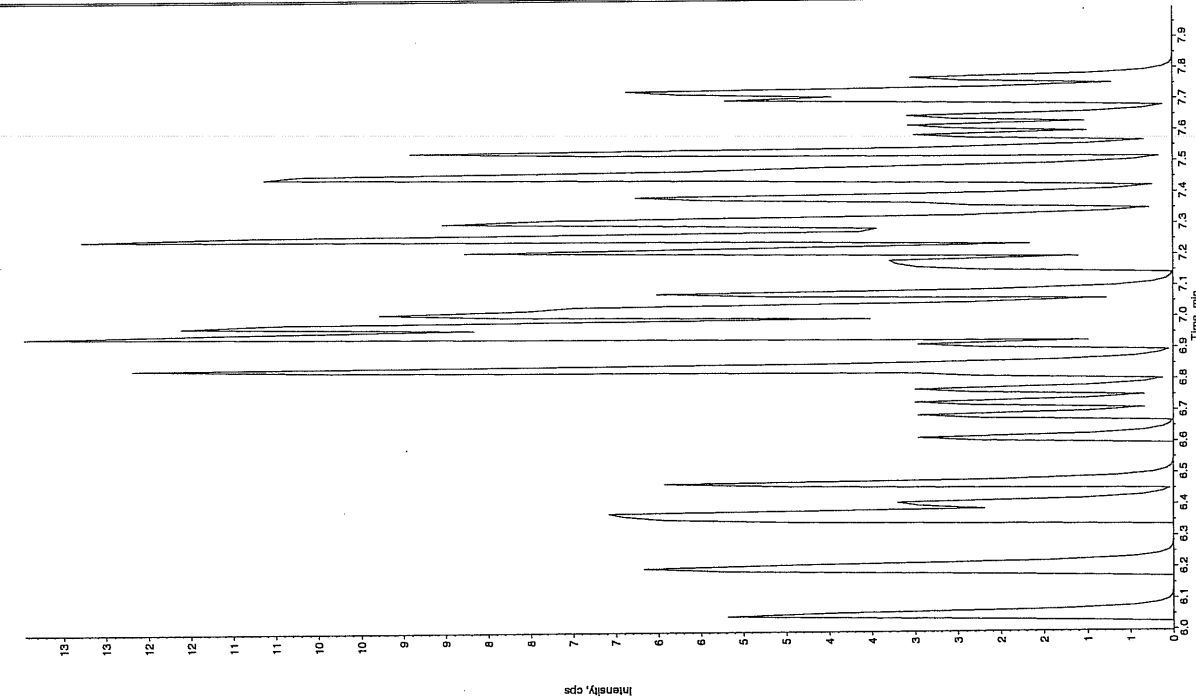


Sample Name: "247346008" Sample ID: "95506521LER" File: "EXS03050113.wif"

Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

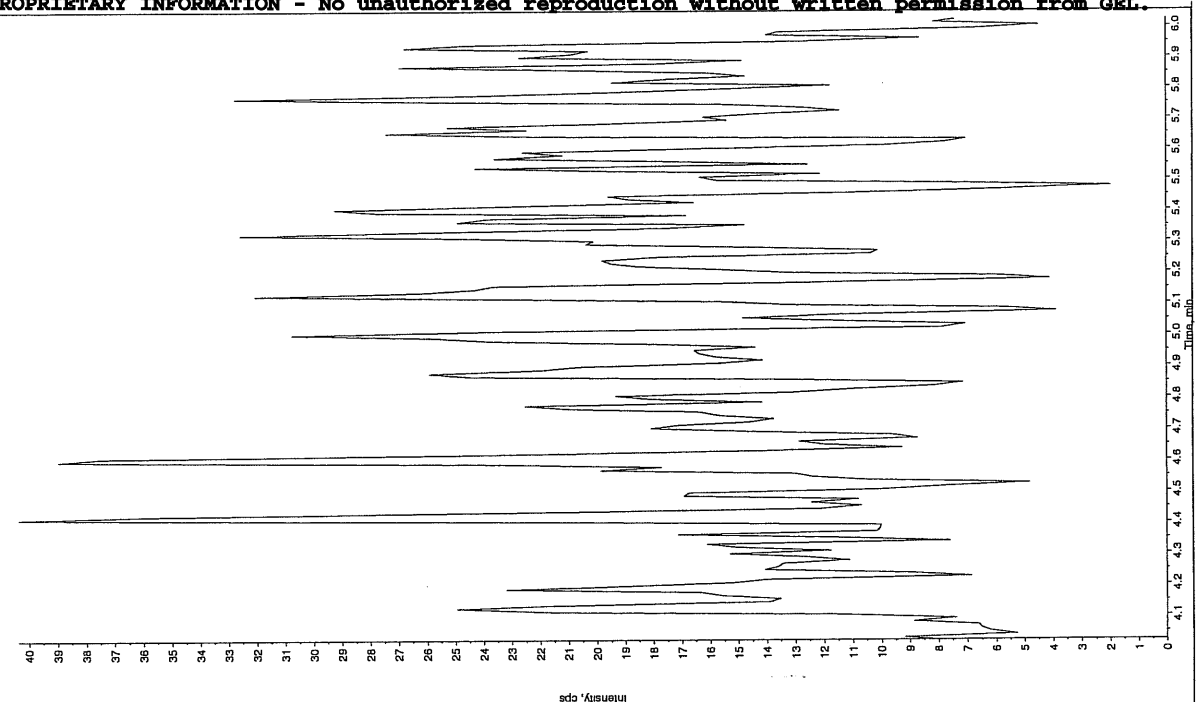
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 10:26:14 PM
 Modified: No



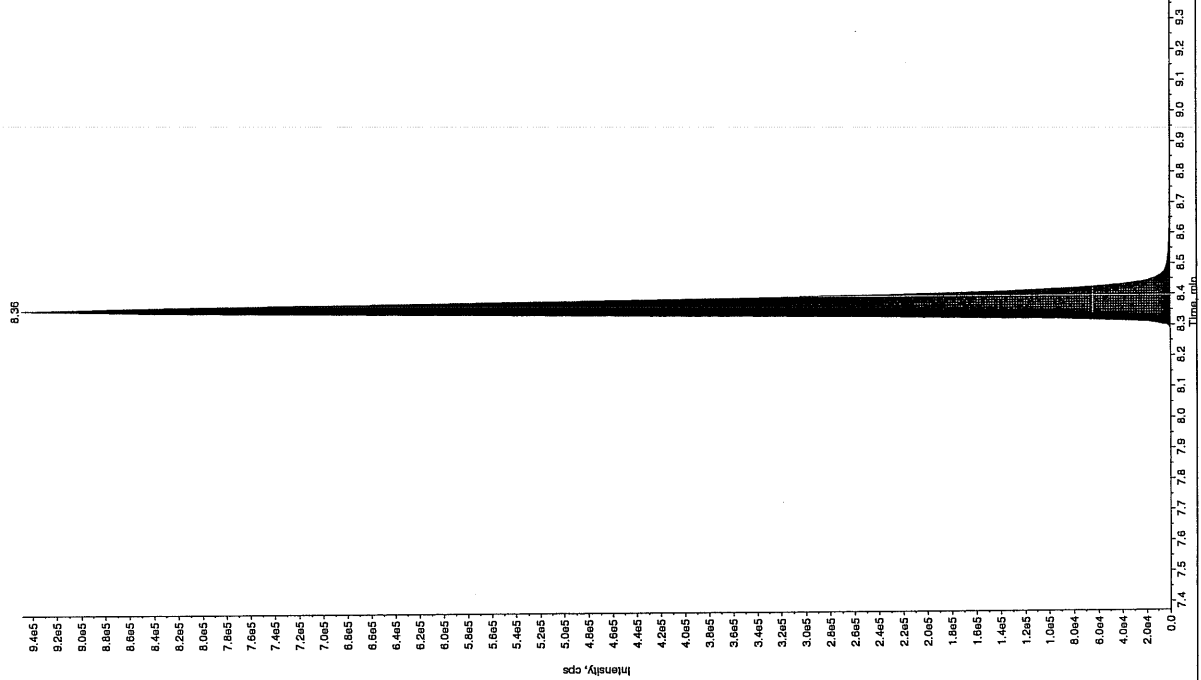
Sample Name: "247346008" Sample ID: "95506521ER" File: "EXS03050113.wif"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "165.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/6/2010
Acq. Time: 10:26:14 PM
Modified: No



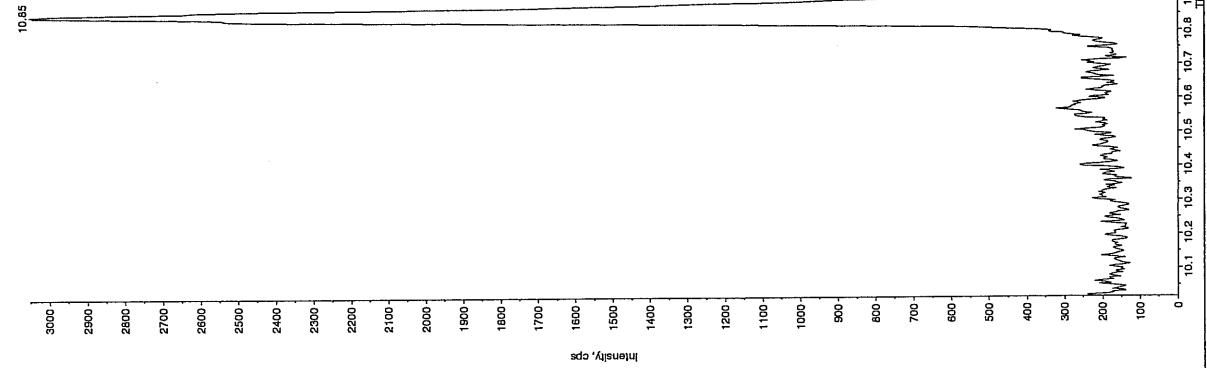
Sample Name: "247346008" Sample ID: "95506521ER" File: "EXS03050113.wif"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 254. ng/mL
Acq. Date: 3/6/2010
Acq. Time: 10:26:14 PM
Modified: No
Proc. Algorithm: IntelliQuan - IOA
On. Peak Height: 1460.00 cps
Off. Peak Width: 0.00 sec
Smoothing Width: 3 points
Integration Window: 30.0 sec
Selected RT: 8.37 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.36 min
Area: 3.18e+006 counts
Height: 948545.044 cps
Start Time: 8.23 min
End Time: 8.73 min



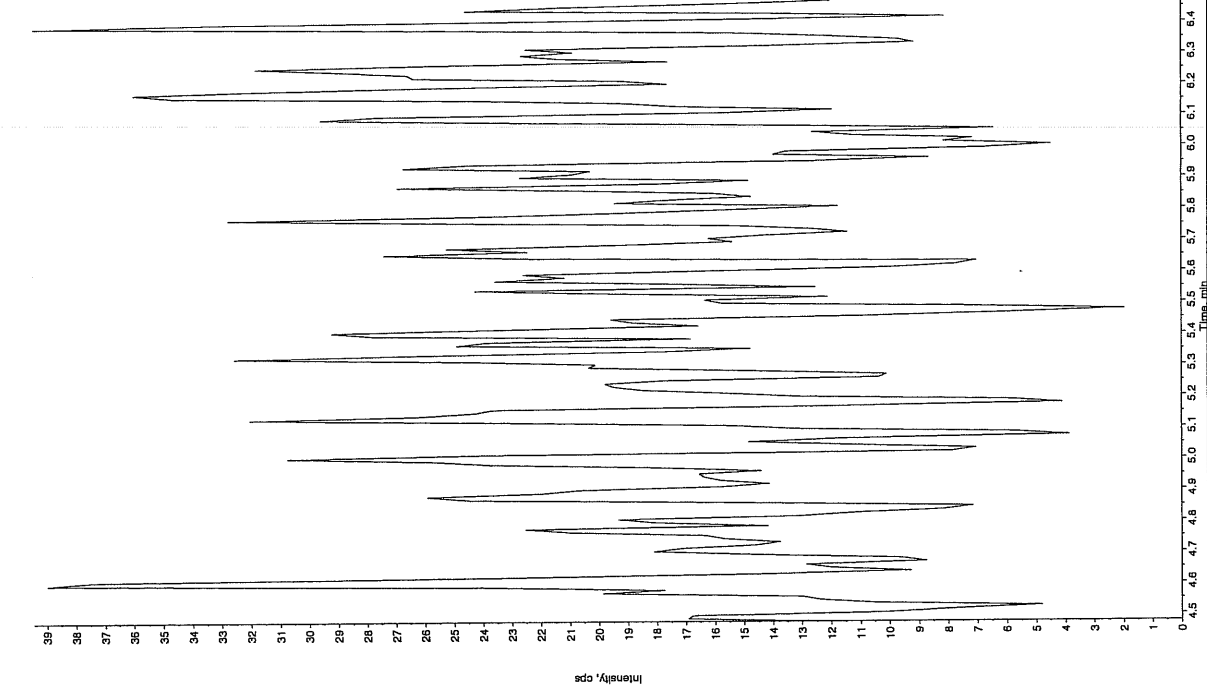
Sample Name: "247346008" Sample ID: "95506521LER" File: "EXS03050113.wif"
 Peak Name: "tris(2-cresyl) phosphate" Mass(es): "353.1/91.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 10:26:14 PM
 Modified: No



Sample Name: "247346008" Sample ID: "95506521LER" File: "EXS03050113.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 10:26:14 PM
 Modified: No



STANDARDS DATA

**SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels**

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	12.5	25	100	200	400	500		300
Primary Analytes								
HMX	25	50	200	400	800	1000	na	600
RDX	25	50	200	400	800	1000	na	600
DNX	25	50	200	400	800	1000	na	600
MXN	25	50	200	400	800	1000	na	600
TNX	25	50	200	400	800	1000	na	600
1,3,5-Trinitrobenzene	25	50	200	400	800	1000	na	600
1,3-Dinitrobenzene	25	50	200	400	800	1000	na	600
Nitrobenzene	25	50	200	400	800	1000	na	600
Tetryl	25	50	200	400	800	1000	na	600
Nitroglycerin	50	100	200	400	800	1000	na	600
2,4,6-Trinitrotoluene	25	50	200	400	800	1000	na	600
2-Amino-4,6-dinitrotoluene	25	50	200	400	800	1000	na	600
4-Amino-2,6-dinitrotoluene	25	50	200	400	800	1000	na	600
2,4-Dinitrotoluene	25	50	200	400	800	1000	na	600
2,6-Dinitrotoluene	25	50	200	400	800	1000	na	600
2-Nitrotoluene	25	50	200	400	800	1000	na	600
4-Nitrotoluene	25	50	200	400	800	1000	an	600
3-Nitrotoluene	25	50	200	400	800	1000	na	600
PETN	25	50	200	400	800	1000	na	600
Picric Acid	200	400	1600	3200	6400	8000	na	4800
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
Secondary Analytes								
2,4-Diamino-6-nitrotoluene	50	100	250	500	750	1000	2000	500
2,6-Diamino-4-nitrotoluene	50	100	250	500	750	1000	2000	500
3,5-Dinitroaniline	50	100	250	500	750	1000	2000	500
TATB	50	100	250	500	750	1000	2000	500
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

Calibration Levels 8321A-Modified-EXPL.xls (08/09A)

Calibration Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1911

Lab Code: GEL

Run Date: 05-MAR-10,14-MAR-10,19-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0314003a	EXP0314004a	EXP0314005a	EXP0314006a	EXP0314007a	EXP0314008a			
Data File:									
1,3,5-Trinitrobenzene	4.451	3.979	3.11	3.373	3.491	3.675	3.680	12.966	
1,3-Dinitrobenzene-d4	7.232	6.43	7.14	5.899	6.486	7.186	6.729	8.056	
2,4,6-Trinitrotoluene	.44	.296	.315	.313	.354	.328	0.341	15.306	
2,4-Dinitrotoluene	.252	.223	.234	.242	.252	.234	0.240	4.731	
2,6-Dinitrotoluene	1.195	1.162	1.095	1.086	1.097	1.116	1.125	3.879	
2,6-Dinitrotoluene-d3	35.525	38.022	42.425	35.013	41.029	36.654	38.111	7.919	
2-Amino-4,6-dinitrotoluene	.392	.37	.428	.384	.501	.391	0.411	11.712	
3,4-Dinitrotoluene	1.071	.886	.91	.922	.978	1.019	0.964	7.42	
4-Amino-2,6-dinitrotoluene	.402	.261	.295	.271	.346	.292	0.311	17.091	
HMX	3.919	3.14	3.408	3.215	4.964	3.288	3.656	19.093	
Nitrobenzene	.752	.822	.825	.859	.954	.71	0.820	10.362	
RDX	2.726	2.425	2.36	2.61	3.317	2.517	2.659	13.073	
Tetryl	.976	1.142	1.014	.809	.966	.777	0.947	14.288	
m-Dinitrobenzene	1.722	1.421	1.218	1.133	1.277	1.2	1.329	16.246	
m-Nitrotoluene	.106	.087	.093	.088	.093	.081	0.091	9.224	
o-Nitrotoluene	.164	.147	.158	.15	.158	.134	0.152	7.077	
p-Nitrotoluene	.083	.077	.081	.072	.078	.067	0.076	7.669	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-1911
 Lab Code: GEL Run Date: 05-MAR-10,14-MAR-10,19-MAR-10
 LCMSMS Instrument ID: LCMSMS Method: 8321A Modified HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

Calibration Level:	1	2	3	4	5	6	X	X^2	Intercept	COD	Q
Data File:	EXP0314003a	EXP0314004a	EXP0314005a	EXP0314006a	EXP0314007a	EXP0314008a					
Parname:											
PETN	1696.46	2772.34	8585.36	17112.5	31106.9	36853.7	1.094	-0001328	18.561	.9909	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

Q column used to flag COD outside of Limit (<0.990)

* Values outside of QC Limit

Quantify Calibration Report

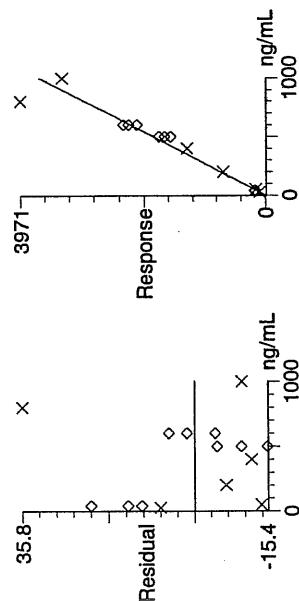
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

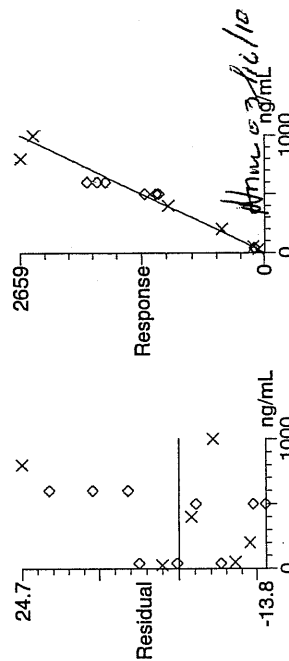
Method: C:\MASSLYNX\New_Exp.PRO\MethDB\031410expa.mdb, Time: Mon Mar 15 09:25:32 2010

Calibration: Untitled, Time: Mon Mar 15 10:15:48 2010

Compound name: HMX
 Response Factor: 3.65571
 RRF SD: 0.697998, % Relative SD: 19.0934
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: RDX
 Response Factor: 2.65919
 RRF SD: 0.347639, % Relative SD: 13.0731
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

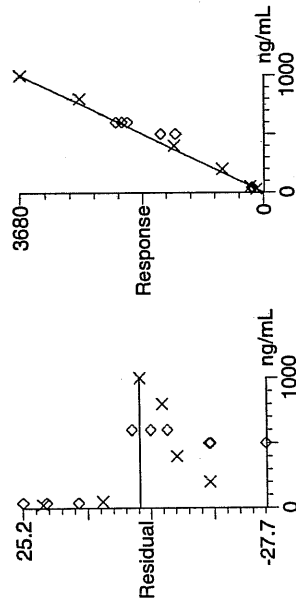
Compound name: 135-Trinitrobenzene

Response Factor: 3.67993

RRF SD: 0.477131, % Relative SD: 12.9658

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

Curve type: RF



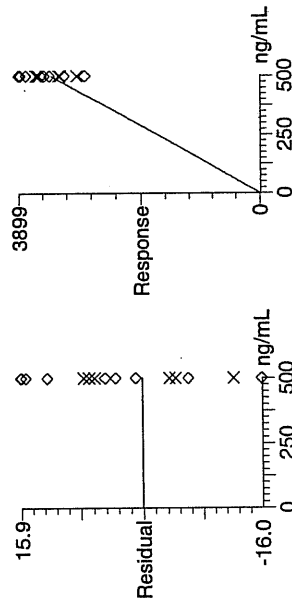
Compound name: 13-Dinitrobenzene-d4

Response Factor: 6.72888

RRF SD: 0.54206, % Relative SD: 8.05572

Response type: External Std, Area

Curve type: RF



Quantify Calibration Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

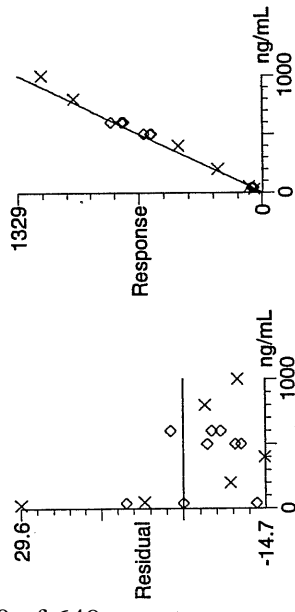
Compound name: 13-Dinitrobenzene

Response Factor: 1.32854

RRF SD: 0.215838, % Relative SD: 16.2463

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

Curve type: RF



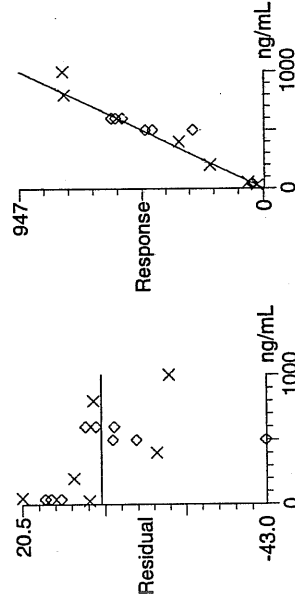
Compound name: Tetra

Response Factor: 0.947232

RRF SD: 0.135343, % Relative SD: 14.2882

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

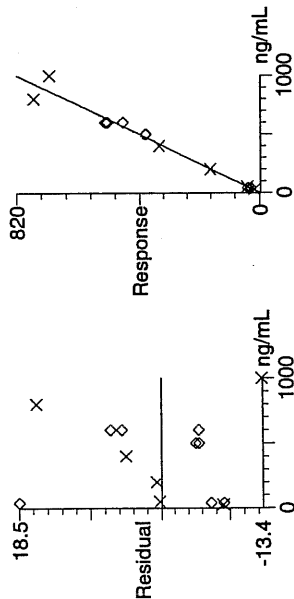
Curve type: RF



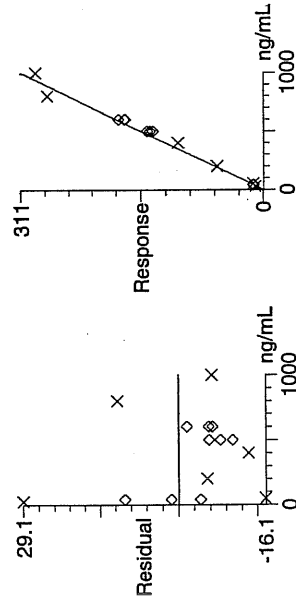
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: Nitrobenzene
Response Factor: 0.820337
RRF SD: 0.0850068, % Relative SD: 10.3624
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.311252
RRF SD: 0.053196, % Relative SD: 17.091
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

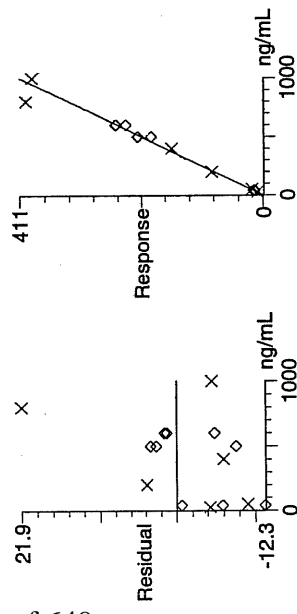
Compound name: 2-Amino-46-dinitrotoluene

Response Factor: 0.410915

RRF SD: 0.0481257, % Relative SD: 11.7118

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF



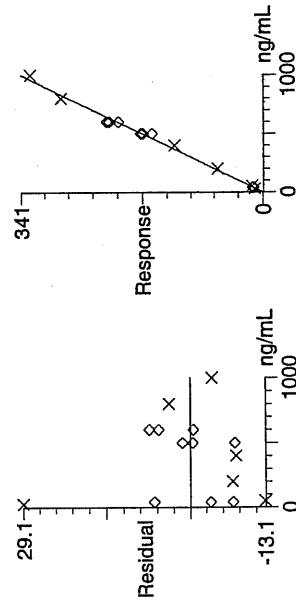
Compound name: 246-Trinitrotoluene

Response Factor: 0.341077

RRF SD: 0.0522035, % Relative SD: 15.3055

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF



Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

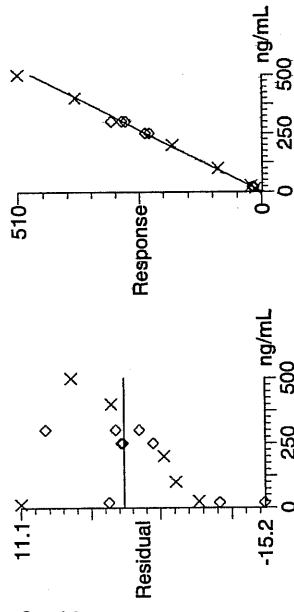
Compound name: 34-dinitrotoluene

Response Factor: 0.964254

RRF SD: 0.0715434, % Relative SD: 7.41956

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF



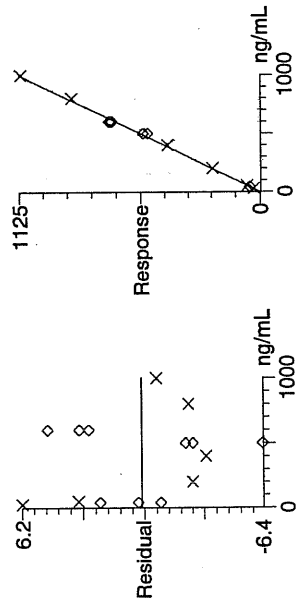
Compound name: 26-dinitrotoluene

Response Factor: 1.12508

RRF SD: 0.0436387, % Relative SD: 3.87872

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF

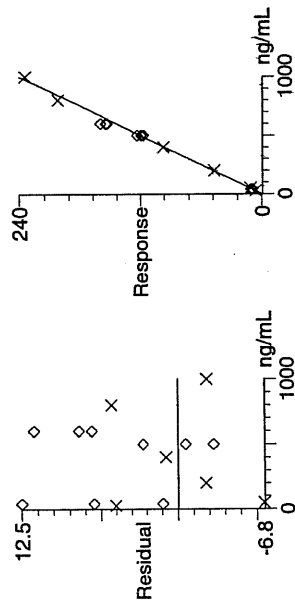


Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

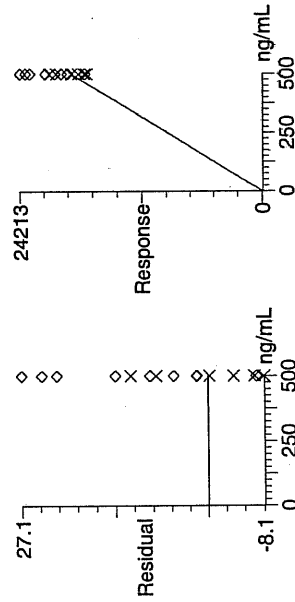
Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.239516
RRF SD: 0.0113317, % Relative SD: 4.73111
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

Page 234 of 649



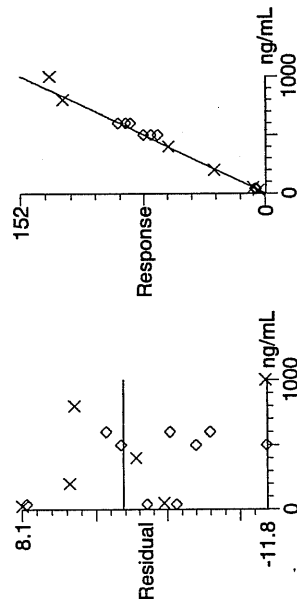
Compound name: 26-dinitrotoluene-d3
Response Factor: 38.1113
RRF SD: 3.01799, % Relative SD: 7.91889
Response type: External Std, Area
Curve type: RF



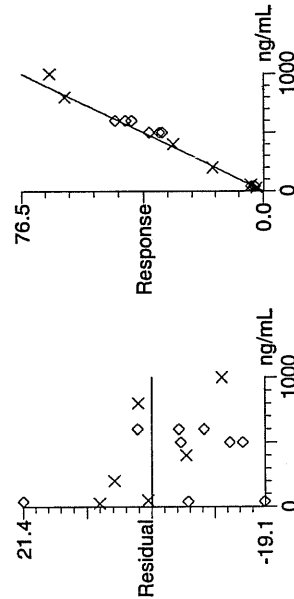
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.151748
RRF SD: 0.0107392, % Relative SD: 7.07703
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 4-Nitrotoluene
Response Factor: 0.0764562
RRF SD: 0.00586344, % Relative SD: 7.66902
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

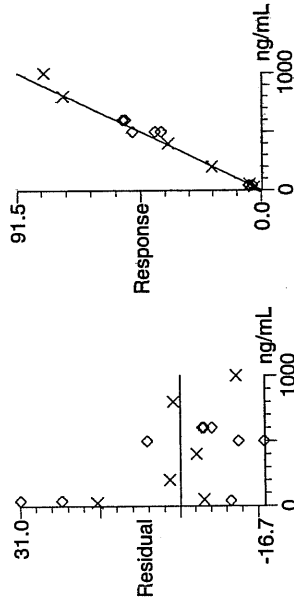
Compound name: 3-Nitrotoluene

Response Factor: 0.091452

RRF SD: 0.00843596, % Relative SD: 9.22446

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF



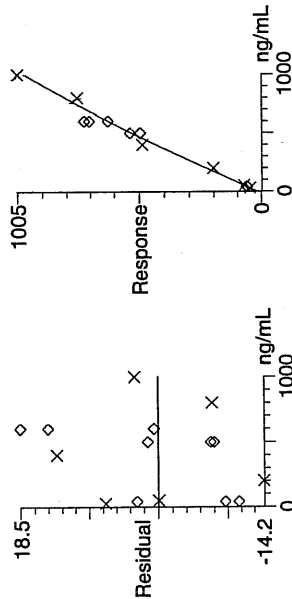
Compound name: PETN

Coefficient of Determination: 0.990878

Calibration curve: $-0.000132821 * x^2 + 1.09448 * x + 18.5607$

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0314010a

Analysis Date: 14-MAR-10 19:24

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	584.915	97	
1,3-Dinitrobenzene-d4	500	419.791	84	
2,4,6-Trinitrotoluene	600	596.891	99	
2,4-Dinitrotoluene	600	647.933	108	
2,6-Dinitrotoluene	600	619.219	103	
2,6-Dinitrotoluene-d3	500	464.57	93	
2-Amino-4,6-dinitrotoluene	600	568.004	95	
3,4-Dinitrotoluene	300	294.779	98	
4-Amino-2,6-dinitrotoluene	600	566.927	94	
HMX	600	573.087	96	
Nitrobenzene	600	640.134	107	
PETN	600	711.078	119	
RDX	600	646.997	108	
Tetryl	600	608.116	101	
m-Dinitrobenzene	600	613.453	102	
m-Nitrotoluene	600	573.227	96	
o-Nitrotoluene	600	608.034	101	
p-Nitrotoluene	600	614.277	102	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314010a

Date: 14-Mar-2010

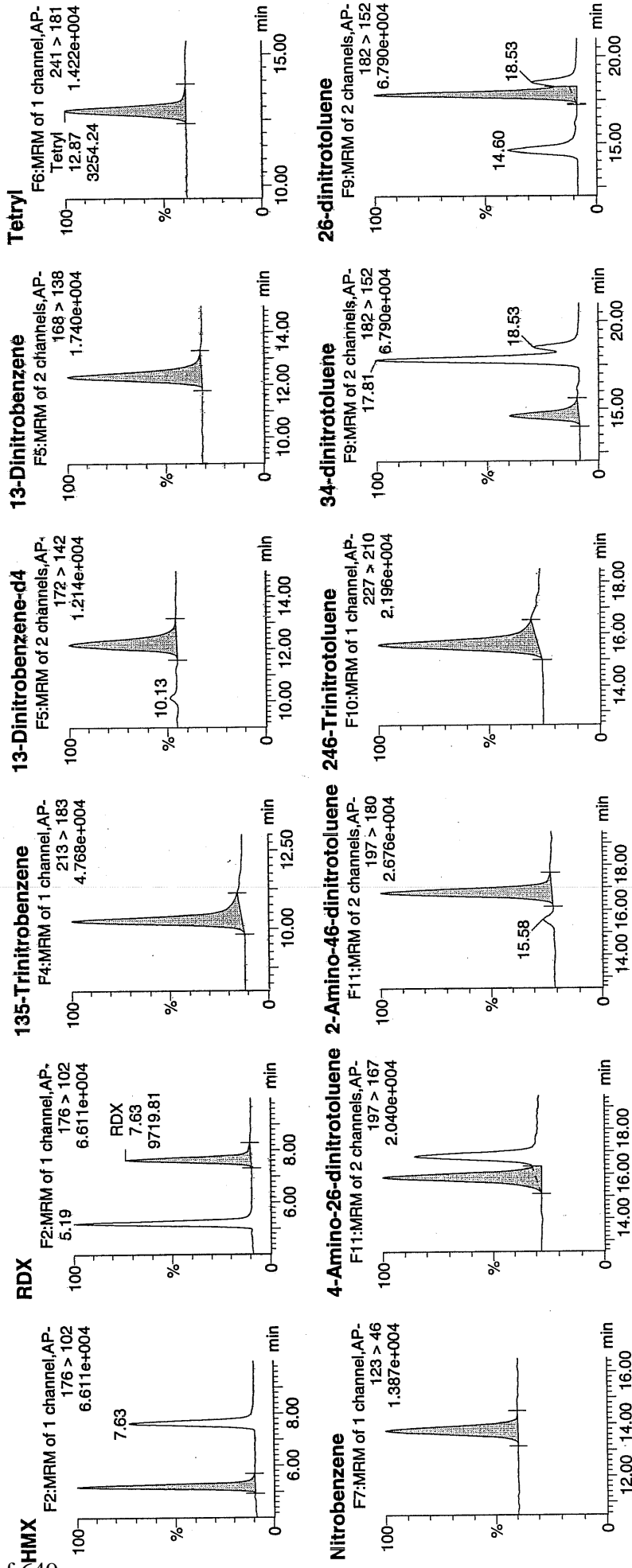
Time: 19:24:18

ID: WXX100314-07ICV

Vial: 1:1,B

WXX
3/15/10

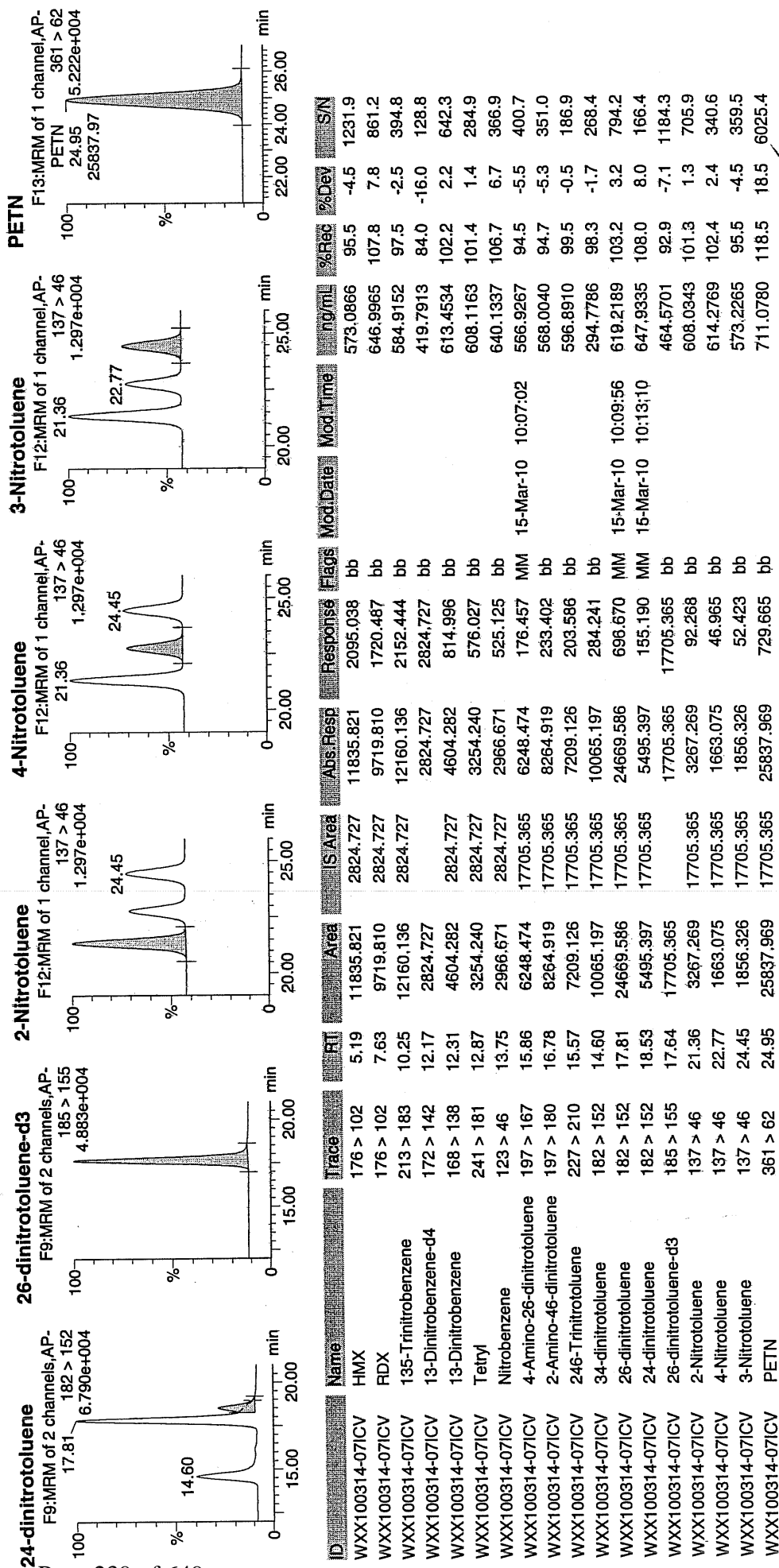
HM
049



HM 0314010

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/14/10
 Time of Injection: 1924
 Standard Number: WXX100314-07ICV
 Data File: EXP0314010a

HMX	95.5
RDX	107.8
135-TNB	97.5
13-DNB	102.2
Tetryl	101.4
Nitrobenzene	106.7
4A-26-DNT	94.5
2A-46-DNT	94.7
246-TNT	99.5
34-DNT(surr)	98.3
26-DNT	103.2
24-DNT	108.0
2-NT	101.3
4-NT	102.4
3-NT	95.5
PETN	118.5

*WTP
3/15/10*

Total 1627.0

Average 101.7

WTP 03/16/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-1911
 Lab Code: GEL Run Date: 05-MAR-10.14-MAR-10.19-MAR-10
 LCMSMS Instrument ID: LCMSMS Method: 8321A Modified HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0319003a	EXP0319004a	EXP0319005a	EXP0319006a	EXP0319007a	EXP0319008a			
Data File:									
1,3,5-Trinitrobenzene	4.934	4.658	4.052	4.308	4.896	5.867	4.786	13.17	
1,3-Dinitrobenzene-d4	17.078	17.454	16.592	19.338	13.899	14.139	16.417	12.663	
2,4,6-Trinitrotoluene	.451	.404	.409	.331	.44	.542	0.430	16.164	
2,4-Dinitrotoluene	.239	.248	.246	.211	.249	.254	0.241	6.373	
2,6-Dinitrotoluene	1.106	1.153	1.116	1.085	1.162	1.147	1.128	2.683	
2,6-Dinitrotoluene-d3	97.958	93.948	90.487	115.944	84.041	76.417	93.133	14.513	
2-Amino-4,6-dinitrotoluene	.66	.538	.502	.526	.574	.766	0.594	16.922	
3,4-Dinitrotoluene	1.135	1.095	1.033	1.099	1.056	1.277	1.116	7.756	
4-Amino-2,6-dinitrotoluene	.406	.346	.352	.296	.362	.452	0.369	14.572	
HMX	4.054	4.355	4.659	3.304	5.158	3.924	4.242	15.066	
Nitrobenzene	.709	.661	.63	.684	.718	.766	0.695	6.827	
RDX	2.618	2.614	2.626	2.301	3.123	3.67	2.825	17.381	
Tetryl	1.115	1.134	1.207	1.016	1.261	1.326	1.177	9.47	
m-Dinitrobenzene	1.316	1.413	1.265	1.336	1.333	1.473	1.356	5.494	
m-Nitrotoluene	.061	.068	.05	.043	.056	.059	0.056	15.483	
o-Nitrotoluene	.106	.11	.083	.075	.093	.093	0.093	14.248	
p-Nitrotoluene	.051	.052	.043	.037	.047	.047	0.046	11.401	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1911

Lab Code: GEL

Run Date: 05-MAR-10.14-MAR-10.19-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

	1	2	3	4	5	6	Slope	Intercept	COD	Q
Calibration Level:										
Data File:	EXP0319003a	EXP0319004a	EXP0319005a	EXP0319006a	EXP0319007a	EXP0319008a				
Parname										
PETN	3571.23	7118.35	24758.3	44512.9	76075.7	84107.2	1.086	14.643	.9933	

Linear fit : $Y=mx +b$
where b is Intercept and m is slope

COD is Coefficient of Determination

Q column used to flag COD values outside of Limit (<0.990)

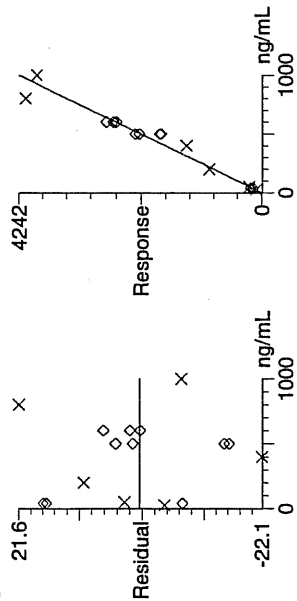
* Values outside of QC Limit

Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

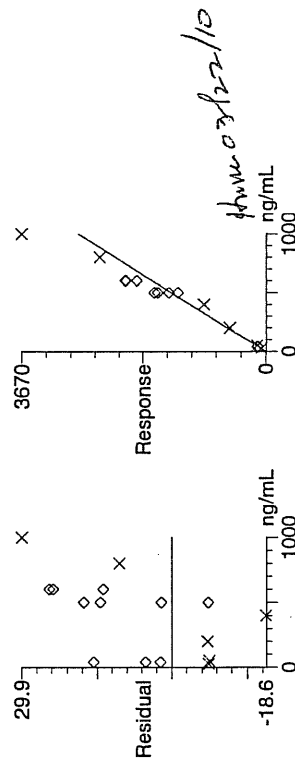
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Method: C:\MASSLYNX\New_Exp.PRO\MethDE\031910expa.mdb, Time: Sat Mar 20 10:50:15 2010
Calibration: Untitled, Time: Sat Mar 20 11:05:24 2010

Compound name: HMX
Response Factor: 4.24242
RRF SD: 0.639182, % Relative SD: 15.0664
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



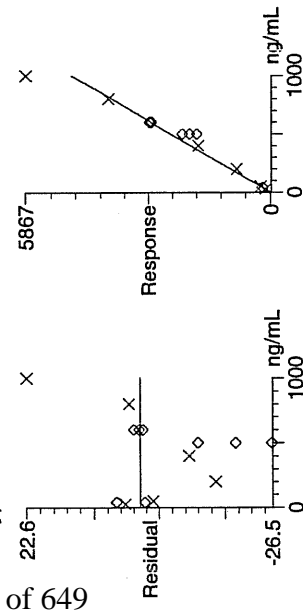
Compound name: RDX
Response Factor: 2.82542
RRF SD: 0.491092, % Relative SD: 17.3812
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



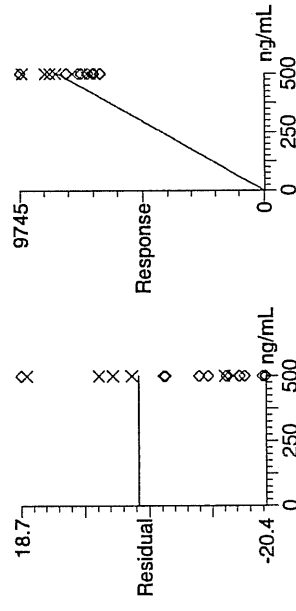
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 135-Trinitrobenzene
Response Factor: 4.78565
RRF SD: 0.630251, % Relative SD: 13.1696
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



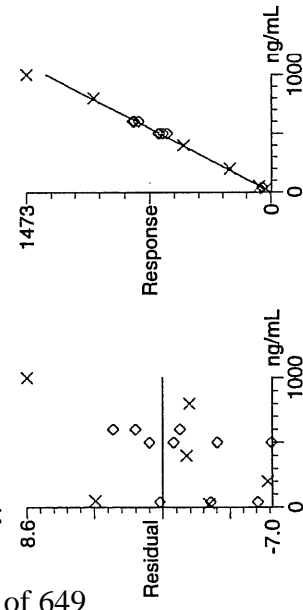
Compound name: 13-Dinitrobenzene-d4
Response Factor: 16.4163
RRF SD: 2.0788, % Relative SD: 12.663
Response type: External Std, Area
Curve type: RF



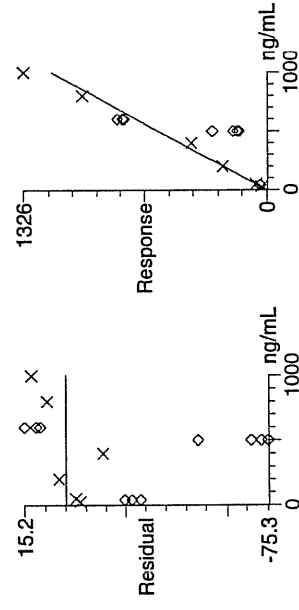
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 13-Dinitrobenzene
Response Factor: 1.35599
RRF SD: 0.0744962, % Relative SD: 5.49386
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



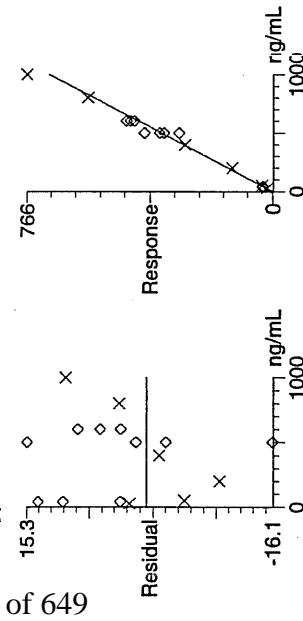
Compound name: Tetraol
Response Factor: 1.17668
RRF SD: 0.111431, % Relative SD: 9.46995
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



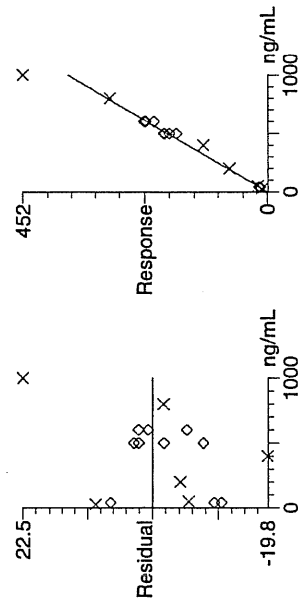
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: Nitrobenzene
Response Factor: 0.69451
RRF SD: 0.0474118, % Relative SD: 6.82665
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RIF



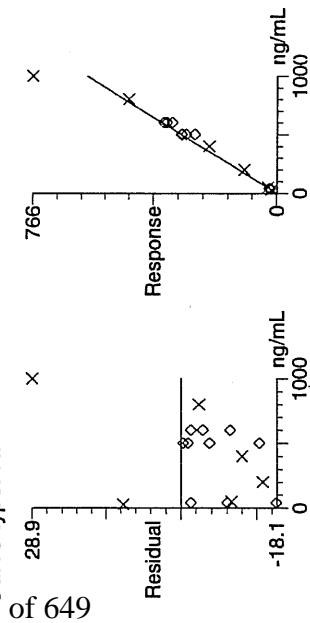
Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.36909
RRF SD: 0.0537838, % Relative SD: 14.572
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RIF



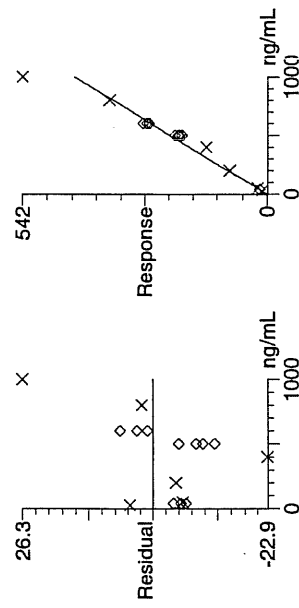
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.594147
RRF SD: 0.100543, % Relative SD: 16.9222
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

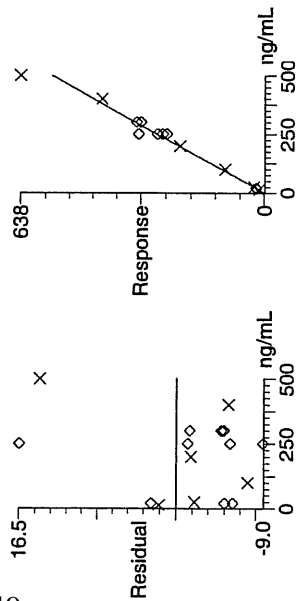


Compound name: 246-Trinitrotoluene
Response Factor: 0.4294
RRF SD: 0.0694084, % Relative SD: 16.164
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

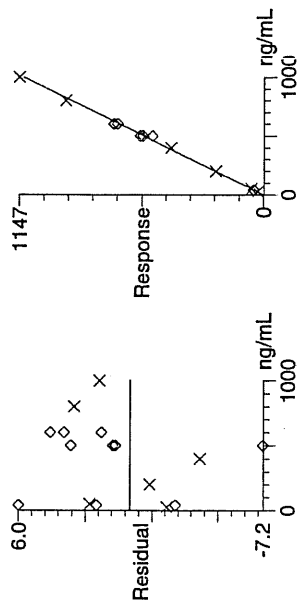


Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 34-dinitrotoluene
Response Factor: 1.11594
RRF SD: 0.0865532, % Relative SD: 7.75611
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



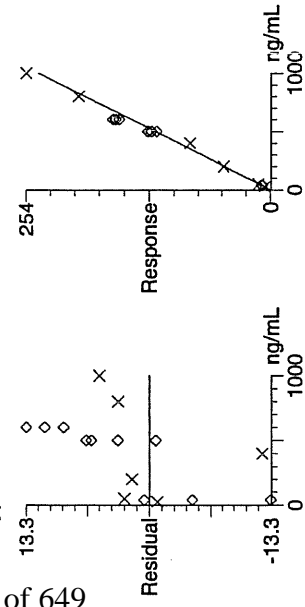
Compound name: 26-dinitrotoluene
Response Factor: 1.12816
RRF SD: 0.0302691, % Relative SD: 2.68306
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



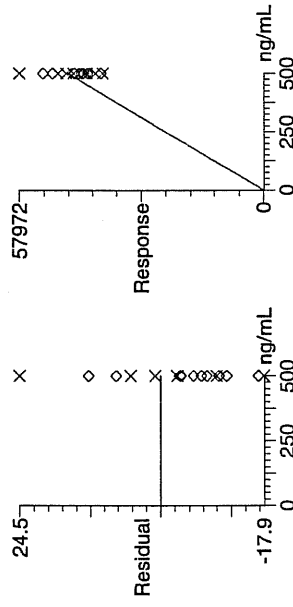
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.241092
RRF SD: 0.0153653, % Relative SD: 6.3732
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



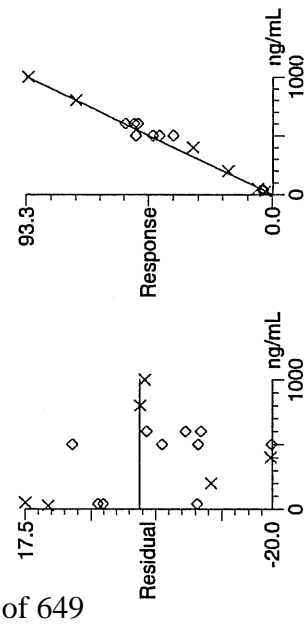
Compound name: 26-dinitrotoluene-d3
Response Factor: 93.1325
RRF SD: 13.516, % Relative SD: 14.5127
Response type: External Std, Area
Curve type: RF



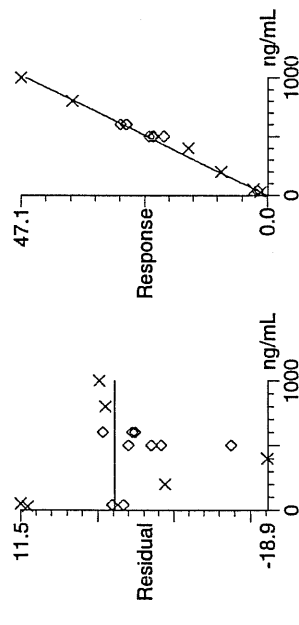
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.0933197
RRF SD: 0.0132962, % Relative SD: 14.2481
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



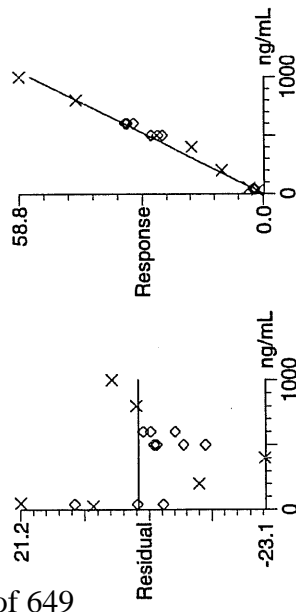
Compound name: 4-Nitrotoluene
Response Factor: 0.0461933
RRF SD: 0.00526639, % Relative SD: 11.4008
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



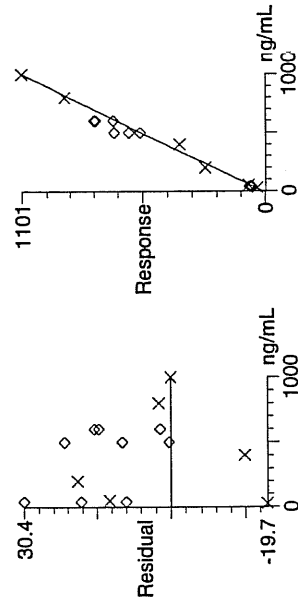
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0562003
RF SD: 0.00870123, % Relative SD: 15.4825
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Correlation coefficient: $r = 0.996647$, $r^2 = 0.993305$
Calibration curve: $1.08596 * x + 14.643$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0319010a

Analysis Date: 19-MAR-10 21:19

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	679.677	113	
2,6-Dinitrotoluene	600	621.301	104	
2,6-Dinitrotoluene-d3	500	448.99	90	
2-Amino-4,6-dinitrotoluene	600	545.067	91	
3,4-Dinitrotoluene	300	285.258	95	
4-Amino-2,6-dinitrotoluene	600	565.303	94	
HMX	600	599.565	100	
Nitrobenzene	600	651.909	109	
PETN	600	613.34	102	
RDX	600	746.638	124	*
Tetryl	600	666.124	111	
m-Dinitrobenzene	600	618.738	103	
m-Nitrotoluene	600	586.775	98	
o-Nitrotoluene	600	558.066	93	
p-Nitrotoluene	600	584.772	97	
1,3,5-Trinitrobenzene	600	601.679	100	
1,3-Dinitrobenzene-d4	500	400.213	80	
2,4,6-Trinitrotoluene	600	607.061	101	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319010a

Date: 19-Mar-2010

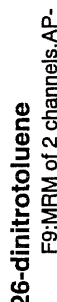
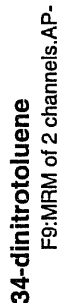
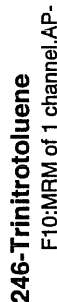
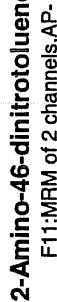
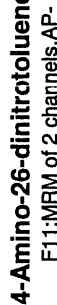
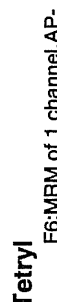
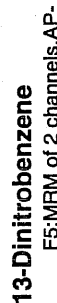
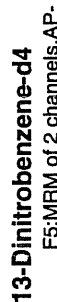
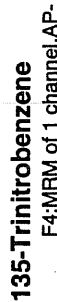
Time: 21:19:38

ID: WXX100319-07ICV

Vial: 1:1,B

MM
3/20/10

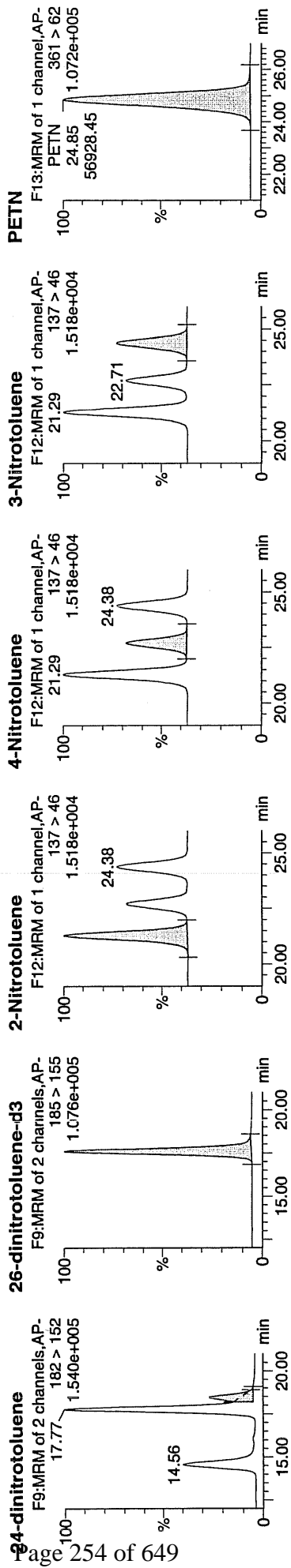
6



Amw
03/22/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N
WXX100319-07ICV	HMX	176 > 102	5.19	33423.121	6570.021	33423.121	2543.608	bb			599.5653	99.9	-0.1	2774.6
WXX100319-07ICV	RDX	176 > 102	7.61	27719.803	6570.021	27719.803	2109.567	bb			746.6378	124.4	24.4	2003.8
WXX100319-07ICV	135-Trinitrobenzene	213 > 183	10.23	37835.734	6570.021	37835.734	2879.423	bb			601.6787	100.3	0.3	3588.0
WXX100319-07ICV	13-Dinitrobenzene-d4	172 > 142	12.14	6570.021		6570.021	6570.021	bb			400.2127	80.0	-20.0	715.5
WXX100319-07ICV	13-Dinitrobenzene	168 > 138	12.27	11024.536	6570.021	11024.536	839.003	bb			618.7378	103.1	3.1	1004.2
WXX100319-07ICV	Tetryl	241 > 181	12.82	10299.374	6570.021	10299.374	783.816	bb			666.1242	111.0	11.0	720.2
WXX100319-07ICV	Nitrobenzene	123 > 46	13.72	5949.249	6570.021	5949.249	452.757	bb			651.9087	108.7	8.7	484.8
WXX100319-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.83	17449.465	41815.598	17449.465	208.648	MM	20-Mar-10	10:53:54	565.3029	94.2	-5.8	412.6
WXX100319-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.73	27083.949	41815.598	27083.949	323.850	bb			545.0667	90.8	-9.2	943.0
WXX100319-07ICV	246-Trinitrotoluene	227 > 210	15.55	21800.279	41815.598	21800.279	260.672	bb			607.0606	101.2	1.2	1547.1
WXX100319-07ICV	34-dinitrotoluene	182 > 152	14.56	26622.328	41815.598	26622.328	318.330	bb			285.2582	95.1	-4.9	1006.5
WXX100319-07ICV	26-dinitrotoluene	182 > 152	17.77	58619.211	41815.598	58619.211	700.925	MM	20-Mar-10	10:58:41	621.3012	103.6	3.6	2704.8
WXX100319-07ICV	24-dinitrotoluene	182 > 152	18.47	13704.189	41815.598	13704.189	163.865	MM	20-Mar-10	11:01:17	679.6771	113.3	13.3	610.9
WXX100319-07ICV	26-dinitrotoluene-d3	185 > 155	17.60	41815.598		41815.598	41815.598	bb			448.9905	89.8	-10.2	4079.8
WXX100319-07ICV	2-Nitrotoluene	137 > 46	21.29	4355.388	41815.598	4355.388	52.079	bb			558.0655	93.0	-7.0	835.7
WXX100319-07ICV	4-Nitrotoluene	137 > 46	22.71	2259.093	41815.598	2259.093	27.013	bb			584.7720	97.5	-2.5	413.8
WXX100319-07ICV	3-Nitrotoluene	137 > 46	24.38	2757.896	41815.598	2757.896	32.977	bb			586.7746	97.8	-2.2	479.7
WXX100319-07ICV	PETN	361 > 62	24.85	56928.445	41815.598	56928.445	680.708	bb			613.3401	102.2	2.2	13603.2

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/19/10
 Time of Injection: 2119
 Standard Number: WXX100319-07ICV
 Data File: EXP0319010a

HMX		99.9
RDX		124.4
135-TNB		100.3
13-DNB		103.1
Tetryl		111.0
Nitrobenzene		108.7
4A-26-DNT		94.2
2A-46-DNT		90.8
246-TNT		101.2
34-DNT(surr)		95.1
26-DNT		103.6
24-DNT		113.3
2-NT		93.0
4-NT		97.5
3-NT		97.8
PETN		102.2

*not
3/22/10*

Total 1636.1

Average 102.3

sum 03/22/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1911

Lab Code: GEL

Run Date: 05-MAR-10,14-MAR-10,19-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8O

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03050003.wiff	EXS03050004.wiff	EXS03050005.wiff	EXS03050006.wiff	EXS03050007.wiff	EXS03050008.wiff	EXS03050009.wiff					
Parname:												
2,4-Diamino-6-nitrotoluene	85600	188000	436000	918000	1500000	1790000	3780000	-5040	1860	.016	.9992	
2,6-Diamino-4-nitrotoluene	126000	257000	638000	1300000	2090000	2570000	5220000	-13200	2690	-.037	.9996	
3,4-Dinitrotoluene	307000	593000	1470000	2930000	4500000	5680000	10400000	-66800	13500	-3.11	.9976	
3,5-Dinitroaniline	462000	868000	2040000	4020000	6030000	7500000	12600000	-18600	8840	-1.27	.9999	
TATB	63200	132000	333000	729000	1100000	1480000	3120000	-13200	1430	.069	1	
tris(o-cresyl) phosphate	950000	1920000	4370000	8500000	12200000	15100000	25100000	123000	17900	-2.71	.9999	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

Q column used to flag COD outside of Limit (<0.990)

* Values outside of QC Limit

030510ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.32e+004			
a1	1.43e+003			
a2	0.0686			
Correlation coefficient 1.0000				
Use Area				

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.86e+004			
a1	8.84e+003			
a2	-1.27			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-6.68e+004			
a1	1.35e+004			
a2	-3.11			
Correlation coefficient 0.9976				
Use Area				

Peak Name: 26-Diamino-4-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.32e+004			
a1	2.69e+003			
a2	-0.0366			
Correlation coefficient 0.9996				
Use Area				

Ken 3/9/10

*4mm/10/10
23/10/10*

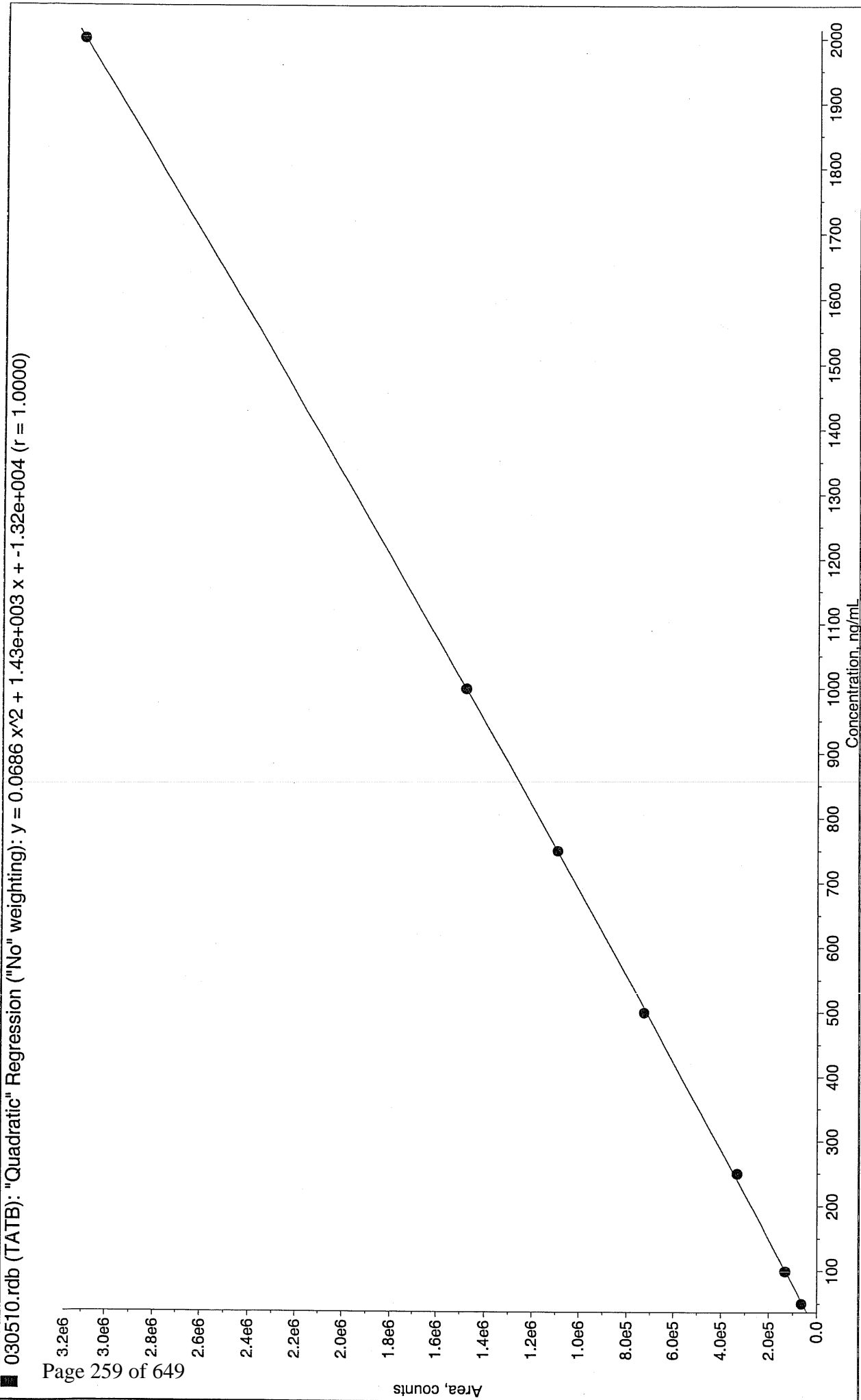
030510ICAL

Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-5.04e+003			
a1	1.86e+003			
a2	0.0157			
Correlation coefficient 0.9992				
Use Area				

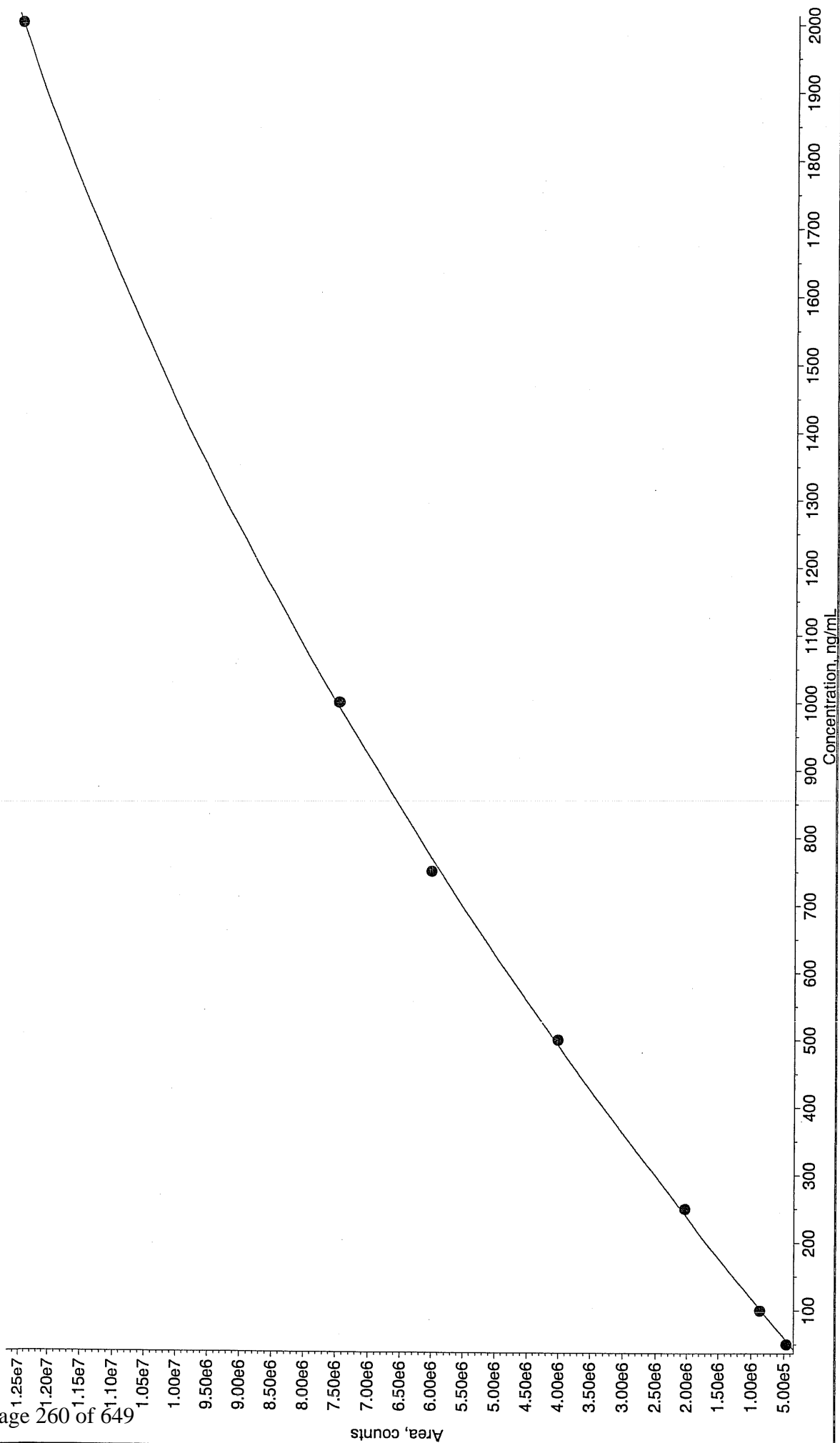
Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	1.23e+005			
a1	1.79e+004			
a2	-2.71			
Correlation coefficient 0.9999				
Use Area				



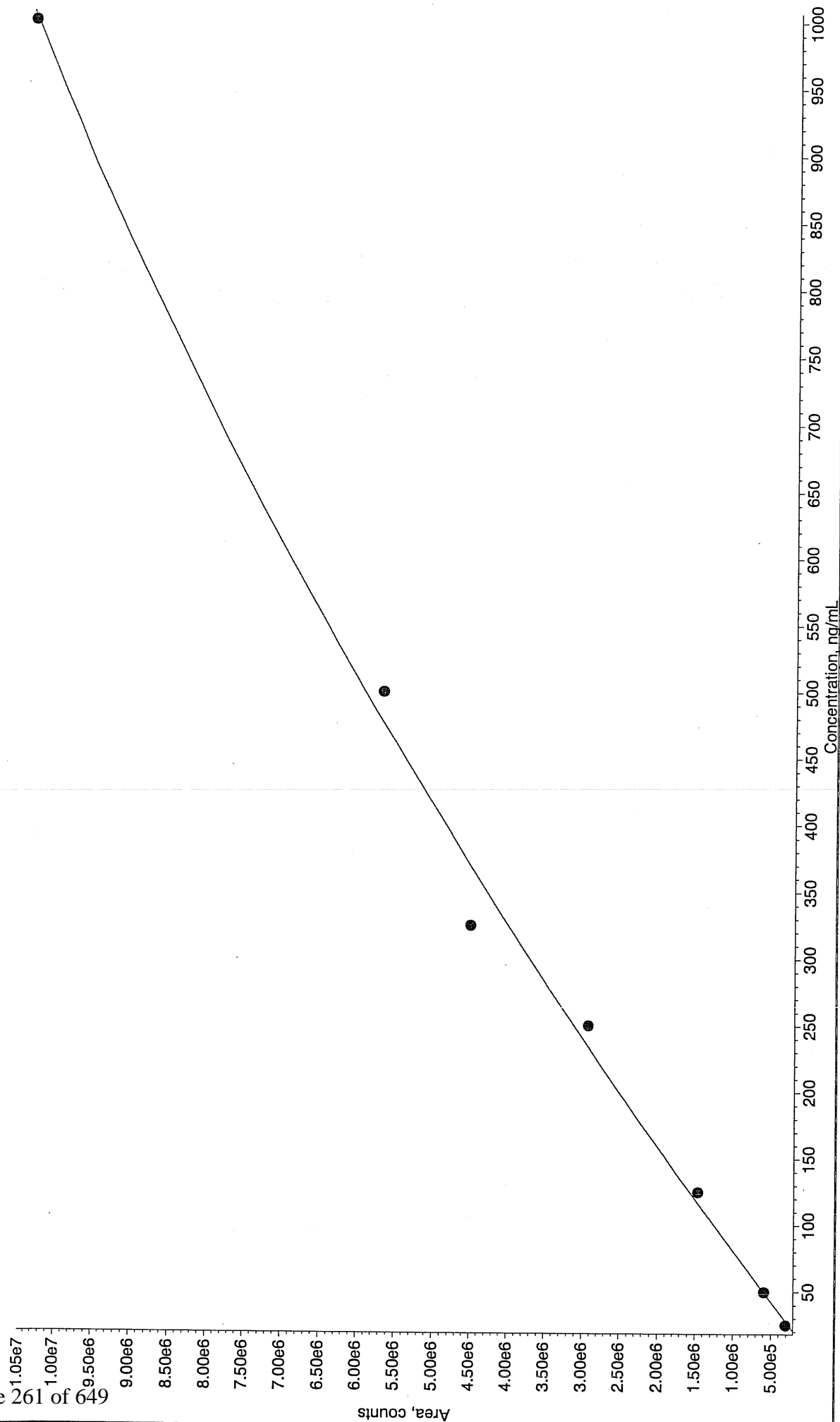
030510.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -1.27 x^2 + 8.84e+003 x + -1.86e+004$ ($r = 0.9999$)

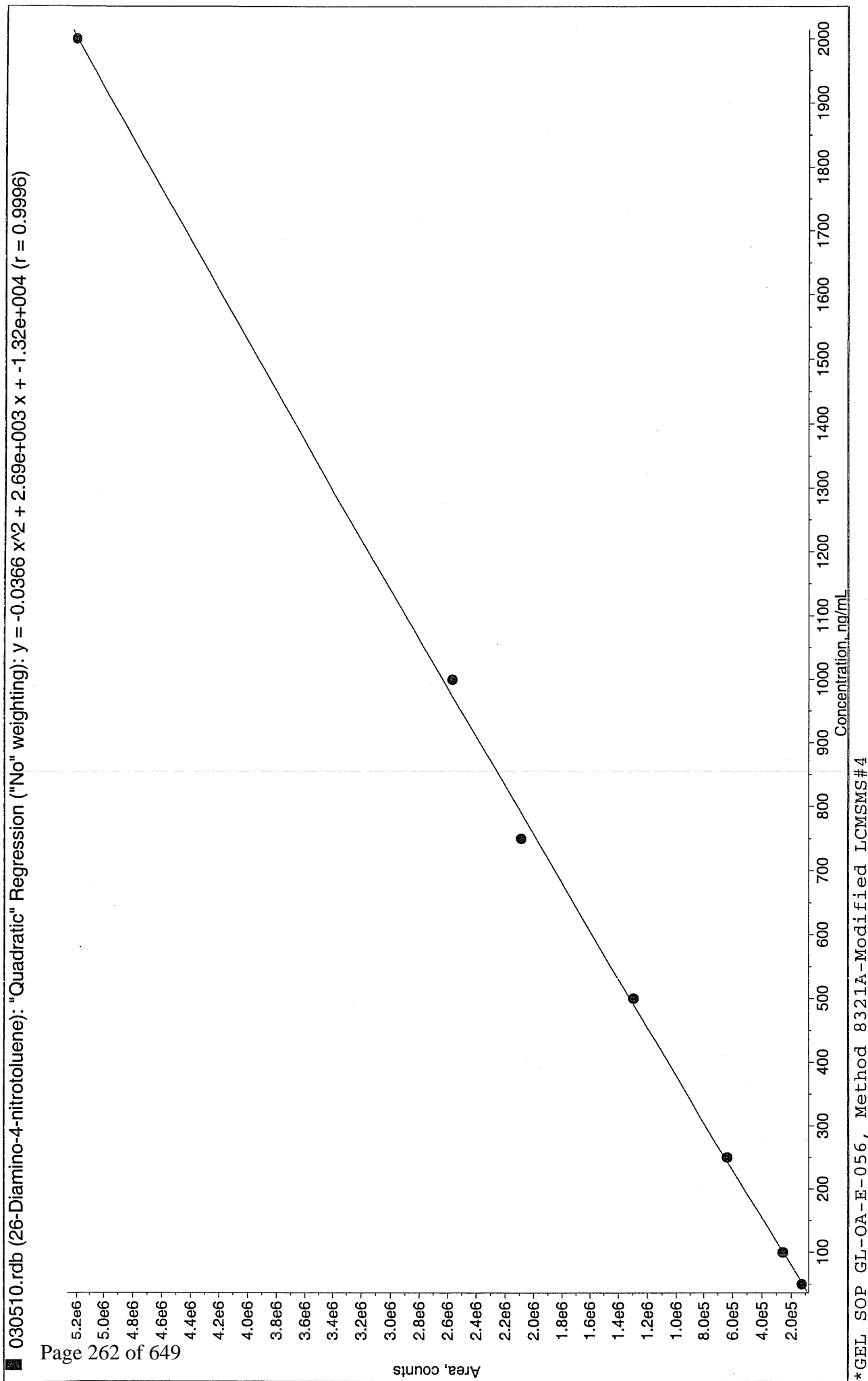
Page 260 of 649

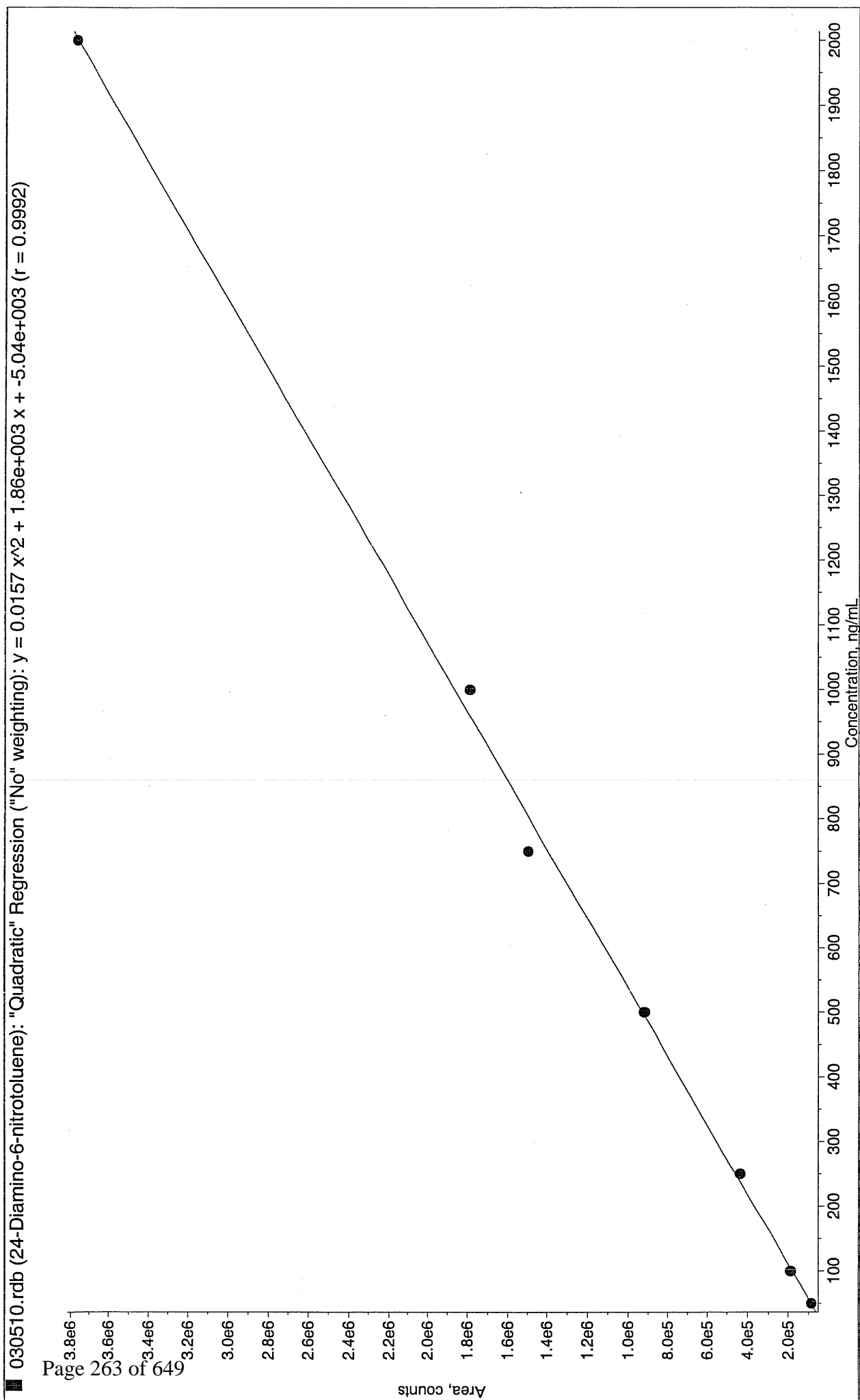


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

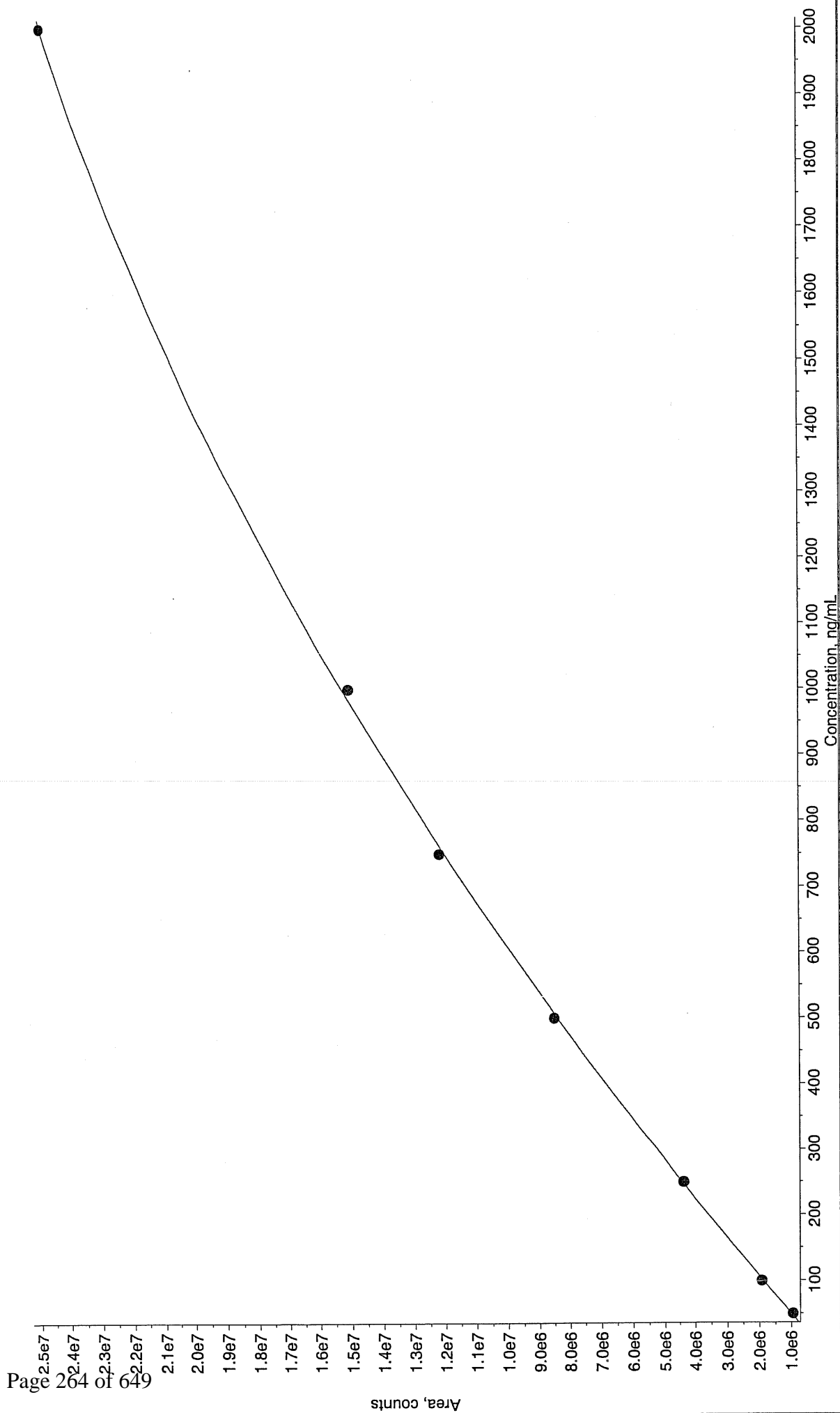
030510.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -3.11 \times 10^{-4} x^2 + 1.35 \times 10^{-4} x + -6.68 \times 10^4$ ($r = 0.9976$)







030510.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -2.71 x^2 + 1.79e+004 x + 1.23e+005$ ($r = 0.9999$)



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03050011.wiff

Analysis Date: 05-MAR-10 19:44

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	484	97	
2,6-Diamino-4-nitrotoluene	500	507	101	
3,4-Dinitrotoluene	250	230	92	
3,5-Dinitroaniline	500	502	100	
TATB	500	503	101	
tris(o-cresyl) phosphate	500	506	101	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

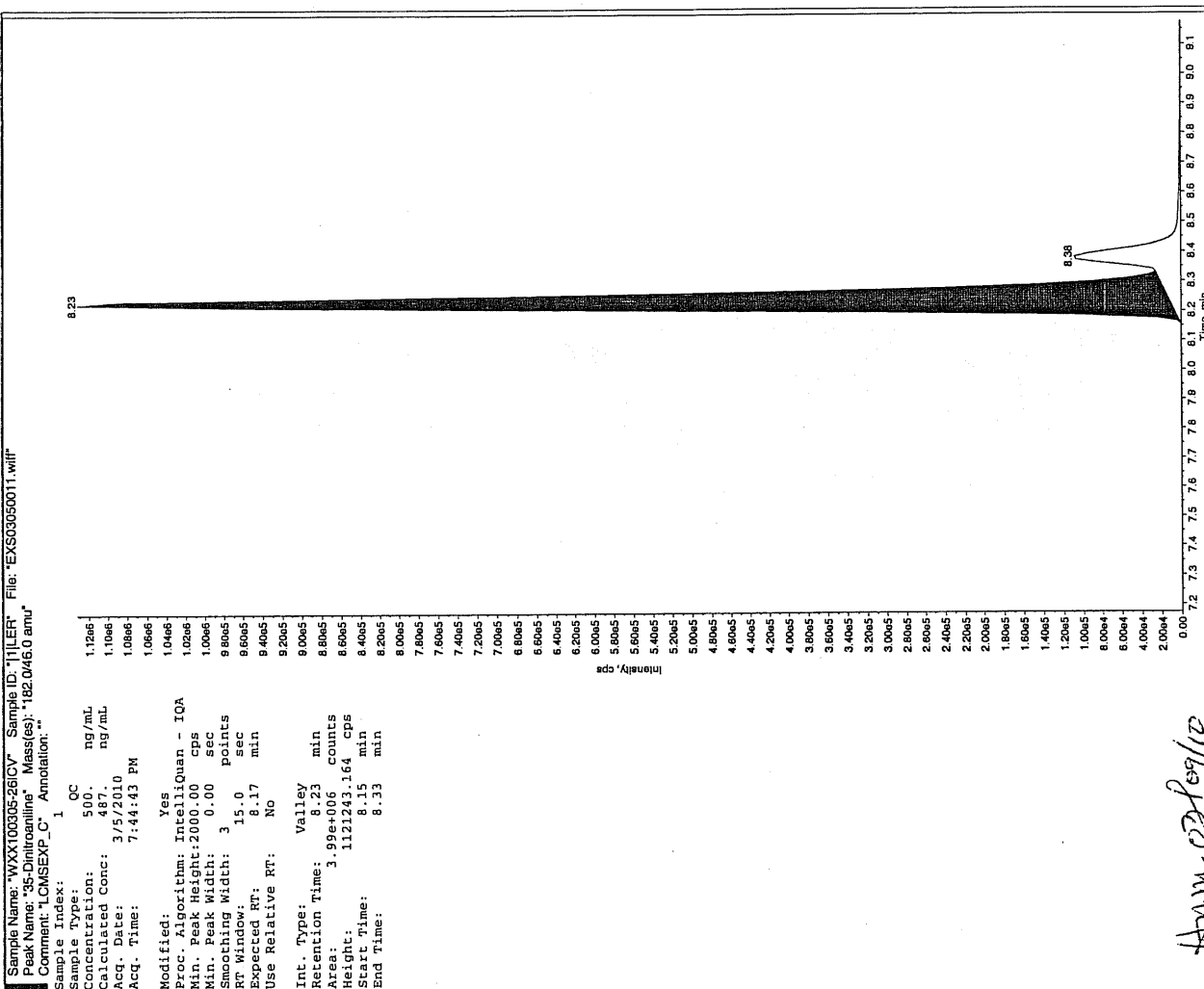
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

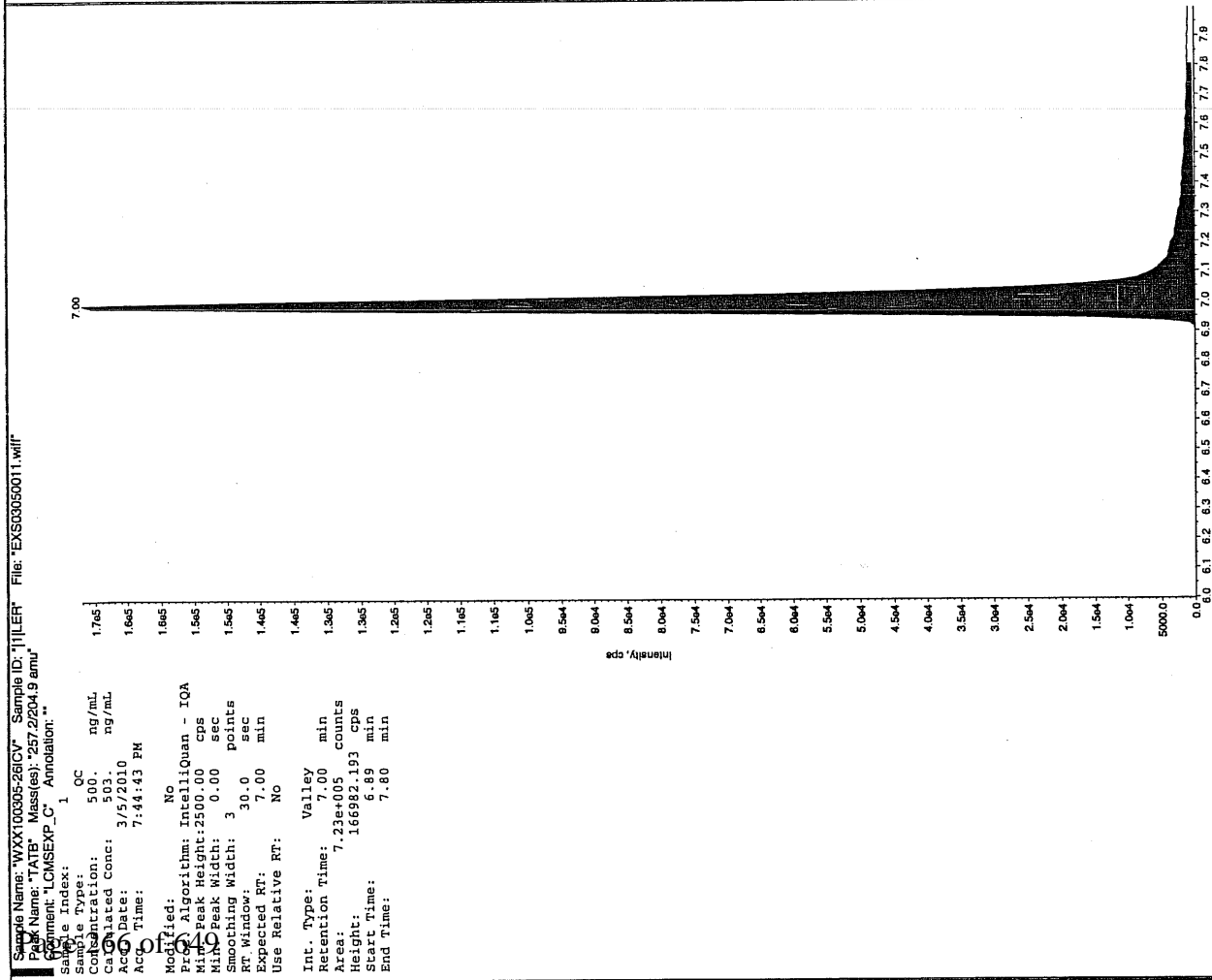
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

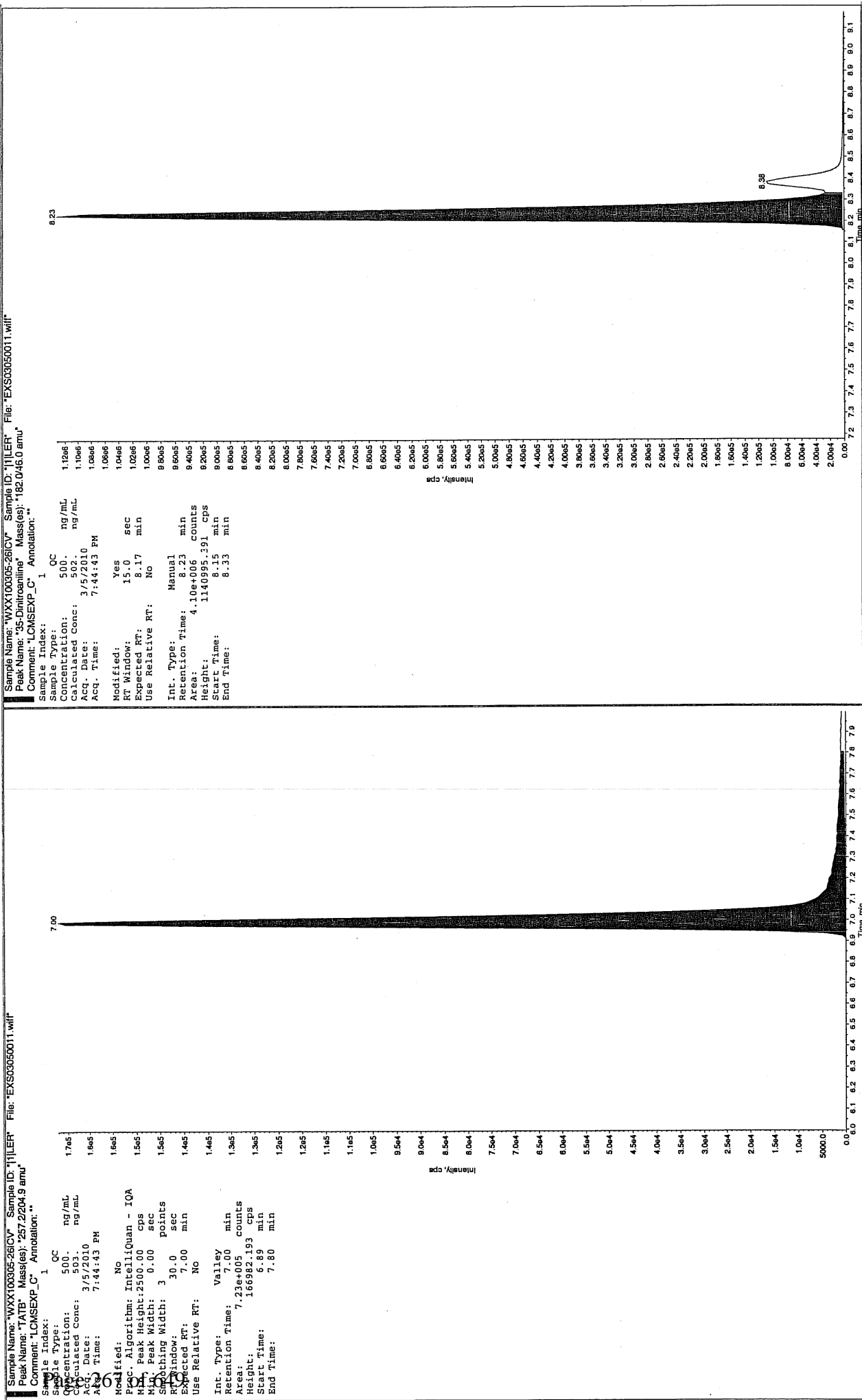
Before Jan 3/9/10

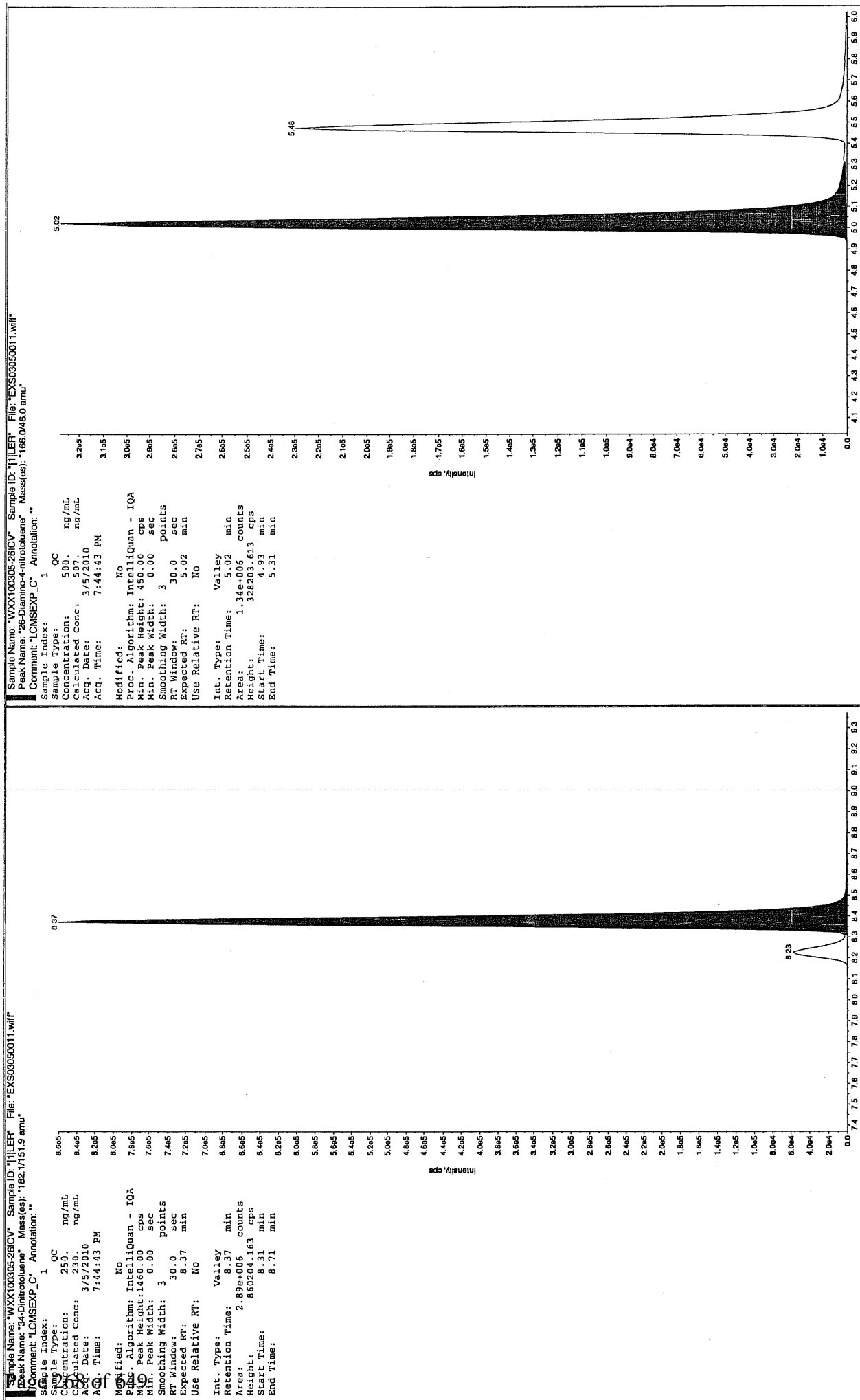


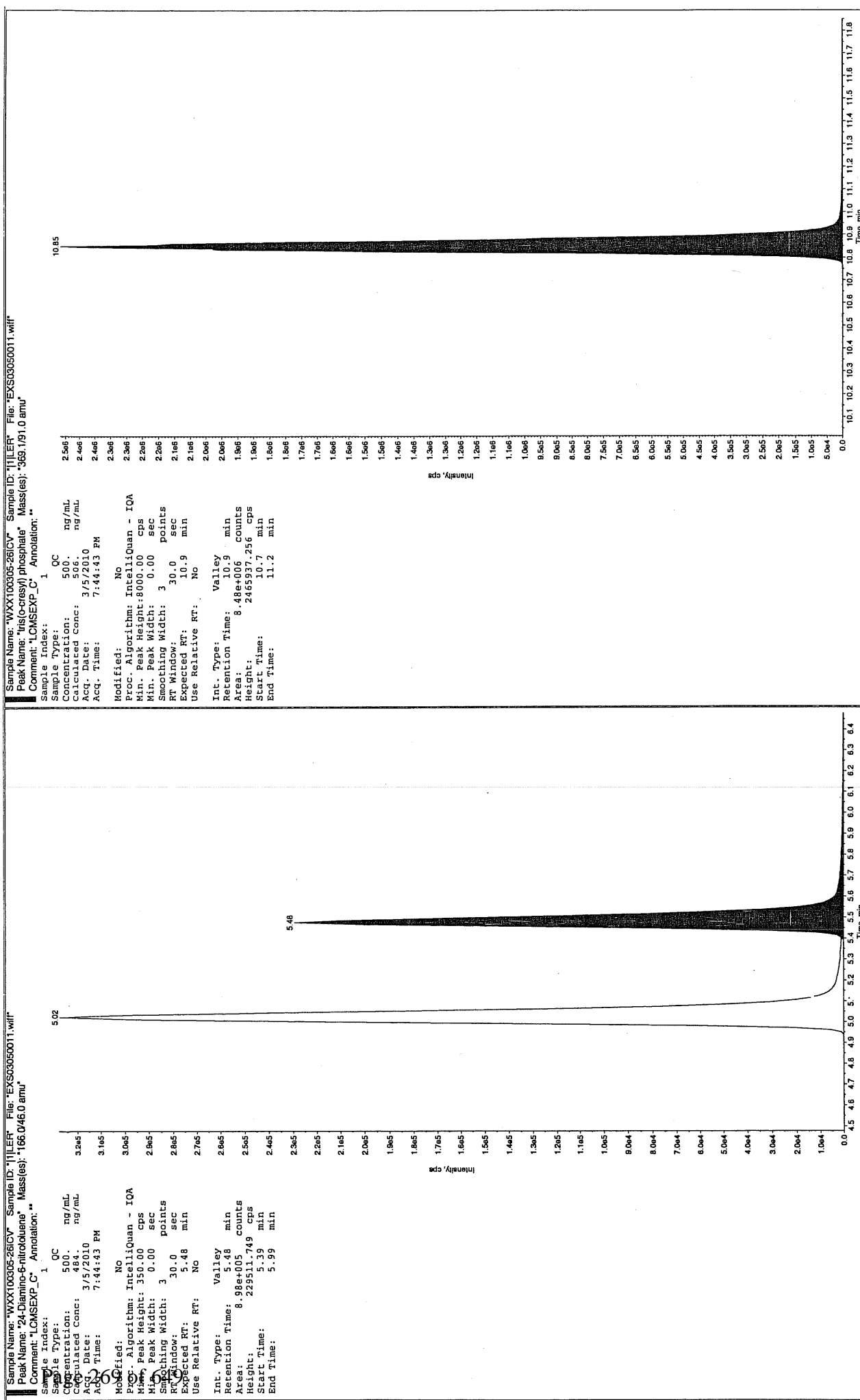
Ann 03/09/10



after Jan 31/2010







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0314012a

Analysis Date: 14-MAR-10 20:23

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p-Nitrotoluene	40	37.564	94	
1,3,5-Trinitrobenzene	40	45.353	113	
1,3-Dinitrobenzene-d4	500	469.423	94	
2,4,6-Trinitrotoluene	40	36.944	92	
2,4-Dinitrotoluene	40	44.992	112	
2,6-Dinitrotoluene	40	39.604	99	
2,6-Dinitrotoluene-d3	500	507.766	102	
2-Amino-4,6-dinitrotoluene	40	35.068	88	
3,4-Dinitrotoluene	20	17.939	90	
4-Amino-2,6-dinitrotoluene	40	40.541	101	
HMX	40	45.554	114	
Nitrobenzene	40	47.411	119	
PETN	40	41.119	103	
RDX	40	37.369	93	
Tetryl	40	45.238	113	
m-Dinitrobenzene	40	34.726	87	
m-Nitrotoluene	40	52.416	131	*
o-Nitrotoluene	40	43.094	108	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314012a

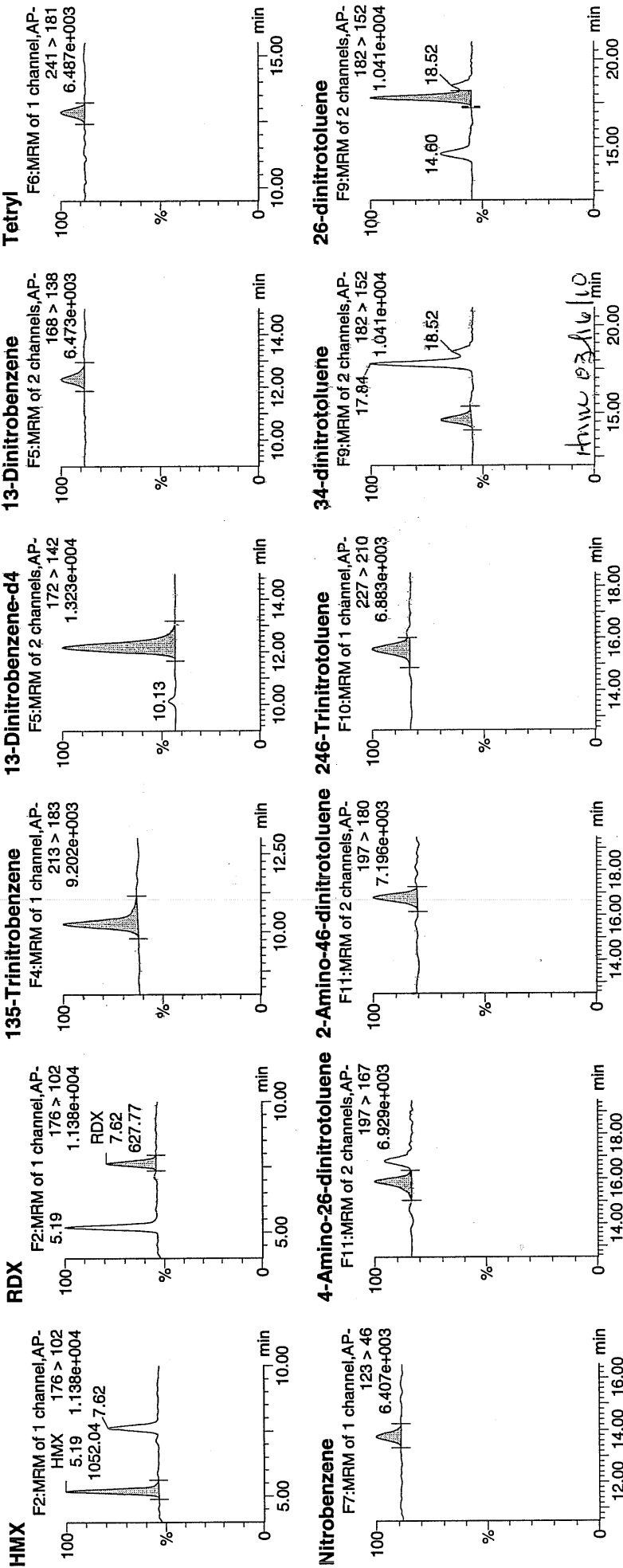
Date: 14-Mar-2010

Time: 20:23:15

ID: WXX100314-08CRI

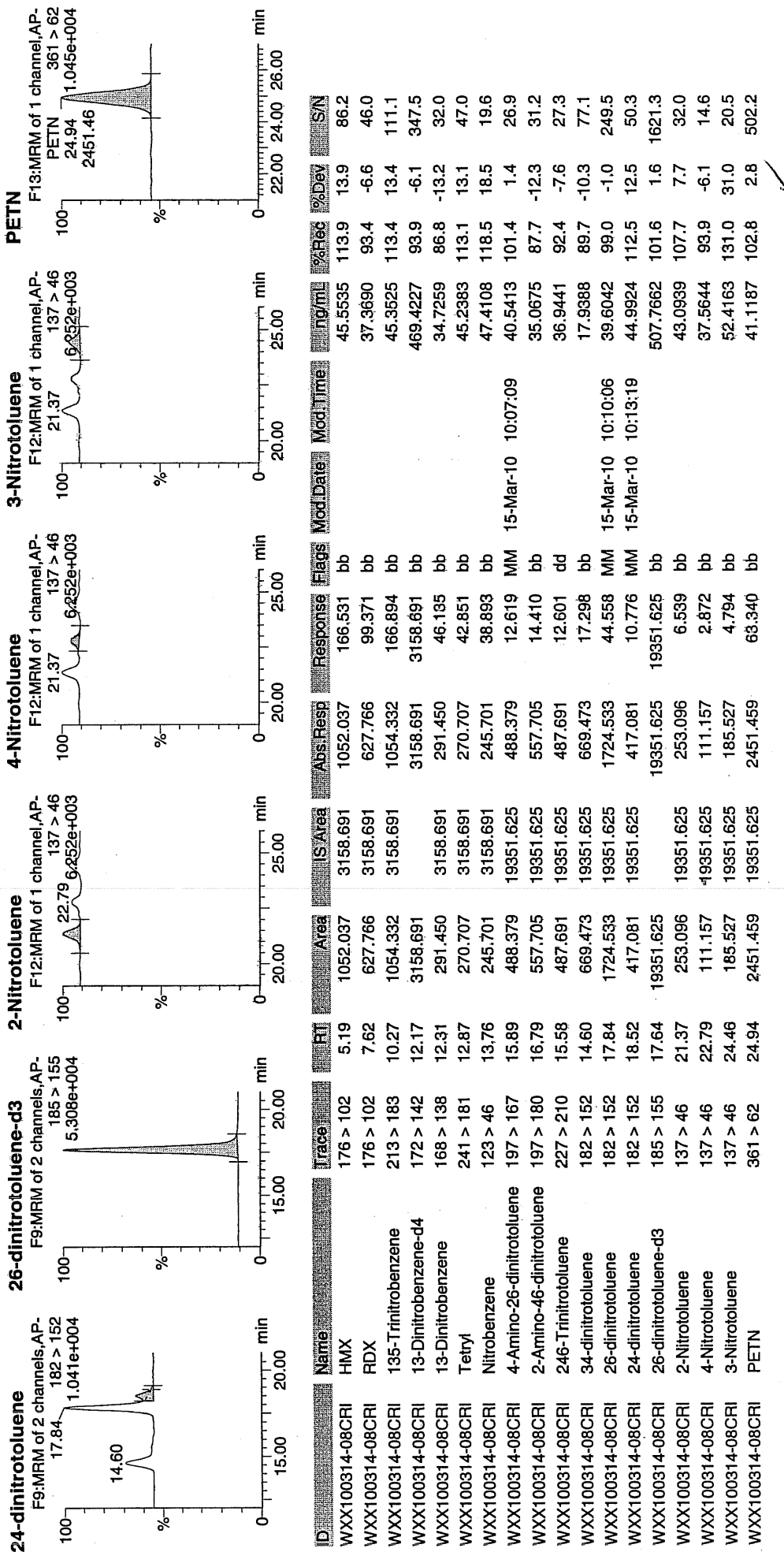
Vial: 1:1,C

WXX
3/15/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/14/10
 Time of Injection 2023
 Standard Number WXX100314-08CRI
 Data File EXP0314012a

HMX	113.9
RDX	93.4
135-TNB	113.4
13-DNB	86.8
Tetryl	113.1
Nitrobenzene	118.5
4A-26-DNT	101.4
2A-46-DNT	87.7
246-TNT	92.4
34-DNT(surr)	89.7
26-DNT	99.0
24-DNT	112.5
2-NT	107.7
4-NT	93.9
3-NT	131.0
PETN	102.8

1077
3/16/10

Total 1657.2

Average 103.6

Handwritten: #1111-03110110

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0314023a

Analysis Date: 15-MAR-10 01:47

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	600	569.786	95	
m-Nitrotoluene	600	571.208	95	
o-Nitrotoluene	600	576.388	96	
p-Nitrotoluene	600	572.801	95	
1,3,5-Trinitrobenzene	600	562.341	94	
1,3-Dinitrobenzene-d4	500	504.22	101	
2,4,6-Trinitrotoluene	600	632.951	105	
2,4-Dinitrotoluene	600	641.749	107	
2,6-Dinitrotoluene	600	629.098	105	
2,6-Dinitrotoluene-d3	500	542.493	108	
2-Amino-4,6-dinitrotoluene	600	610.437	102	
3,4-Dinitrotoluene	300	302.639	101	
4-Amino-2,6-dinitrotoluene	600	562.733	94	
HMX	600	609.823	102	
Nitrobenzene	600	631.179	105	
PETN	600	603.16	101	
RDX	600	680.646	113	
Tetryl	600	623.98	104	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314023a

Date: 15-Mar-2010

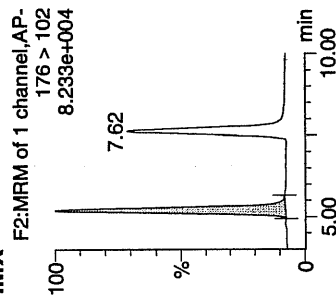
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ID: WXX100314-07CCV

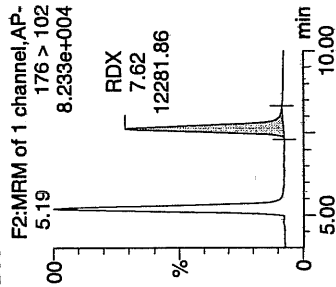
Vial: 1:1,B

WXX
3/15/10

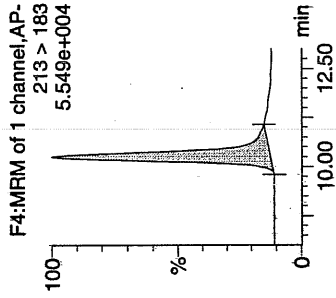
HMX



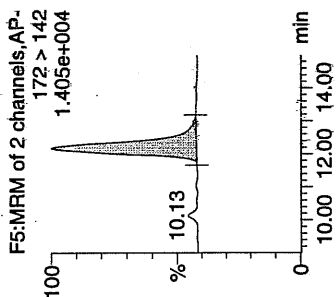
RDX



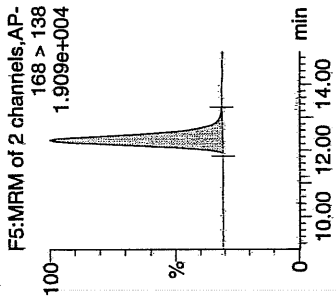
135-Trinitrobenzene



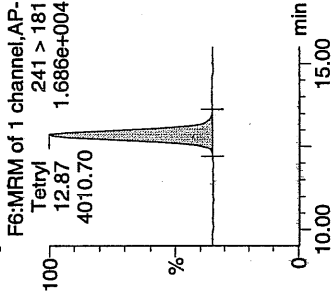
13-Dinitrobenzene-d4



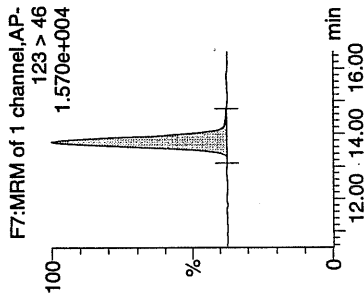
13-Dinitrobenzene



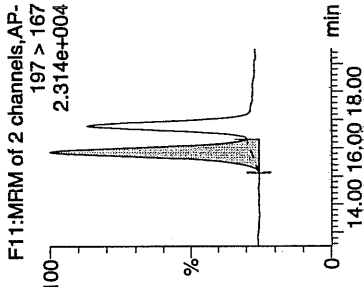
Tetryl



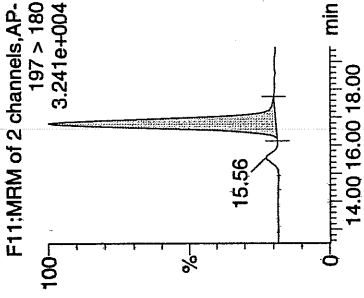
Nitrobenzene



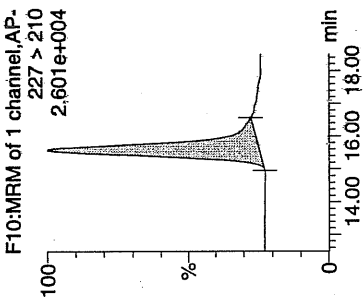
4-Amino-26-dinitrotoluene



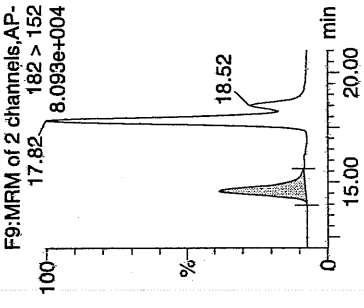
2-Amino-46-dinitrotoluene



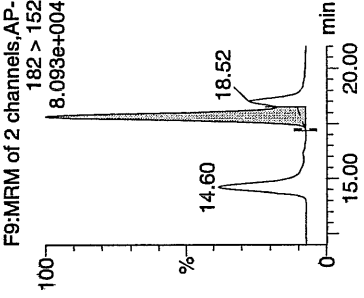
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



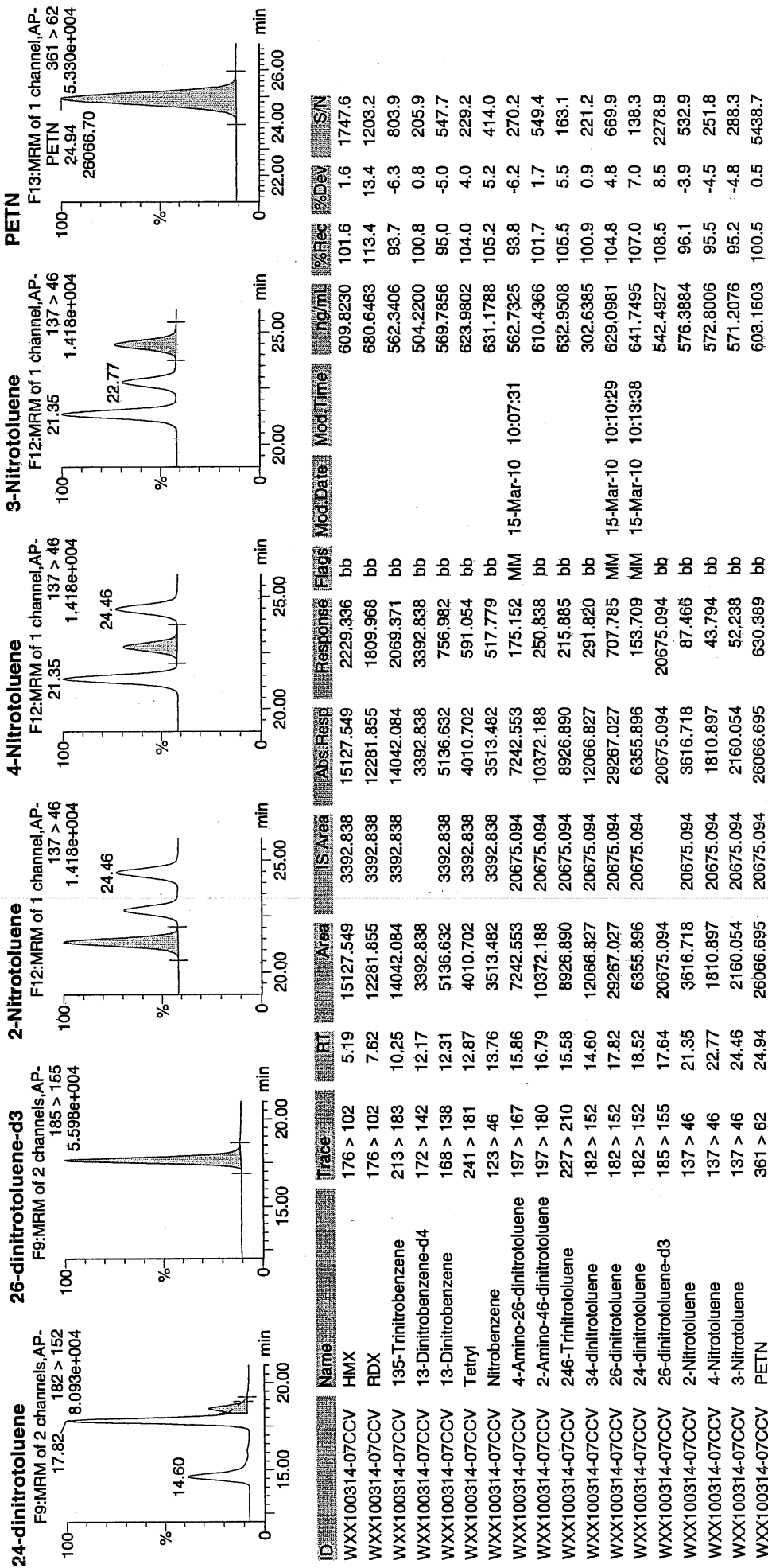
4/11/03 816110

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 46 of 77

Dataset: C:\MASSLYNX\New_Exp_PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/15/10
 Time of Injection: 0147
 Standard Number: WXX100314-07CCV
 Data File: EXP0314023a

HMX	101.6
RDX	113.4
135-TNB	93.7
13-DNB	95.0
Tetryl	104.0
Nitrobenzene	105.2
4A-26-DNT	93.8
2A-46-DNT	101.7
246-TNT	105.5
34-DNT(surr)	100.9
26-DNT	104.8
24-DNT	107.0
2-NT	96.1
4-NT	95.5
3-NT	95.2
PETN	100.5

Handwritten: 100.9
3/15/10

Total 1613.9

Average 100.9

Handwritten: Ann 03/16/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0314025a

Analysis Date: 15-MAR-10 02:46

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	50.069	125	
1,3-Dinitrobenzene-d4	500	524.134	105	
2,4,6-Trinitrotoluene	40	38.531	96	
2,4-Dinitrotoluene	40	40.483	101	
2,6-Dinitrotoluene	40	40.862	102	
2,6-Dinitrotoluene-d3	500	567.612	114	
2-Amino-4,6-dinitrotoluene	40	37.43	94	
3,4-Dinitrotoluene	20	16.97	85	
4-Amino-2,6-dinitrotoluene	40	43.966	110	
HMX	40	44.421	111	
Nitrobenzene	40	36.612	92	
PETN	40	36.431	91	
RDX	40	40.127	100	
Tetryl	40	45.808	115	
m-Dinitrobenzene	40	44.086	110	
m-Nitrotoluene	40	49.167	123	
o-Nitrotoluene	40	38.212	96	
p-Nitrotoluene	40	48.579	121	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314025a

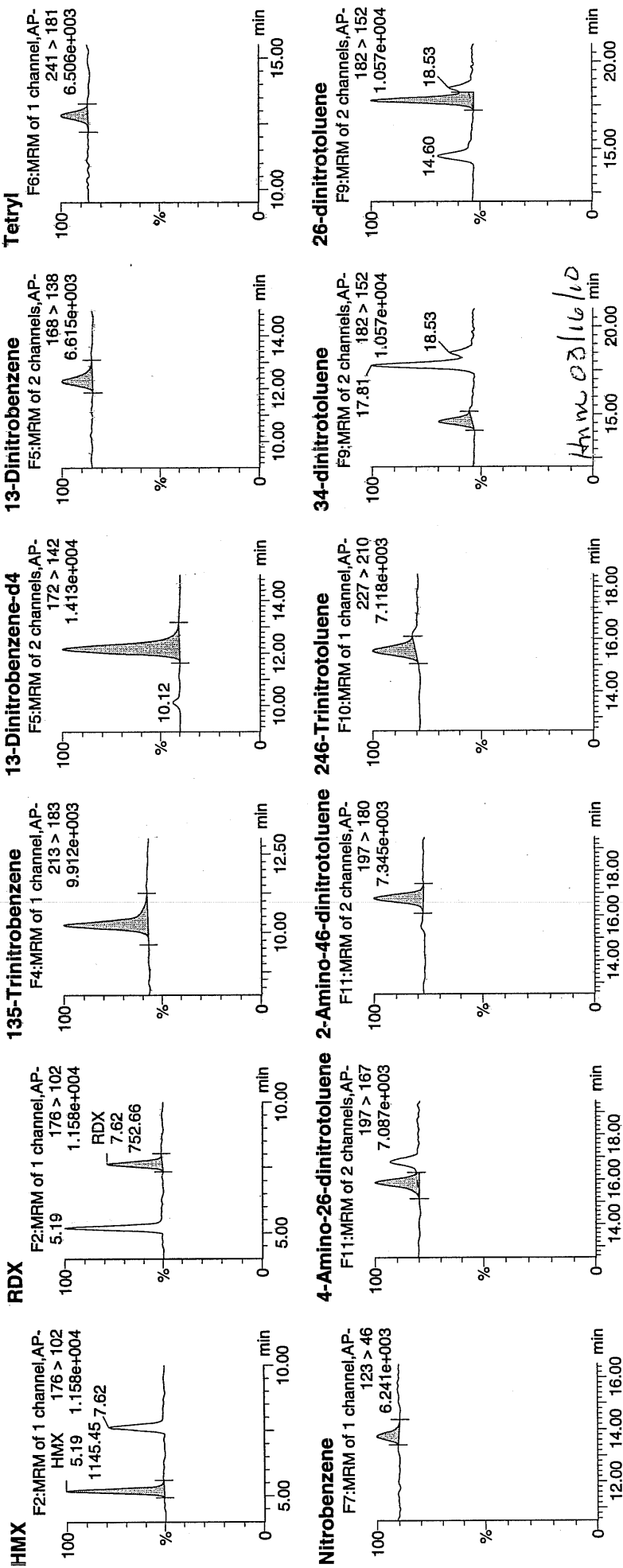
Date: 15-Mar-2010

Time: 02:46:30

ID: WXX100314-08CRI

Vial: 1:1,C

3/15/10



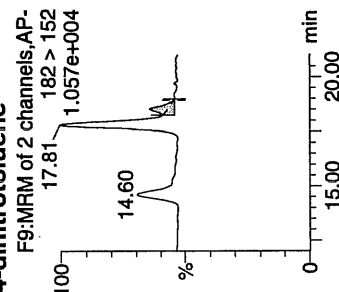
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

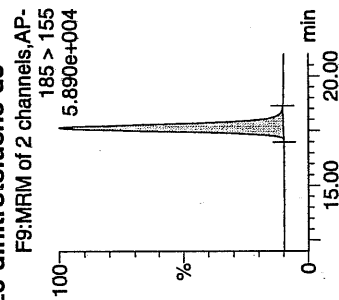
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Printed: Mon Mar 15 10:16:43 2010, Page 50 of 77

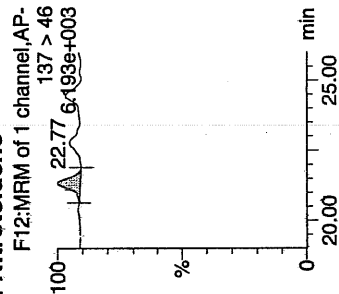
24-dinitrotoluene



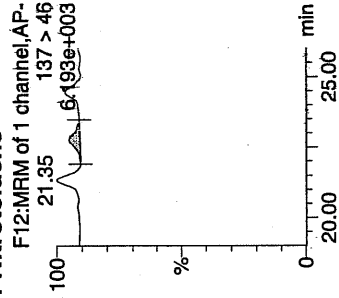
26-dinitrotoluene-d3



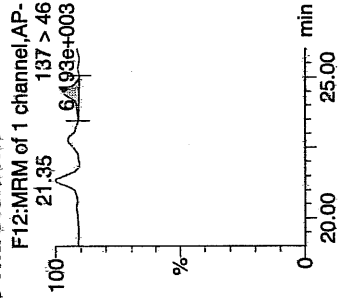
2-Nitrotoluene



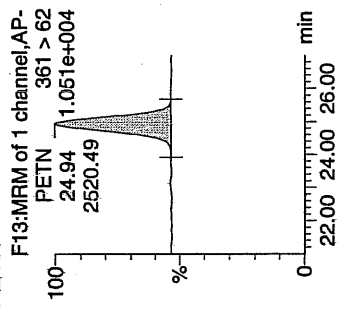
4-Nitrotoluene



3-Nitrotoluene



PETN



D	Name	Trace	RT	Area	SArea	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN
WXX100314-08CRI	HMX	176 > 102	5.19	1145.450	3526.837	1145.450	162.391	bb			44.4211	111.1	11.1	171.9
WXX100314-08CRI	RDX	176 > 102	7.62	752.662	3526.837	752.662	106.705	bb			40.1269	100.3	0.3	97.9
WXX100314-08CRI	135-Trinitrobenzene	213 > 183	10.25	1299.630	3526.837	1299.630	184.249	bb			50.0686	125.2	25.2	240.0
WXX100314-08CRI	13-Dinitrobenzene-d4	172 > 142	12.17	3526.837		3526.837	3526.837	bb			524.1340	104.8	4.8	185.8
WXX100314-08CRI	13-Dinitrobenzene	168 > 138	12.31	413.131		413.131	58.570	bb			44.0858	110.2	10.2	49.6
WXX100314-08CRI	Tetryl	241 > 181	12.82	306.066		306.066	43.391	bb			45.8082	114.5	14.5	23.8
WXX100314-08CRI	Nitrobenzene	123 > 46	13.76	211.853		211.853	30.034	bb			36.6123	91.5	-8.5	14.8
WXX100314-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.86	592.052	21632.408	592.052	13.684	MM	15-Mar-10	10:07:38	43.9656	109.9	9.9	60.7
WXX100314-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.78	665.430	21632.408	665.430	15.380	bb			37.4296	93.6	-6.4	51.8
WXX100314-08CRI	246-Trinitrotoluene	227 > 210	15.58	568.581	21632.408	568.581	13.142	bb			38.5305	96.3	-3.7	105.8
WXX100314-08CRI	34-dinitrotoluene	182 > 152	14.60	707.952	21632.408	707.952	16.363	bb			16.9698	84.8	-15.2	30.2
WXX100314-08CRI	26-dinitrotoluene	182 > 152	17.81	1989.013	21632.408	1989.013	45.973	MM	15-Mar-10	10:10:41	40.8620	102.2	2.2	91.1
WXX100314-08CRI	24-dinitrotoluene	182 > 152	18.53	419.512	21632.408	419.512	9.696	MM	15-Mar-10	10:13:51	40.4833	101.2	1.2	19.8
WXX100314-08CRI	26-dinitrotoluene-d3	185 > 155	17.64	21632.408		21632.408	21632.408	bb			567.6116	113.5	13.5	1412.3
WXX100314-08CRI	2-Nitrotoluene	137 > 46	21.35	250.877	21632.408	250.877	5.799	bb			38.2124	95.5	-4.5	59.9
WXX100314-08CRI	4-Nitrotoluene	137 > 46	22.77	160.691	21632.408	160.691	3.714	bb			48.5785	121.4	21.4	28.4
WXX100314-08CRI	3-Nitrotoluene	137 > 46	24.45	194.536	21632.408	194.536	4.496	bb			49.1668	122.9	22.9	38.2
WXX100314-08CRI	PETN	361 > 62	24.94	2520.485	21632.408	2520.485	58.257	bb			36.4306	91.1	-8.9	1426.6

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/15/10
 Time of Injection 0246
 Standard Number WXX100314-08CRI
 Data File EXP0314025a

HMX	111.1	✓
RDX	100.3	✓
135-TNB	125.2	✓
13-DNB	110.2	
Tetryl	114.5	
Nitrobenzene	91.5	
4A-26-DNT	109.9	
2A-46-DNT	93.6	
246-TNT	96.3	
34-DNT(surr)	84.8	
26-DNT	102.2	
24-DNT	101.2	
2-NT	95.5	
4-NT	121.4	
3-NT	122.9	
PETN	91.1	
Total	1671.7	

*WTP
3/15/10*

Average

104.5

#7111C 03/16/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0314036a

Analysis Date: 15-MAR-10 08:10

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	609.929	102	
1,3-Dinitrobenzene-d4	500	517.182	103	
2,4,6-Trinitrotoluene	600	642.971	107	
2,4-Dinitrotoluene	600	669.08	112	
2,6-Dinitrotoluene	600	616.33	103	
2,6-Dinitrotoluene-d3	500	508.481	102	
2-Amino-4,6-dinitrotoluene	600	608.331	101	
3,4-Dinitrotoluene	300	325.574	109	
4-Amino-2,6-dinitrotoluene	600	590.851	98	
HMX	600	632.345	105	
Nitrobenzene	600	569.416	95	
PETN	600	689.279	115	
RDX	600	722.585	120	*
Tetryl	600	579.696	97	
m-Dinitrobenzene	600	560.181	93	
m-Nitrotoluene	600	561.892	94	
o-Nitrotoluene	600	556.526	93	
p-Nitrotoluene	600	547.013	91	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

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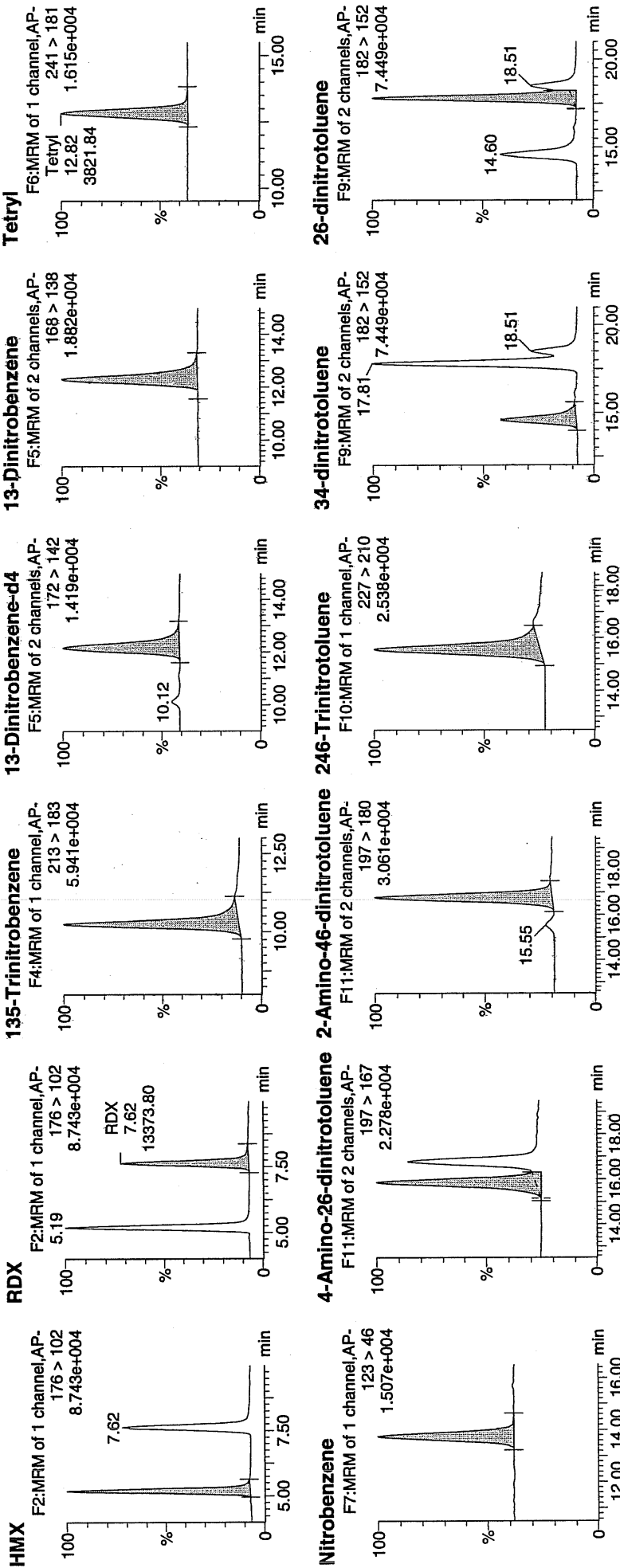
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Time: 08:10:45

ID: WXX100314-07CCV

Vial: 1:1,B

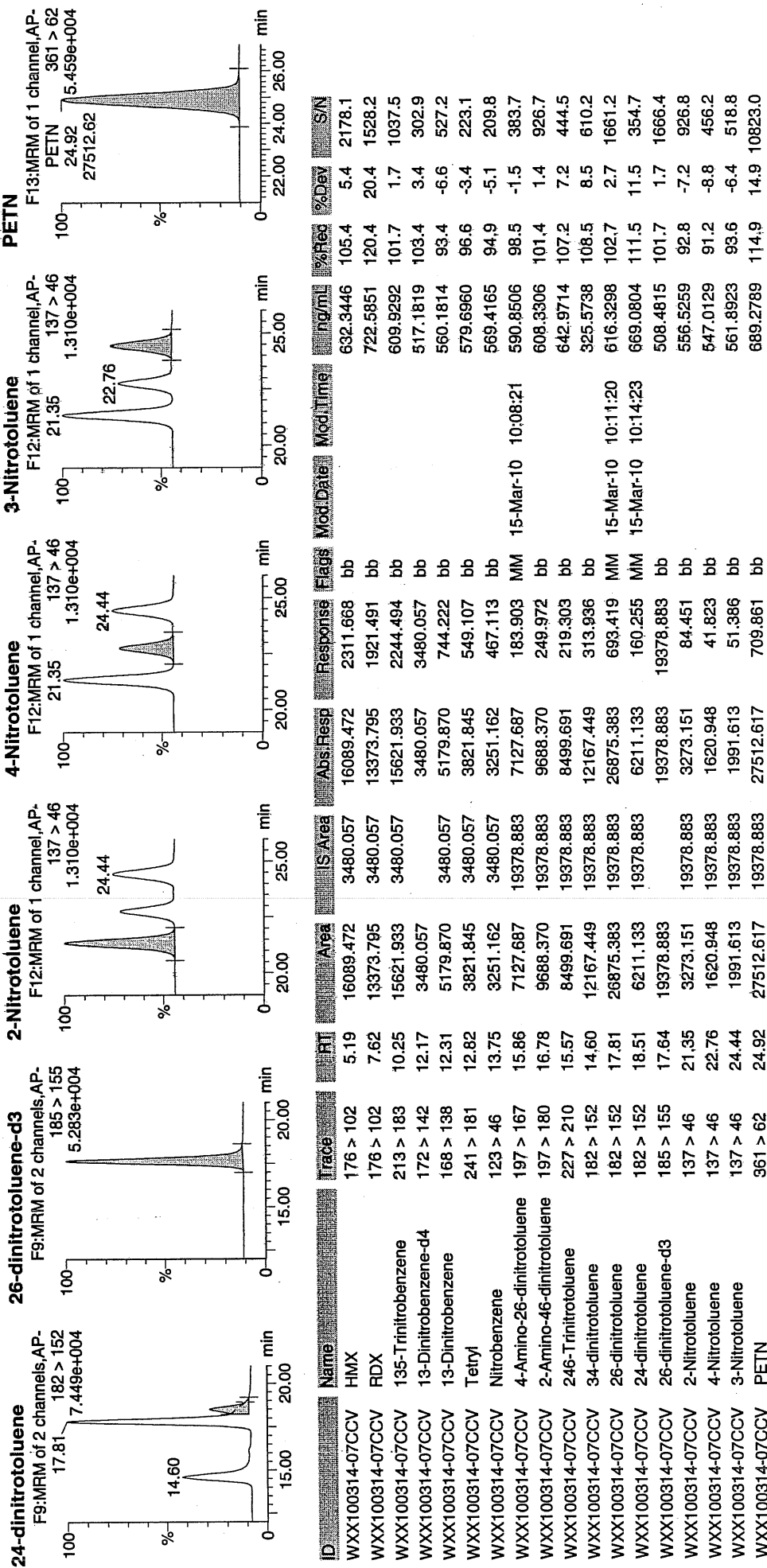
Handwritten: 1/15/10



Handwritten: 03/16/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/15/10
 Time of Injection: 0810
 Standard Number: WXX100314-07CCV
 Data File: EXP0314036a

HMX	105.4
RDX	120.4
135-TNB	101.7
13-DNB	93.4
Tetryl	96.6
Nitrobenzene	94.9
4A-26-DNT	98.5
2A-46-DNT	101.4
246-TNT	107.2
34-DNT(surr)	108.5
26-DNT	102.7
24-DNT	111.5
2-NT	92.8
4-NT	91.2
3-NT	93.6
PETN	114.9

*MAP
3/15/10*

Total 1634.7

WXX100314-07CCV

Average 102.2

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0314038a

Analysis Date: 15-MAR-10 09:09

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	40	37.305	93	
PETN	40	35.681	89	
RDX	40	42.458	106	
Tetryl	40	44.148	110	
m-Dinitrobenzene	40	40.014	100	
m-Nitrotoluene	40	35.958	90	
o-Nitrotoluene	40	39.196	98	
p-Nitrotoluene	40	32.343	81	
HMX	40	48.581	121	
1,3,5-Trinitrobenzene	40	48.08	120	
1,3-Dinitrobenzene-d4	500	561.739	112	
2,4,6-Trinitrotoluene	40	42.509	106	
2,4-Dinitrotoluene	40	42.725	107	
2,6-Dinitrotoluene	40	40.07	100	
2,6-Dinitrotoluene-d3	500	609.223	122	
2-Amino-4,6-dinitrotoluene	40	39.73	99	
3,4-Dinitrotoluene	20	20.324	102	
4-Amino-2,6-dinitrotoluene	40	38.401	96	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314038a

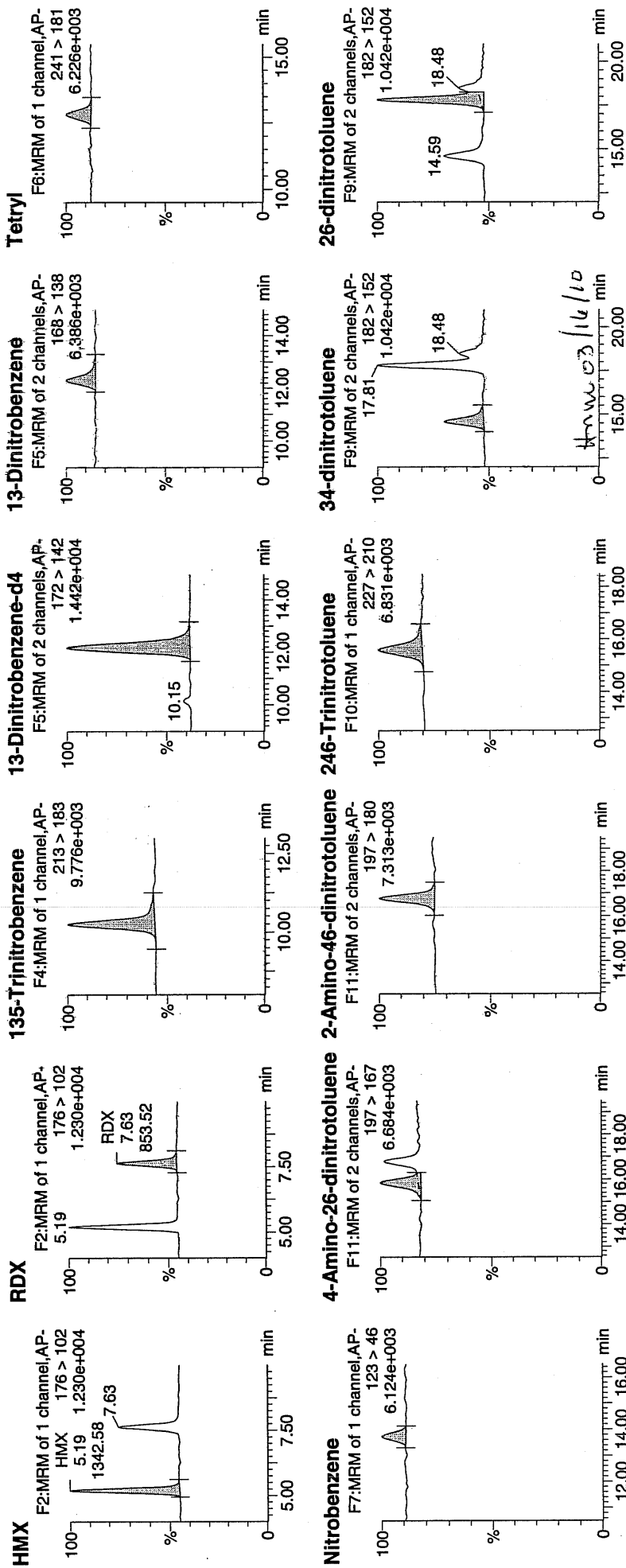
Date: 15-Mar-2010

Time: 09:09:49

ID: WXX100314-08CRI

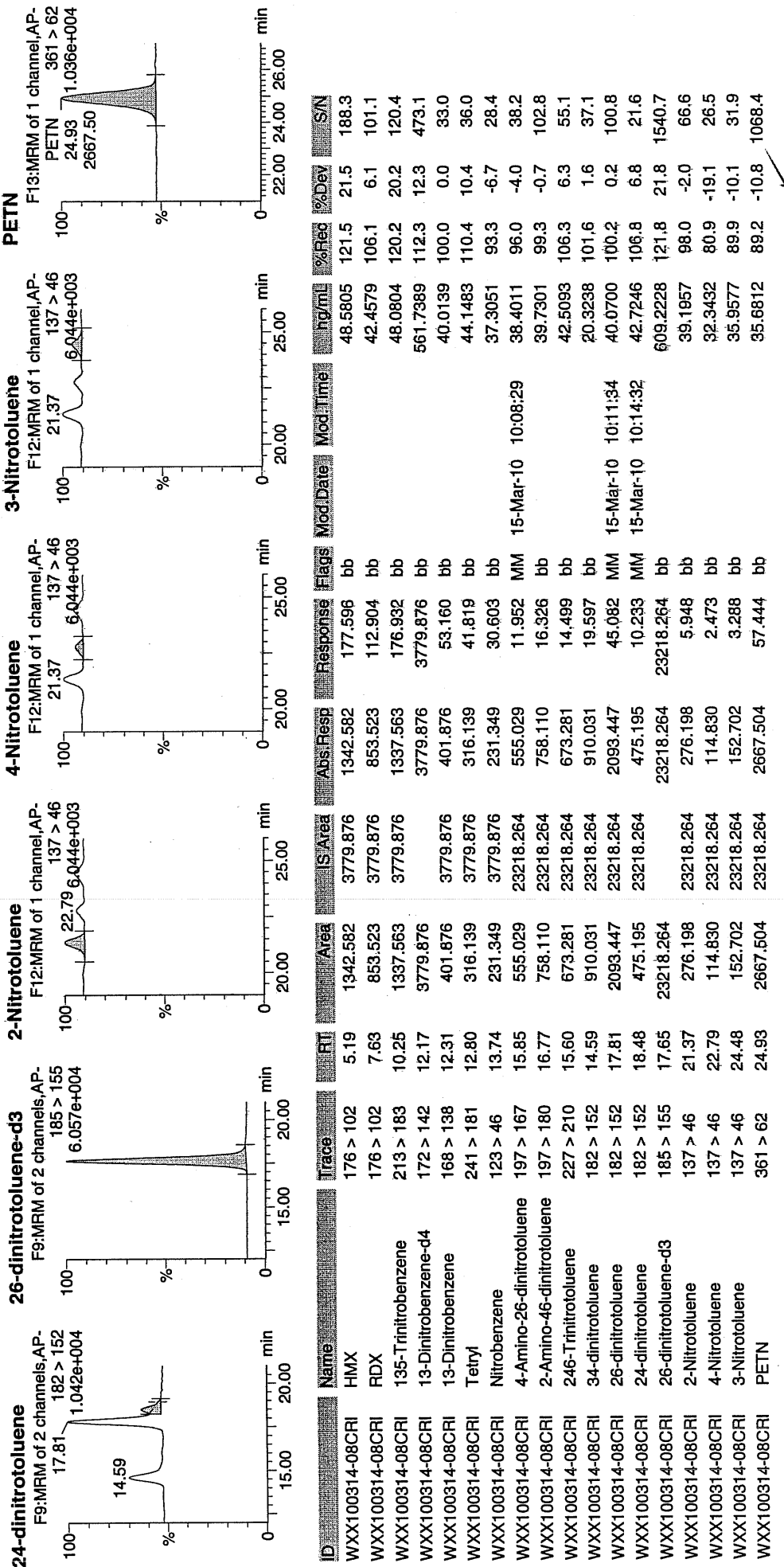
Vial: 1:1,C

Handwritten: *3/15/10*



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1031410expA.qld, Time: Mon Mar 15 10:15:48 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/15/10
 Time of Injection 0909
 Standard Number WXX100314-08CRI
 Data File EXP0314038a

HMX	121.5
RDX	106.1
135-TNB	120.2
13-DNB	100.0
Tetryl	110.4
Nitrobenzene	93.3
4A-26-DNT	96.0
2A-46-DNT	99.3
246-TNT	106.3
34-DNT(surr)	101.6
26-DNT	100.2
24-DNT	106.8
2-NT	98.0
4-NT	80.9
3-NT	89.9
PETN	89.2
Total	1619.7

*MTA
3/15/10*

Average

101.2

4/11/10 03/16/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0314049a

Analysis Date: 15-MAR-10 14:34

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
o-Nitrotoluene	600	587.568	98	
p-Nitrotoluene	600	596.13	99	
1,3,5-Trinitrobenzene	600	620.69	103	
1,3-Dinitrobenzene-d4	500	475.67	95	
2,4,6-Trinitrotoluene	600	706.598	118	
2,4-Dinitrotoluene	600	593.774	99	
2,6-Dinitrotoluene	600	605.222	101	
2,6-Dinitrotoluene-d3	500	510.525	102	
2-Amino-4,6-dinitrotoluene	600	769.978	128	*
3,4-Dinitrotoluene	300	335.398	112	
4-Amino-2,6-dinitrotoluene	600	669.047	112	
HMX	600	851.427	142	*
Nitrobenzene	600	638.469	106	
PETN	600	665.533	111	
RDX	600	855.282	143	*
Tetryl	600	679.537	113	
m-Dinitrobenzene	600	592.924	99	
m-Nitrotoluene	600	566.82	94	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Mar 16 09:29:05 2010, Page 21 of 79

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

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Date: 15-Mar-2010

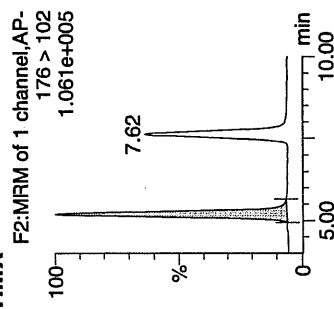
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ID: WXX100314-07CCV

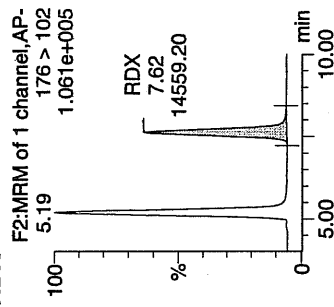
Vial: 1:1,B

MTT
3/16/10

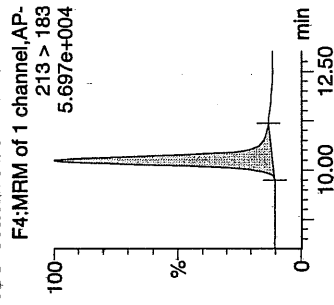
HMX



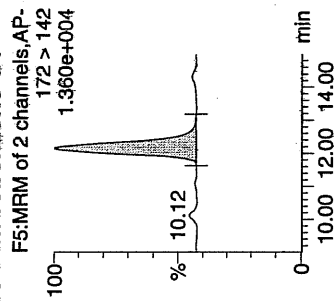
RDX



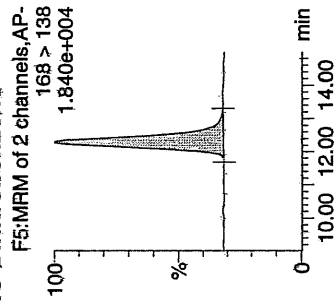
135-Trinitrobenzene



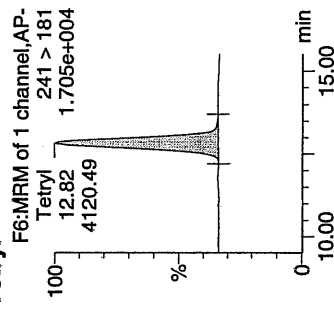
13-Dinitrobenzene-d4



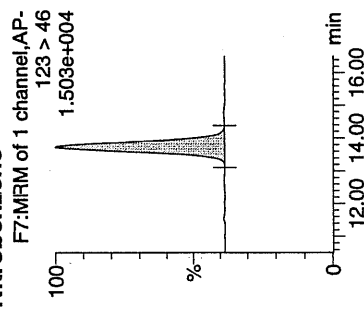
13-Dinitrobenzene



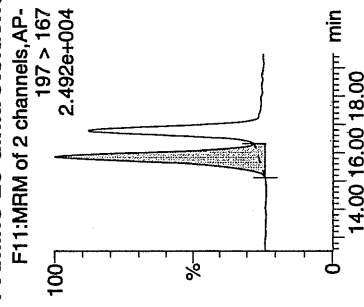
Tetryl



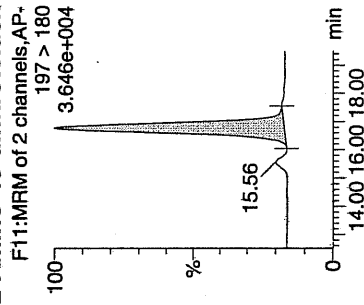
Nitrobenzene



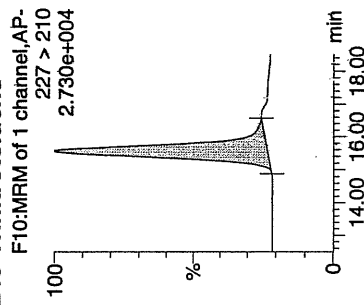
4-Amino-26-dinitrotoluene



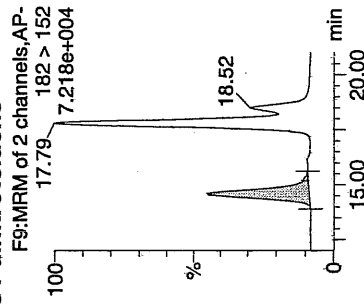
2-Amino-46-dinitrotoluene



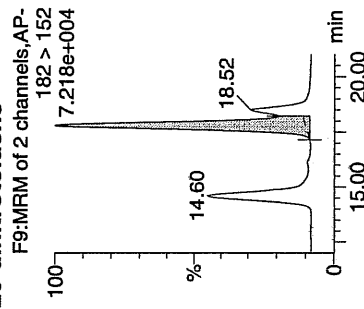
246-Trinitrotoluene



34-dinitrotoluene

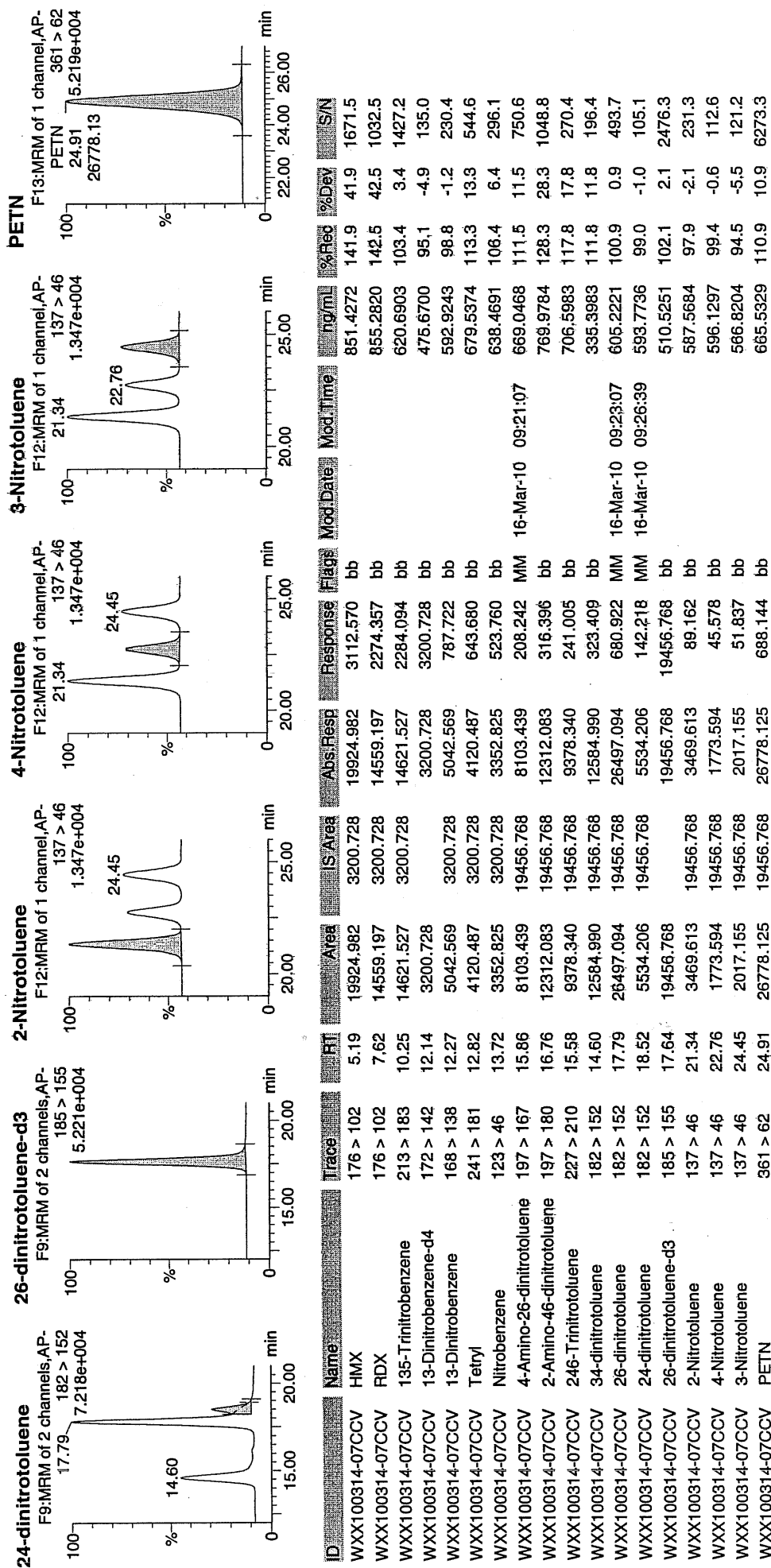


26-dinitrotoluene



Handwritten signature/initials.

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/15/10
 Time of Injection: 1434
 Standard Number: WXX100314-07CCV
 Data File: EXP0314049a

HMX	141.9
RDX	142.5
135-TNB	103.4
13-DNB	98.8
Tetryl	113.3
Nitrobenzene	106.4
4A-26-DNT	111.5
2A-46-DNT	128.3
246-TNT	117.8
34-DNT(surr)	111.8
26-DNT	100.9
24-DNT	99.0
2-NT	97.9
4-NT	99.4
3-NT	94.5
PETN	110.9

*WXP
3/16/10*

Total 1778.3

Average 111.1

HMM 03/16/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0314051a

Analysis Date: 15-MAR-10 15:33

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	41.397	103	
1,3-Dinitrobenzene-d4	500	464.716	93	
2,4,6-Trinitrotoluene	40	51.218	128	
2,4-Dinitrotoluene	40	34.919	87	
2,6-Dinitrotoluene	40	41.463	104	
2,6-Dinitrotoluene-d3	500	555.566	111	
2-Amino-4,6-dinitrotoluene	40	30.239	76	
3,4-Dinitrotoluene	20	22.214	111	
4-Amino-2,6-dinitrotoluene	40	40.225	101	
HMX	40	47.565	119	
Nitrobenzene	40	44.5	111	
PETN	40	42.63	107	
RDX	40	43.799	109	
Tetryl	40	53.694	134	*
m-Dinitrobenzene	40	39.539	99	
m-Nitrotoluene	40	39.643	99	
o-Nitrotoluene	40	38.496	96	
p-Nitrotoluene	40	45.625	114	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp_PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

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Date: 15-Mar-2010

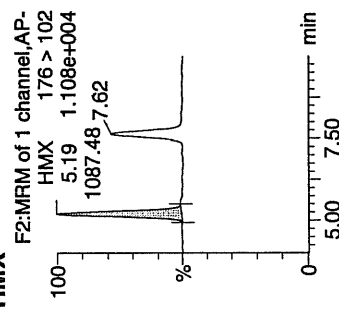
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ID: WXX100314-08CRI

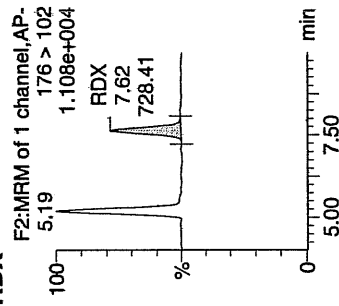
Vial: 1:1,C

WXX
3/16/10

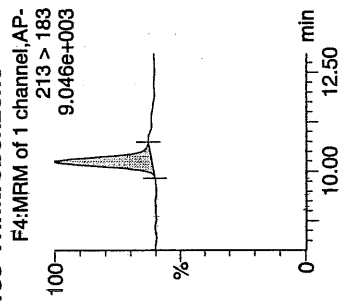
HMX



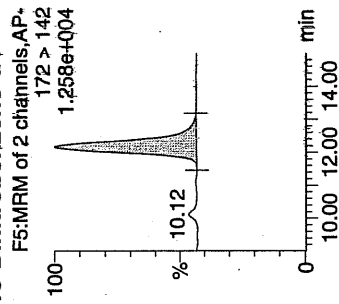
RD



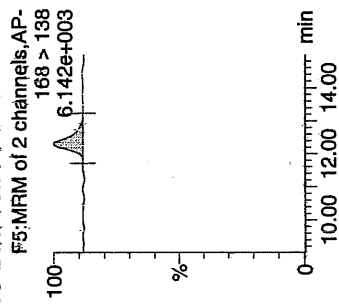
135-Trinitrobenzene



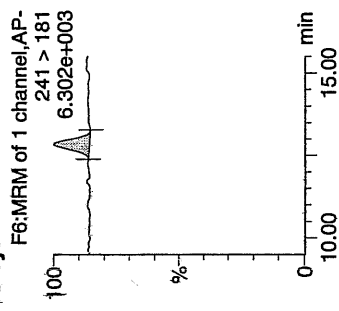
13-Dinitrobenzene-d4



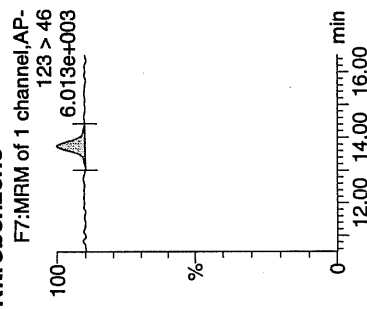
13-Dinitrobenzene



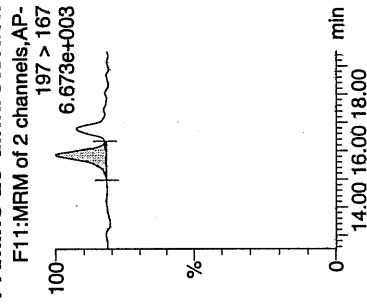
Tetryl



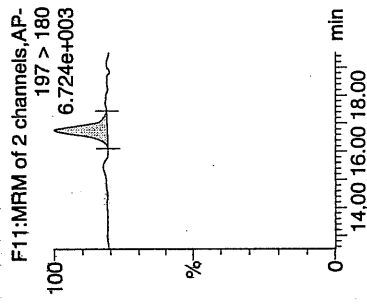
Nitrobenzene



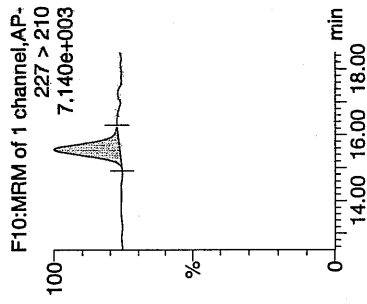
4-Amino-26-dinitrotoluene



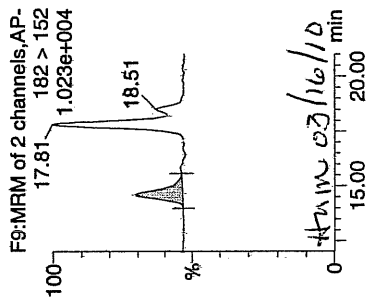
2-Amino-46-dinitrotoluene



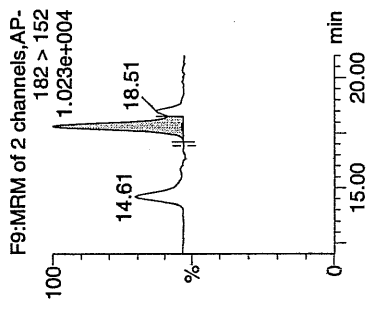
246-Trinitrotoluene



34-dinitrotoluene

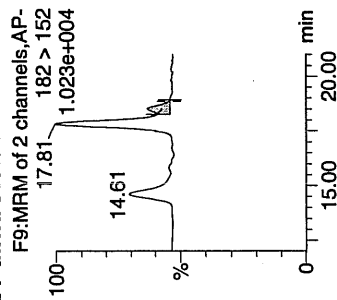


26-dinitrotoluene

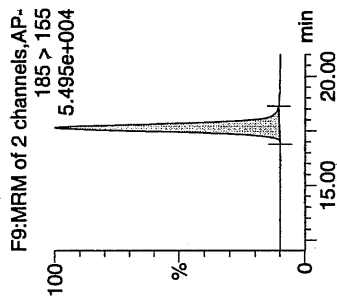


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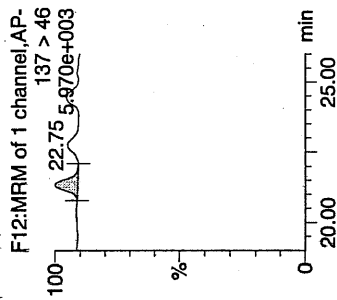
24-dinitrotoluene



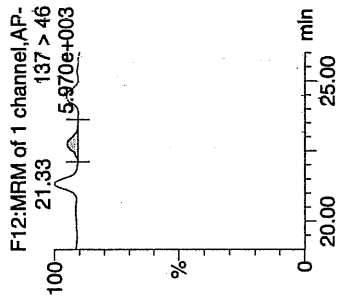
26-dinitrotoluene-d3



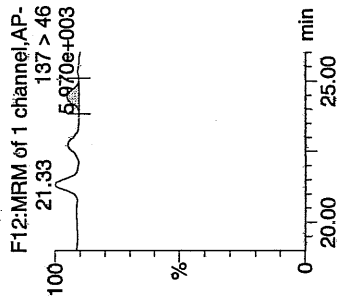
2-Nitrotoluene



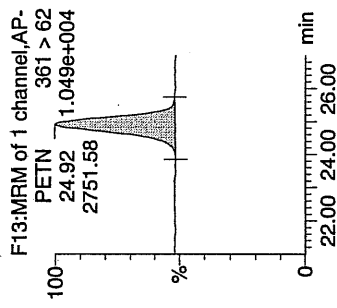
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN
WXX100314-08CRI	HMX	176 > 102	5.19	1087.483	3127.018	1087.483	173.885	bb			47.5653	118.9	18.9	241.8
WXX100314-08CRI	RDX	176 > 102	7.62	728.407	3127.018	728.407	116.470	bb			43.7990	109.5	9.5	137.8
WXX100314-08CRI	135-Trinitrobenzene	213 > 183	10.25	952.715	3127.018	952.715	152.336	bb			41.3965	103.5	3.5	120.3
WXX100314-08CRI	13-Dinitrobenzene-d4	172 > 142	12.18	3127.018		3127.018	3127.018	bb			464.7157	92.9	-7.1	890.3
WXX100314-08CRI	13-Dinitrobenzene	168 > 138	12.31	328.520	3127.018	328.520	52.529	bb			39.5392	98.8	-1.2	27.3
WXX100314-08CRI	Tetryl	241 > 181	12.83	318.085	3127.018	318.085	50.861	bb			53.6941	134.2	34.2	31.9
WXX100314-08CRI	Nitrobenzene	123 > 46	13.76	228.301	3127.018	228.301	36.505	bb			44.4995	111.2	11.2	20.1
WXX100314-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.86	530.187	21173.322	530.187	12.520	MM	16-Mar-10	09:20:57	40.2252	100.6	0.6	35.1
WXX100314-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.76	526.182	21173.322	526.182	12.426	bb			30.2388	75.6	-24.4	48.7
WXX100314-08CRI	246-Trinitrotoluene	227 > 210	15.55	739.771	21173.322	739.771	17.469	bb			51.2184	128.0	28.0	91.2
WXX100314-08CRI	34-dinitrotoluene	182 > 152	14.61	907.075	21173.322	907.075	21.420	bb			22.2143	111.1	11.1	23.0
WXX100314-08CRI	26-dinitrotoluene	182 > 152	17.81	1975.418	21173.322	1975.418	46.649	MM	16-Mar-10	09:23:19	41.4627	103.7	3.7	61.9
WXX100314-08CRI	24-dinitrotoluene	182 > 152	18.51	354.175	21173.322	354.175	8.364	MM	16-Mar-10	09:26:28	34.9193	87.3	-12.7	12.3
WXX100314-08CRI	26-dinitrotoluene-d3	185 > 155	17.84	21173.322		21173.322	21173.322	bb			555.5657	111.1	11.1	1649.4
WXX100314-08CRI	2-Nitrotoluene	137 > 46	21.33	247.376	21173.322	247.376	5.842	bb			38.4961	96.2	-3.8	65.5
WXX100314-08CRI	4-Nitrotoluene	137 > 46	22.75	147.717	21173.322	147.717	3.488	bb			45.6246	114.1	14.1	31.3
WXX100314-08CRI	3-Nitrotoluene	137 > 46	24.44	153.525	21173.322	153.525	3.625	bb			39.6430	99.1	-0.9	34.2
WXX100314-08CRI	PETN	361 > 62	24.92	2751.584	21173.322	2751.584	64.978	bb			42.6304	106.6	6.6	274.2

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/15/10
 Time of Injection 1533
 Standard Number WXX100314-08CRI
 Data File EXP0314051a

HMX	118.9
RDX	109.5
135-TNB	103.5
13-DNB	98.8
Tetryl	134.2
Nitrobenzene	111.2
4A-26-DNT	100.6
2A-46-DNT	75.6
246-TNT	128.0
34-DNT(surr)	111.1
26-DNT	103.7
24-DNT	87.3
2-NT	96.2
4-NT	114.1
3-NT	99.1
PETN	106.6

*mtt
3/16/10*

Total 1698.4

Average 106.2

Hmm 03/16/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0314062a

Analysis Date: 15-MAR-10 20:58

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	608.865	101	
1,3-Dinitrobenzene-d4	500	462.899	93	
2,4,6-Trinitrotoluene	600	558.522	93	
2,4-Dinitrotoluene	600	603.291	101	
2,6-Dinitrotoluene	600	619.778	103	
2,6-Dinitrotoluene-d3	500	557.336	111	
2-Amino-4,6-dinitrotoluene	600	671.295	112	
3,4-Dinitrotoluene	300	275.546	92	
4-Amino-2,6-dinitrotoluene	600	514.089	86	
HMX	600	728	121	*
Nitrobenzene	600	640.349	107	
PETN	600	601.907	100	
RDX	600	702.374	117	
Tetryl	600	601.516	100	
m-Dinitrobenzene	600	570.456	95	
m-Nitrotoluene	600	585.575	98	
o-Nitrotoluene	600	558.255	93	
p-Nitrotoluene	600	574.305	96	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314062a

Date: 15-Mar-2010

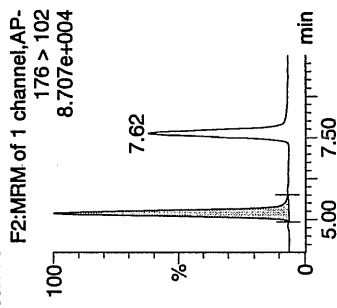
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ID: WXX100314-07CCV

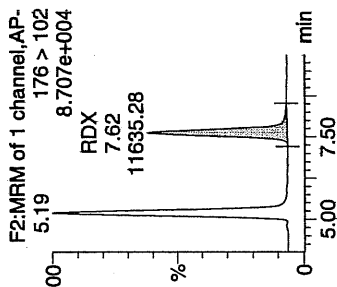
Vial: 1:1,B

WAT
3/16/10

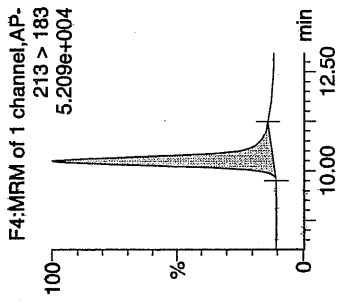
HMX



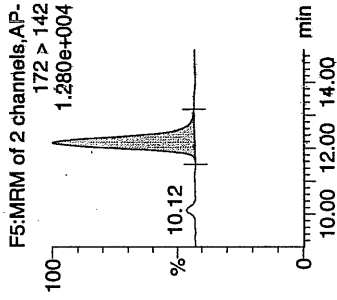
RDX



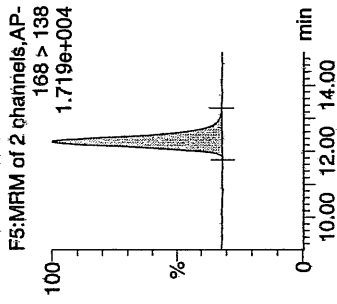
135-Trinitrobenzene



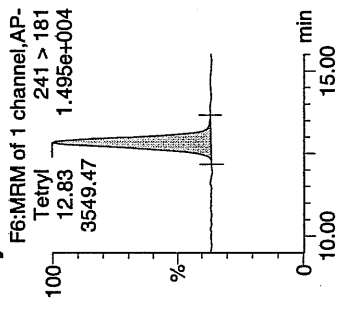
13-Dinitrobenzene-d4



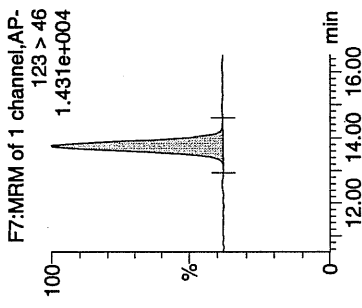
13-Dinitrobenzene



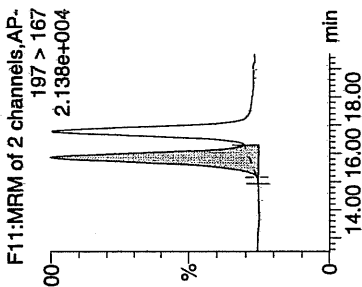
Tetryl



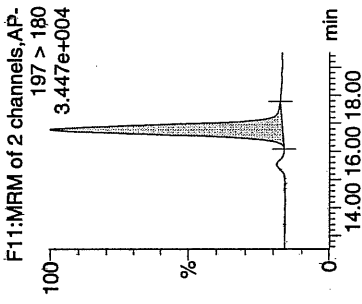
Nitrobenzene



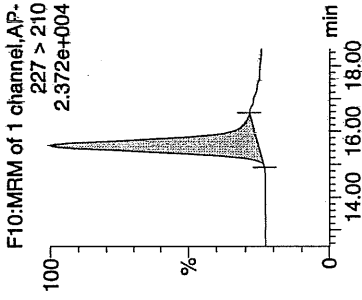
4-Amino-26-dinitrotoluene



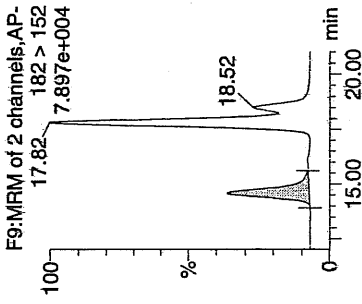
2-Amino-46-dinitrotoluene



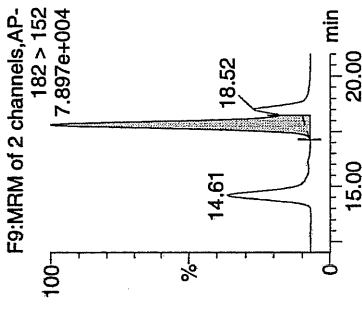
246-Trinitrotoluene



34-dinitrotoluene



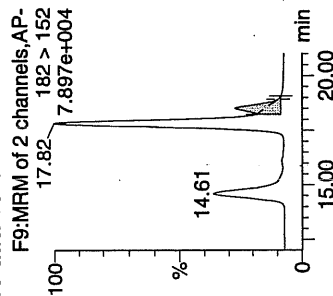
26-dinitrotoluene



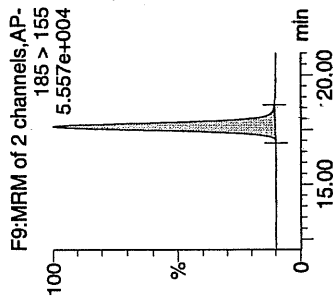
HW
03/16/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

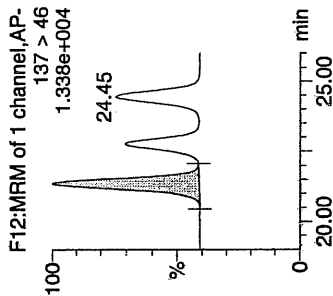
24-dinitrotoluene



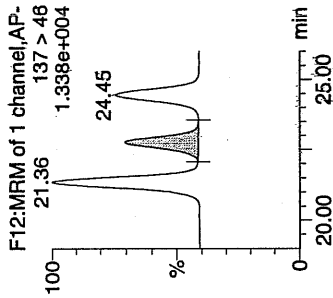
26-dinitrotoluene-d3



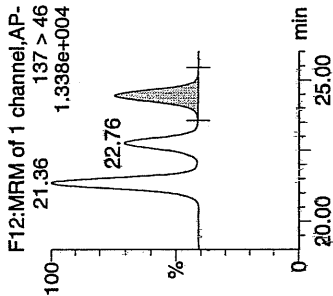
2-Nitrotoluene



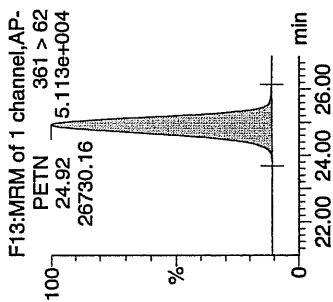
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	SArea	AbsResp	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	SN
WXX100314-07CCV	HMX	176 > 102	5.19	16579.156	3114.794	16579.156	2661.357	dd			728.0001	121.3	21.3	1773.0
WXX100314-07CCV	RDX	176 > 102	7.62	11635.279	3114.794	11635.279	1867.745	bb			702.3735	17.1	17.1	1055.6
WXX100314-07CCV	135-Trinitrobenzene	213 > 183	10.25	13957.884	3114.794	13957.884	2240.579	bb			608.8653	101.5	1.5	898.8
WXX100314-07CCV	13-Dinitrobenzene-d4	172 > 142	12.18	3114.794		3114.794	3114.794	bb			482.8990	92.6	-7.4	98.3
WXX100314-07CCV	13-Dinitrobenzene	168 > 138	12.28	4721.235	3114.794	4721.235	757.873	bb			570.4564	95.1	-4.9	447.9
WXX100314-07CCV	Tetryl	241 > 181	12.83	3549.465	3114.794	3549.465	569.775	bb			601.5159	100.3	0.3	597.7
WXX100314-07CCV	Nitrobenzene	123 > 46	13.76	3272.412	3114.794	3272.412	525.302	bb			640.3485	106.7	6.7	279.2
WXX100314-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.86	6797.534	21240.793	6797.534	160.011	MM	16-Mar-10	09:20:38	514.0892	85.7	-14.3	224.0
WXX100314-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.79	11718.349	21240.793	11718.349	275.845	bb			671.2950	111.9	11.9	1153.2
WXX100314-07CCV	246-Trinitrotoluene	227 > 210	15.58	8092.708	21240.793	8092.708	190.499	bb			558.5222	93.1	-6.9	479.5
WXX100314-07CCV	34-dinitrotoluene	182 > 152	14.61	11287.207	21240.793	11287.207	285.696	bb			275.5462	91.8	-8.2	359.5
WXX100314-07CCV	26-dinitrotoluene	182 > 152	17.82	29622.371	21240.793	29622.371	697.299	MM	16-Mar-10	09:23:33	619.7782	103.3	3.3	1148.8
WXX100314-07CCV	24-dinitrotoluene	182 > 152	18.52	6138.487	21240.793	6138.487	144.498	MM	16-Mar-10	09:26:08	603.2910	100.5	0.5	233.9
WXX100314-07CCV	26-dinitrotoluene-d3	185 > 155	17.64	21240.793		21240.793	21240.793	bb			557.3360	111.5	11.5	1335.2
WXX100314-07CCV	2-Nitrotoluene	137 > 46	21.36	3598.778	21240.793	3598.778	84.714	bb			558.2548	93.0	-7.0	224.9
WXX100314-07CCV	4-Nitrotoluene	137 > 46	22.76	1865.332	21240.793	1865.332	43.909	bb			574.3051	95.7	-4.3	111.3
WXX100314-07CCV	3-Nitrotoluene	137 > 46	24.45	2274.975	21240.793	2274.975	53.552	bb			585.5754	97.6	-2.4	126.2
WXX100314-07CCV	PETN	361 > 62	24.92	26730.164	21240.793	26730.164	629.218	bb			601.9069	100.3	0.3	9654.7

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/15/10
 Time of Injection: 2058
 Standard Number: WXX100314-07CCV
 Data File: EXP0314062a

HMX	121.3
RDX	117.1
135-TNB	101.5
13-DNB	95.1
Tetryl	100.3
Nitrobenzene	106.7
4A-26-DNT	85.7
2A-46-DNT	111.9
246-TNT	93.1
34-DNT(surr)	91.8
26-DNT	103.3
24-DNT	100.5
2-NT	93.0
4-NT	95.7
3-NT	97.6
PETN	100.3

*MTF
3/16/10*

Total 1614.9

Average 100.9

Sum 03/16/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0314064a

Analysis Date: 15-MAR-10 21:57

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4,6-Trinitrotoluene	40	35.914	90	
2,4-Dinitrotoluene	40	36.557	91	
2,6-Dinitrotoluene	40	41.448	104	
2,6-Dinitrotoluene-d3	500	520.408	104	
2-Amino-4,6-dinitrotoluene	40	41.797	104	
3,4-Dinitrotoluene	20	20.089	100	
4-Amino-2,6-dinitrotoluene	40	36.875	92	
HMX	40	48.11	120	
Nitrobenzene	40	49.493	124	
PETN	40	45.842	115	
RDX	40	46.467	116	
Tetryl	40	40.921	102	
m-Dinitrobenzene	40	36.925	92	
m-Nitrotoluene	40	38.328	96	
o-Nitrotoluene	40	44.595	111	
p-Nitrotoluene	40	52.453	131	*
1,3,5-Trinitrobenzene	40	47.82	120	
1,3-Dinitrobenzene-d4	500	492.228	98	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314064a

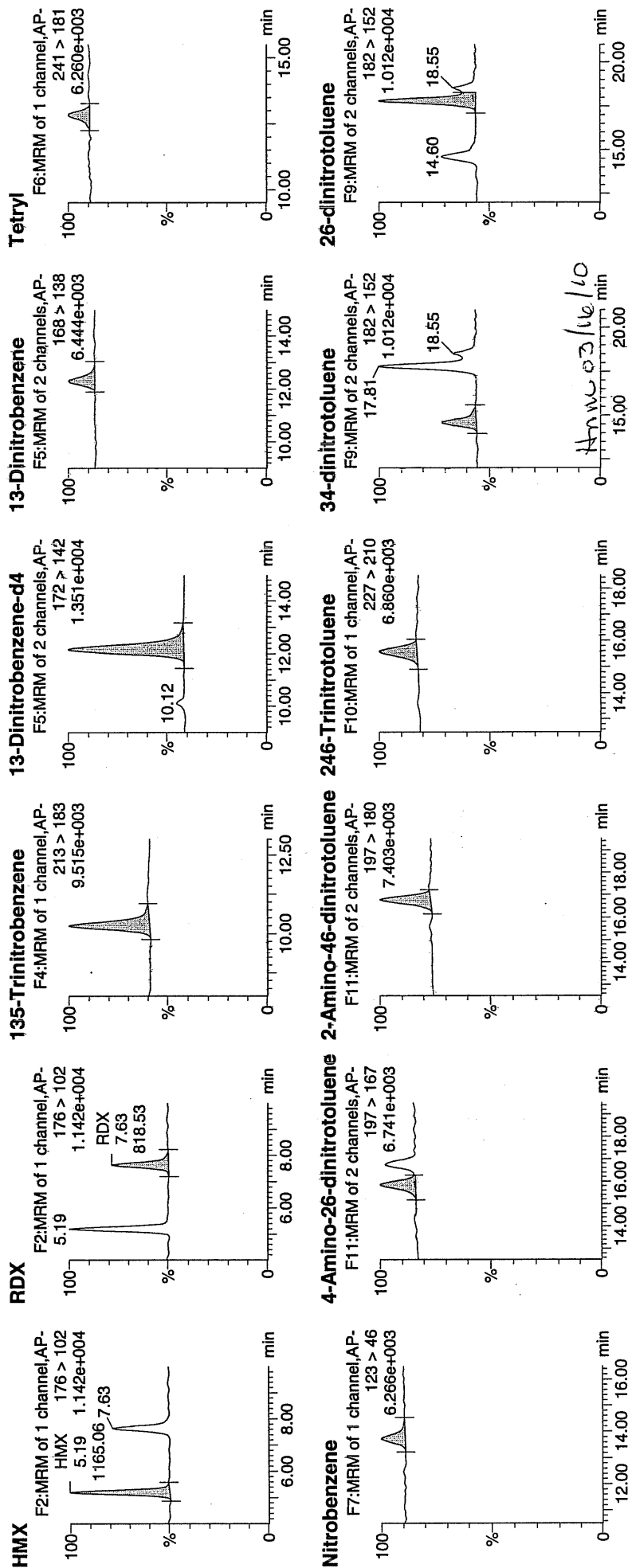
Date: 15-Mar-2010

Time: 21:57:07

ID: WXX100314-08CRI

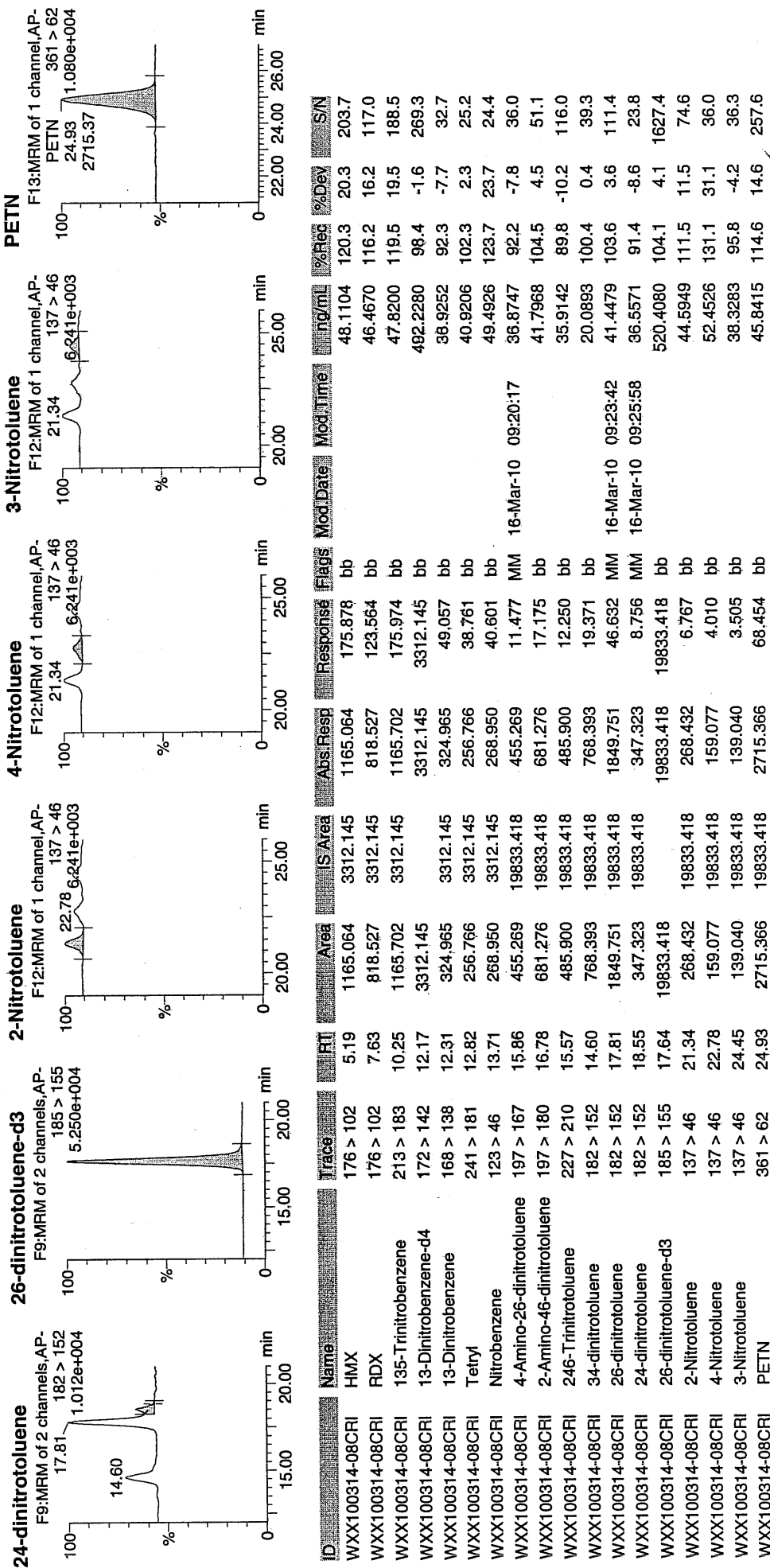
Vial: 1:1,C

WXX
3/16/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/15/10
 Time of Injection 2157
 Standard Number WXX100314-08CRI
 Data File EXP0314064a

HMX	120.3
RDX	116.2
135-TNB	119.5
13-DNB	92.3
Tetryl	102.3
Nitrobenzene	123.7
4A-26-DNT	92.2
2A-46-DNT	104.5
246-TNT	89.8
34-DNT(surr)	100.4
26-DNT	103.6
24-DNT	91.4
2-NT	111.5
4-NT	131.1
3-NT	95.8
PETN	114.6
Total	1709.2

*1487
3/16/10*

Average

106.8

sum - 03/16/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0314075a

Analysis Date: 16-MAR-10 03:21

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	600	677.621	113	
3,4-Dinitrotoluene	300	312.409	104	
4-Amino-2,6-dinitrotoluene	600	608.141	101	
HMX	600	707.796	118	
Nitrobenzene	600	631.627	105	
PETN	600	672.61	112	
RDX	600	713.824	119	
Tetryl	600	479.72	80	*
m-Dinitrobenzene	600	623.19	104	
m-Nitrotoluene	600	551.301	92	
o-Nitrotoluene	600	573.856	96	
p-Nitrotoluene	600	584.945	97	
1,3,5-Trinitrobenzene	600	628.112	105	
1,3-Dinitrobenzene-d4	500	461.984	92	
2,4,6-Trinitrotoluene	600	636.549	106	
2,4-Dinitrotoluene	600	623.131	104	
2,6-Dinitrotoluene	600	618.162	103	
2,6-Dinitrotoluene-d3	500	500.393	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314075a

Date: 16-Mar-2010

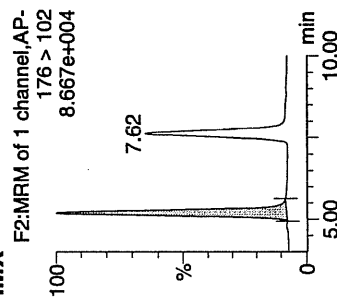
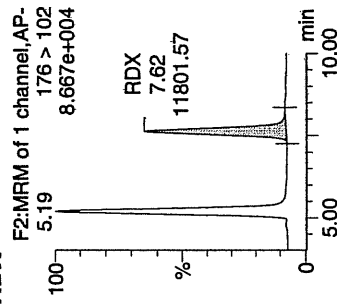
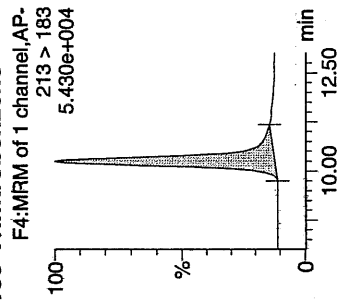
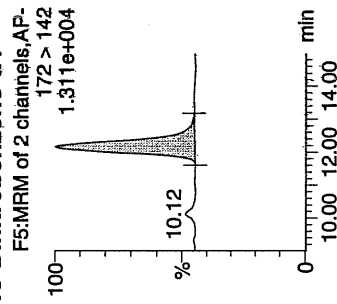
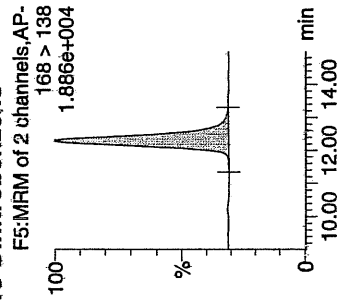
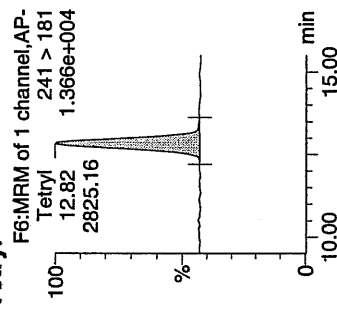
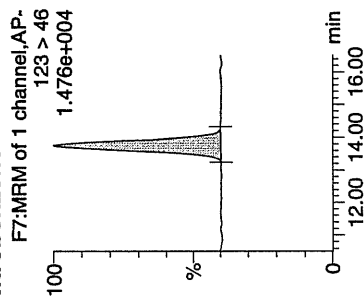
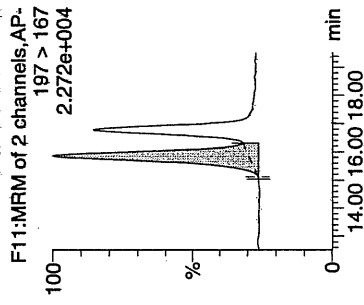
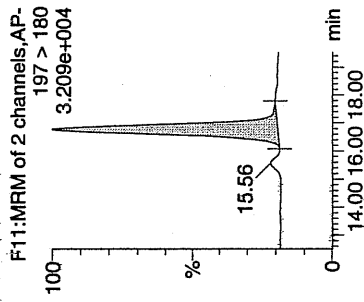
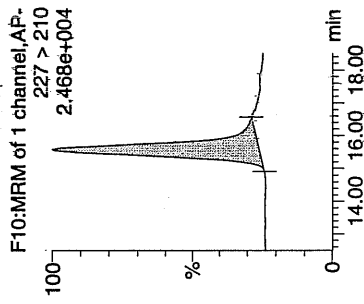
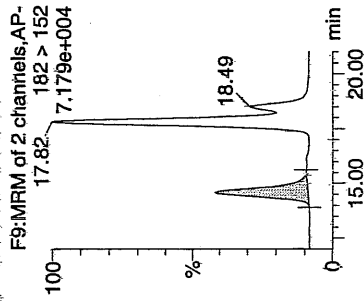
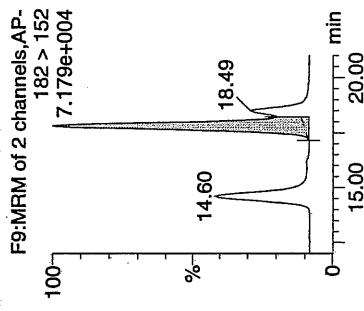
Time: 03:21:47

ID: WXX100314-07CCV

Vial: 1:1,B

MM
3/16/10

Page 307 of 649

HMX**RDX****135-Trinitrobenzene****13-Dinitrobenzene-d4****13-Dinitrobenzene****Tetryl****Nitrobenzene****4-Amino-26-dinitrotoluene****2-Amino-46-dinitrotoluene****246-Trinitrotoluene****34-dinitrotoluene****26-dinitrotoluene**HMX
3/16/10

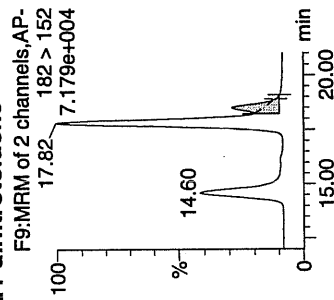
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

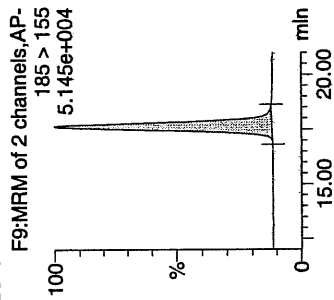
Printed: Tue Mar 16 09:29:05 2010, Page 74 of 79

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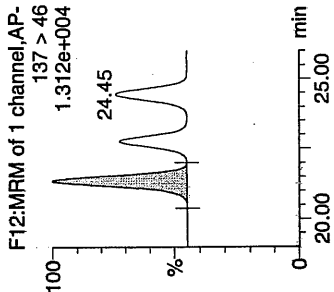
24-dinitrotoluene



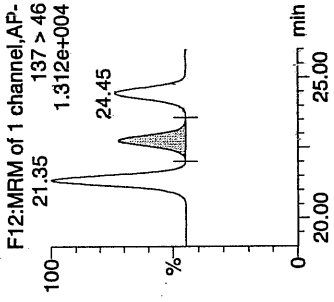
26-dinitrotoluene-d3



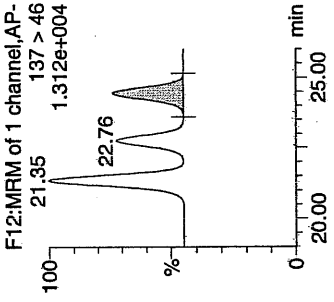
2-Nitrotoluene



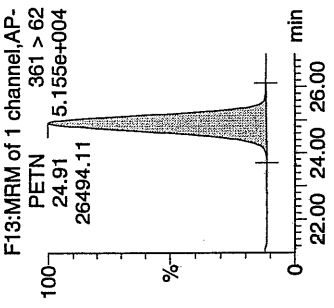
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100314-07CCV	HMX	176 > 102	5.19	16087.162	3108.634	16087.162	2587.497	bb			707.7961	118.0	18.0	1465.5
WXX100314-07CCV	RDX	176 > 102	7.62	11801.571	3108.634	11801.571	1898.192	bb			713.8236	119.0	19.0	908.7
WXX100314-07CCV	135-Trinitrobenzene	213 > 183	10.25	14370.620	3108.634	14370.620	2311.404	bb			628.1117	104.7	4.7	849.8
WXX100314-07CCV	13-Dinitrobenzene-d4	172 > 142	12.17	3108.634	3108.634	3108.634	3108.634	bb			461.9836	92.4	-7.6	246.9
WXX100314-07CCV	13-Dinitrobenzene	168 > 138	12.31	5147.473	3108.634	5147.473	827.832	bb			623.1902	103.9	3.9	752.7
WXX100314-07CCV	Tetryl	241 > 181	12.82	2825.164	3108.634	2825.164	454.406	bb			479.7198	80.0	-20.0	219.3
WXX100314-07CCV	Nitrobenzene	123 > 46	13.76	3221.456	3108.634	3221.456	518.147	bb			631.6266	105.3	5.3	223.8
WXX100314-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.86	7219.563	19070.605	7219.563	189.285	MM	16-Mar-10	09:19:43	608.1410	101.4	1.4	448.2
WXX100314-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.79	10620.226	19070.605	10620.226	278.445	bb			677.8212	112.9	12.9	587.6
WXX100314-07CCV	246-Trinitrotoluene	227 > 210	15.58	8280.928	19070.605	8280.928	217.112	bb			636.5490	106.1	6.1	832.3
WXX100314-07CCV	34-dinitrotoluene	182 > 152	14.60	11489.721	19070.605	11489.721	301.242	bb			312.4091	104.1	4.1	252.0
WXX100314-07CCV	26-dinitrotoluene	182 > 152	17.82	26526.486	19070.605	26526.486	695.481	MM	16-Mar-10	09:24:35	618.1623	103.0	3.0	701.7
WXX100314-07CCV	24-dinitrotoluene	182 > 152	18.49	5692.563	19070.605	5692.563	149.250	MM	16-Mar-10	09:25:07	623.1314	103.9	3.9	147.3
WXX100314-07CCV	26-dinitrotoluene-d3	185 > 155	17.64	19070.605	19070.605	19070.605	19070.605	bb			500.3926	100.1	0.1	2466.7
WXX100314-07CCV	2-Nitrotoluene	137 > 46	21.35	3321.383	19070.605	3321.383	87.081	bb			573.8556	95.6	-4.4	266.7
WXX100314-07CCV	4-Nitrotoluene	137 > 46	22.76	1705.778	19070.605	1705.778	44.723	bb			584.9453	97.5	-2.5	131.4
WXX100314-07CCV	3-Nitrotoluene	137 > 46	24.45	1922.988	19070.605	1922.988	50.418	bb			551.3013	91.9	-8.1	139.6
WXX100314-07CCV	PETN	361 > 62	24.91	26494.109	19070.605	26494.109	694.632	bb			672.6099	112.1	12.1	7564.8

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/16/10
 Time of Injection: 0321
 Standard Number: WXX100314-07CCV
 Data File: EXP0314075a

HMX	118.0
RDX	119.0
135-TNB	104.7
13-DNB	103.9
Tetryl	80.0
Nitrobenzene	105.3
4A-26-DNT	101.4
2A-46-DNT	112.9
246-TNT	106.1
34-DNT(surr)	104.1
26-DNT	103.0
24-DNT	103.9
2-NT	95.6
4-NT	97.5
3-NT	91.9
PETN	112.1

*not
3/16/10*

Total 1659.4

Ham 03/16/10

Average 103.7

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0314077a

Analysis Date: 16-MAR-10 04:20

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
RDX	40	48.392	121	
Tetryl	40	36.455	91	
m-Dinitrobenzene	40	34.836	87	
m-Nitrotoluene	40	43.511	109	
o-Nitrotoluene	40	46.465	116	
p-Nitrotoluene	40	42.934	107	
1,3,5-Trinitrobenzene	40	48.663	122	
1,3-Dinitrobenzene-d4	500	509.718	102	
2,4,6-Trinitrotoluene	40	38.082	95	
2,4-Dinitrotoluene	40	41.132	103	
2,6-Dinitrotoluene	40	40.984	102	
2,6-Dinitrotoluene-d3	500	520.8	104	
2-Amino-4,6-dinitrotoluene	40	41.749	104	
3,4-Dinitrotoluene	20	18.777	94	
4-Amino-2,6-dinitrotoluene	40	41.325	103	
HMX	40	47.264	118	
Nitrobenzene	40	41.044	103	
PETN	40	44.312	111	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Mar 16 09:29:05 2010, Page 77 of 79

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010

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Date: 16-Mar-2010

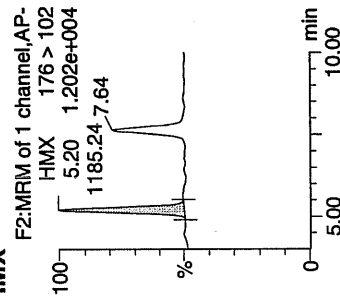
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ID: WXX100314-08CRI

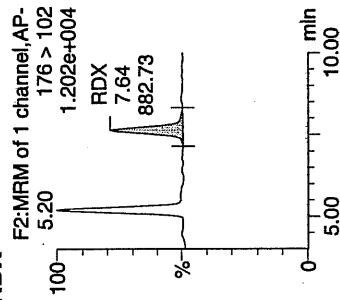
Vial: 1:1,C

MT
3/16/10

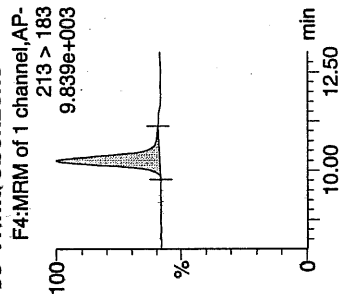
HMX



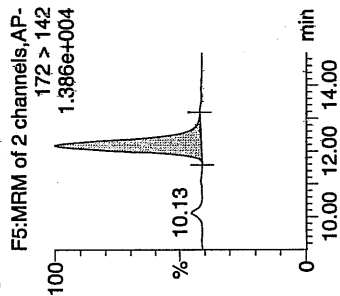
RDX



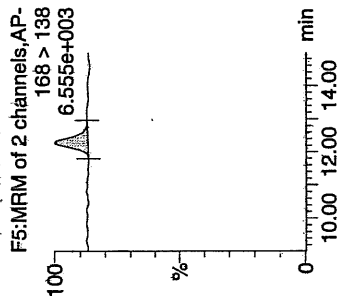
135-Trinitrobenzene



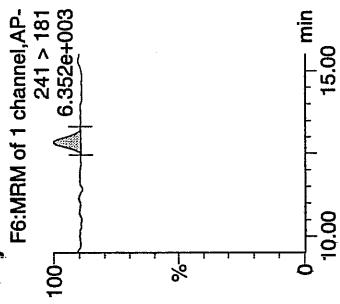
13-Dinitrobenzene-d4



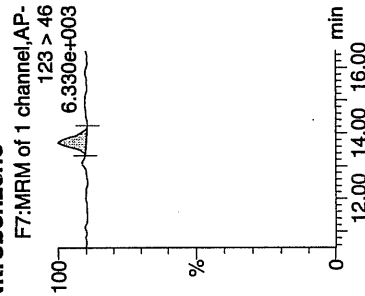
13-Dinitrobenzene



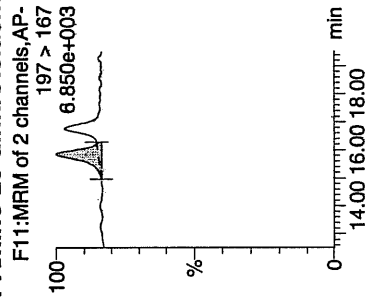
Tetryl



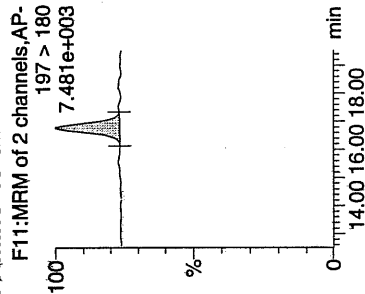
Nitrobenzene



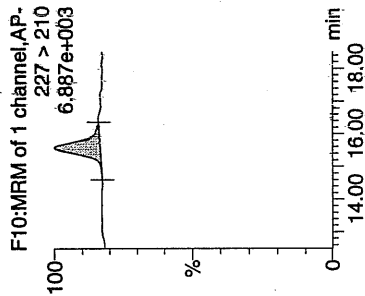
4-Amino-26-dinitrotoluene



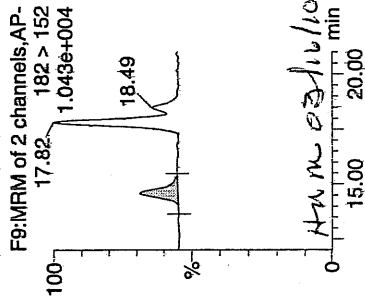
2-Amino-46-dinitrotoluene



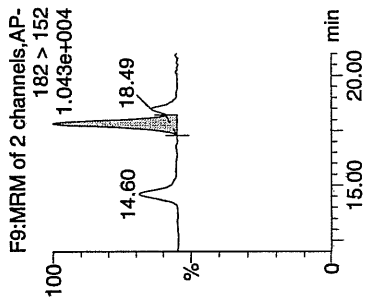
246-Trinitrotoluene



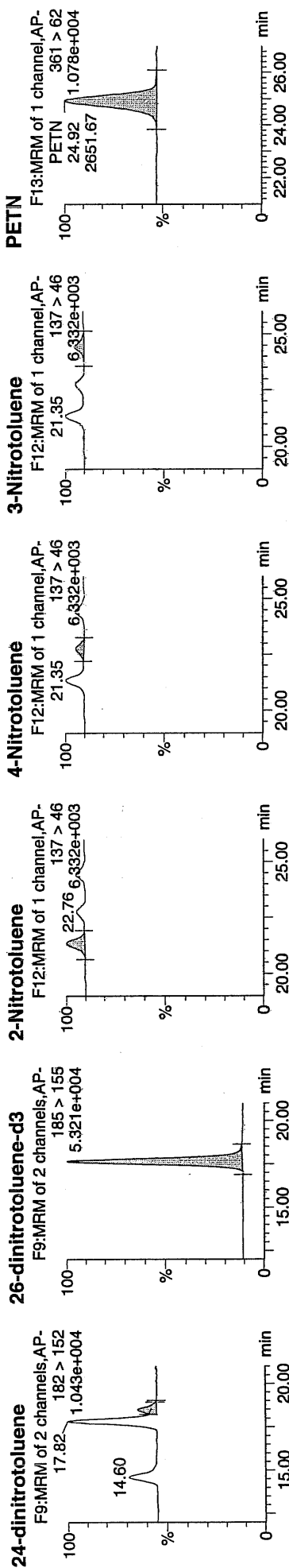
34-dinitrotoluene



26-dinitrotoluene



Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA1.qld, Time: Tue Mar 16 09:27:58 2010



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod. Date	Mod. Time	ng/ml	%Rec	%Dev	S/N
WXX100314-08CRI	HMX	176 > 102	5.20	1185.242	3429.830	1185.242	172.784	bb			47.2643	118.2	18.2	209.9
WXX100314-08CRI	RDX	176 > 102	7.64	882.731	3429.830	882.731	128.684	bb			48.3923	121.0	21.0	122.3
WXX100314-08CRI	135-Trinitrobenzene	213 > 183	10.25	1228.412	3429.830	1228.412	179.078	bb			48.6634	121.7	21.7	377.2
WXX100314-08CRI	13-Dinitrobenzene-d4	172 > 142	12.17	3429.830		3429.830	3429.830	bb			509.7175	101.9	1.9	171.9
WXX100314-08CRI	13-Dinitrobenzene	168 > 138	12.27	317.471	3429.830	317.471	46.281	bb			34.8359	87.1	-12.9	28.1
WXX100314-08CRI	Tetryl	241 > 181	12.82	236.874	3429.830	236.874	34.531	bb			36.4551	91.1	-8.9	28.0
WXX100314-08CRI	Nitrobenzene	123 > 46	13.72	230.964	3429.830	230.964	33.670	bb			41.0440	102.6	2.6	18.7
WXX100314-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.86	510.598	19848.350	510.598	12.862	MM	16-Mar-10	09:19:27	41.3250	103.3	3.3	19.3
WXX100314-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.79	681.011	19848.350	681.011	17.155	bb			41.7491	104.4	4.4	39.6
WXX100314-08CRI	246-Trinitrotoluene	227 > 210	15.58	515.621	19848.350	515.621	12.989	bb			38.0823	95.2	-4.8	60.2
WXX100314-08CRI	34-dinitrotoluene	182 > 152	14.60	718.757	19848.350	718.757	18.106	bb			18.7774	93.9	-6.1	42.5
WXX100314-08CRI	26-dinitrotoluene	182 > 152	17.82	1830.442	19848.350	1830.442	46.111	MM	16-Mar-10	09:24:44	40.9844	102.5	2.5	137.8
WXX100314-08CRI	24-dinitrotoluene	182 > 152	18.49	391.083	19848.350	391.083	9.852	MM	16-Mar-10	09:24:53	41.1321	102.8	2.8	27.8
WXX100314-08CRI	26-dinitrotoluene-d3	185 > 155	17.64	19848.350		19848.350	19848.350	bb			520.7998	104.2	4.2	2091.2
WXX100314-08CRI	2-Nitrotoluene	137 > 46	21.35	279.897	19848.350	279.897	7.051	bb			46.4646	116.2	16.2	52.5
WXX100314-08CRI	4-Nitrotoluene	137 > 46	22.76	130.307	19848.350	130.307	3.283	bb			42.9339	107.3	7.3	23.0
WXX100314-08CRI	3-Nitrotoluene	137 > 46	24.43	157.961	19848.350	157.961	3.979	bb			43.5113	108.8	8.8	26.6
WXX100314-08CRI	PETN	361 > 62	24.92	2651.668	19848.350	2651.668	66.798	bb			44.3116	110.8	10.8	398.1

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/16/10
 Time of Injection 0420
 Standard Number WXX100314-08CRI
 Data File EXP0314077a

HMX	118.2
RDX	121.0
135-TNB	121.7
13-DNB	87.1
Tetryl	91.1
Nitrobenzene	102.6
4A-26-DNT	103.3
2A-46-DNT	104.4
246-TNT	95.2
34-DNT(surr)	93.9
26-DNT	102.5
24-DNT	102.8
2-NT	116.2
4-NT	107.3
3-NT	108.8
PETN	110.8

Handwritten: 3/16/10

Total 1686.9

Handwritten: HMM 03/16/10

Average 105.4

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0314088a

Analysis Date: 16-MAR-10 09:45

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	600	607.981	101	
2,6-Dinitrotoluene-d3	500	515.033	103	
2-Amino-4,6-dinitrotoluene	600	611.361	102	
3,4-Dinitrotoluene	300	319.204	106	
4-Amino-2,6-dinitrotoluene	600	547.323	91	
HMX	600	755.976	126	*
Nitrobenzene	600	527.304	88	
PETN	600	680.381	113	
RDX	600	789.54	132	*
Tetryl	600	477.715	80	*
m-Dinitrobenzene	600	558.603	93	
m-Nitrotoluene	600	532.943	89	
o-Nitrotoluene	600	507.554	85	
p-Nitrotoluene	600	525.665	88	
1,3,5-Trinitrobenzene	600	554.76	92	
1,3-Dinitrobenzene-d4	500	516.17	103	
2,4,6-Trinitrotoluene	600	620.772	103	
2,4-Dinitrotoluene	600	650.935	108	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

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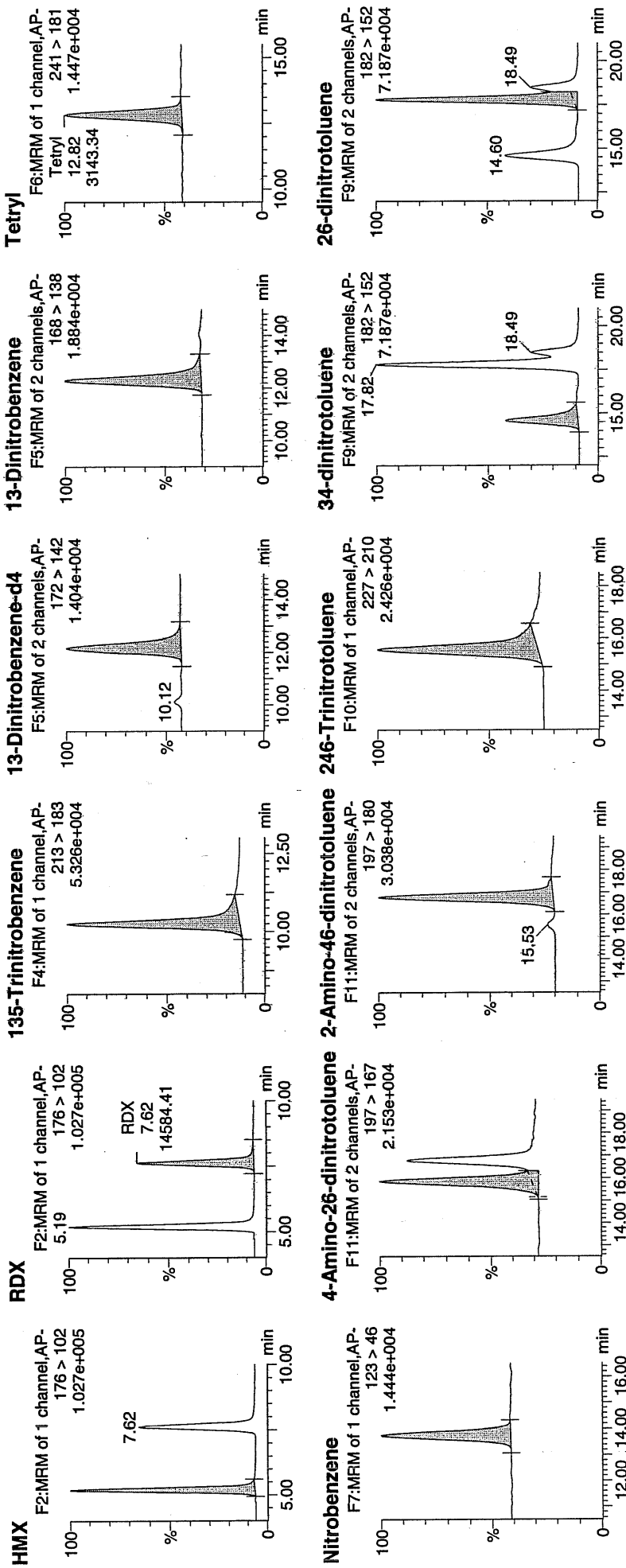
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Time: 09:45:11

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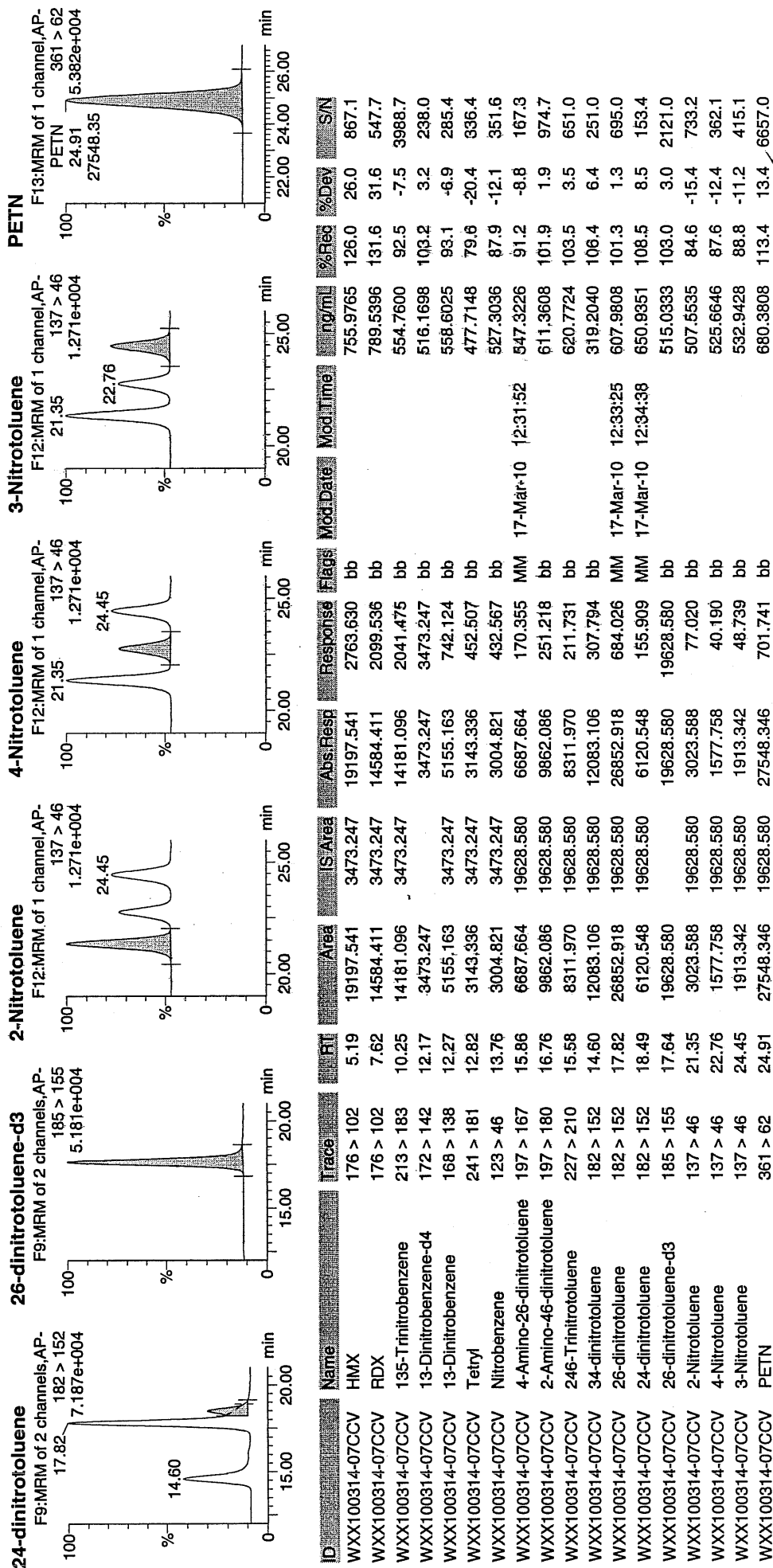
Vial: 1:1,B

WMT
3/17/10



Amw
03/17/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/16/10
 Time of Injection: 0945
 Standard Number: WXX100314-07CCV
 Data File: EXP0314088a

HMX	126.0
RDX	131.6
135-TNB	92.5
13-DNB	93.1
Tetryl	79.6
Nitrobenzene	87.9
4A-26-DNT	91.2
2A-46-DNT	101.9
246-TNT	103.5
34-DNT(surr)	106.4
26-DNT	101.3
24-DNT	108.5
2-NT	94.6
4-NT	97.6
3-NT	88.8
PETN	113.4

mtf
 3/17/10

Total 1617.9

Average 101.1

from 03/17/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0314090a

Analysis Date: 16-MAR-10 10:44

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	53.321	133	*
1,3-Dinitrobenzene-d4	500	498.557	100	
2,4,6-Trinitrotoluene	40	42.928	107	
2,4-Dinitrotoluene	40	38.67	97	
2,6-Dinitrotoluene	40	39.806	100	
2,6-Dinitrotoluene-d3	500	591.45	118	
2-Amino-4,6-dinitrotoluene	40	44.647	112	
3,4-Dinitrotoluene	20	16.385	82	
4-Amino-2,6-dinitrotoluene	40	39.318	98	
HMX	40	50.858	127	
Nitrobenzene	40	45.207	113	
PETN	40	39.826	100	
RDX	40	49.187	123	
Tetryl	40	42.113	105	
m-Dinitrobenzene	40	36.399	91	
m-Nitrotoluene	40	32.494	81	
o-Nitrotoluene	40	33.622	84	
p-Nitrotoluene	40	31.085	78	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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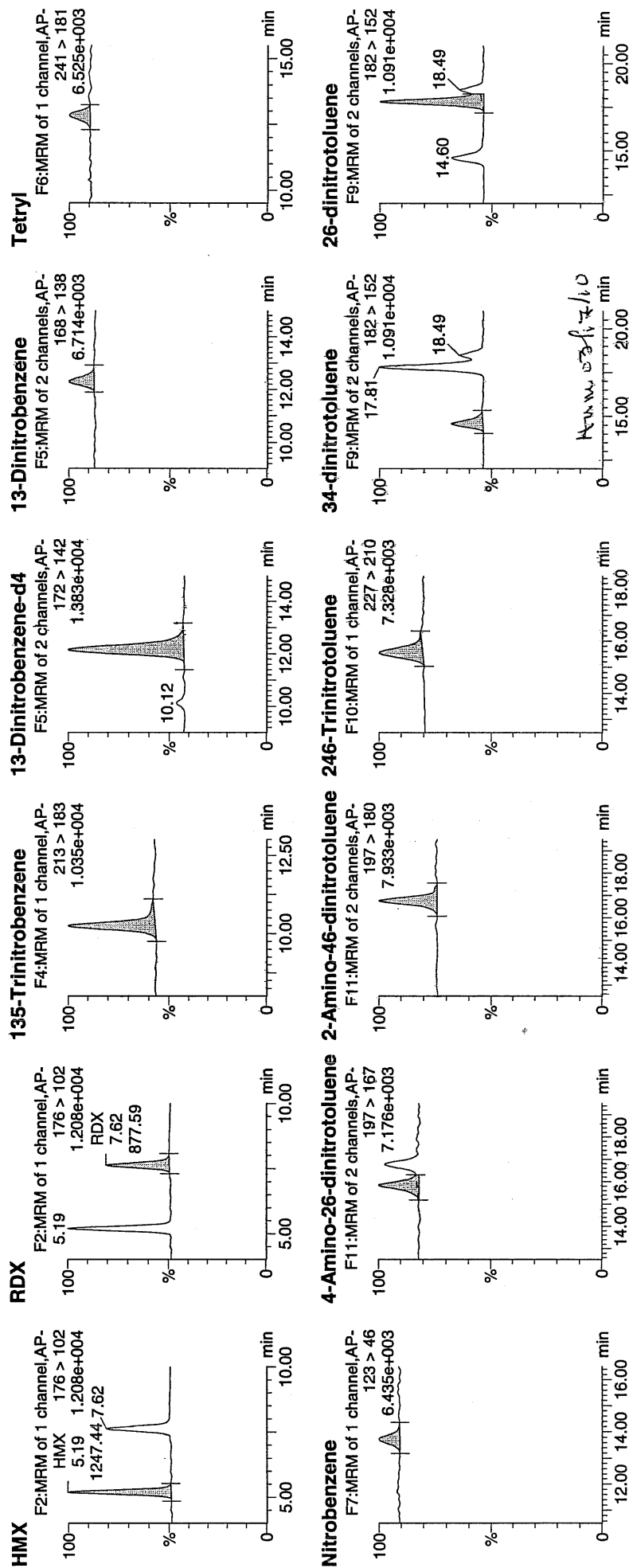
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Time: 10:44:12

ID: WXX100314-08CRI

Vial: 1:1,C

purified
3/12/10



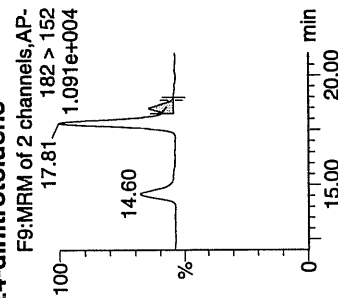
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

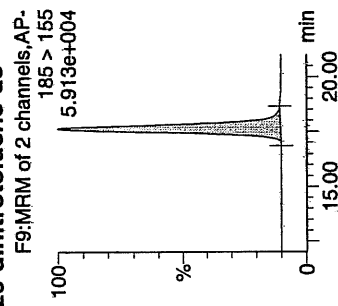
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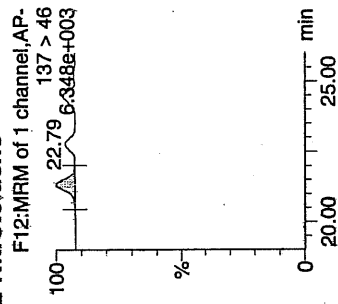
24-dinitrotoluene



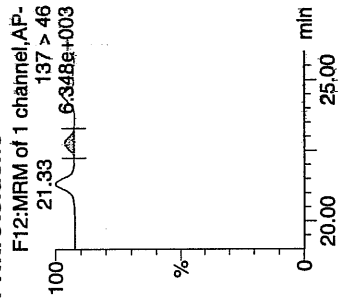
26-dinitrotoluene-d3



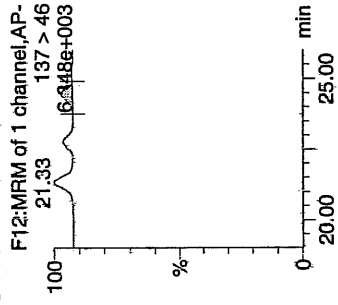
2-Nitrotoluene



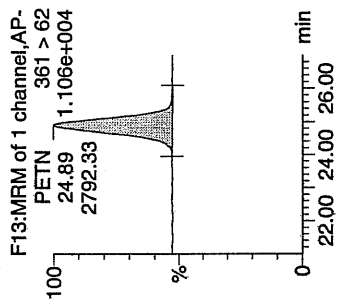
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc	%Rec	%Dev	S/N
WXX100314-08CRI	HMX	176 > 102	5.19	1247.437	3354.735	1247.437	185.922	bb			50.8579	127.1	27.1	277.5
WXX100314-08CRI	RDX	176 > 102	7.62	877.587	3354.735	877.587	130.798	bb			49.1873	123.0	23.0	168.3
WXX100314-08CRI	135-Trinitrobenzene	213 > 183	10.23	1316.522	3354.735	1316.522	196.218	bb			53.3213	133.3	33.3	99.2
WXX100314-08CRI	13-Dinitrobenzene-d4	172 > 142	12.17	3354.735		3354.735	3354.735	bb			498.5574	99.7	-0.3	178.7
WXX100314-08CRI	13-Dinitrobenzene	168 > 138	12.31	324.448	3354.735	324.448	48.357	bb			36.3985	91.0	-9.0	35.5
WXX100314-08CRI	Tetryl	241 > 181	12.82	267.645	3354.735	267.645	39.891	bb			42.1128	105.3	5.3	21.1
WXX100314-08CRI	Nitrobenzene	123 > 46	13.71	248.820	3354.735	248.820	37.085	bb			45.2069	113.0	13.0	17.0
WXX100314-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.85	551.703	22540.926	551.703	12.238	MM	17-Mar-10	12:31:59	39.3180	98.3	-1.7	44.8
WXX100314-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.75	827.080	22540.926	827.080	18.346	bb			44.6471	111.6	11.6	41.5
WXX100314-08CRI	246-Trinitrotoluene	227 > 210	15.54	660.075	22540.926	660.075	14.642	bb			42.9278	107.3	7.3	39.8
WXX100314-08CRI	34-dinitrotoluene	182 > 152	14.60	712.278	22540.926	712.278	15.800	bb			16.3854	81.9	-18.1	75.0
WXX100314-08CRI	26-dinitrotoluene	182 > 152	17.81	2018.993	22540.926	2018.993	44.785	MM	17-Mar-10	12:33:31	39.8062	99.5	-0.5	248.0
WXX100314-08CRI	24-dinitrotoluene	182 > 152	18.49	417.551	22540.926	417.551	9.262	MM	17-Mar-10	12:34:30	38.6700	96.7	-3.3	54.2
WXX100314-08CRI	26-dinitrotoluene-d3	185 > 155	17.63	22540.926		22540.926	22540.926	bb			591.4501	118.3	18.3	2080.2
WXX100314-08CRI	2-Nitrotoluene	137 > 46	21.33	230.010	22540.926	230.010	5.102	bb			33.6220	84.1	-15.9	57.1
WXX100314-08CRI	4-Nitrotoluene	137 > 46	22.79	107.144	22540.926	107.144	2.377	bb			31.0852	77.7	-22.3	27.7
WXX100314-08CRI	3-Nitrotoluene	137 > 46	24.48	133.965	22540.926	133.965	2.972	bb			32.4935	81.2	-18.8	34.7
WXX100314-08CRI	PETN	361 > 62	24.89	2792.326	22540.926	2792.326	61.939	bb			39.8261	99.6	-0.4	685.0

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/16/10
 Time of Injection 1044
 Standard Number WXX100314-08CRI
 Data File EXP0314090a

HMX	127.1
RDX	123.0
135-TNB	133.3
13-DNB	91.0
Tetryl	105.3
Nitrobenzene	113.0
4A-26-DNT	98.3
2A-46-DNT	111.6
246-TNT	107.3
34-DNT(surr)	81.9
26-DNT	99.5
24-DNT	96.7
2-NT	84.1
4-NT	77.7
3-NT	81.2
PETN	99.6

mt
3/17/10

Total 1630.6

Average 101.9

Handwritten: HMM-0217/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0319012a

Analysis Date: 19-MAR-10 22:18

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene-d3	500	471.684	94	
2-Amino-4,6-dinitrotoluene	40	32.751	82	
3,4-Dinitrotoluene	20	18.832	94	
4-Amino-2,6-dinitrotoluene	40	35.27	88	
HMX	40	36.922	92	
Nitrobenzene	40	45.522	114	
PETN	40	43.663	109	
RDX	40	40.907	102	
Tetryl	40	30.076	75	
m-Dinitrobenzene	40	38.78	97	
m-Nitrotoluene	40	44.56	111	
o-Nitrotoluene	40	42.241	106	
p-Nitrotoluene	40	39.554	99	
1,3,5-Trinitrobenzene	40	39.627	99	
1,3-Dinitrobenzene-d4	500	444.248	89	
2,4,6-Trinitrotoluene	40	37.741	94	
2,4-Dinitrotoluene	40	34.69	87	
2,6-Dinitrotoluene	40	42.395	106	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

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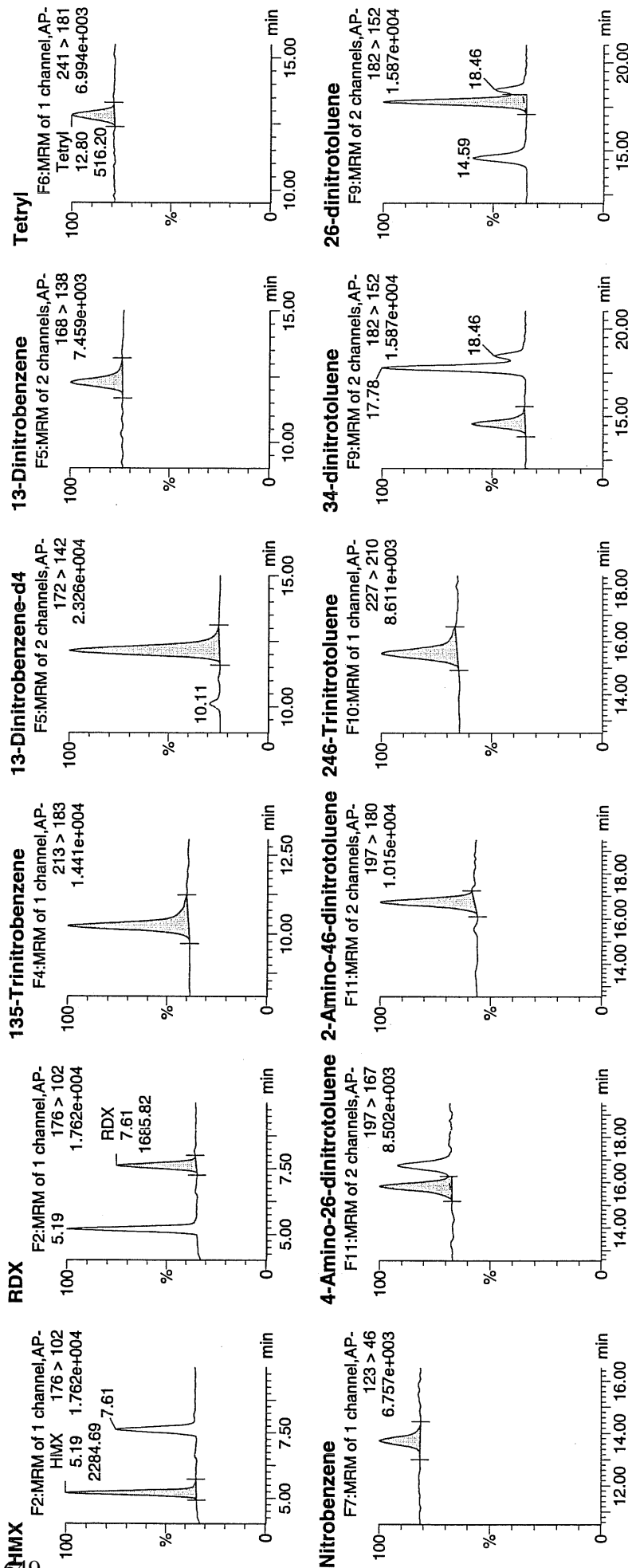
Date: 19-Mar-2010

Time: 22:18:36

ID: WXX100319-08CRI

Vial: 1:1,C

Handwritten: 3/20/10

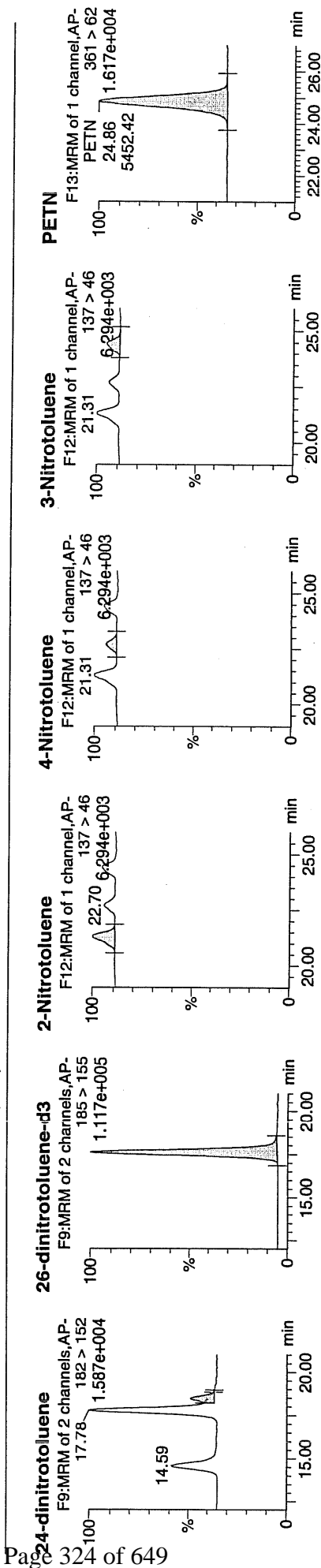


Handwritten: HMX 03/20/10

Printed: Sat Mar 20 11:06:08 2010, Page 24 of 73

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	SN
WXX100319-08CRI	HMX	176 > 102	5.19	2284.691	7292.912	2284.691	156.638	bb			36.9218	92.3	-7.7	23.6
WXX100319-08CRI	RDX	176 > 102	7.61	1685.822	7292.912	1685.822	115.579	bb			40.9070	102.3	2.3	14.5
WXX100319-08CRI	135-Trinitrobenzene	213 > 183	10.23	2766.046	7292.912	2766.046	189.639	bb			39.6267	99.1	-0.9	222.7
WXX100319-08CRI	13-Dinitrobenzene-d4	172 > 142	12.13	7292.912		7292.912	7292.912	bb			444.2476	88.8	-11.2	601.7
WXX100319-08CRI	13-Dinitrobenzene	168 > 138	12.27	766.991	7292.912	766.991	52.585	bb			38.7795	96.9	-3.1	56.1
WXX100319-08CRI	Tetryl	241 > 181	12.80	516.195	7292.912	516.195	35.390	bb			30.0763	75.2	-24.8	58.5
WXX100319-08CRI	Nitrobenzene	123 > 46	13.70	461.133	7292.912	461.133	31.615	bb			45.5215	113.8	13.8	39.4
WXX100319-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.82	1143.709	43929.121	1143.709	13.018	MM	20-Mar-10	10:54:00	35.2696	88.2	-11.8	67.1
WXX100319-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.72	1709.632	43929.121	1709.632	19.459	bb			32.7511	81.9	-18.1	177.6
WXX100319-08CRI	246-Trinitrotoluene	227 > 210	15.54	1423.825	43929.121	1423.825	16.206	bb			37.7409	94.4	-5.6	170.9
WXX100319-08CRI	34-dinitrotoluene	182 > 152	14.59	1846.391	43929.121	1846.391	21.016	bb			18.8322	94.2	-5.8	84.0
WXX100319-08CRI	26-dinitrotoluene	182 > 152	17.78	4202.054	43929.121	4202.054	47.828	MM	20-Mar-10	10:58:48	42.3945	106.0	6.0	228.5
WXX100319-08CRI	24-dinitrotoluene	182 > 152	18.46	734.808	43929.121	734.808	8.364	MM	20-Mar-10	11:01:30	34.6904	86.7	-13.3	43.8
WXX100319-08CRI	26-dinitrotoluene-d3	185 > 155	17.61	43929.121		43929.121	43929.121	bb			471.6842	94.3	-5.7	3953.7
WXX100319-08CRI	2-Nitrotoluene	137 > 46	21.31	346.332	43929.121	346.332	3.942	bb			42.2413	105.6	5.6	35.4
WXX100319-08CRI	4-Nitrotoluene	137 > 46	22.70	160.527	43929.121	160.527	1.827	bb			39.5536	98.9	-1.1	17.3
WXX100319-08CRI	3-Nitrotoluene	137 > 46	24.43	220.022	43929.121	220.022	2.504	bb			44.5600	111.4	11.4	22.0
WXX100319-08CRI	PETN	361 > 62	24.86	5452.419	43929.121	5452.419	62.059	bb			43.6628	109.2	9.2	974.0

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/19/10
 Time of Injection 2218
 Standard Number WXX100319-08CRI
 Data File EXP0319012a

HMX	92.3
RDX	102.3
135-TNB	99.1
13-DNB	96.9
Tetryl	75.2
Nitrobenzene	113.8
4A-26-DNT	88.2
2A-46-DNT	81.9
246-TNT	94.4
34-DNT(surr)	94.2
26-DNT	106.0
24-DNT	86.7
2-NT	105.6
4-NT	98.9
3-NT	111.4
PETN	109.2

*not
3/22/10*

Total 1556.1

Average 97.3

Hmm-03/22/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0319022a

Analysis Date: 20-MAR-10 03:13

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	600	604.613	101	
HMX	600	610.321	102	
Nitrobenzene	600	619.1	103	
PETN	600	694.771	116	
RDX	600	682.896	114	
Tetryl	600	657.931	110	
m-Dinitrobenzene	600	593.531	99	
m-Nitrotoluene	600	594.961	99	
o-Nitrotoluene	600	593.465	99	
p-Nitrotoluene	600	608.706	101	
1,3,5-Trinitrobenzene	600	596.766	99	
1,3-Dinitrobenzene-d4	500	398.076	80	*
2,4,6-Trinitrotoluene	600	620.636	103	
2,4-Dinitrotoluene	600	654.89	109	
2,6-Dinitrotoluene	600	625.73	104	
2,6-Dinitrotoluene-d3	500	415.339	83	
2-Amino-4,6-dinitrotoluene	600	575.512	96	
3,4-Dinitrotoluene	300	286.078	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

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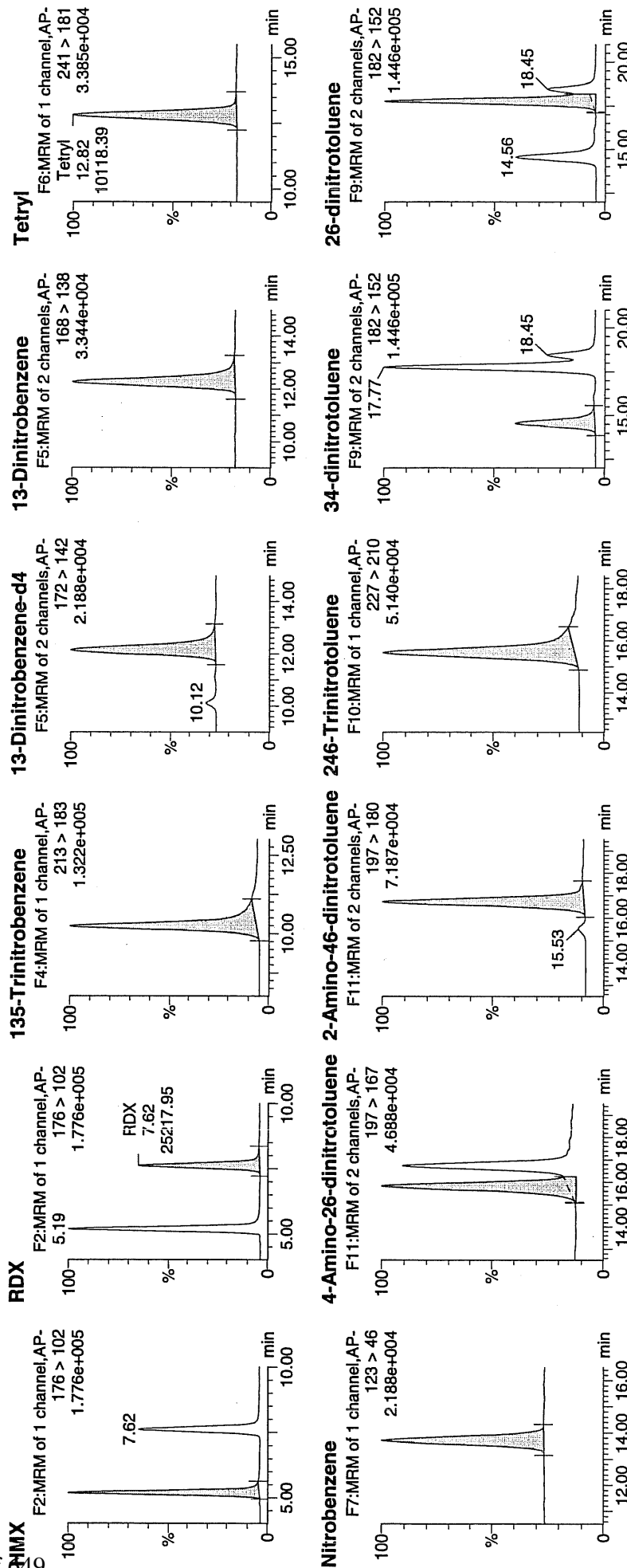
Date: 20-Mar-2010

Time: 03:13:32

ID: WXX100319-07CCV

Vial: 1:1,B

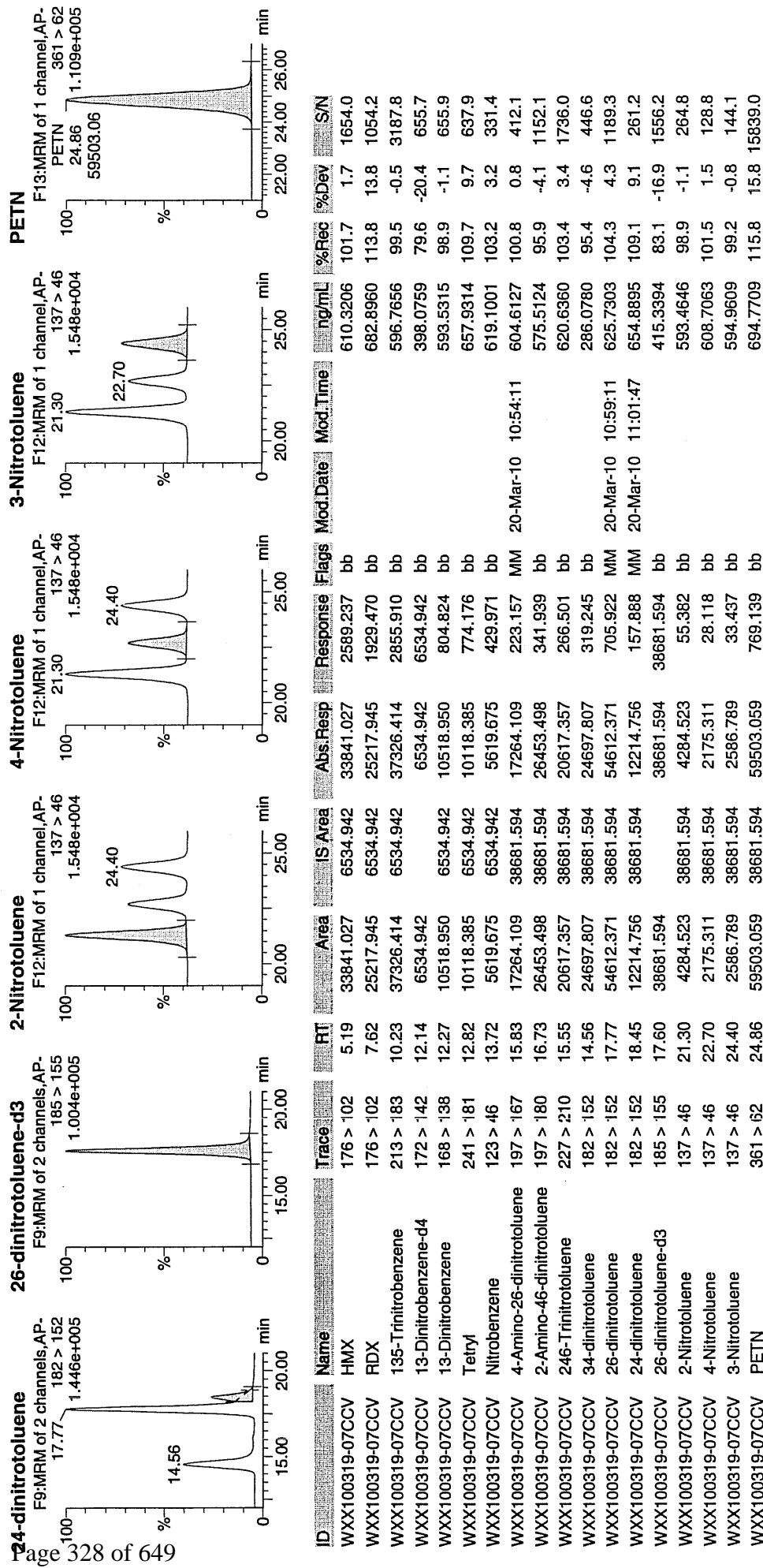
not
3/20/10



HW 2/22/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/20/10
 Time of Injection: 0313
 Standard Number: WXX100319-07CCV
 Data File: EXP0319022a

HMX	101.7
RDX	113.8
135-TNB	99.5
13-DNB	98.9
Tetryl	109.7
Nitrobenzene	103.2
4A-26-DNT	100.8
2A-46-DNT	95.9
246-TNT	103.4
34-DNT(surr)	95.4
26-DNT	104.3
24-DNT	109.1
2-NT	98.9
4-NT	101.5
3-NT	99.2
PETN	115.8

*MTT
3/20/10*

Total 1651.1

Average 103.2

#1111-0319022/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0319024a

Analysis Date: 20-MAR-10 04:12

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
o-Nitrotoluene	40	36.515	91	
p-Nitrotoluene	40	40.115	100	
1,3,5-Trinitrobenzene	40	41.981	105	
1,3-Dinitrobenzene-d4	500	414.198	83	
2,4,6-Trinitrotoluene	40	37.34	93	
2,4-Dinitrotoluene	40	40.233	101	
2,6-Dinitrotoluene	40	40.727	102	
2,6-Dinitrotoluene-d3	500	442.71	89	
2-Amino-4,6-dinitrotoluene	40	36.537	91	
3,4-Dinitrotoluene	20	19.003	95	
4-Amino-2,6-dinitrotoluene	40	42.896	107	
HMX	40	46.851	117	
Nitrobenzene	40	44.233	111	
PETN	40	47.421	119	
RDX	40	42.067	105	
Tetryl	40	31.143	78	
m-Dinitrobenzene	40	37.549	94	
m-Nitrotoluene	40	38.238	96	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Page 49

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319024a

Date: 20-Mar-2010

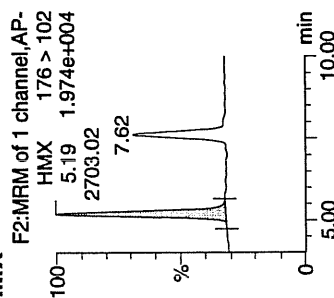
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ID: WXX100319-08CRI

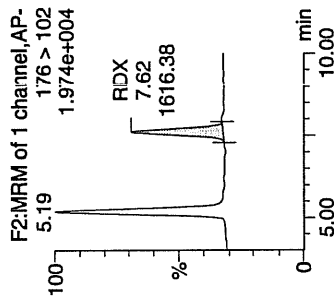
Vial: 1:1,C

6/10/10
3/10/10

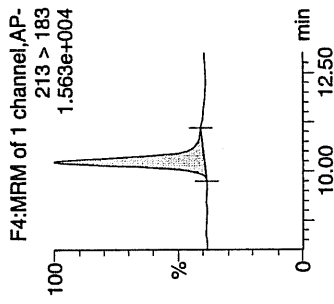
HMX



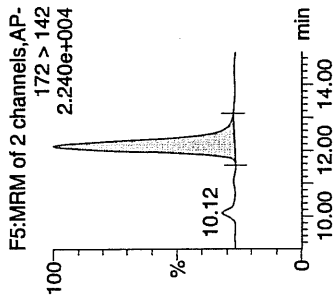
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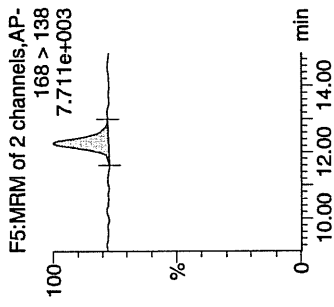
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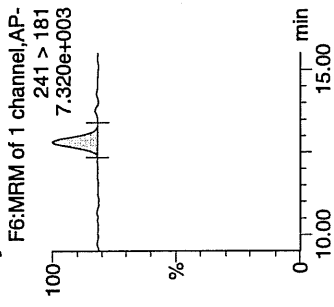
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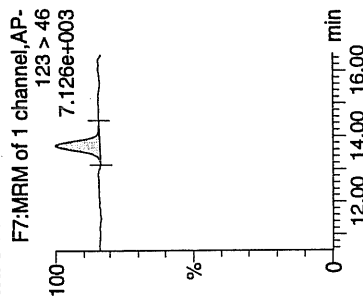
13-Dinitrobenzene



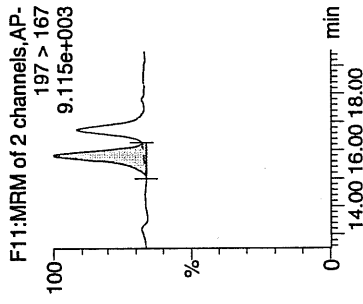
Tetryl



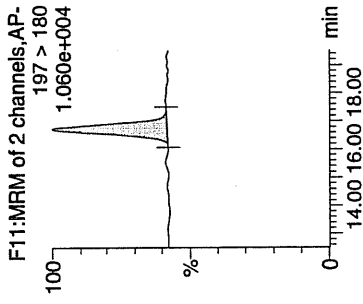
Nitrobenzene



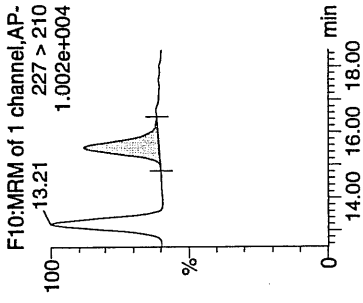
4-Amino-26-dinitrotoluene



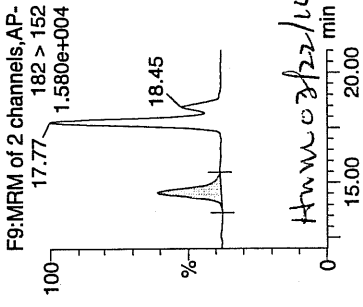
2-Amino-46-dinitrotoluene



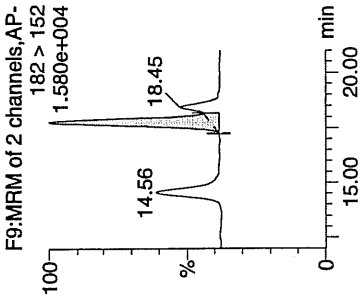
246-Trinitrotoluene



34-dinitrotoluene

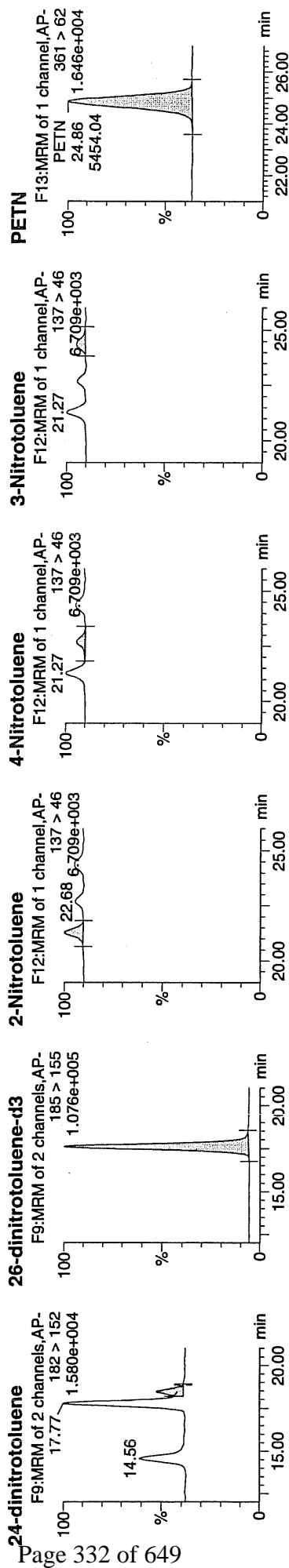


26-dinitrotoluene



Handwritten signature

Dataset: C:\MASSLYN\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



ID	Name	Trace	RT	Area	IS Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N
WXX100319-08CRI	HMX	176 > 102	5.19	2703.023	6799.613	2703.023	198.763	bb			46.8513	117.1	17.1	241.7
WXX100319-08CRI	RDX	176 > 102	7.62	1616.377	6799.613	1616.377	118.858	bb			42.0673	105.2	5.2	130.1
WXX100319-08CRI	135-Trinitrobenzene	213 > 183	10.23	2732.153	6799.613	2732.153	200.905	bb			41.9807	105.0	5.0	186.4
WXX100319-08CRI	13-Dinitrobenzene-d4	172 > 142	12.14	6799.613		6799.613	6799.613	bb			414.1983	82.8	-17.2	816.4
WXX100319-08CRI	13-Dinitrobenzene	168 > 138	12.27	692.426	6799.613	692.426	50.917	bb			37.5493	93.9	-6.1	105.9
WXX100319-08CRI	Tetryl	241 > 181	12.82	498.344	6799.613	498.344	36.645	bb			31.1427	77.9	-22.1	52.1
WXX100319-08CRI	Nitrobenzene	123 > 46	13.72	417.768	6799.613	417.768	30.720	bb			44.2326	110.6	10.6	48.3
WXX100319-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.83	1305.572	41230.711	1305.572	15.833	MM	20-Mar-10	10:54:27	42.8961	107.2	7.2	94.0
WXX100319-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.73	1790.114	41230.711	1790.114	21.709	bb			36.5372	91.3	-8.7	92.3
WXX100319-08CRI	246-Trinitrotoluene	227 > 210	15.55	1322.166	41230.711	1322.166	16.034	bb			37.3399	93.3	-6.7	94.6
WXX100319-08CRI	34-dinitrotoluene	182 > 152	14.56	1748.655	41230.711	1748.655	21.206	bb			19.0026	95.0	-5.0	163.4
WXX100319-08CRI	26-dinitrotoluene	182 > 152	17.77	3788.769	41230.711	3788.769	45.946	MM	20-Mar-10	10:59:19	40.7266	101.8	1.8	438.9
WXX100319-08CRI	24-dinitrotoluene	182 > 152	18.45	799.856	41230.711	799.856	9.700	MM	20-Mar-10	11:01:54	40.2326	100.6	0.6	96.1
WXX100319-08CRI	26-dinitrotoluene-d3	185 > 155	17.60	41230.711		41230.711	41230.711	bb			442.7103	88.5	-11.5	3238.5
WXX100319-08CRI	2-Nitrotoluene	137 > 46	21.27	280.990	41230.711	280.990	3.408	bb			36.5146	91.3	-8.7	27.7
WXX100319-08CRI	4-Nitrotoluene	137 > 46	22.68	152.805	41230.711	152.805	1.853	bb			40.1151	100.3	0.3	12.8
WXX100319-08CRI	3-Nitrotoluene	137 > 46	24.35	177.206	41230.711	177.206	2.149	bb			38.2375	95.6	-4.4	13.4
WXX100319-08CRI	PETN	361 > 62	24.86	5454.044	41230.711	5454.044	66.141	bb			47.4210	118.6	18.6	1797.4

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/20/10
 Time of Injection 0412
 Standard Number WXX100319-08CRI
 Data File EXP0319024a

HMX	117.1
RDX	105.2
135-TNB	105.0
13-DNB	93.9
Tetryl	77.9
Nitrobenzene	110.6
4A-26-DNT	107.2
2A-46-DNT	91.3
246-TNT	93.3
34-DNT(surr)	95.0
26-DNT	101.8
24-DNT	100.6
2-NT	91.3
4-NT	100.3
3-NT	95.6
PETN	118.6

*MTT
3/20/10*

Total 1604.7

Average 100.3

1604.7

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050013.wiff

Analysis Date: 05-MAR-10 20:16

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	102	102	
2,6-Diamino-4-nitrotoluene	100	104	104	
3,4-Dinitrotoluene	50	52	104	
3,5-Dinitroaniline	100	104	104	
TATB	100	108	108	
tris(o-cresyl) phosphate	100	100	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

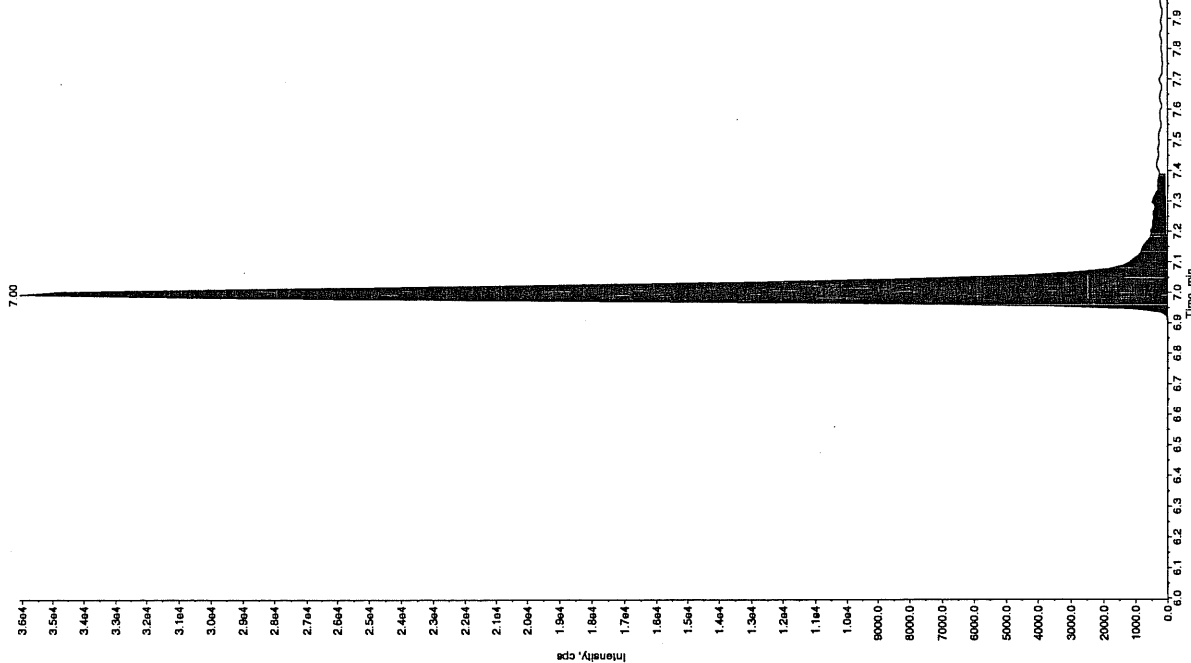
* Value outside of Recovery Limits

GL-319110

Sample Name: "WXX100305-27CR1" Sample ID: "11LER" File: "EXS0050013.wif"
Peak Name: "TATB" Mass(es): 257.2204.9 amu
Comment: "LONSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 100. ng/mL
Acq. Date: 3/5/2010
Acq. Time: 8:16:04 PM
Modified: NO
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 7.00 min
Use Relative RT: NO

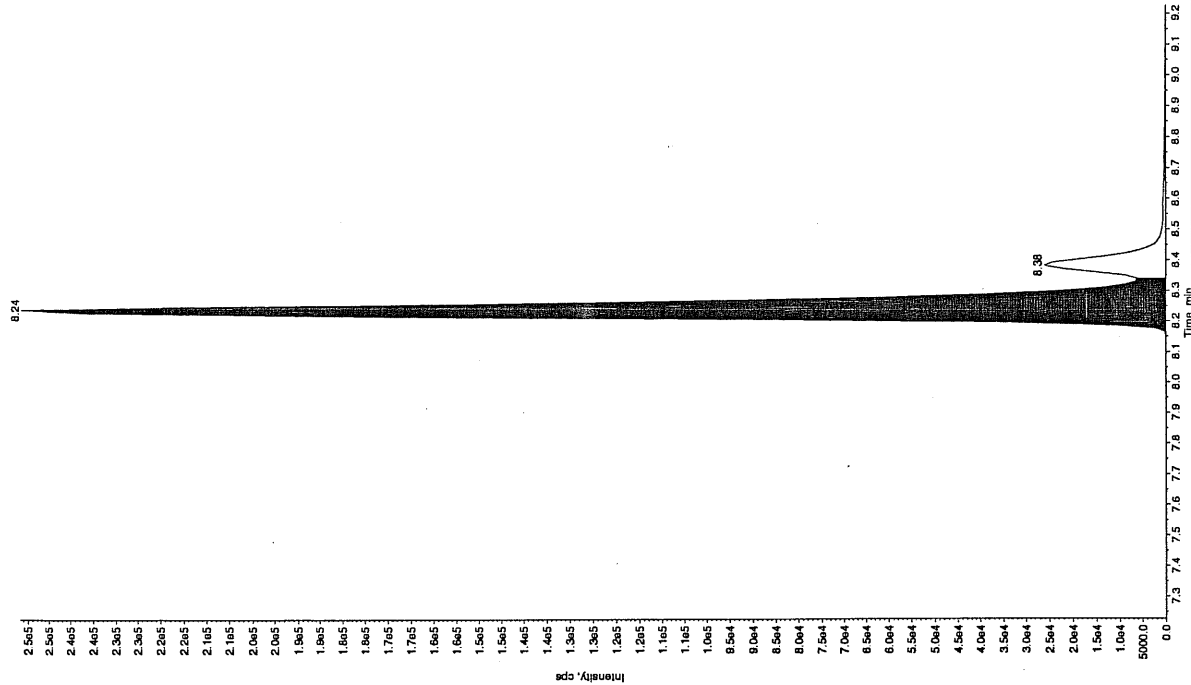
Int. Type: Valley
Retention Time: 7.00 min
Area: 1.42e+005 counts
Height: 36071.091 cps
Start Time: 6.98 min
End Time: 7.39 min



Sample Name: "WXX100305-27CR1" Sample ID: "11LER" File: "EXS0050013.wif"
Peak Name: "35-Dimicroline" Mass(es): 182.046.0 amu
Comment: "LONSEXP_C" Annotation: "

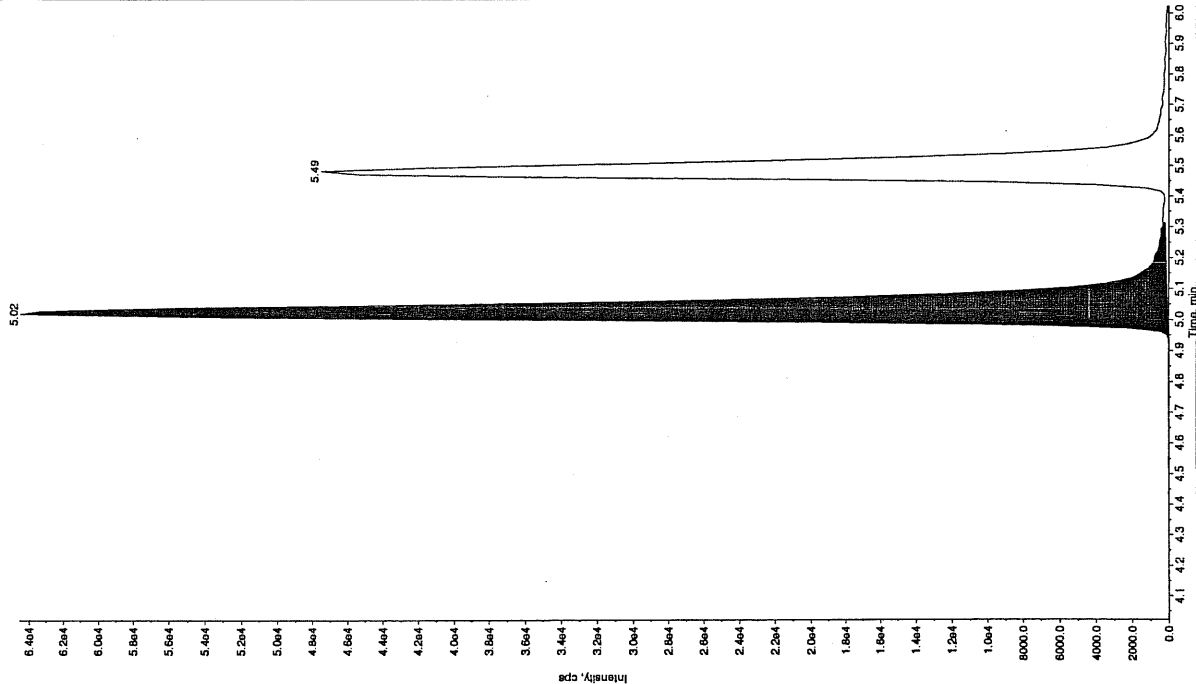
Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 100. ng/mL
Acq. Date: 3/5/2010
Acq. Time: 8:16:04 PM
Modified: NO
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.23 min
Use Relative RT: NO

Int. Type: Valley
Retention Time: 8.24 min
Area: 8.89e+005 counts
Height: 251687.103 cps
Start Time: 8.10 min
End Time: 8.34 min



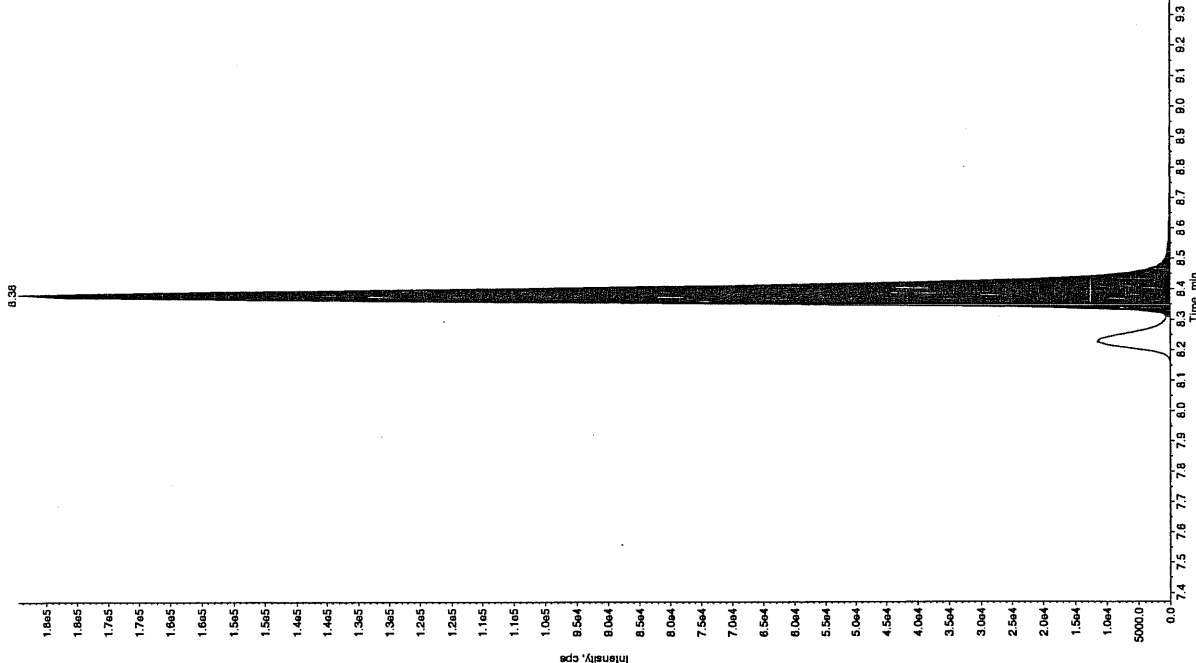
Sample Name: "WXX100305-27CRI" Sample ID: "11LER" File: "EX503050013.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "156.0/46.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

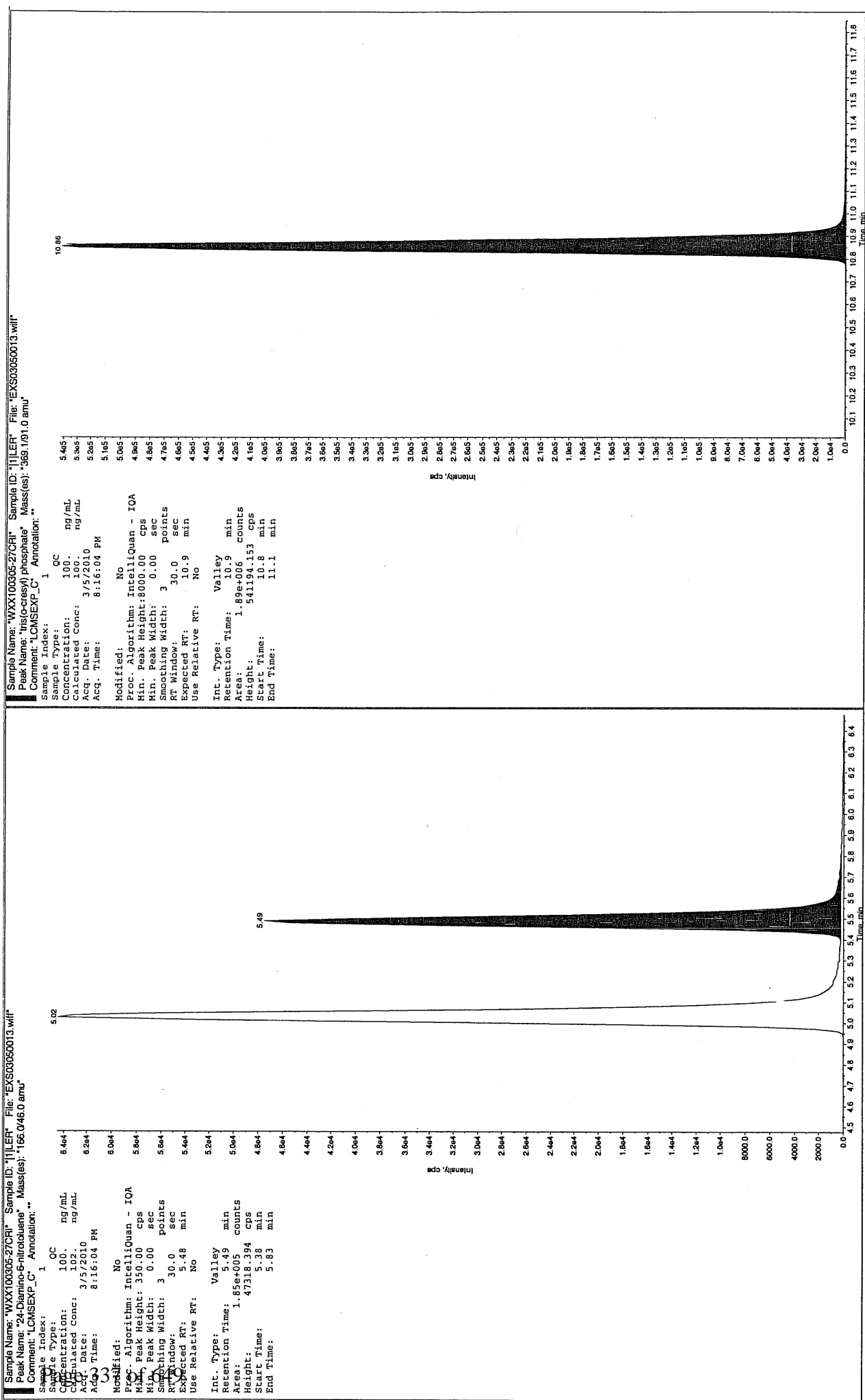
Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 104. ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 8:16:04 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.02 min
 Area: 2.66e+005 counts
 Height: 64472.961 cps
 Start Time: 4.93 min
 End Time: 5.31 min



Sample Name: "WXX100305-27CRI" Sample ID: "11LER" File: "EX503050013.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 52.0 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 8:16:04 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 8.37 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.38 min
 Area: 6.29e+005 counts
 Height: 184661.255 cps
 Start Time: 8.31 min
 End Time: 8.69 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050024.wiff

Analysis Date: 05-MAR-10 23:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	507	101	
2,6-Diamino-4-nitrotoluene	500	520	104	
3,4-Dinitrotoluene	250	237	95	
3,5-Dinitroaniline	500	509	102	
TATB	500	506	101	
tris(o-cresyl) phosphate	500	505	101	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

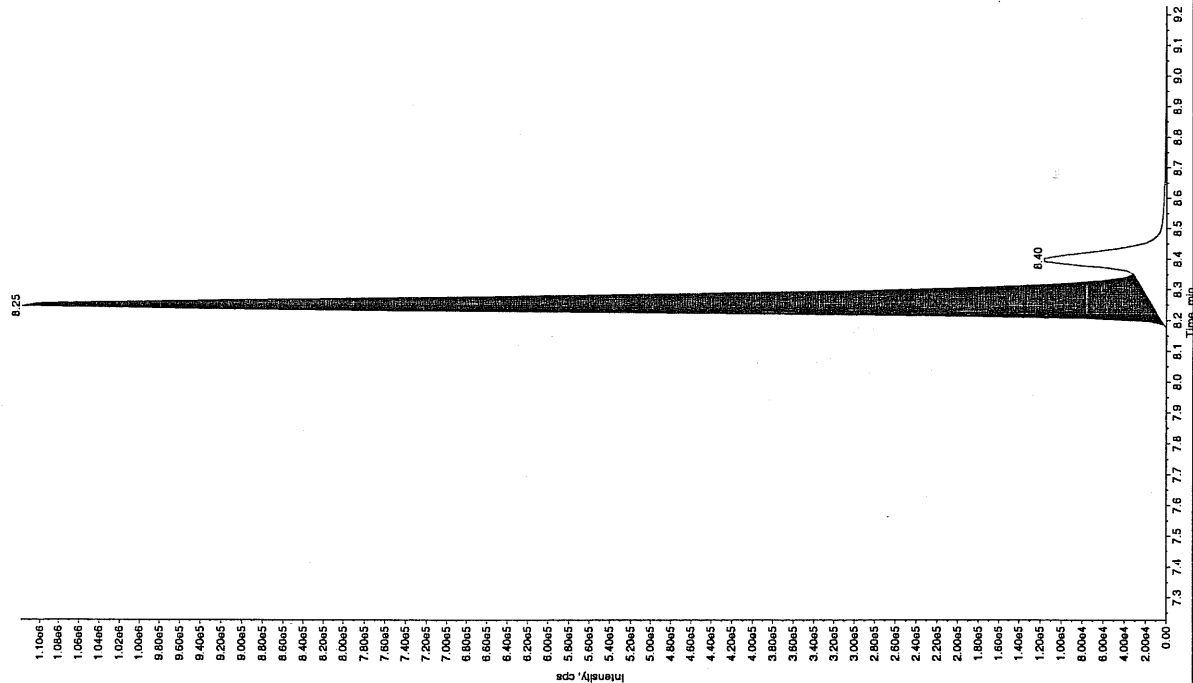
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/10

Sample Name: "WXX100305-266CV" Sample ID: "111LRT" File: "EXS03050024.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

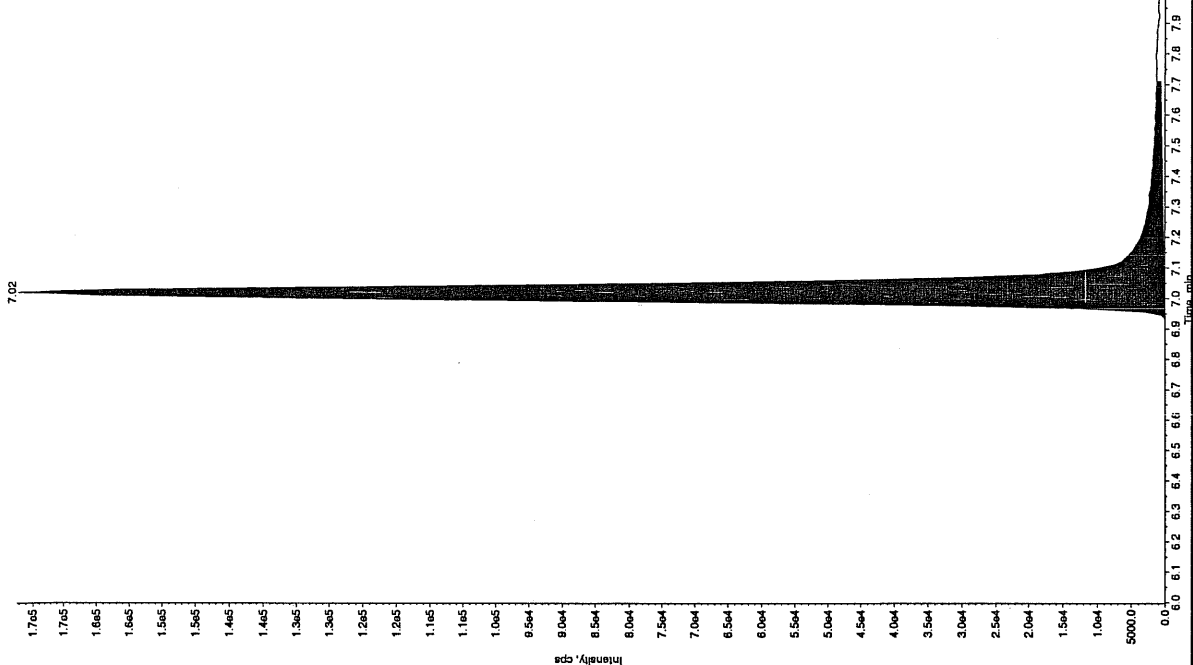
Sample Index: 1 QC
 Concentration: 500. ng/mL
 Calculated Conc: 489. ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 11:08:44 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.25 min
 Area: 4.00e+006 counts
 Height: 1103983.643 cps
 Start Time: 8.19 min
 End Time: 8.35 min



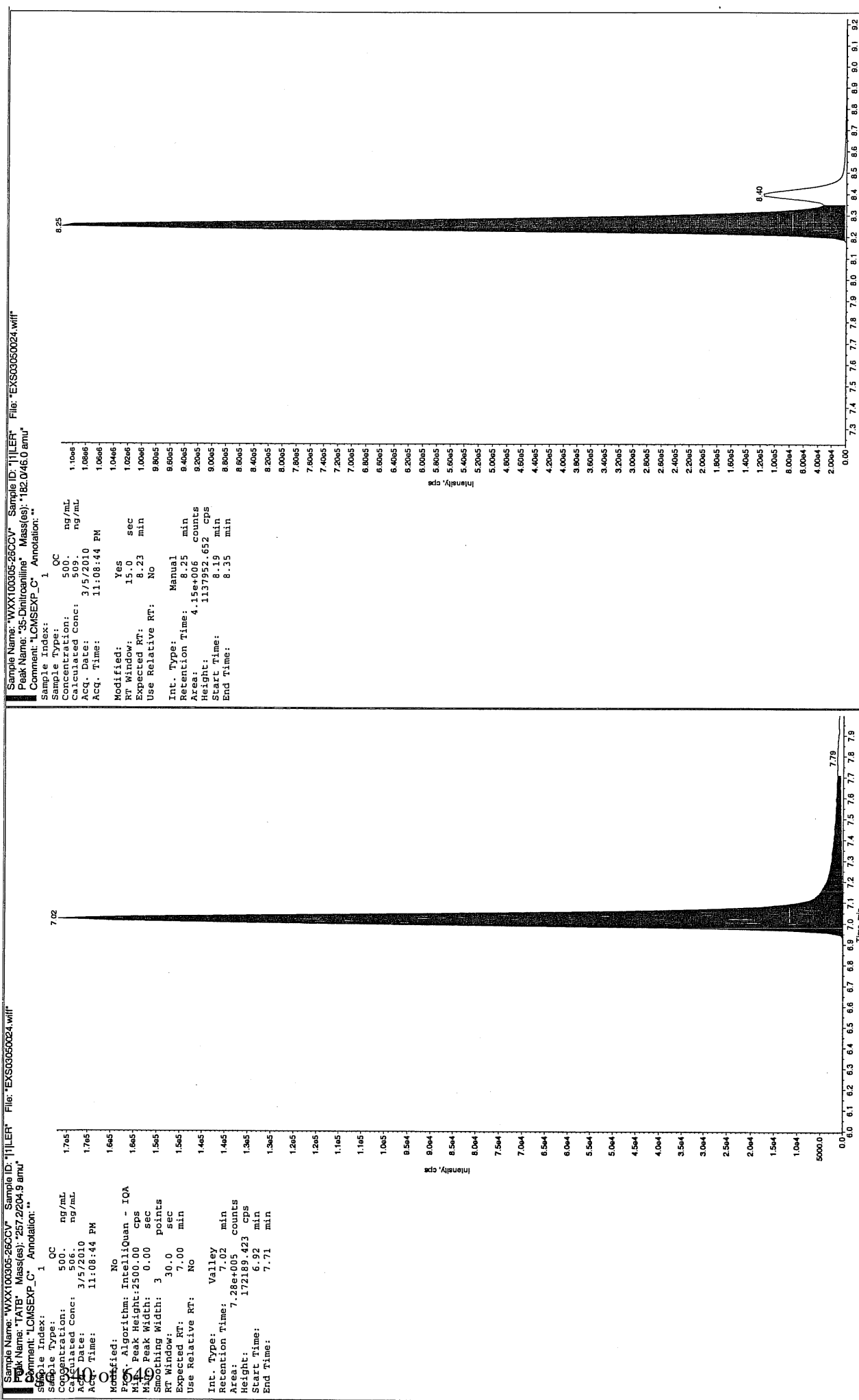
Ann 03/09/10

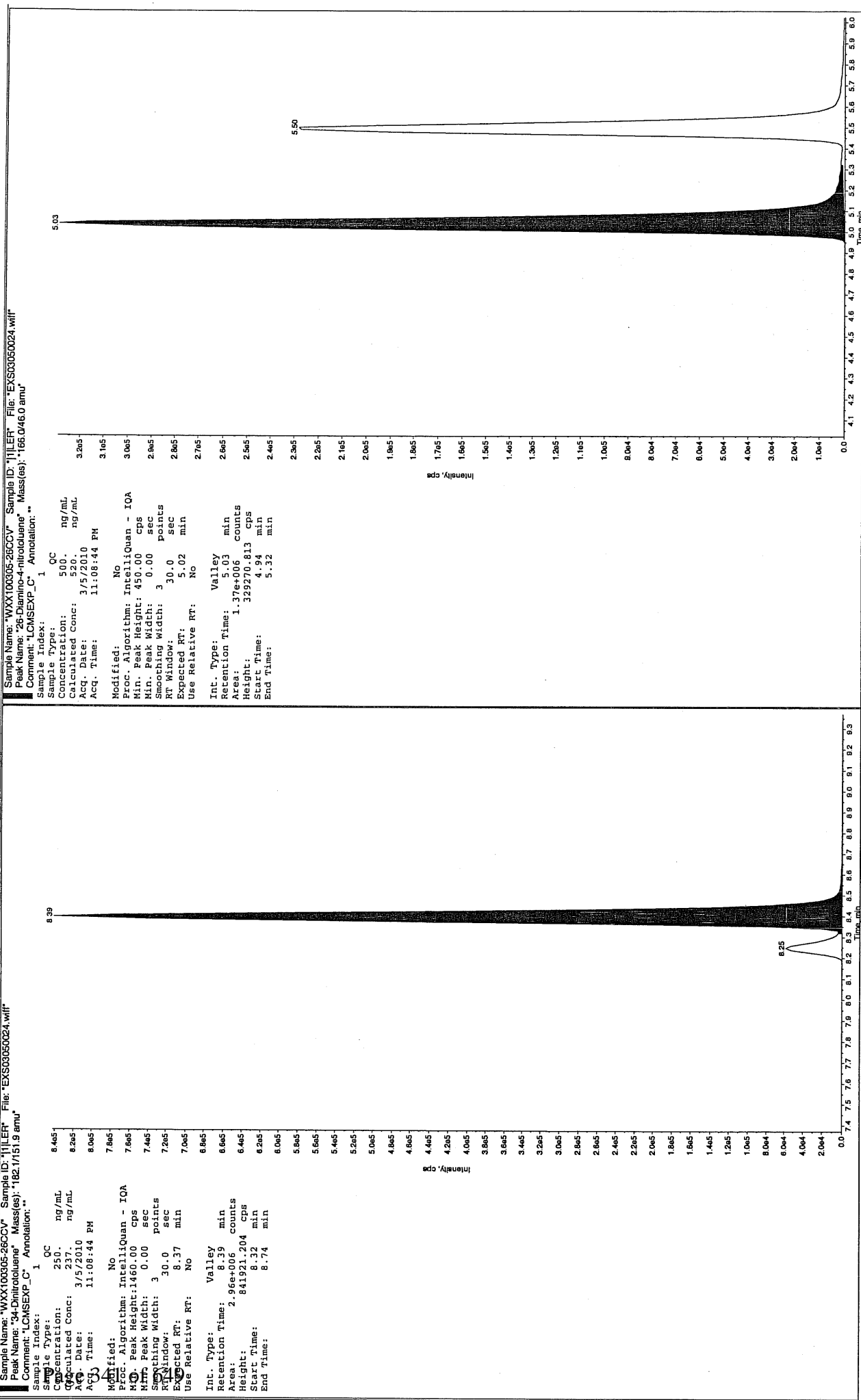
Sample Name: "WXX100305-266CV" Sample ID: "111LRT" File: "EXS03050024.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

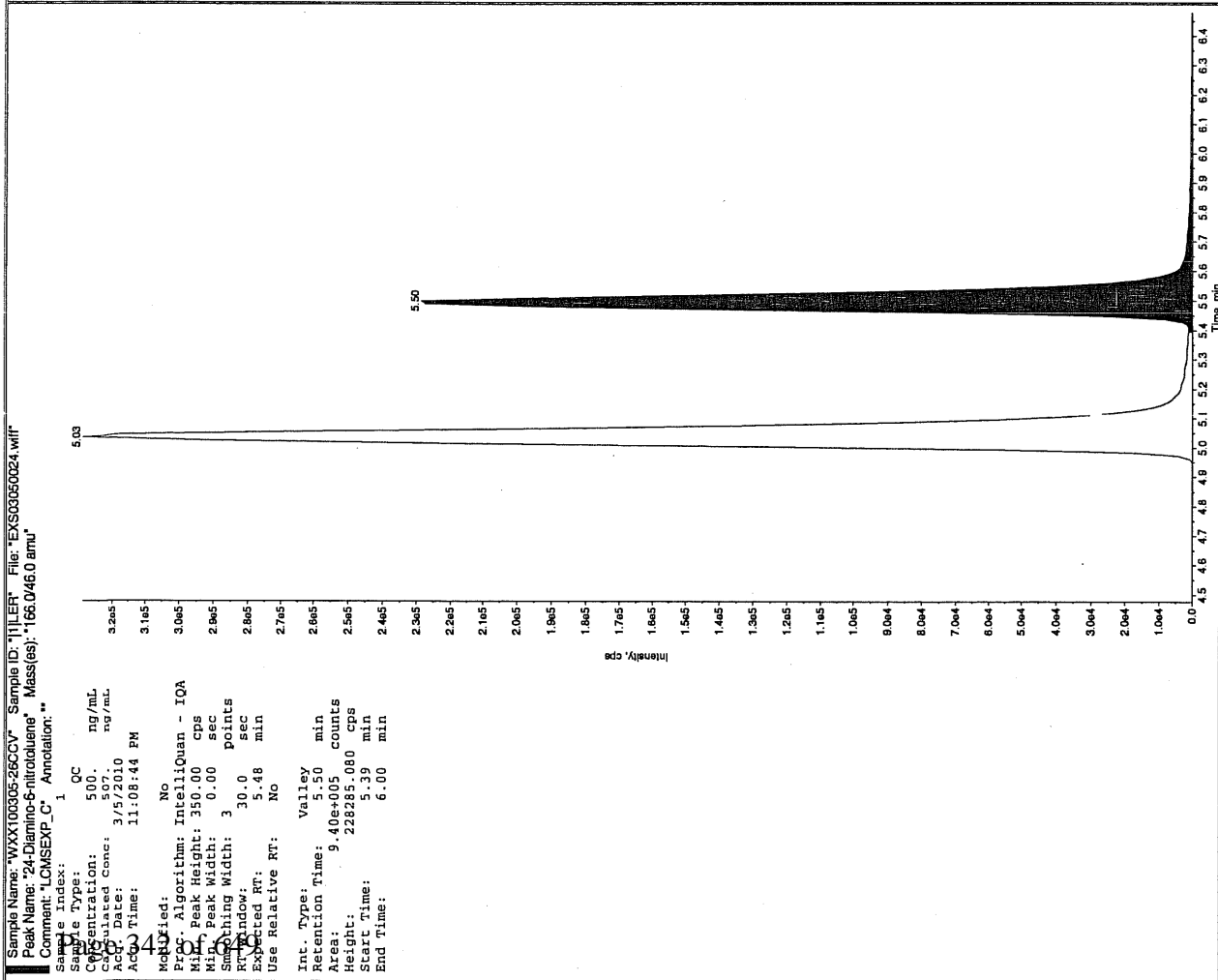
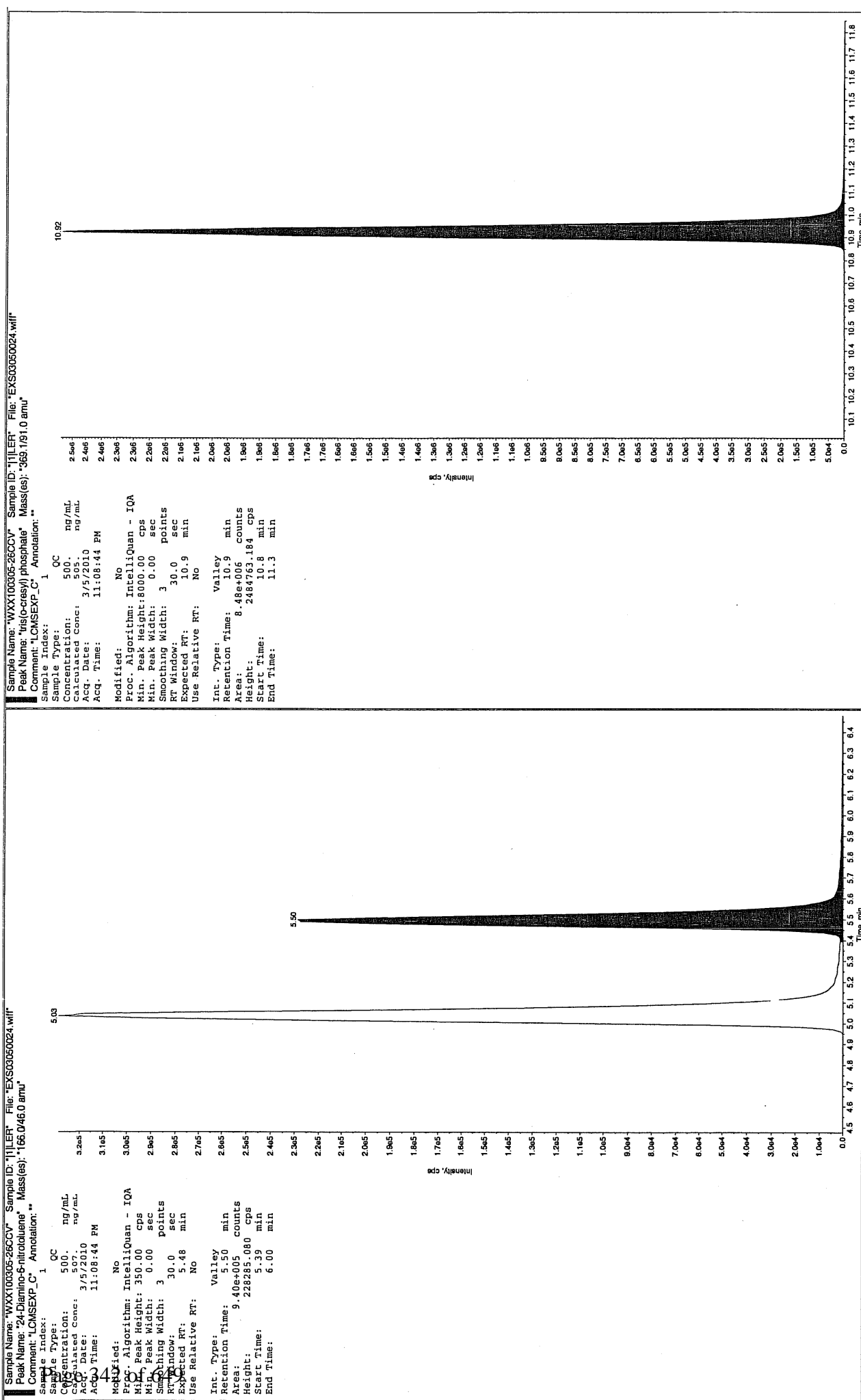
Sample Index: 1 QC
 Concentration: 500. ng/mL
 Calculated Conc: 506. ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 11:08:44 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.02 min
 Area: 7.28e+005 counts
 Height: 172189.423 cps
 Start Time: 6.92 min
 End Time: 7.71 min



after Jan 3/9/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050026.wiff

Analysis Date: 05-MAR-10 23:40

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	102	102	
2,6-Diamino-4-nitrotoluene	100	109	109	
3,4-Dinitrotoluene	50	51.8	104	
3,5-Dinitroaniline	100	105	105	
TATB	100	112	112	
tris(o-cresyl) phosphate	100	103	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

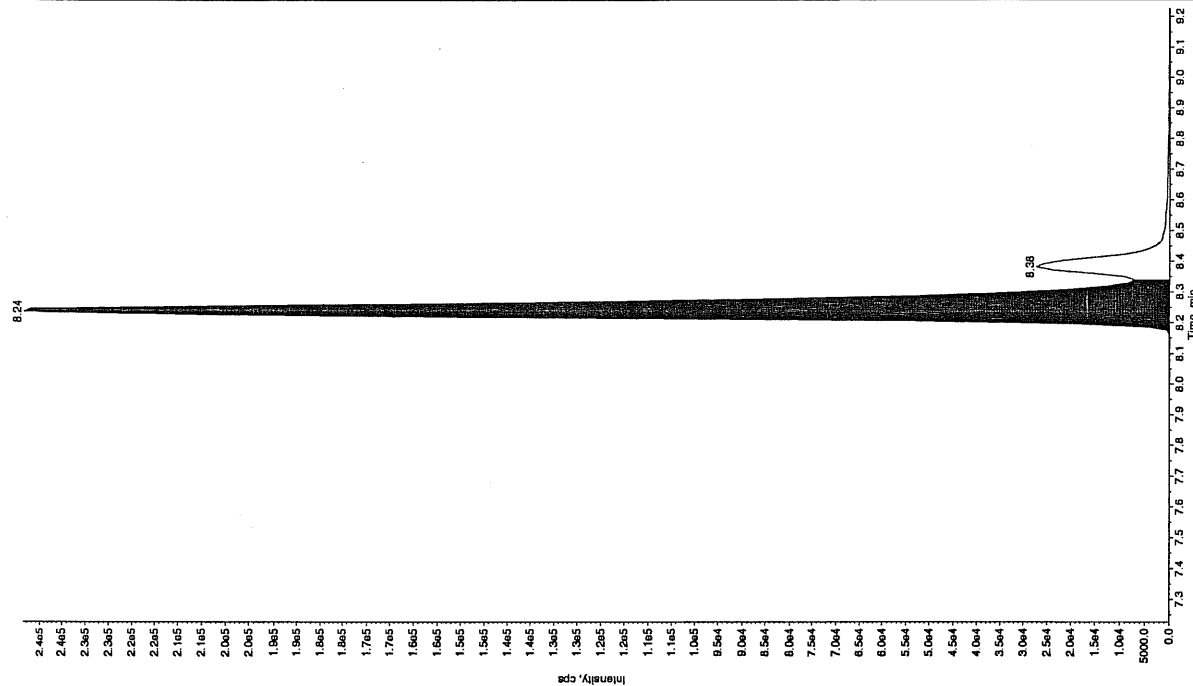
Run 3/9/10

Sample Name: "WXX100305-27GR1" Sample ID: "111LER" File: "EXS03050026.wif"

Peak Name: "35 Oxibutamine" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 100 OC
 Concentration: 105 ng/mL
 Calculated Conc: 3/5/2010
 Acq. Date: 11:40:09 PM
 Acq. Time: 11:40:09 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.24 min
 Area: 8.94e+005 counts
 Height: 243680553 cps
 Start Time: 8.13 min
 End Time: 8.34 min



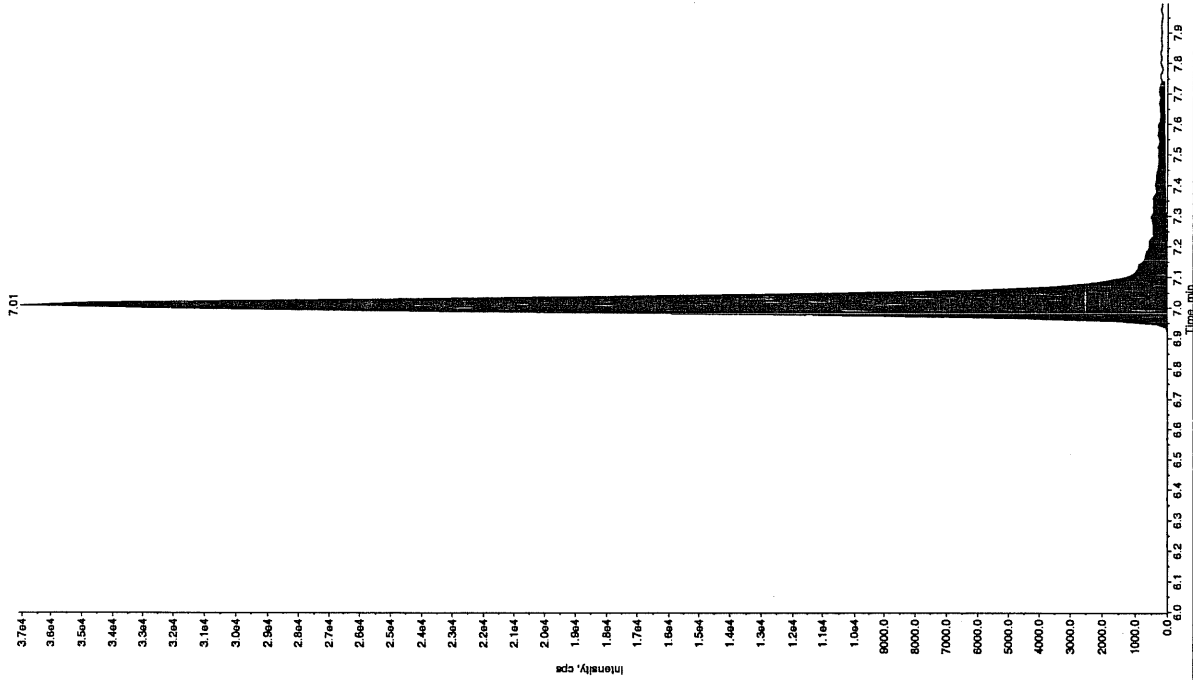
4/10/03/09/10

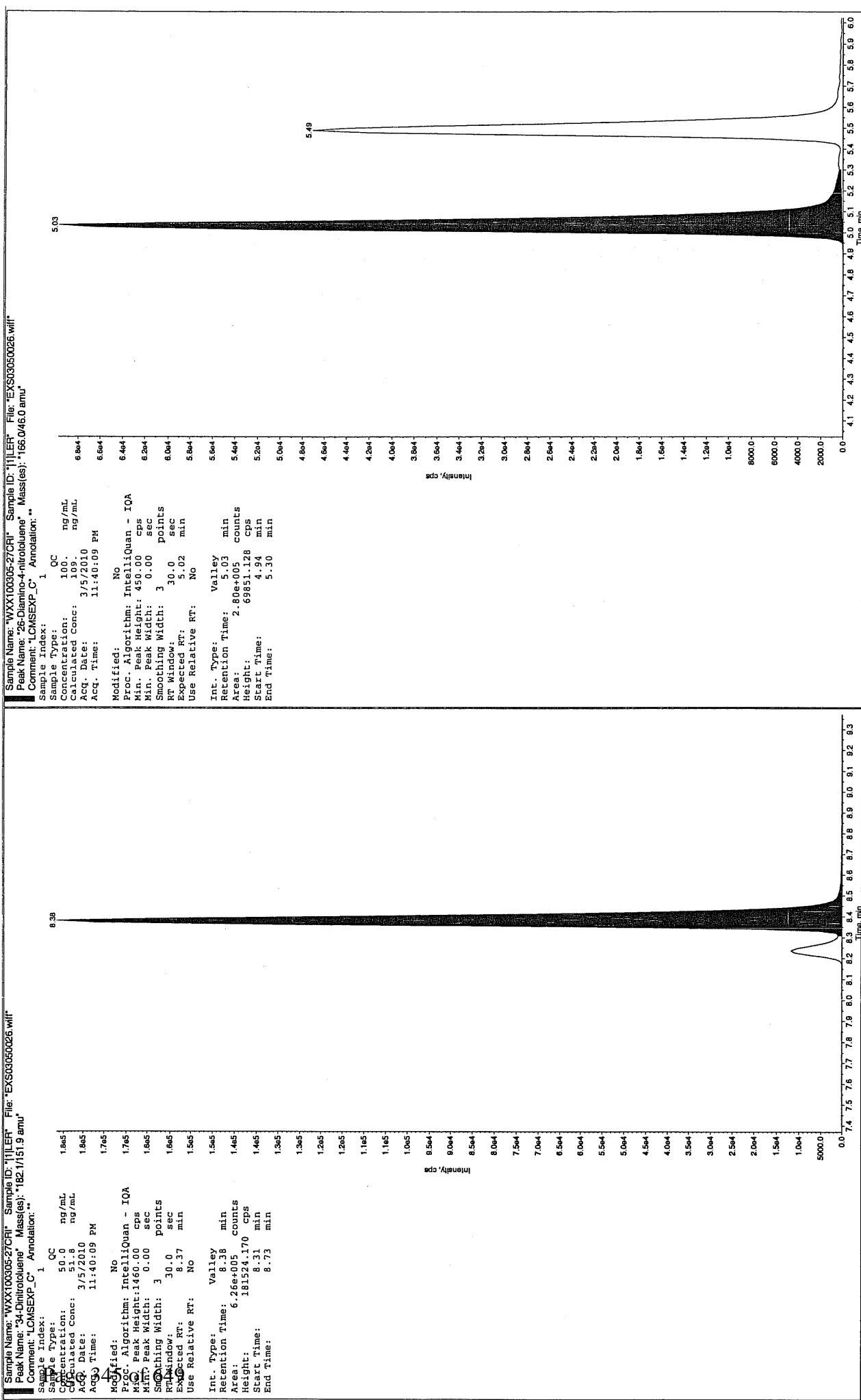
Sample Name: "WXX100305-27GR1" Sample ID: "111LER" File: "EXS03050026.wif"

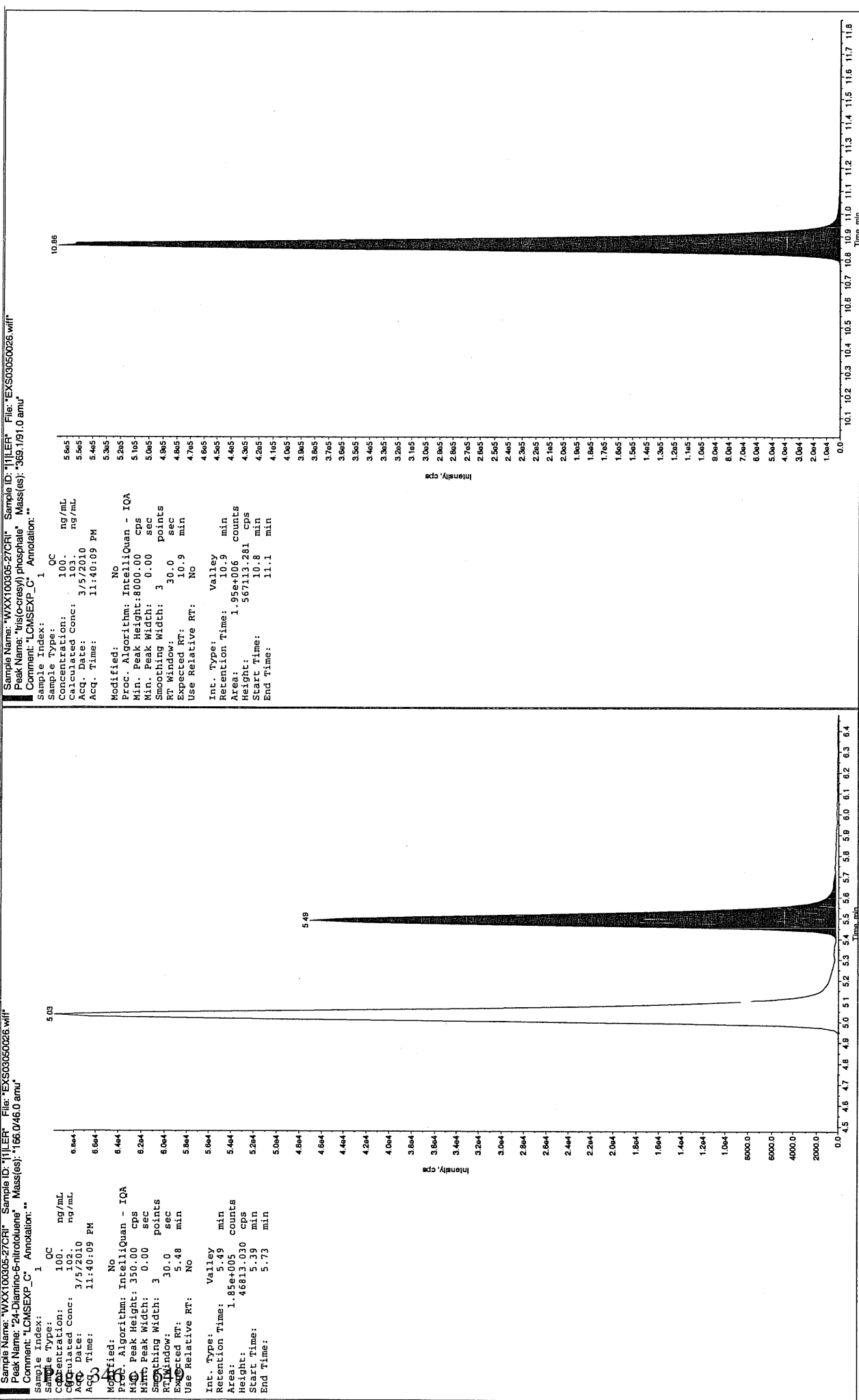
Peak Name: "TATB" Mass(es): "257.2004.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 100 OC
 Concentration: 112 ng/mL
 Calculated Conc: 3/5/2010
 Acq. Date: 11:40:09 PM
 Acq. Time: 11:40:09 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.01 min
 Area: 1.47e+005 counts
 Height: 37050164 cps
 Start Time: 6.90 min
 End Time: 7.74 min







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050035.wiff

Analysis Date: 06-MAR-10 02:01

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	509	102	
2,6-Diamino-4-nitrotoluene	500	531	106	
3,4-Dinitrotoluene	250	246	98	
3,5-Dinitroaniline	500	529	106	
TATB	500	534	107	
tris(o-cresyl) phosphate	500	503	101	

Recovery Limits:

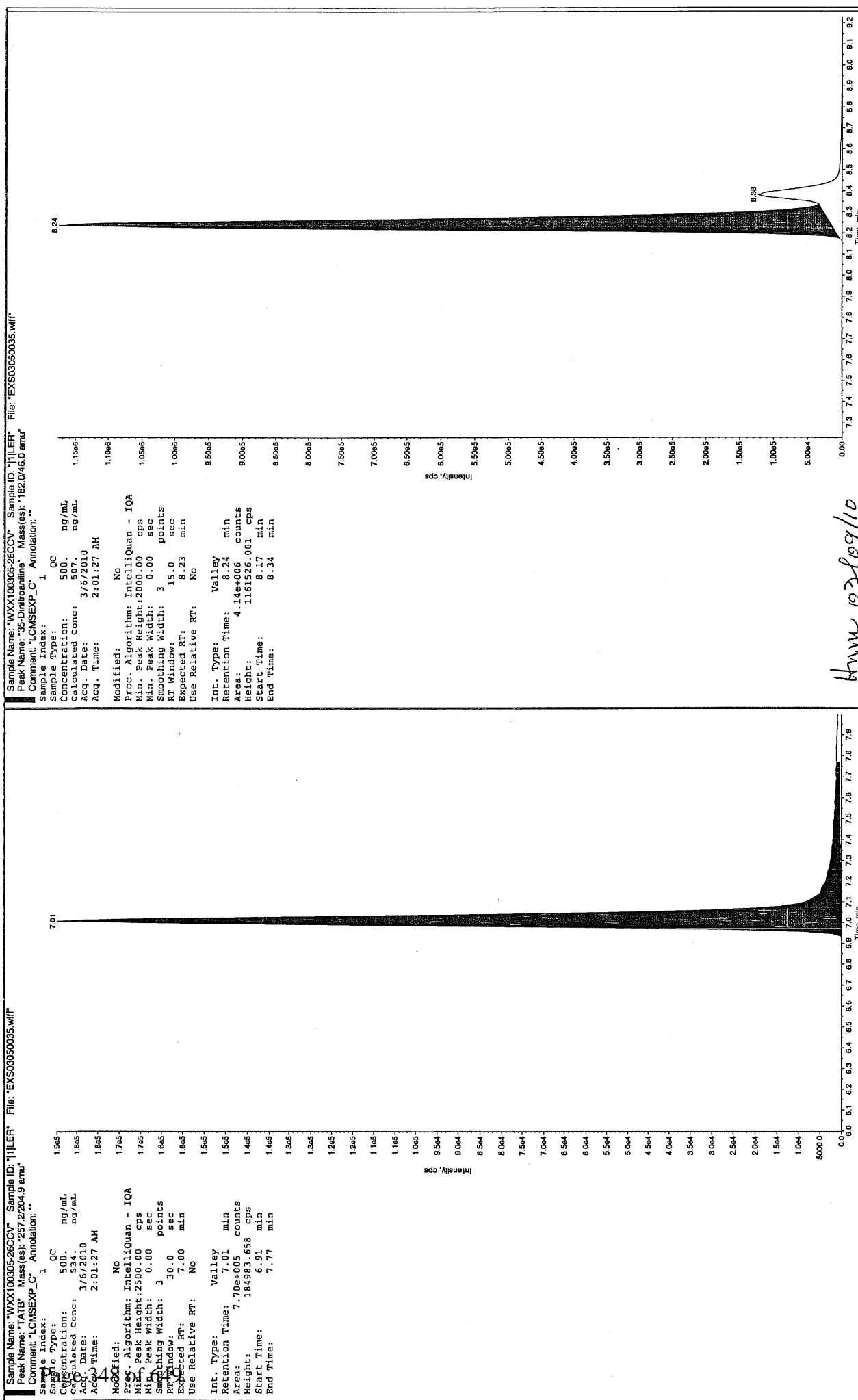
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 30/10



After Jan 28/09/10

after Jan 3/9/10

Sample Name: "WXX100305-26CCV" Sample ID: "JILR" File: "EXS03050035.wif"

Peak Name: "3S-Dinitroamine" Mass(es): "182.046.0 amu"

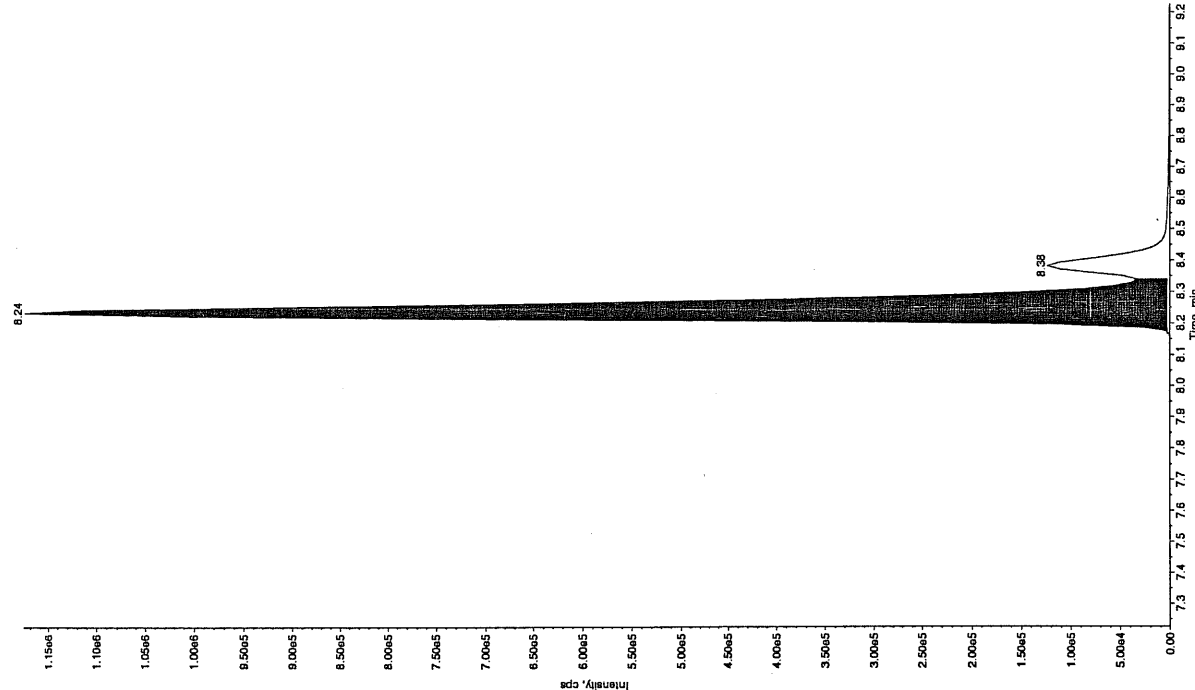
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC
Concentration: 500. ng/mL
Acquired Conc: 529. ng/mL
Acq. Date: 3/6/2010
Acq. Time: 2:01:27 AM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.23 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.24 min
Area: 4.30e+006 counts
Height: 118192.758 cps
Start Time: 8.16 min
End Time: 8.34 min



Sample Name: "WXX100305-26CCV" Sample ID: "JILR" File: "EXS03050035.wif"

Peak Name: "IATB" Mass(es): "257.2204.9 amu"

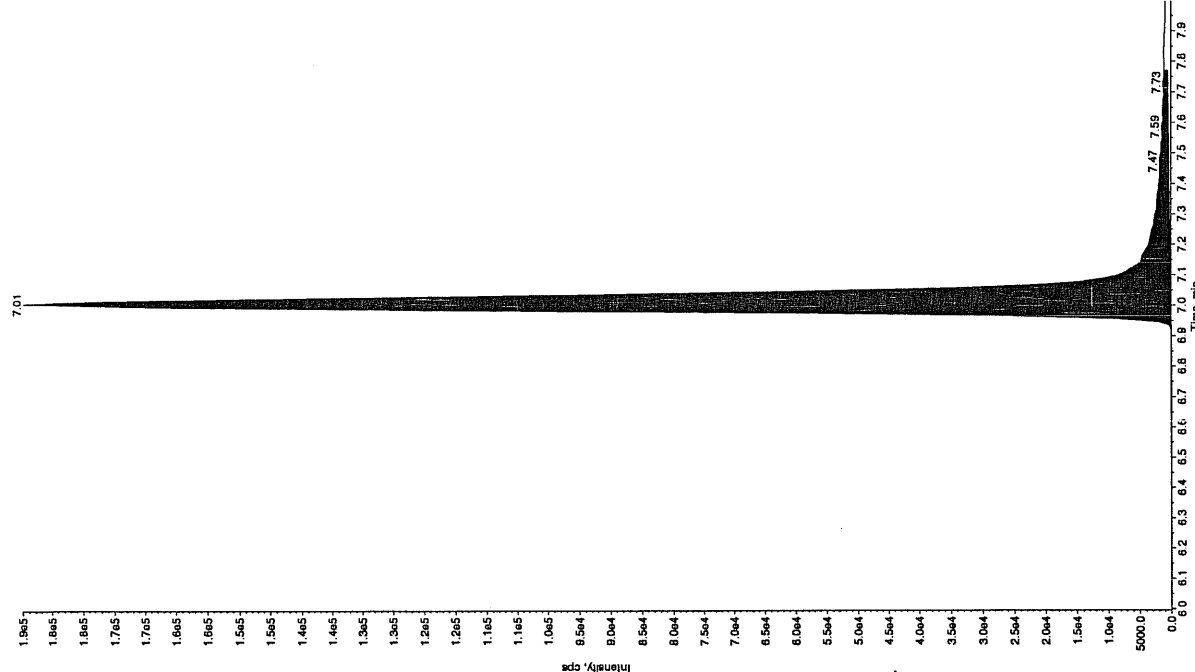
Comment: "LCMSEXP_C" Annotation: ""

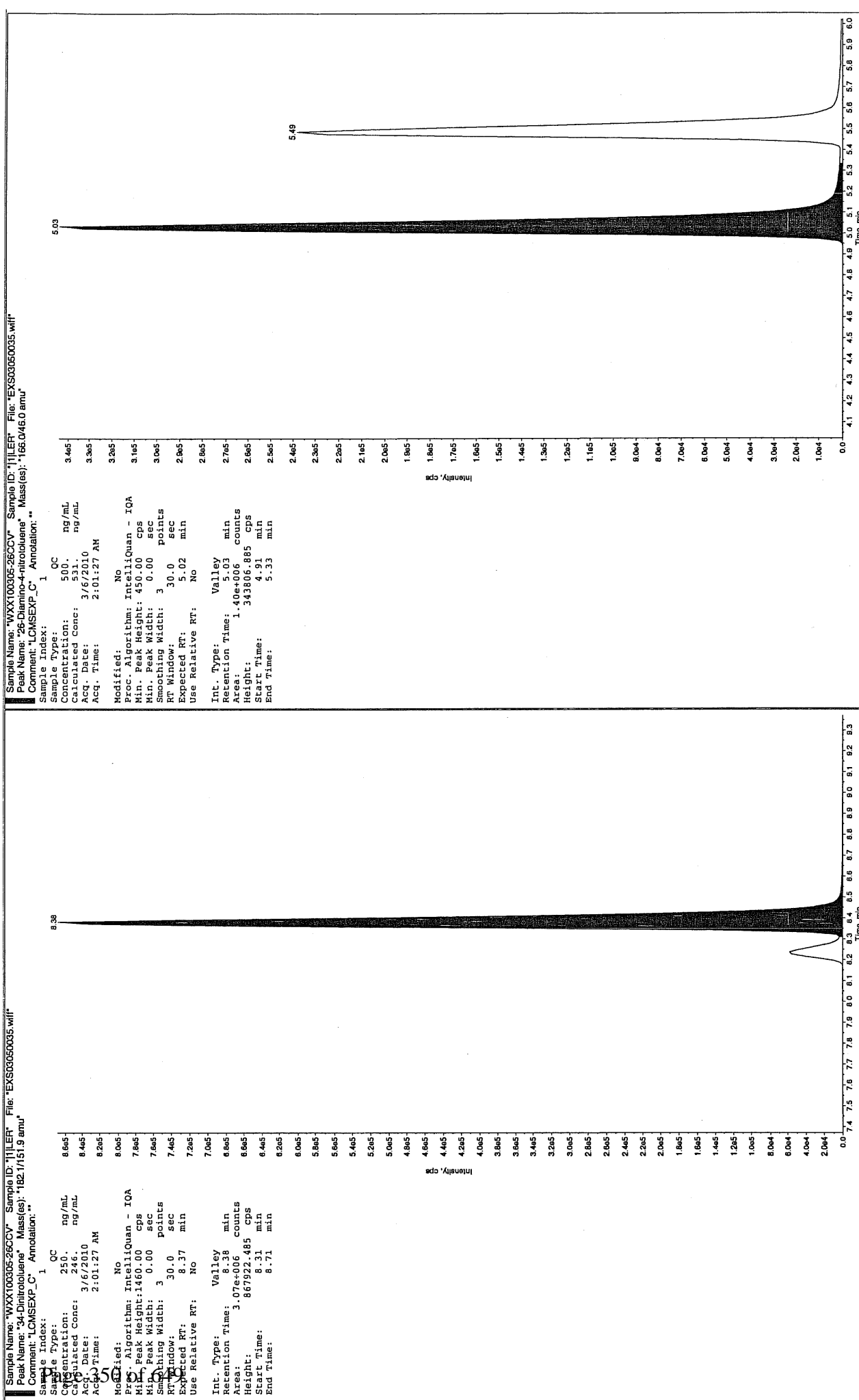
Sample Index: 1

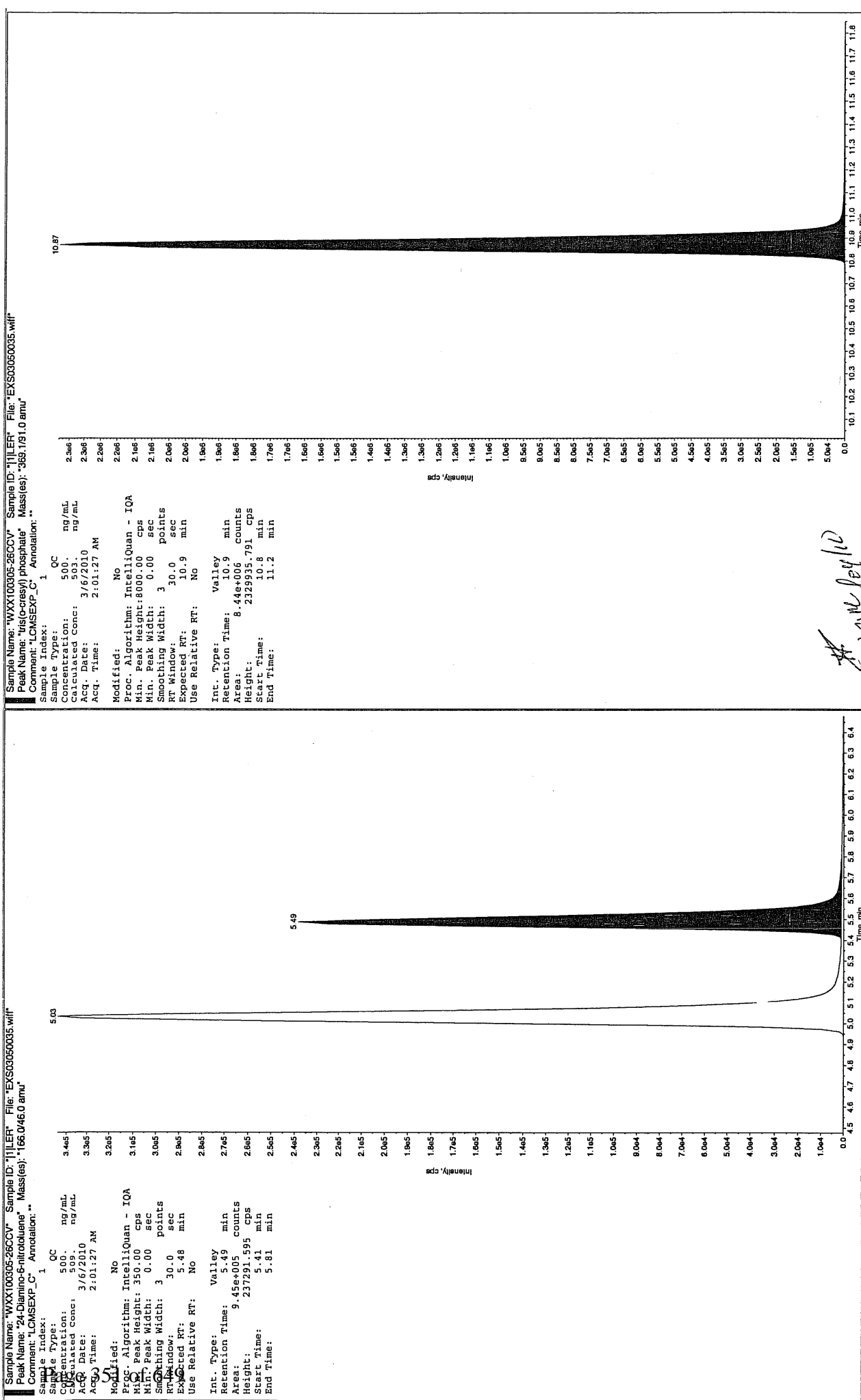
Sample Type: QC
Concentration: 500. ng/mL
Acquired Conc: 529. ng/mL
Acq. Date: 3/6/2010
Acq. Time: 2:01:27 AM

Modified: No
Int. Algorithm: IntCellQuan - IQA
Min. Peak Height: 2500.00 cps
Max. Peak Height: 3.00 sec
Smoothing Width: 30.0 points
RT Window: 30.0 sec
Expected RT: 7.00 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.01 min
Area: 7.70e+005 counts
Height: 184983.658 cps
Start Time: 6.91 min
End Time: 7.77 min







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050037.wiff

Analysis Date: 06-MAR-10 02:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	110	110	
2,6-Diamino-4-nitrotoluene	100	113	113	
3,4-Dinitrotoluene	50	52.5	105	
3,5-Dinitroaniline	100	110	110	
TATB	100	112	112	
tris(o-cresyl) phosphate	100	97.2	97	

Recovery Limits:

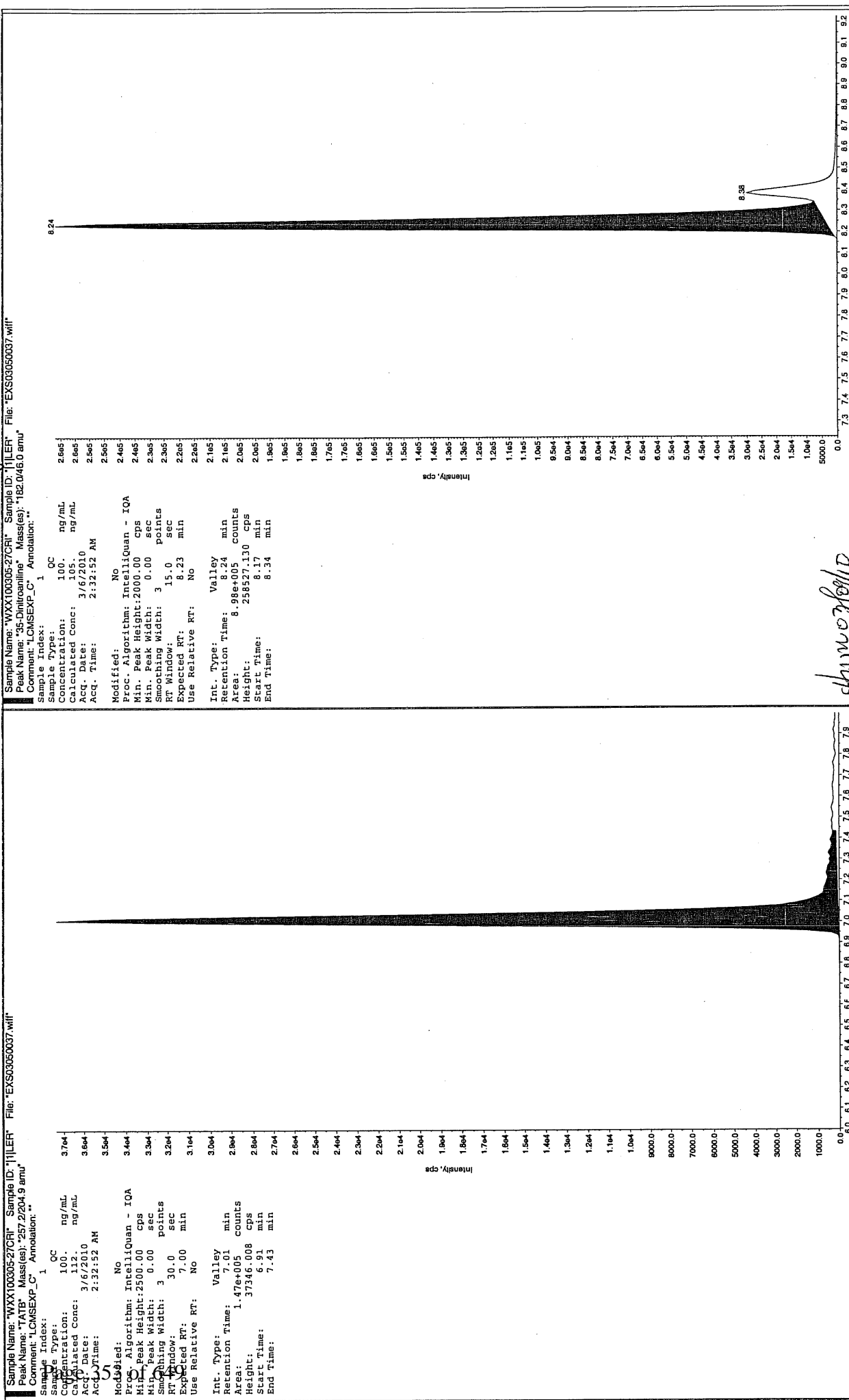
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/10



chromatogram

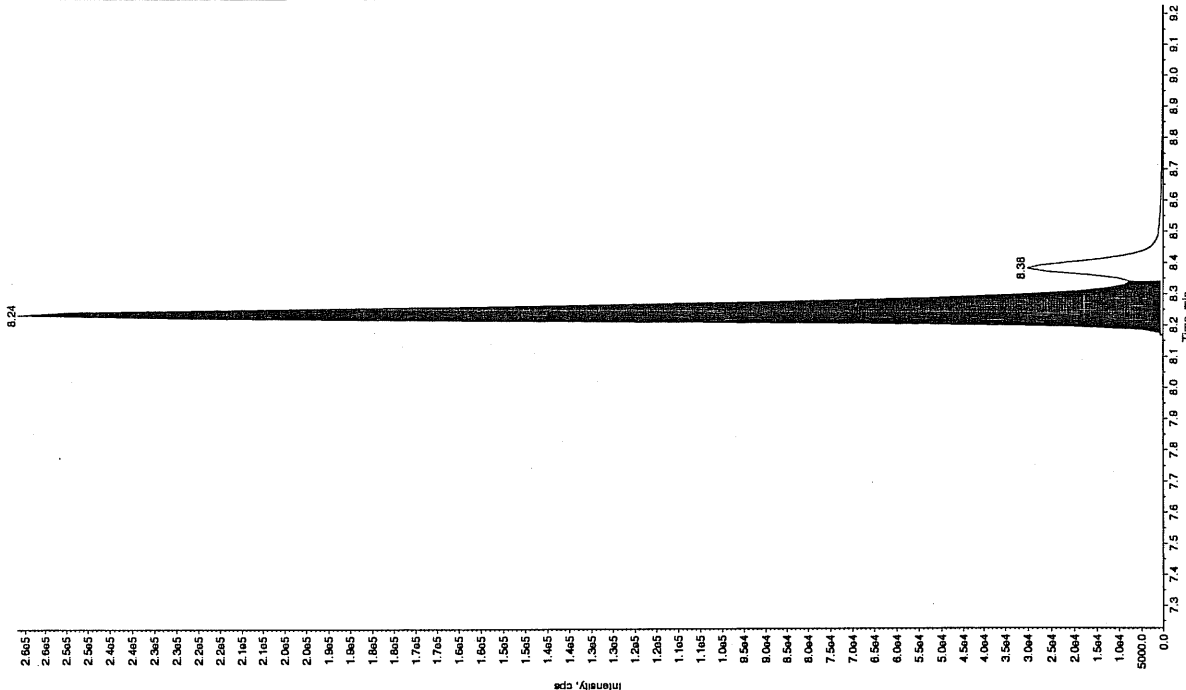
after scan 3/19/10

Sample Name: "WXX100305-270R1" Sample ID: "111LER" File: "EXS03050037.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 110. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 2:32:52 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.24 min
 Area: 9.35e+005 counts
 Height: 263004.667 cps
 Start Time: 8.16 min
 End Time: 8.34 min

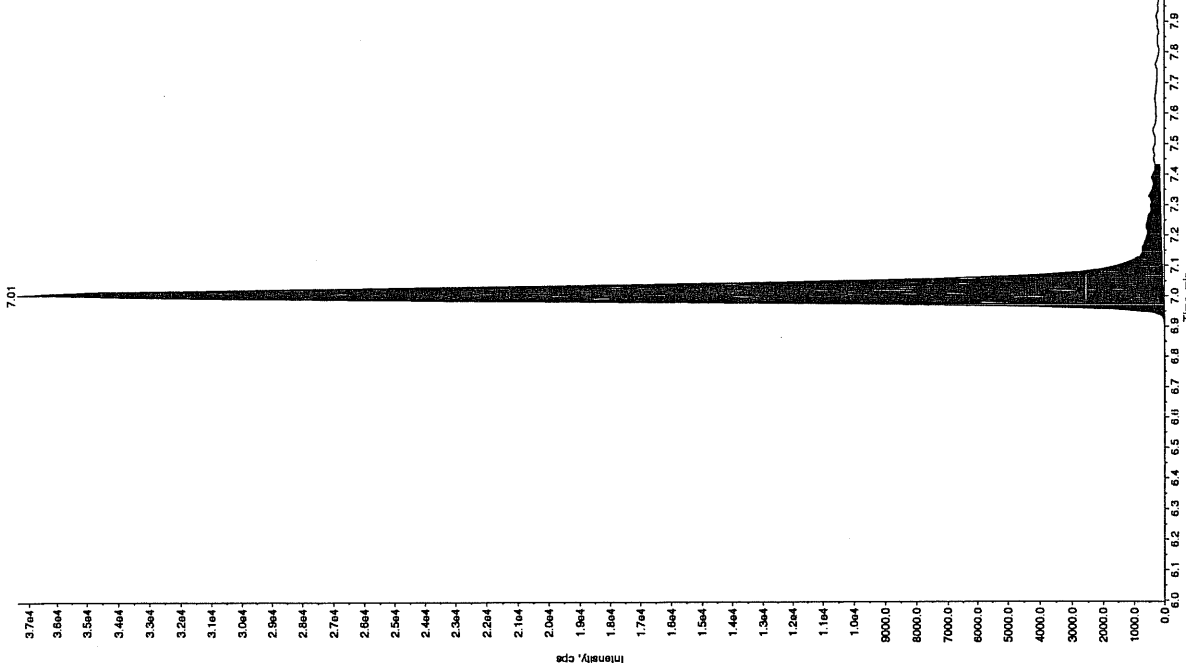


Sample Name: "WXX100305-270R1" Sample ID: "111LER" File: "EXS03050037.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

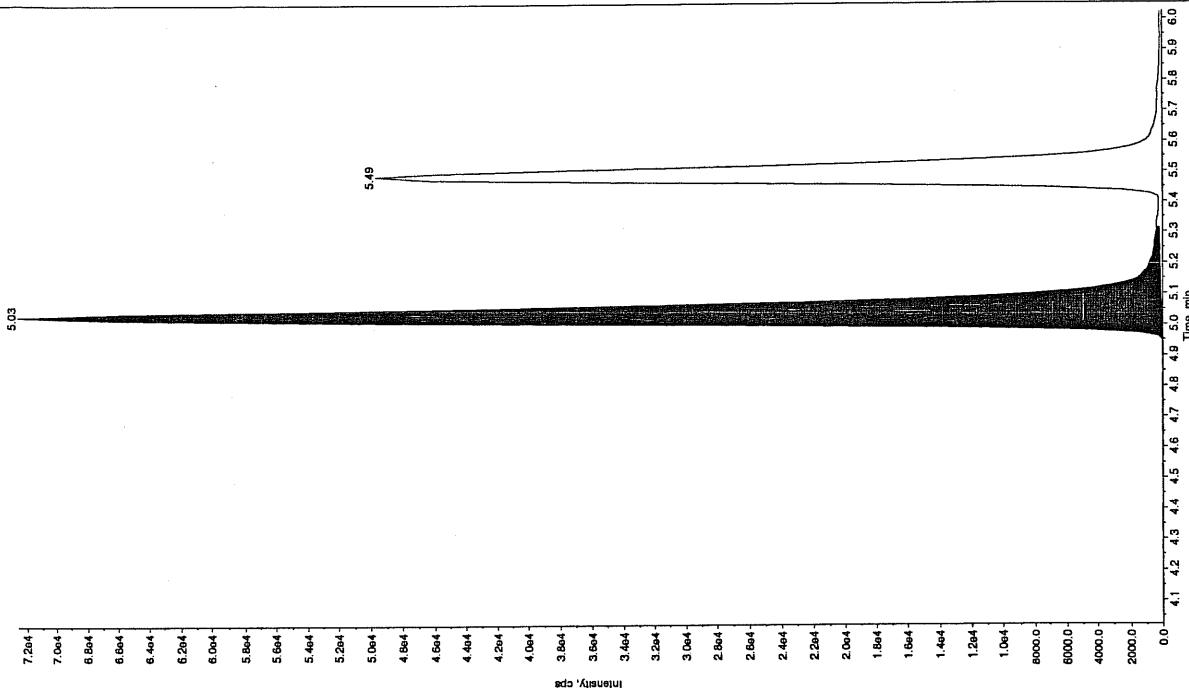
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 112. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 2:32:52 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.01 min
 Area: 1.47e+005 counts
 Height: 37346.008 cps
 Start Time: 6.91 min
 End Time: 7.43 min



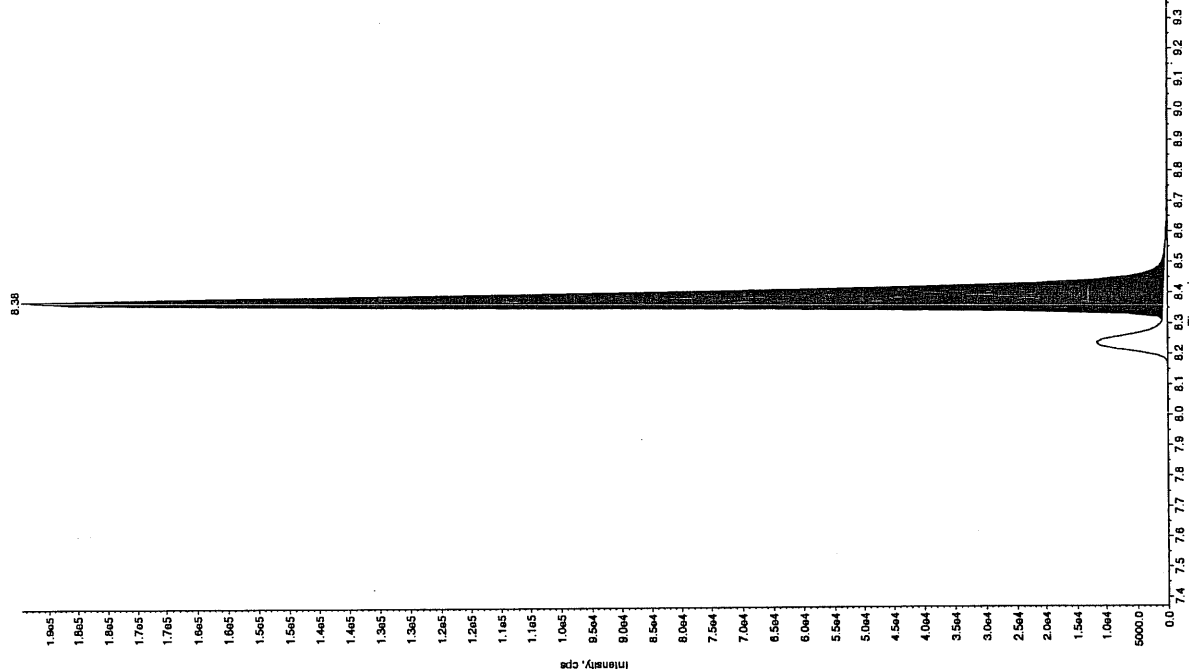
Sample Name: "WXX100305-27CRL" Sample ID: "11LER" File: "EXS03050037.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

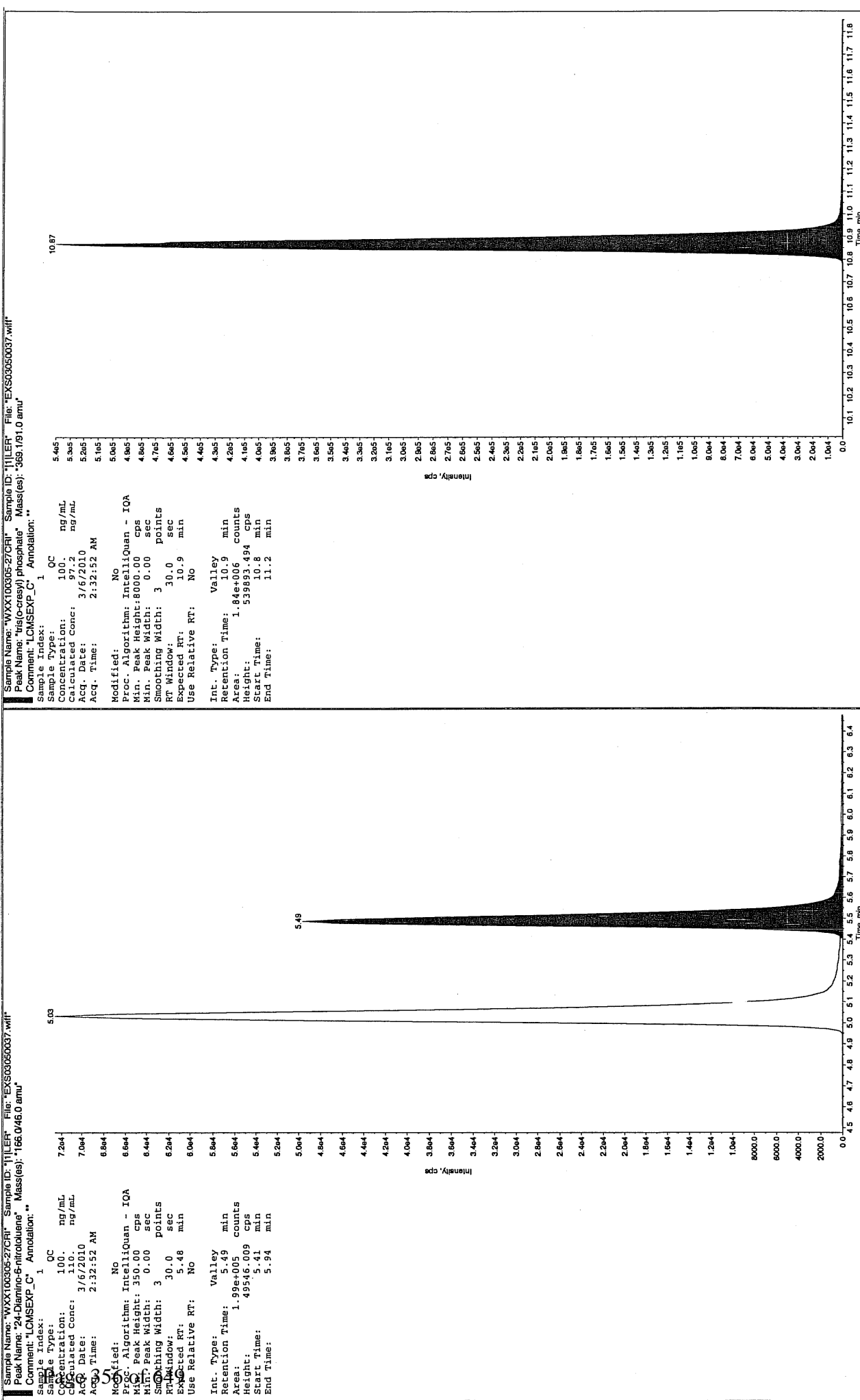
Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 113. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 2:32:52 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.03 min
 Area: 2.89e+005 counts
 Height: 72523.758 cps
 Start Time: 4.94 min
 End Time: 5.31 min



Sample Name: "WXX100305-27CRL" Sample ID: "11LER" File: "EXS03050037.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.17151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 52.5 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 2:32:52 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 8.37 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.38 min
 Area: 6.35e+005 counts
 Height: 185075.043 cps
 Start Time: 8.31 min
 End Time: 8.59 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050048.wiff

Analysis Date: 06-MAR-10 05:25

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	541	108	
2,6-Diamino-4-nitrotoluene	500	545	109	
3,4-Dinitrotoluene	250	237	95	
3,5-Dinitroaniline	500	507	101	
TATB	500	532	106	
tris(o-cresyl) phosphate	500	501	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

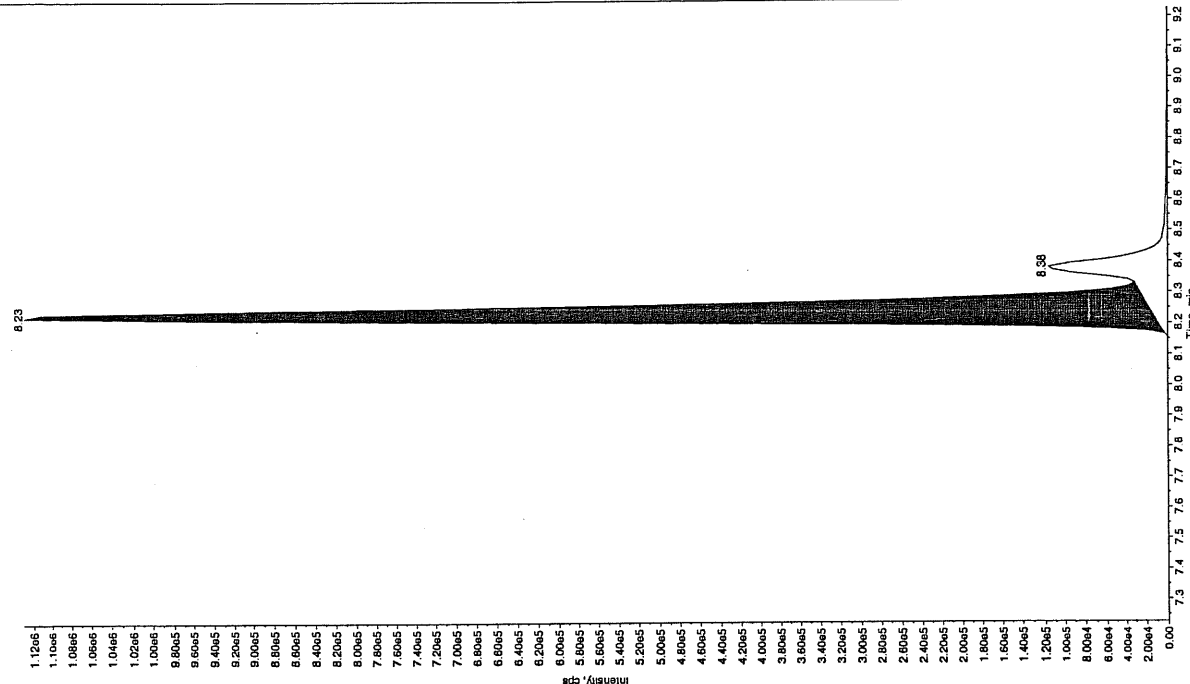
Before Jan 31/10

Sample Name: "WXX100305-260CV" Sample ID: "J1LER" File: "EXS03050048.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 487 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:25:35 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.23 min
 Area: 3.99e+006 counts
 Height: 1116178.101 cps
 Start Time: 8.16 min
 End Time: 8.33 min



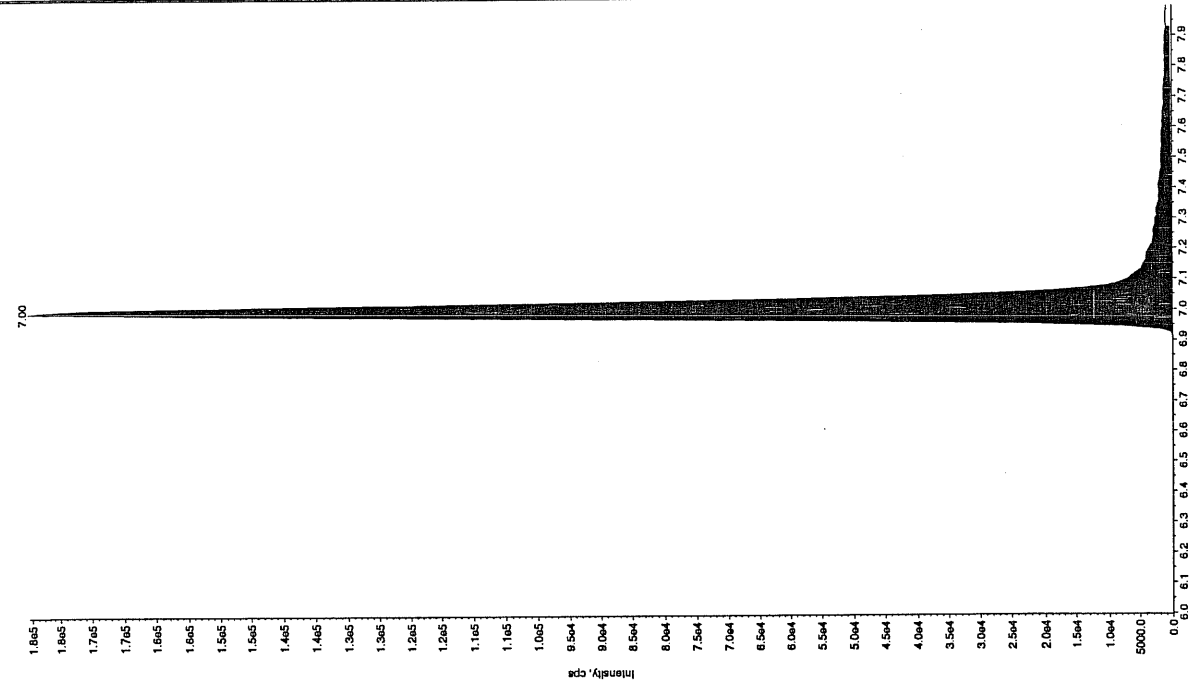
dmw 03/09/10

Sample Name: "WXX100305-260CV" Sample ID: "J1LER" File: "EXS03050048.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_C" Annotation: "

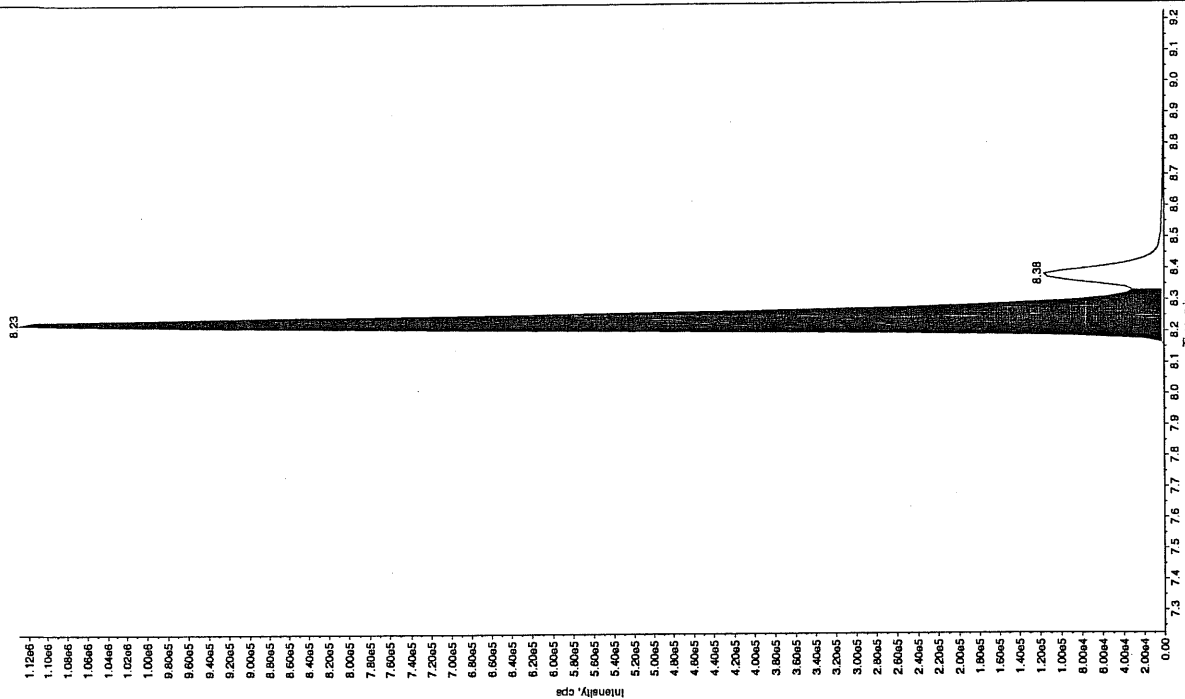
Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 530 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:25:35 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.00 min
 Area: 7.66e+005 counts
 Height: 180460.495 cps
 Start Time: 6.90 min
 End Time: 7.93 min



After day 39/10

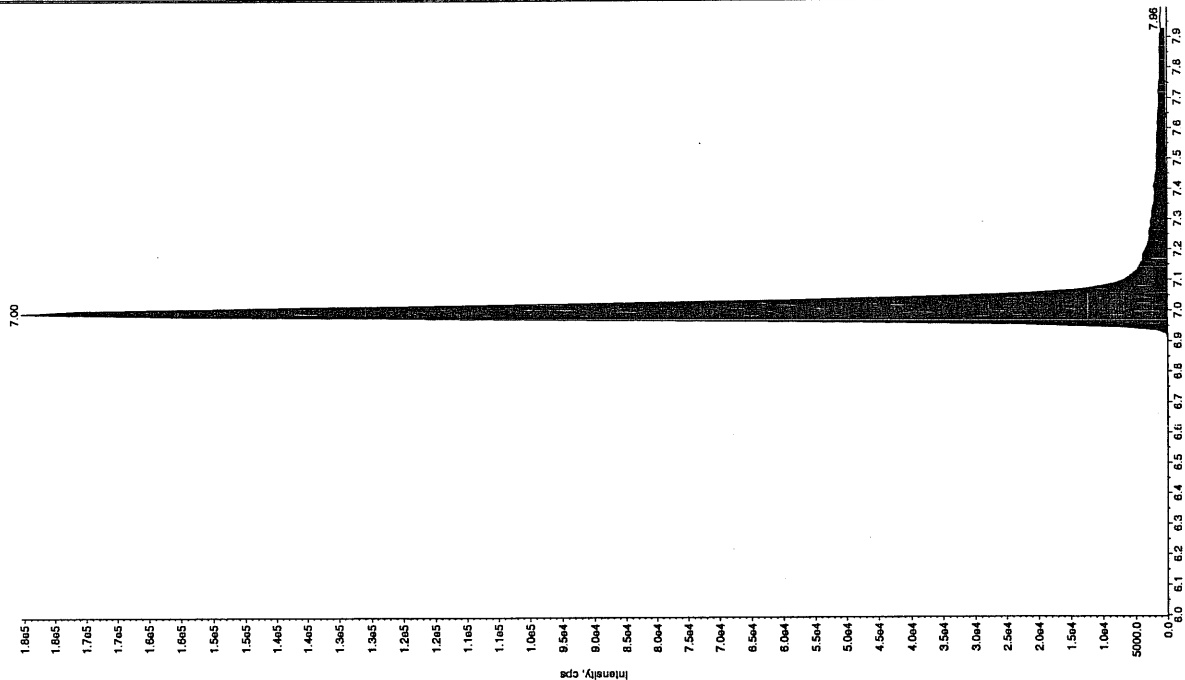
Sample Name: "WXX100305-260CV" Sample ID: "JILER" File: "EXS03050048.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

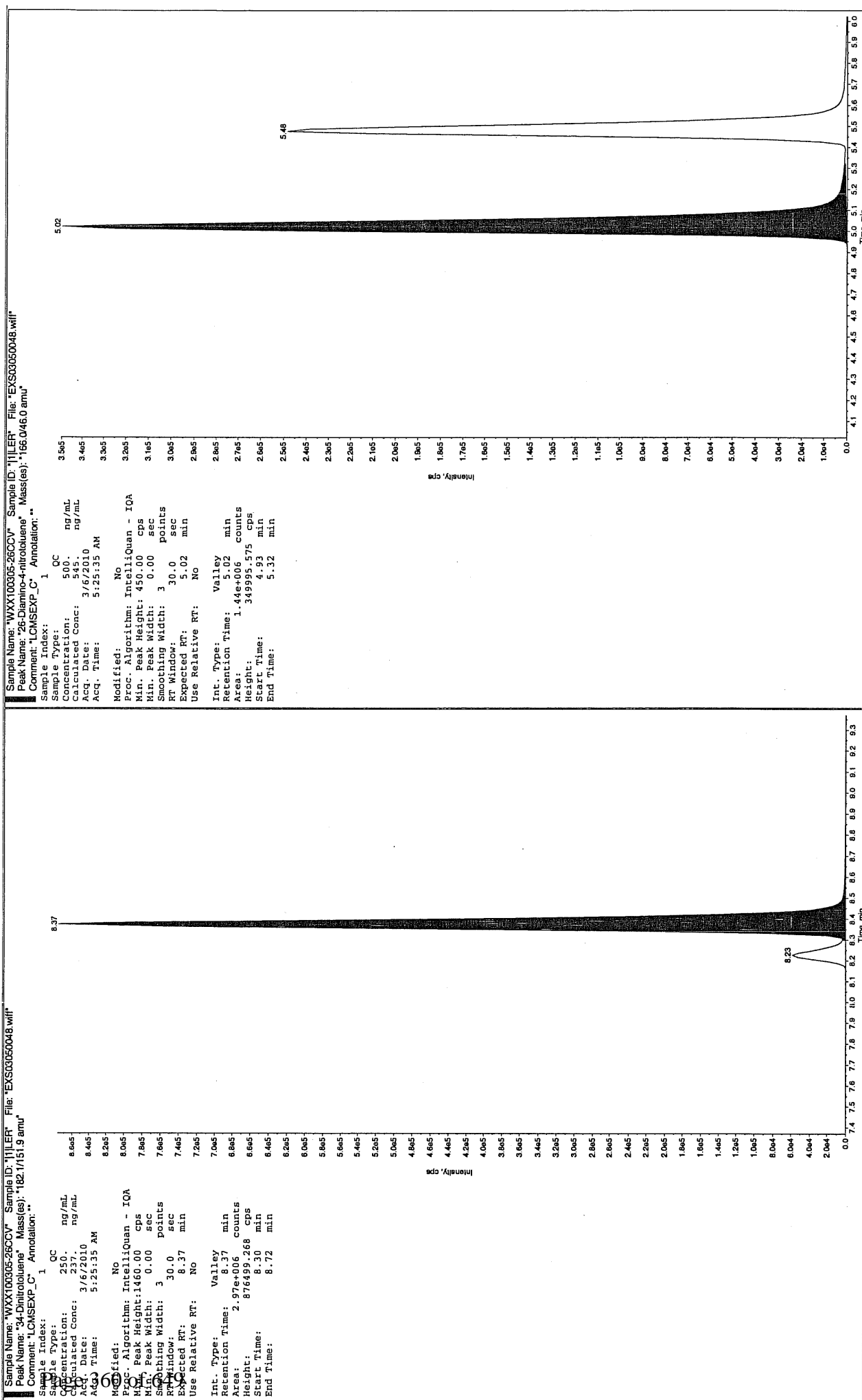
Sample Index: 1 QC
 Sample Type: 500. ng/mL
 Concentration: 507. ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 5:25:35 AM
 Acq. Time: 1066
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.23 min
 Area: 4.13e+006 counts
 Height: 1147846.356 cps
 Start Time: 8.16 min
 End Time: 8.33 min

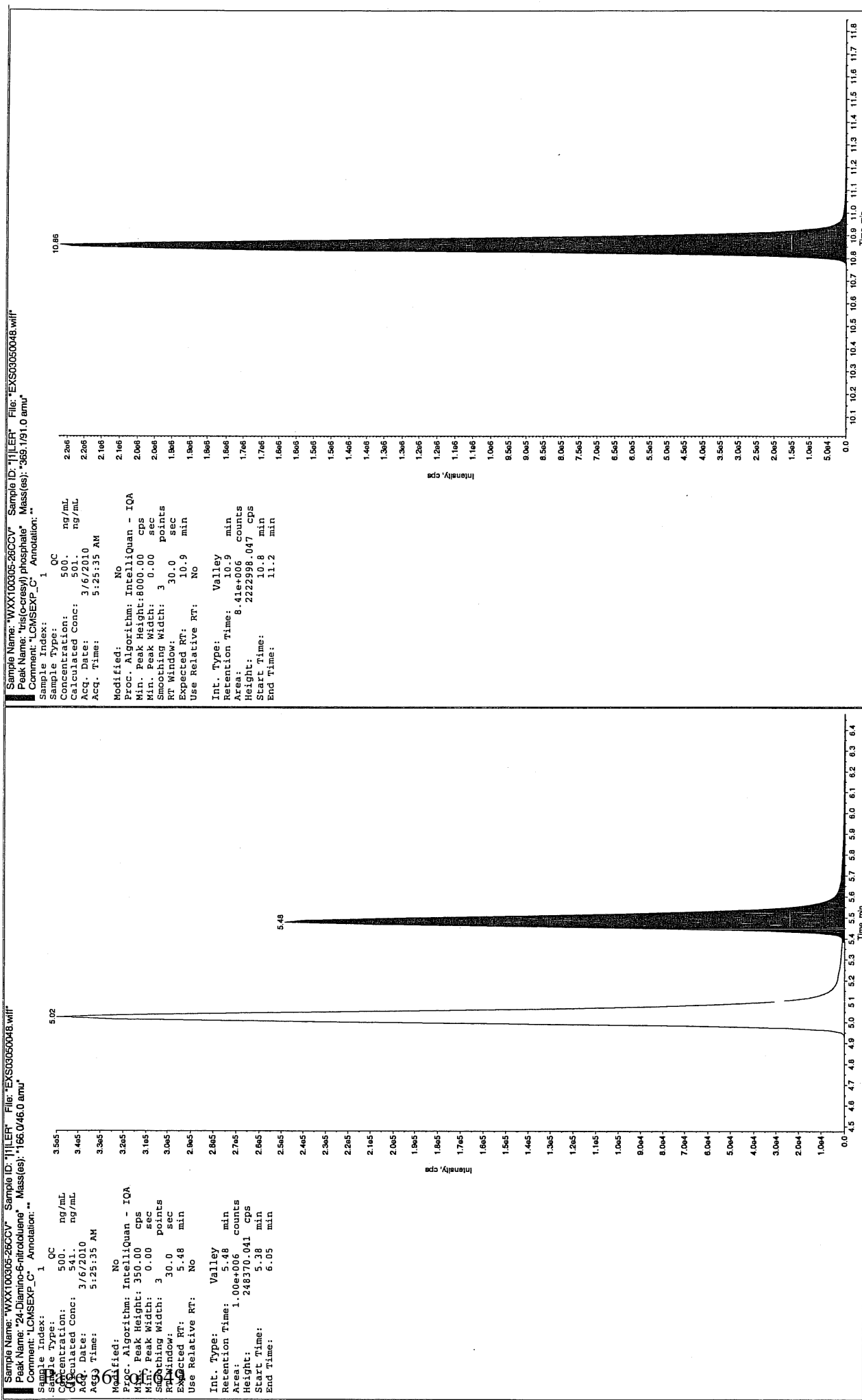


Sample Name: "WXX100305-260CV" Sample ID: "JILER" File: "EXS03050048.wif"
 Peak Name: "TATB" Mass(es): "237.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 500. ng/mL
 Concentration: 507. ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 5:25:35 AM
 Acq. Time: 1765
 Modified: No
 Peak Algorithm: IntAllQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 3.00 sec
 Min. Retention Width: 30.0 points
 RT Window: 7.00 min
 Expected RT: No
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.00 min
 Area: 7.56e+005 counts
 Height: 180460495 cps
 Start Time: 6.90 min
 End Time: 7.33 min







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050050.wiff

Analysis Date: 06-MAR-10 05:56

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TATB	100	110	110	
tris(o-cresyl) phosphate	100	101	101	
2,4-Diamino-6-nitrotoluene	100	105	105	
2,6-Diamino-4-nitrotoluene	100	111	111	
3,4-Dinitrotoluene	50	51.4	103	
3,5-Dinitroaniline	100	108	108	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Scan 3/9/10

Sample Name: "WXX100305-27C81" Sample ID: "11LER" File: "EXS03050050.wif"

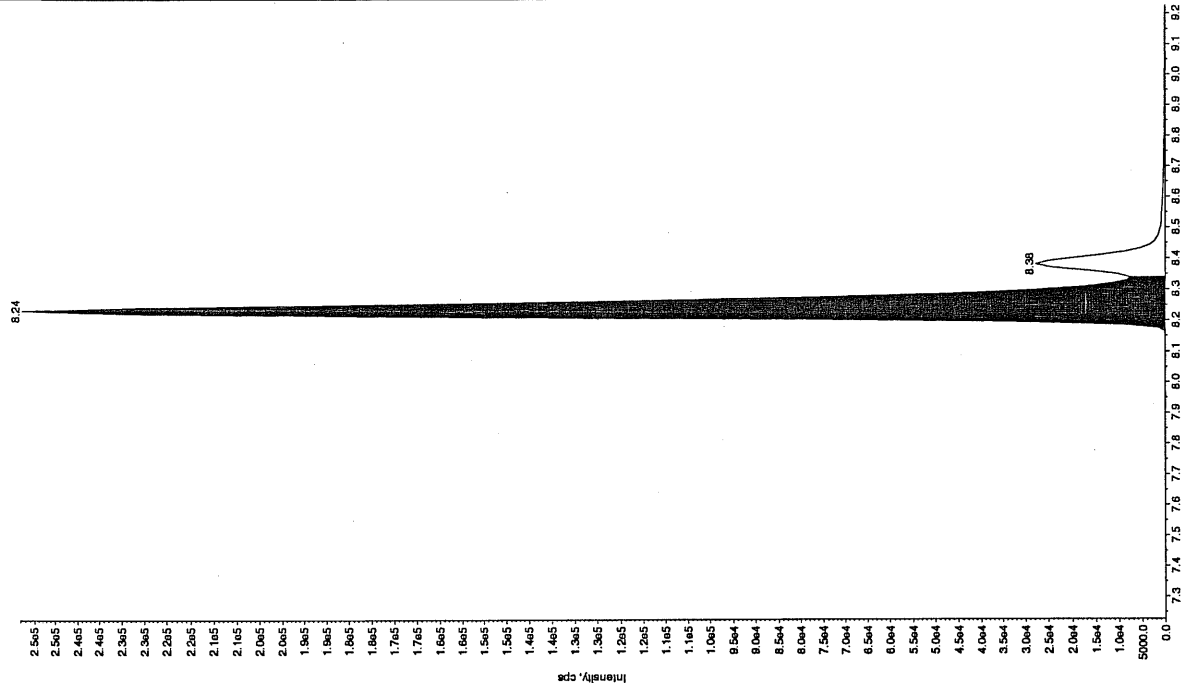
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 108. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:56:58 AM

Modified: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Use Relative RT: NO

Int. Type: Valley
 Retention Time: 8.24 min
 Area: 9.18e+005 counts
 Height: 252990.845 cps
 Start Time: 8.10 min
 End Time: 8.34 min



Sample Name: "WXX100305-27C81" Sample ID: "11LER" File: "EXS03050050.wif"

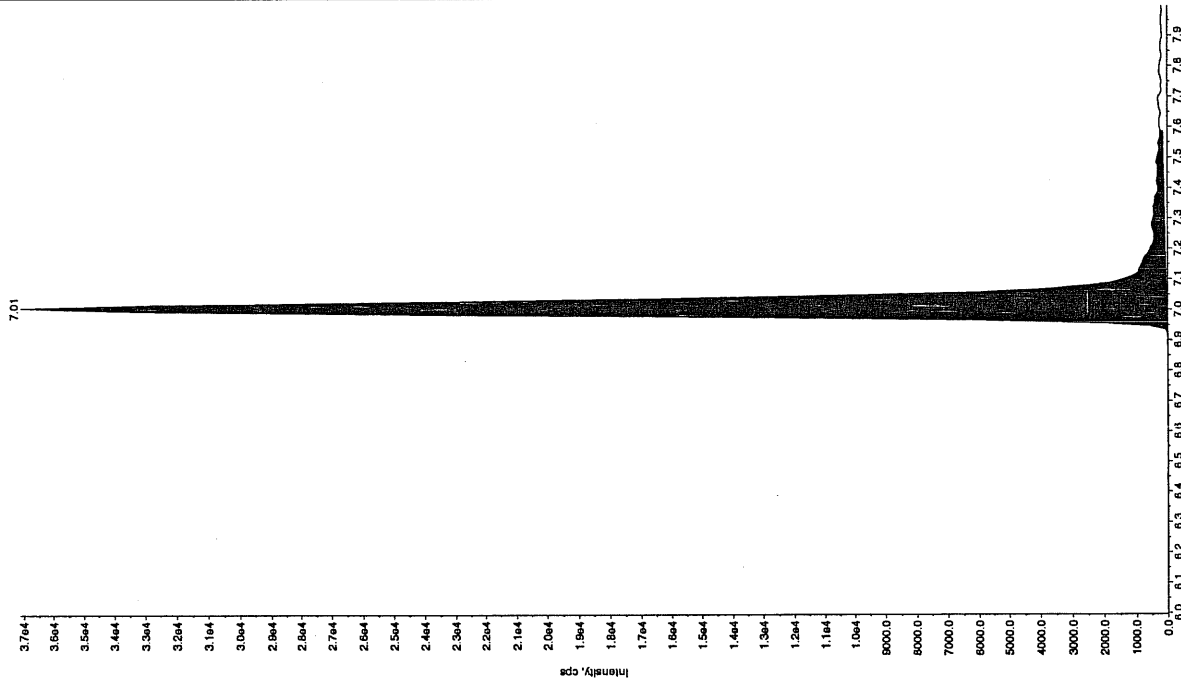
Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_C" Annotation: "

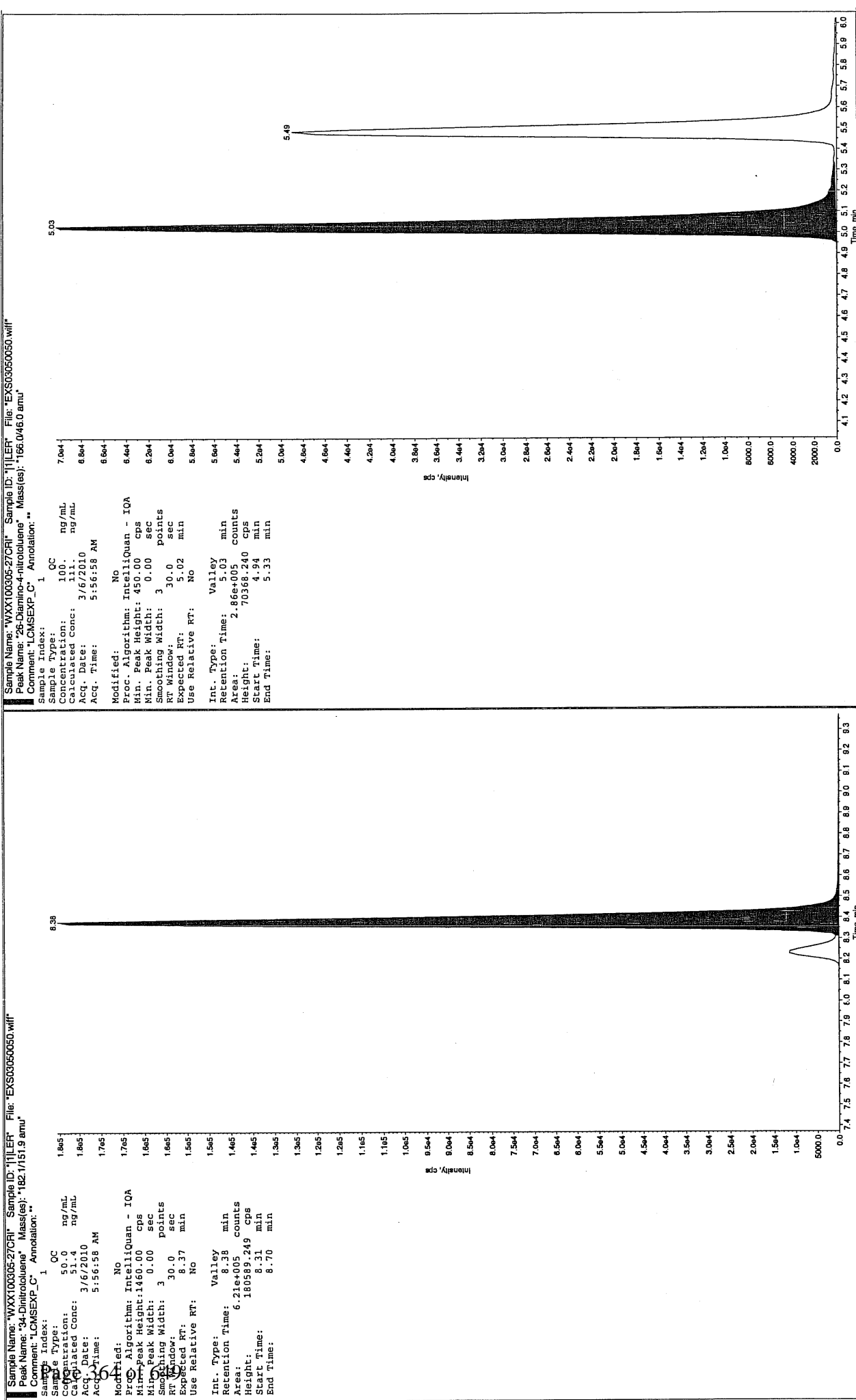
Sample Index: 1
 Sample Type: QC
 Concentration: 110. ng/mL
 Calculated Conc: 110. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:56:58 AM

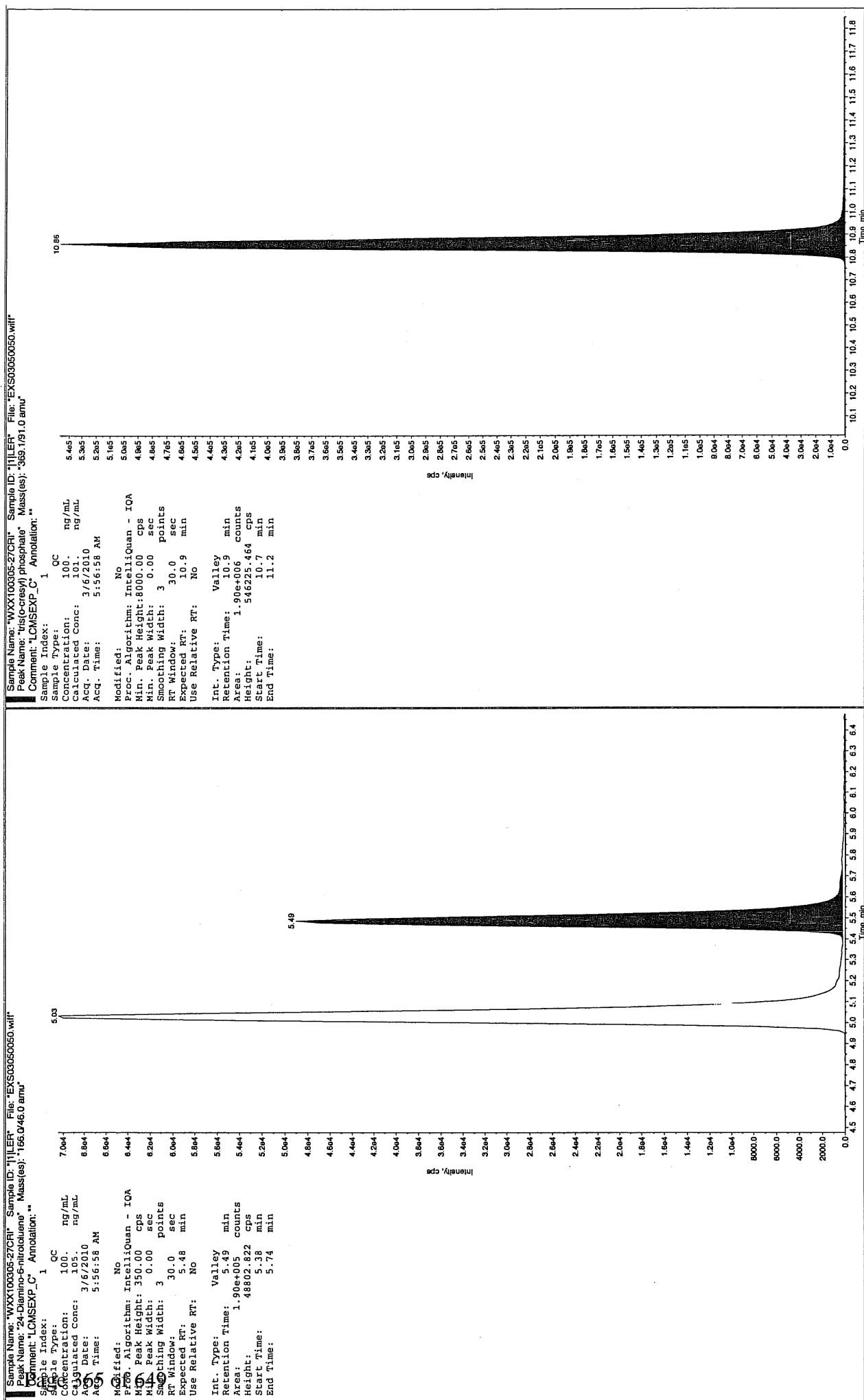
Modified: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: NO

Int. Type: Valley
 Retention Time: 7.01 min
 Area: 1.45e+005 counts
 Height: 37100.952 cps
 Start Time: 6.90 min
 End Time: 7.59 min



Scan 3/9/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050060.wiff

Analysis Date: 06-MAR-10 08:34

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	250	247	99	
3,5-Dinitroaniline	500	554	111	
TATB	500	557	111	
tris(o-cresyl) phosphate	500	498	100	
2,4-Diamino-6-nitrotoluene	500	492	99	
2,6-Diamino-4-nitrotoluene	500	499	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

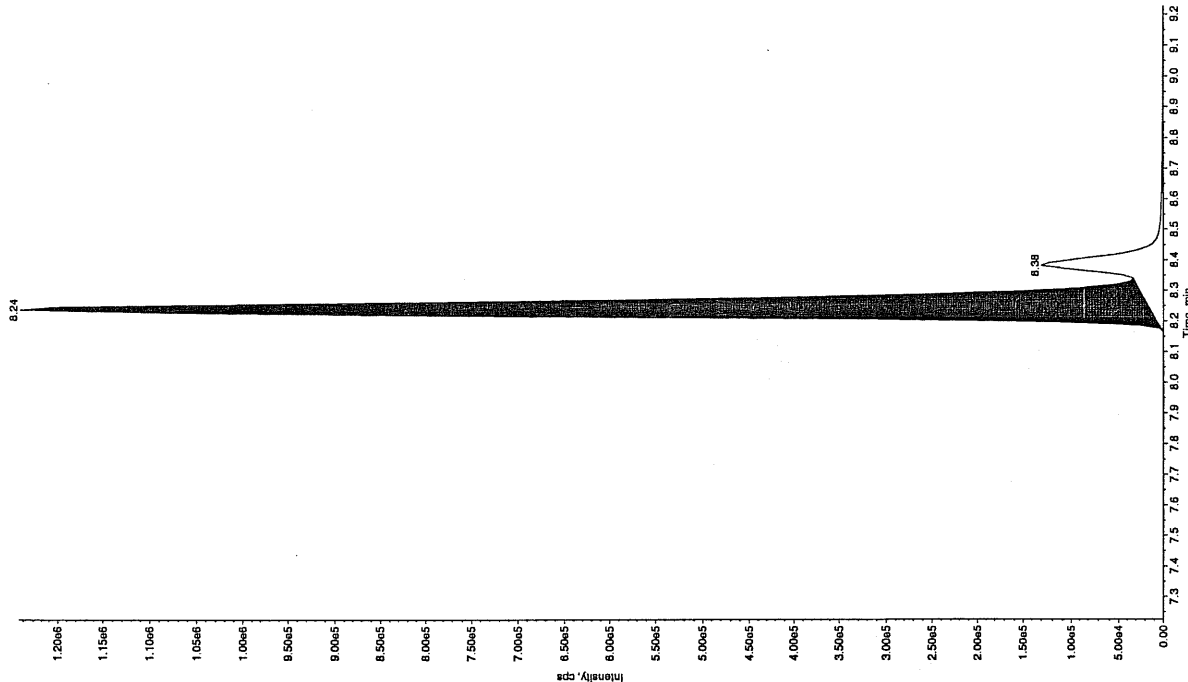
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/10

Sample Name: "WXX100305-26CCV" Sample ID: "111ER" File: "EXS03050060.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LONSEXP_C" Annotation: "

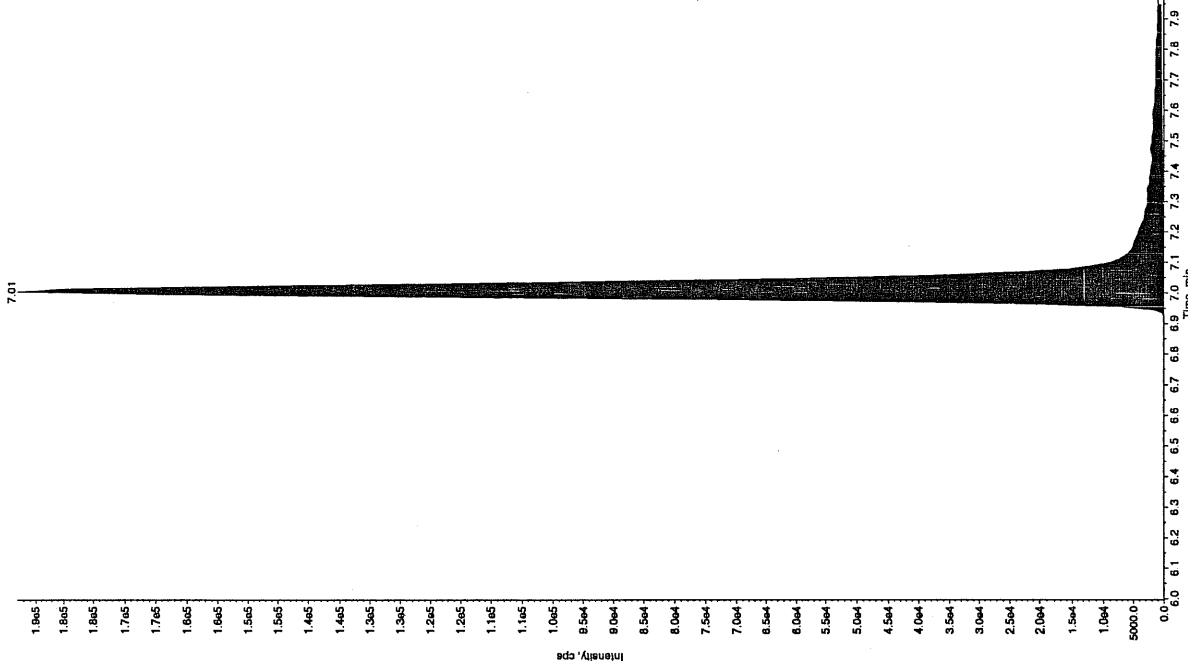
Sample Index: 1
 Sample Type: 1 QC
 Concentration: 500. ng/mL
 Concentrated Conc: 500. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:34:01 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.24 min
 Area: 4.34e+005 counts
 Height: 1230289.185 cps
 Start Time: 8.16 min
 End Time: 8.34 min



4mm-03/09/10

Sample Name: "WXX100305-26CCV" Sample ID: "111ER" File: "EXS03050060.wif"
 Peak Name: "1ATB" Mass(es): "257.2204.9 amu"
 Comment: "LONSEXP_C" Annotation: "

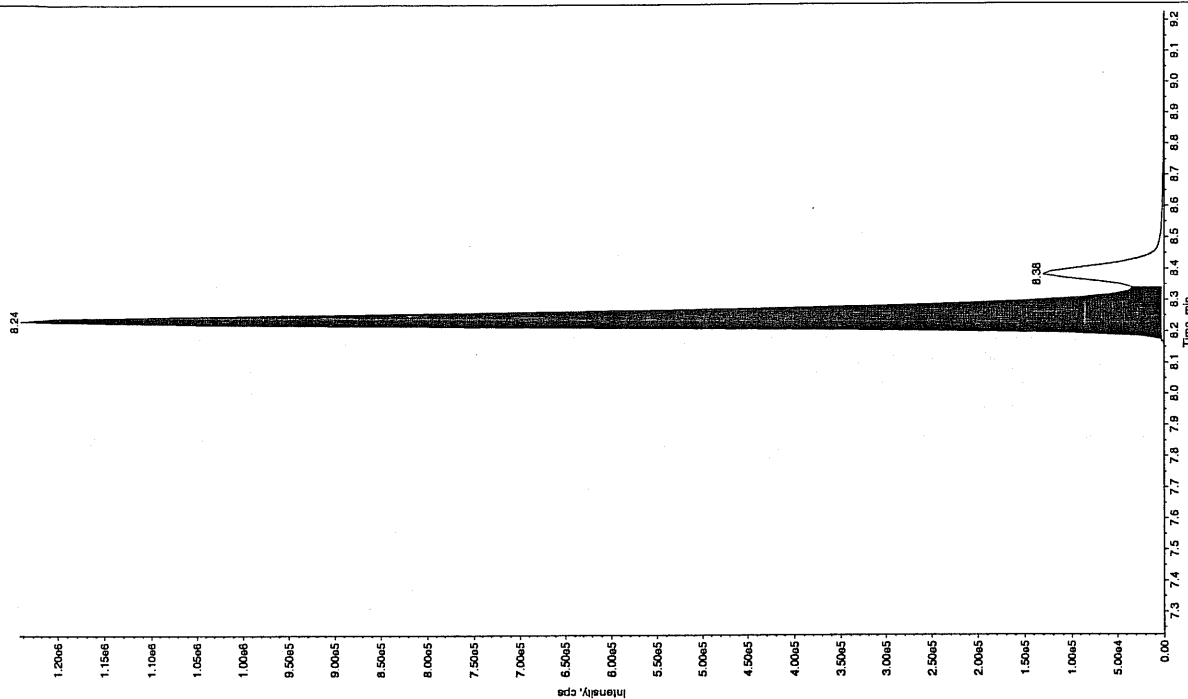
Sample Index: 1
 Sample Type: 1 QC
 Concentration: 500. ng/mL
 Concentrated Conc: 500. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:34:01 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.01 min
 Area: 8.03e+005 counts
 Height: 107849.228 cps
 Start Time: 6.91 min
 End Time: 7.95 min



after Scan 3/9/10

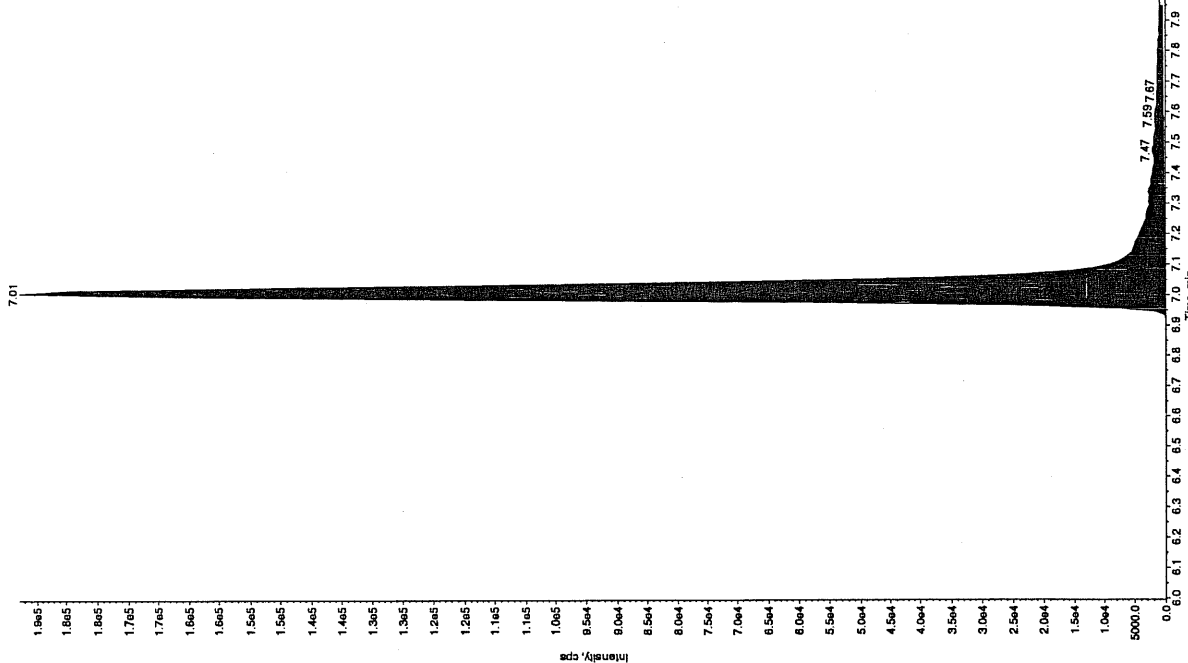
Sample Name: "WXX100305-26CCV" Sample ID: "111LER" File: "EXS03050060.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 500. ng/mL
 Concentration: 554. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:34:01 AM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.24 min
 Area: 4.49e+006 counts
 Height: 1254370.754 cps
 Start Time: 8.16 min
 End Time: 8.34 min



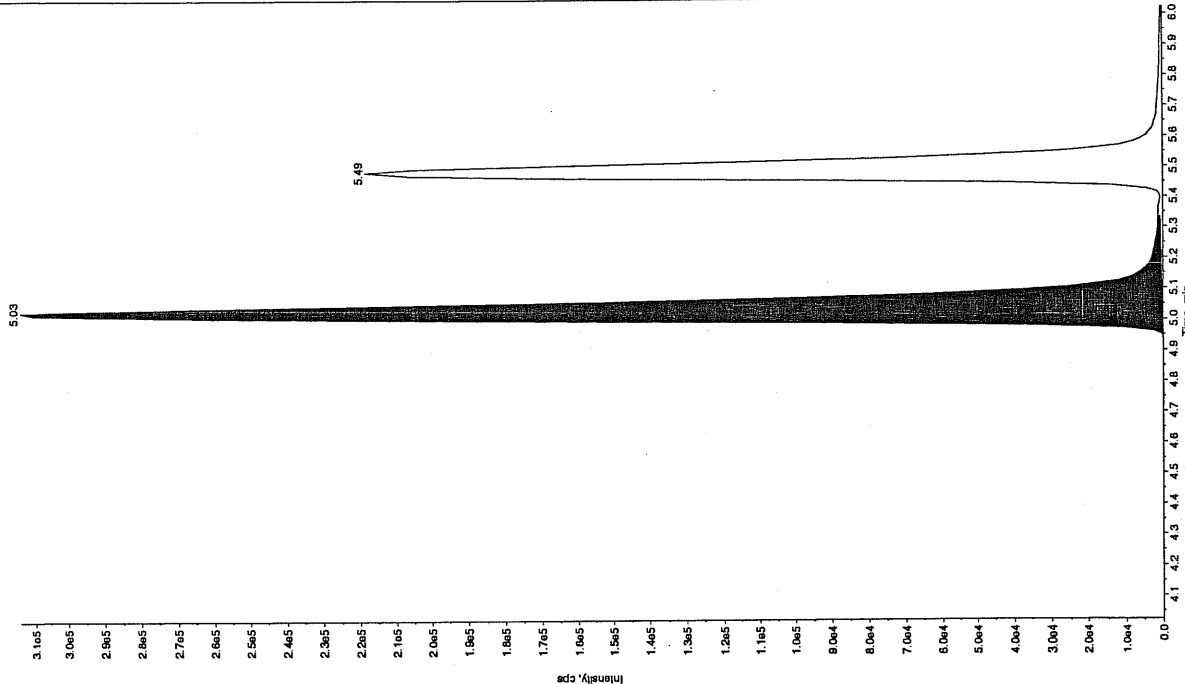
Sample Name: "WXX100305-26CCV" Sample ID: "111LER" File: "EXS03050060.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 500. ng/mL
 Concentration: 557. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:34:01 AM
 Modified: No
 Prec. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Retention Time: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.01 min
 Area: 8.03e+005 counts
 Height: 187849.228 cps
 Start Time: 6.91 min
 End Time: 7.95 min



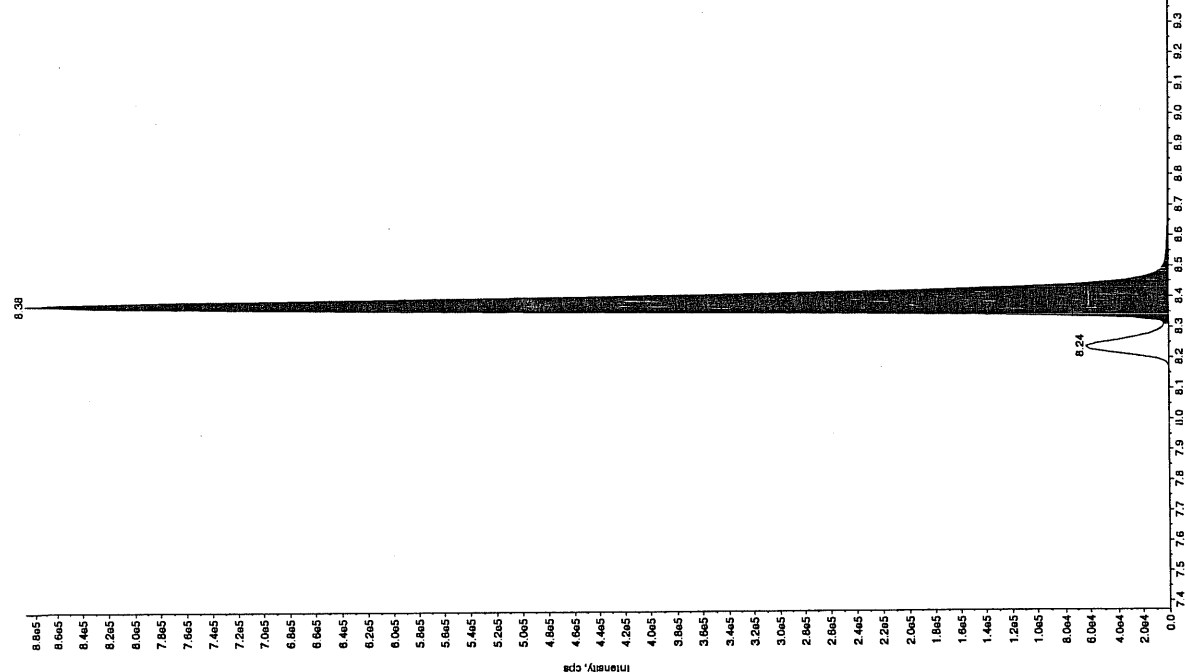
Sample Name: "WXX100305-26CCV" Sample ID: "JILER" File: "EXS03050060.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 8:34:01 AM
 Acq. Time: 8:34:01 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.03 min
 Area: 1.32e+006 counts
 Height: 314091.949 cps
 Start Time: 4.93 min
 End Time: 5.33 min

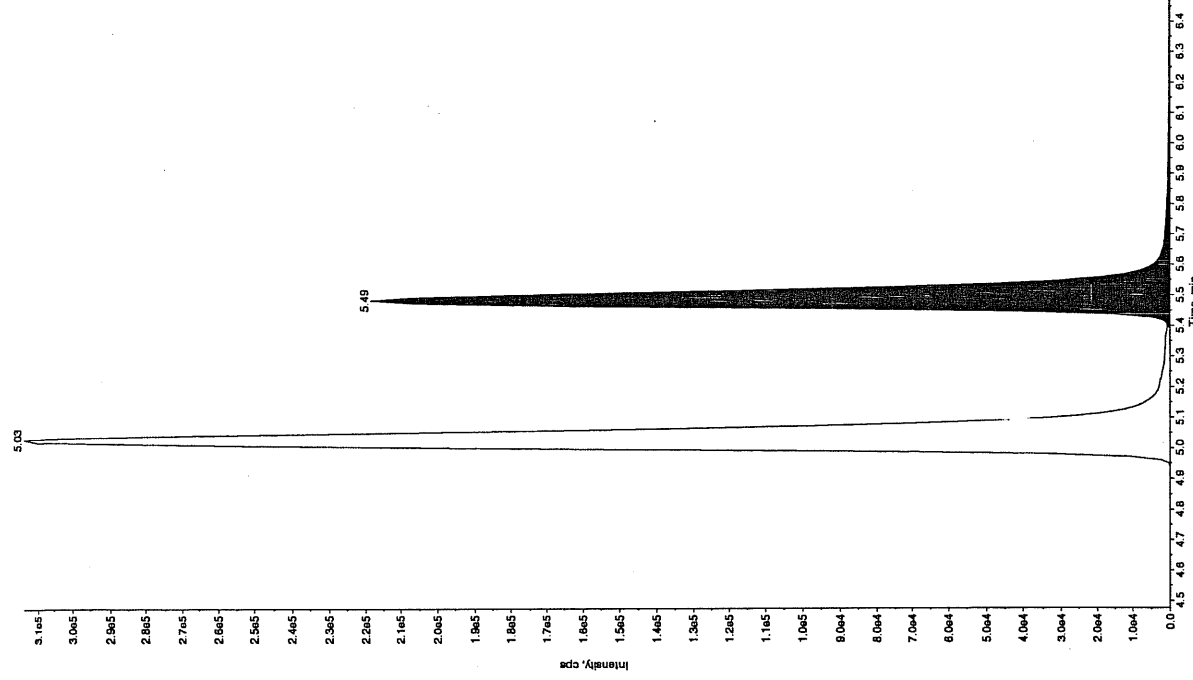


Sample Name: "WXX100305-26CCV" Sample ID: "JILER" File: "EXS03050060.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 8:34:01 AM
 Acq. Time: 8:34:01 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 8.37 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.38 min
 Area: 3.08e+006 counts
 Height: 887903.992 cps
 Start Time: 8.31 min
 End Time: 8.72 min



Sample Index:	QC	ng/mL
Sample Type:	500.	31es
Concentration:	432.0	30es
Calculated Conc:	375/210	
Acq. Date:	8.34.01 AM	
Acq. Time:		
Mod. modified:	No	28es
Proc. Algorithm:	IntelliQuan - IQA	28es
Min. Peak Height:	350.00 cps	28es
Min. Peak Width:	0.00 sec	27es
Max. Peak Width:	3 points	28es
Sm. Wh. Width:	30.0 sec	28es
RT Window:		28es
Expected RT:	5.48 min	28es
Use Relative RT:	No	28es
Int. Type:	Valley	28es
Retention Time:	5.39 min	28es
Height:	9,13e+005 counts	28es
Start Time:	218423.599 cps	28es
End Time:	5.39 min	28es
End Time:	6.14 min	28es



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050062.wiff

Analysis Date: 06-MAR-10 09:05

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	101	101	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	51.1	102	
3,5-Dinitroaniline	100	111	111	
TATB	100	116	116	
tris(o-cresyl) phosphate	100	100	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

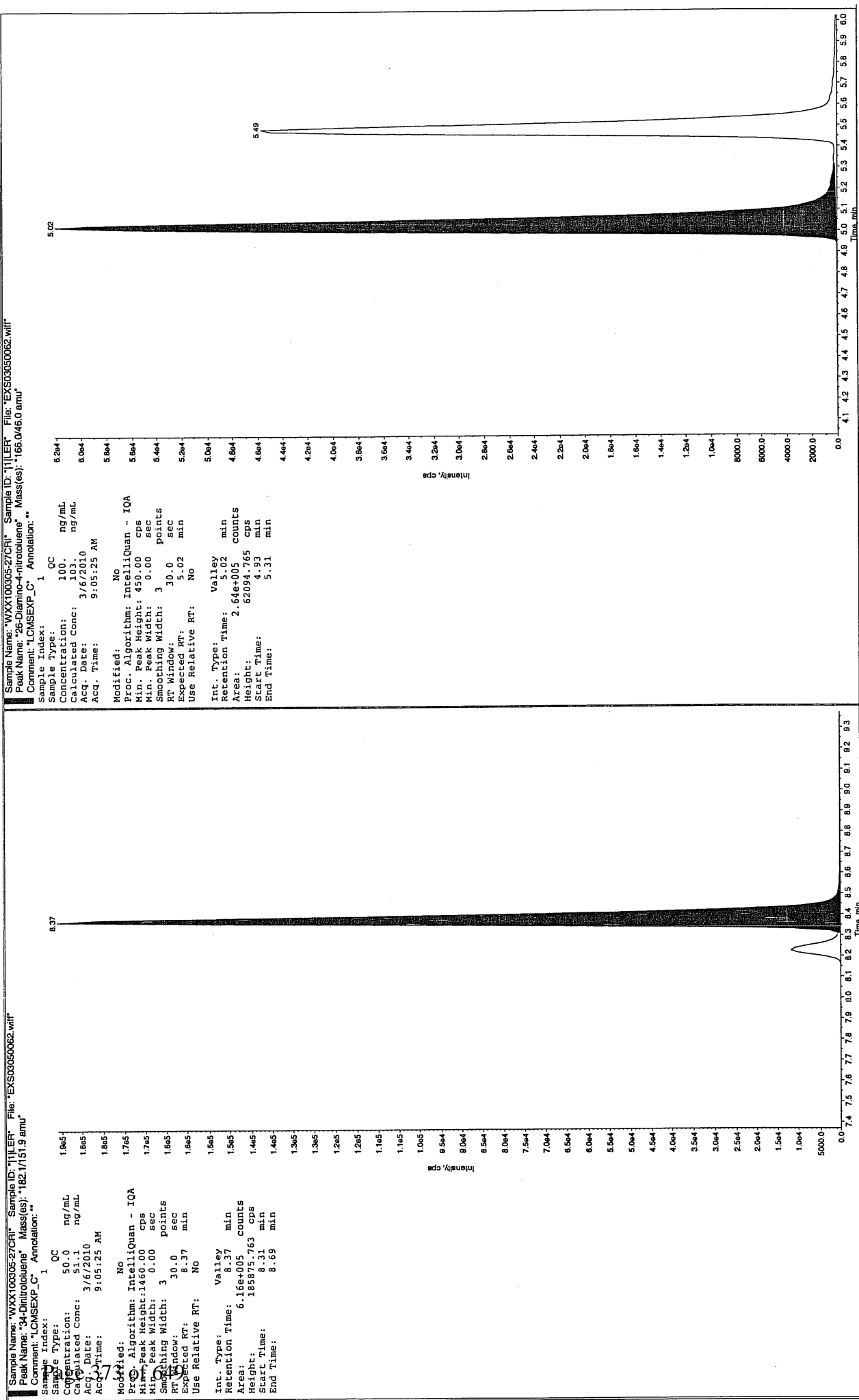
2,4-Diamino-6-nitrotoluene 50-150%

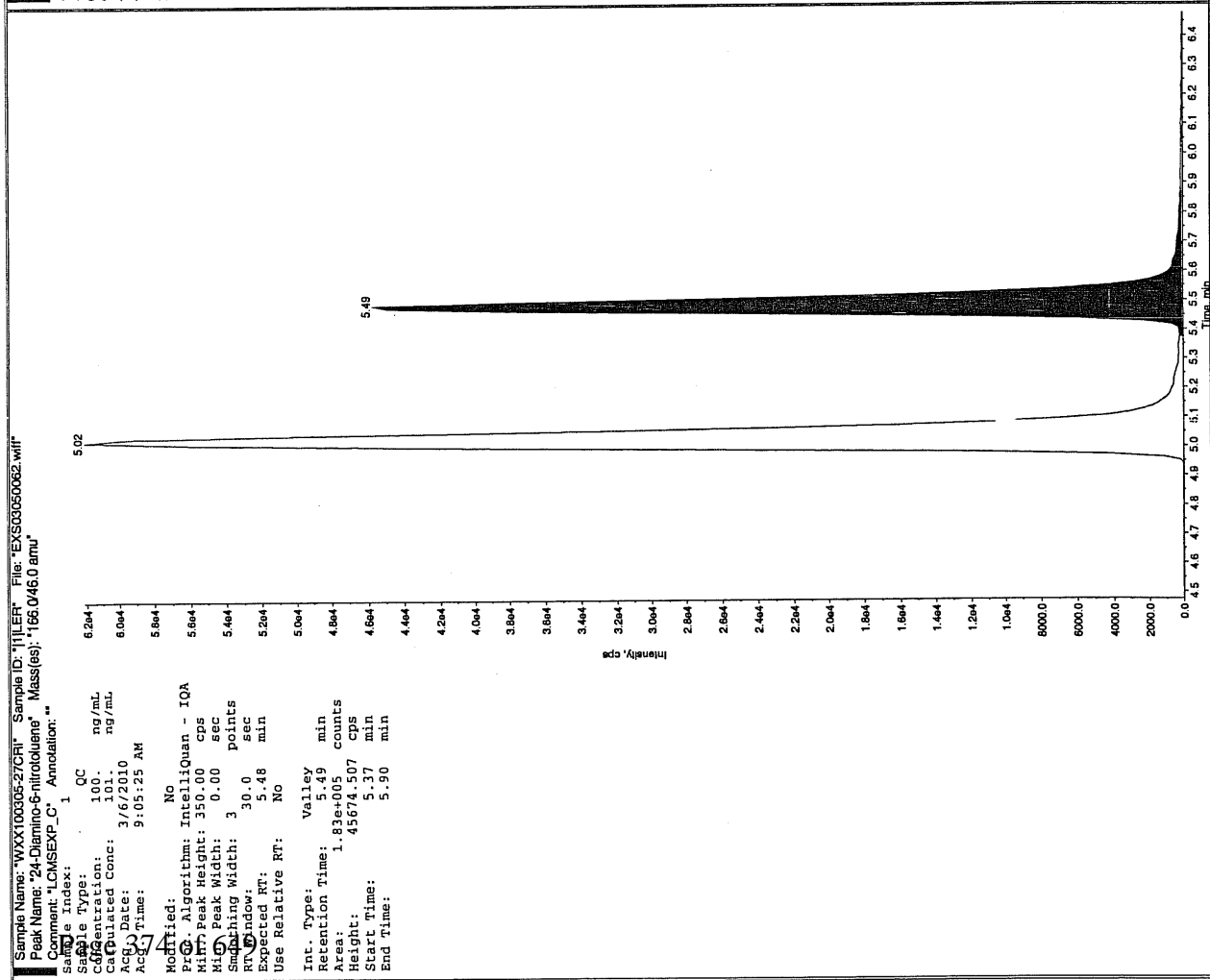
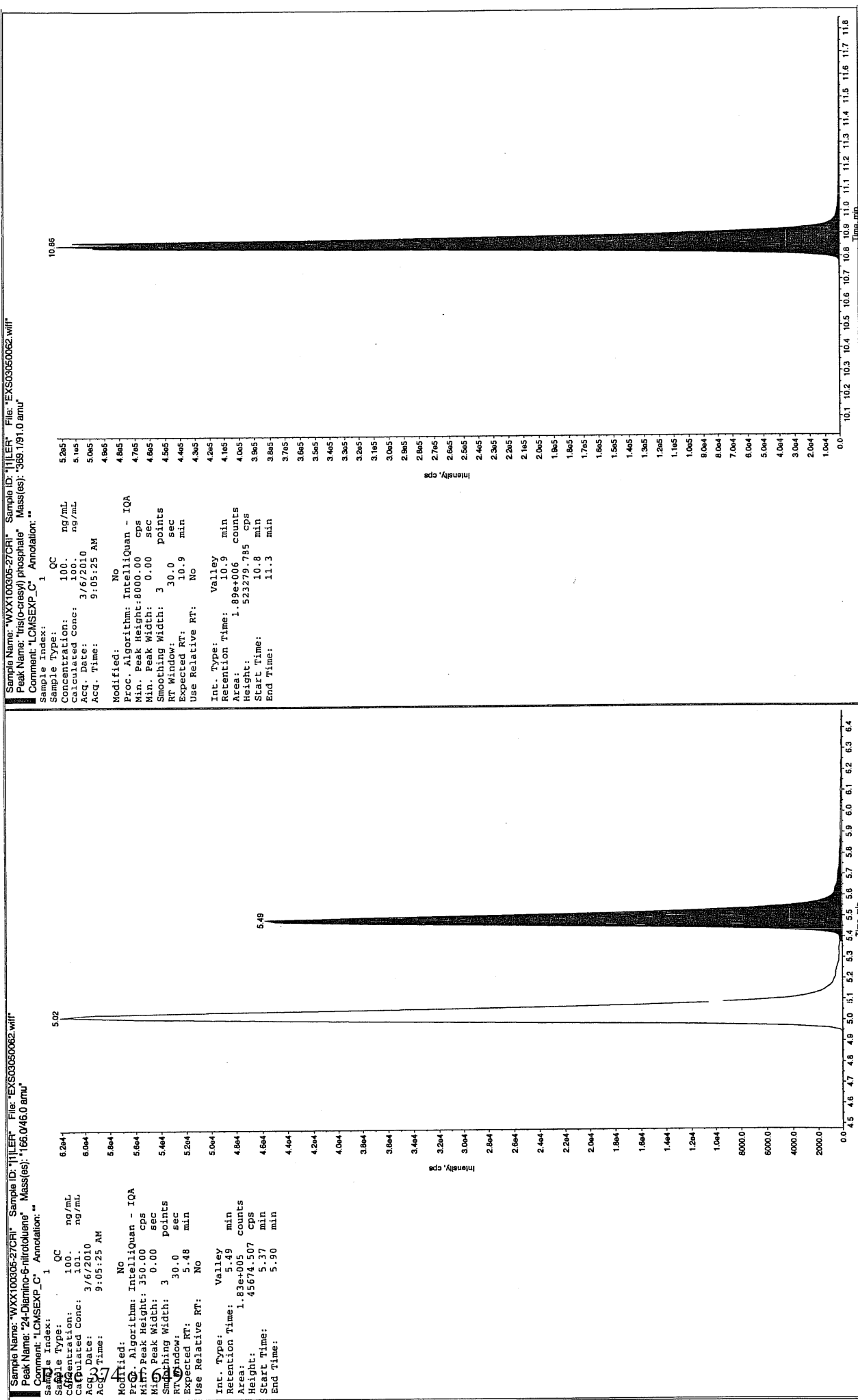
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050066.wiff

Analysis Date: 06-MAR-10 10:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	456	91	
2,6-Diamino-4-nitrotoluene	500	476	95	
3,4-Dinitrotoluene	250	247	99	
3,5-Dinitroaniline	500	535	107	
TATB	500	549	110	
tris(o-cresyl) phosphate	500	507	101	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

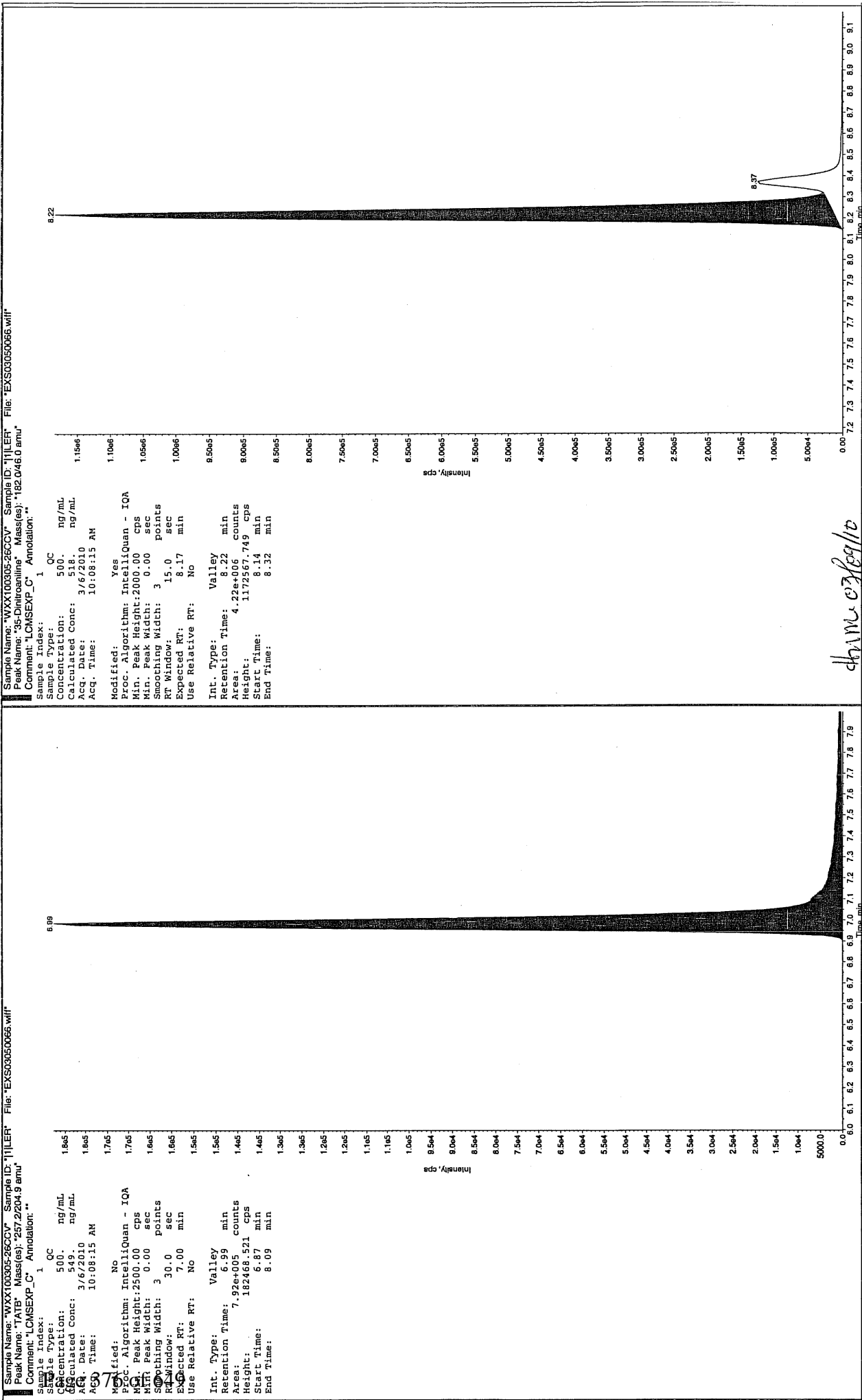
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

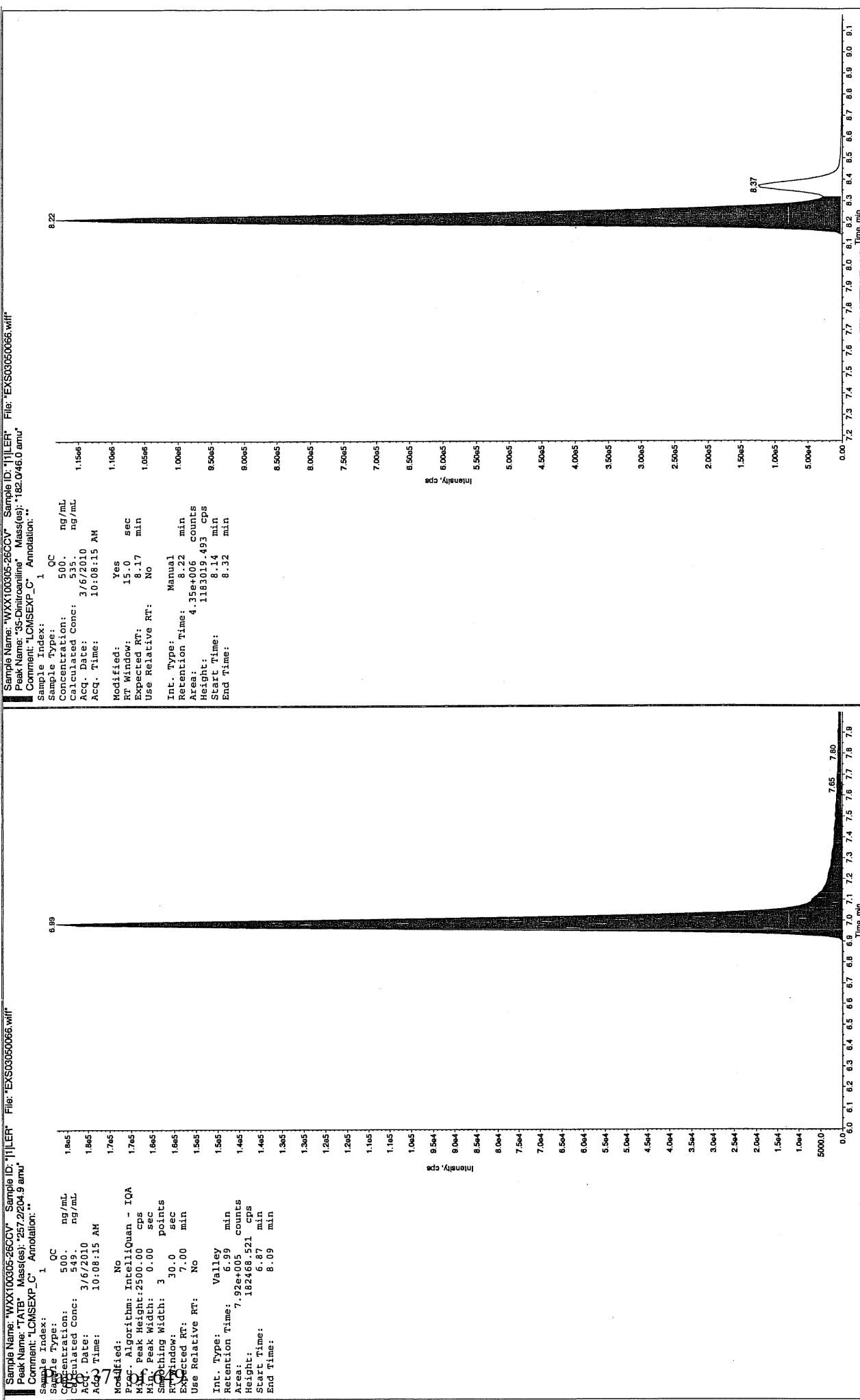
* Value outside of Recovery Limits

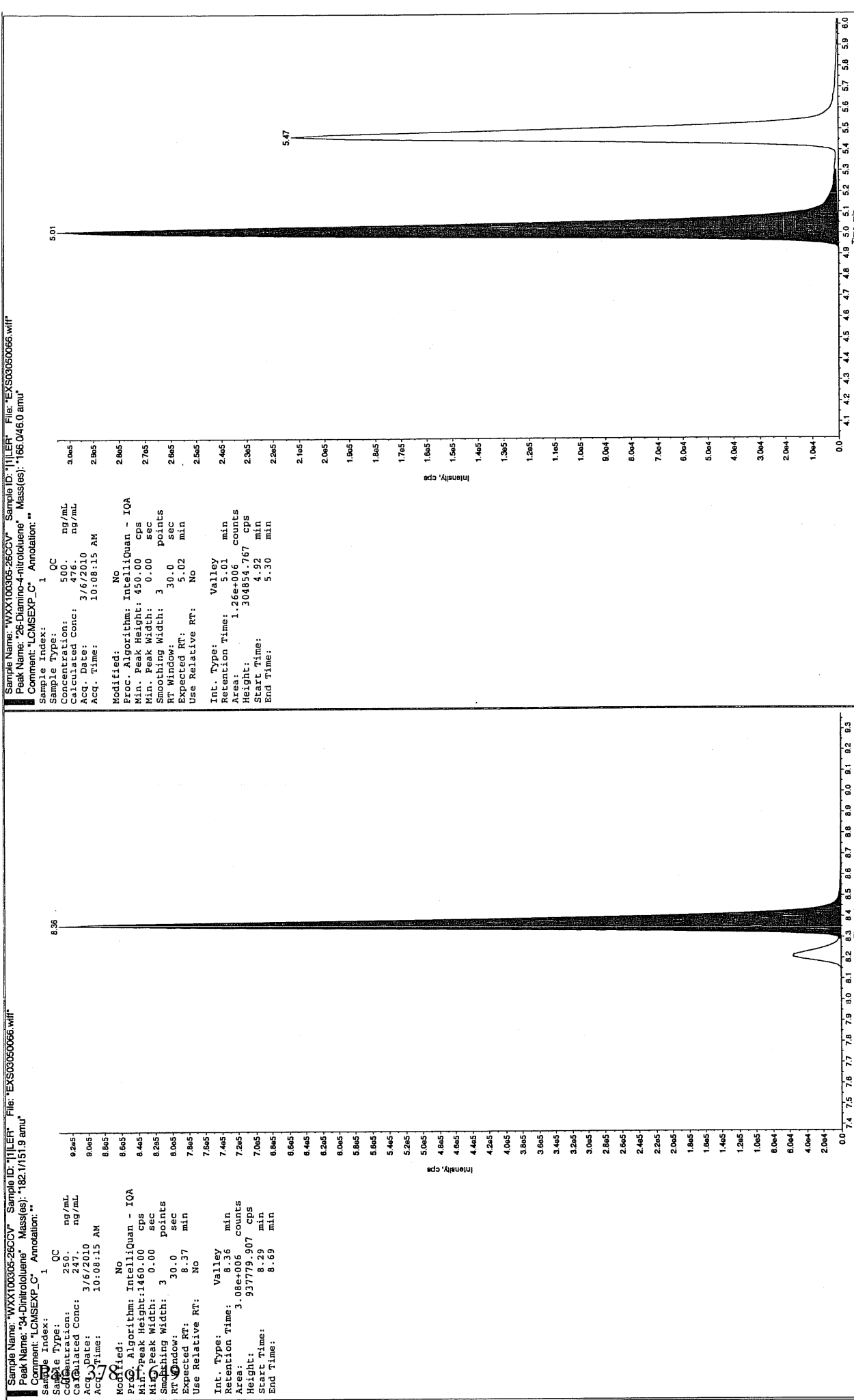
Before Jan 31/10

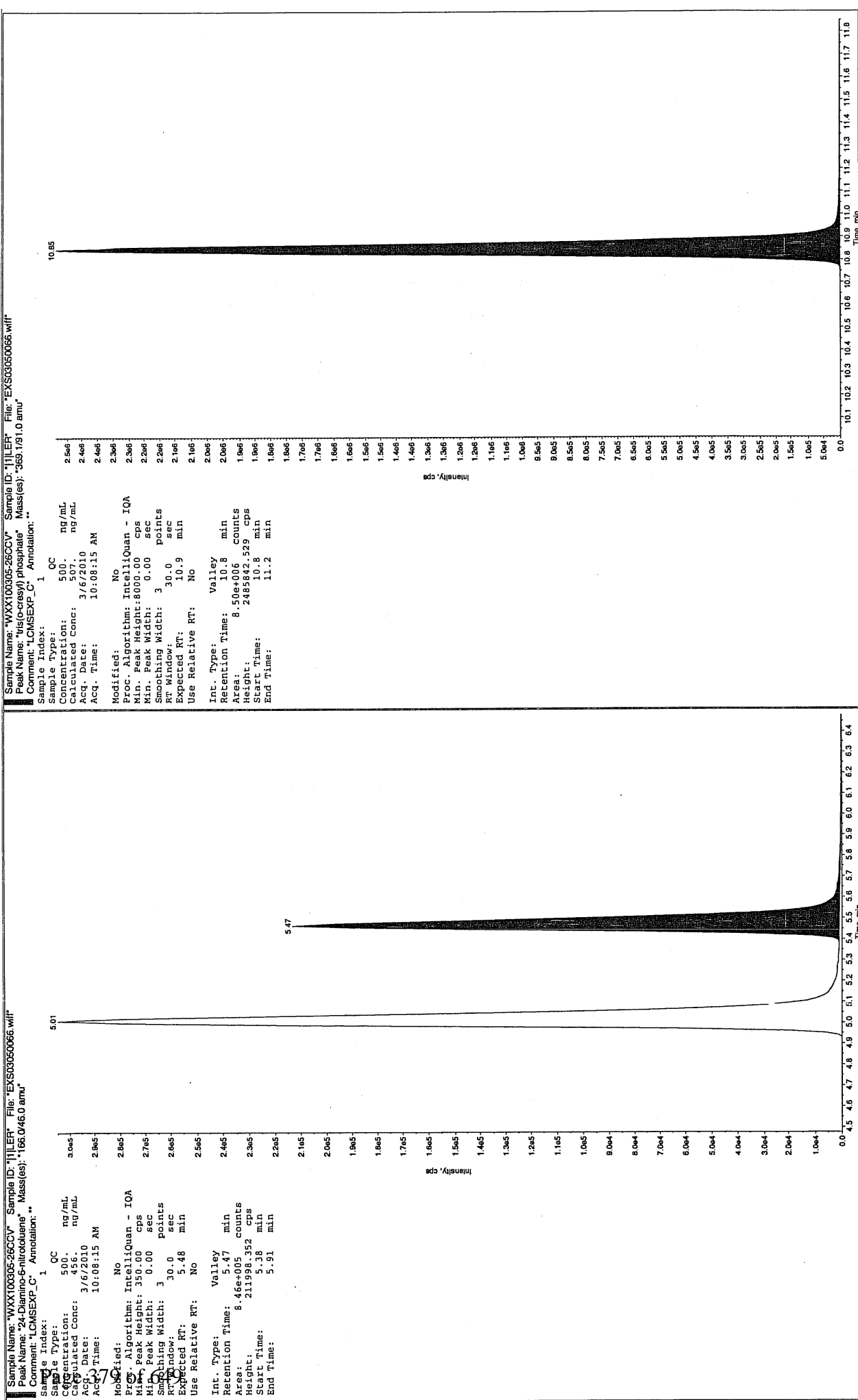


dhm 03/09/10

after Jan 3/9/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050068.wiff

Analysis Date: 06-MAR-10 10:39

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	94.8	95	
2,6-Diamino-4-nitrotoluene	100	101	101	
3,4-Dinitrotoluene	50	51.1	102	
3,5-Dinitroaniline	100	105	105	
TATB	100	111	111	
tris(o-cresyl) phosphate	100	99	99	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

San 3/2/10

File: "EXS03050068.wif"

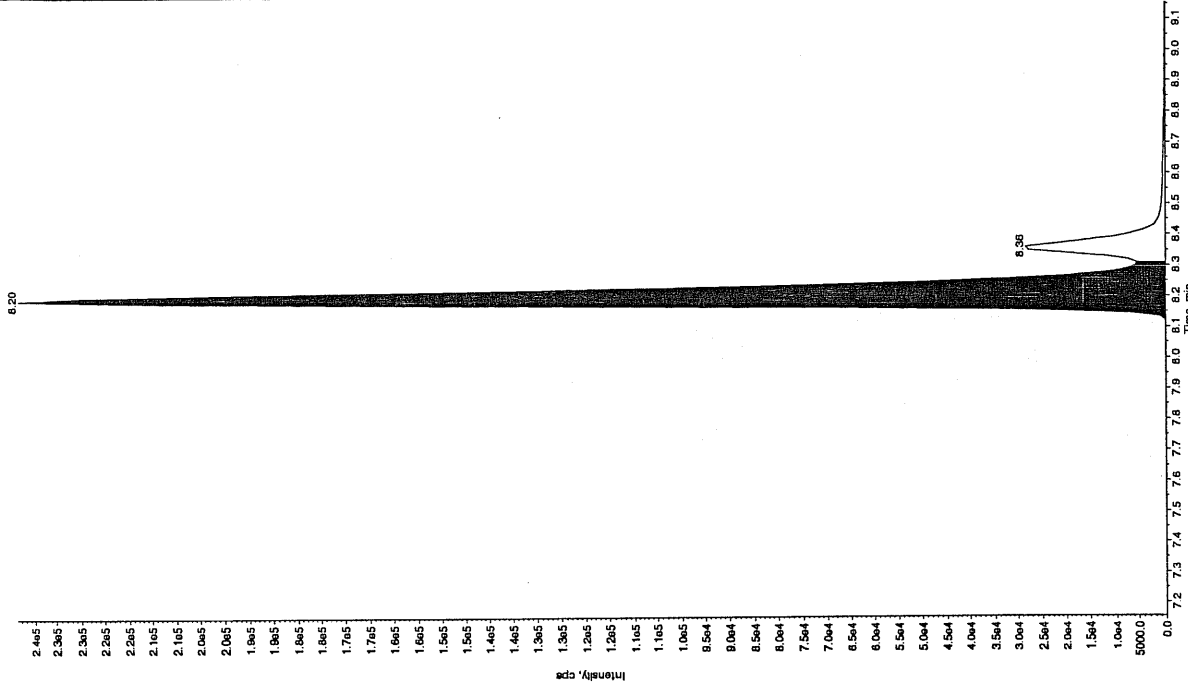
Sample Name: "WXX100305-27C1" Sample ID: "111LER"
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 105. ng/mL
Acq. Date: 3/6/2010
Acq. Time: 10:39:39 AM

Modified: Yes
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.15 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.20 min
Area: 8.93e+005 counts
Height: 238822.998 cps
Start Time: 8.11 min
End Time: 8.31 min



dmw-03/09/10

File: "EXS03050068.wif"

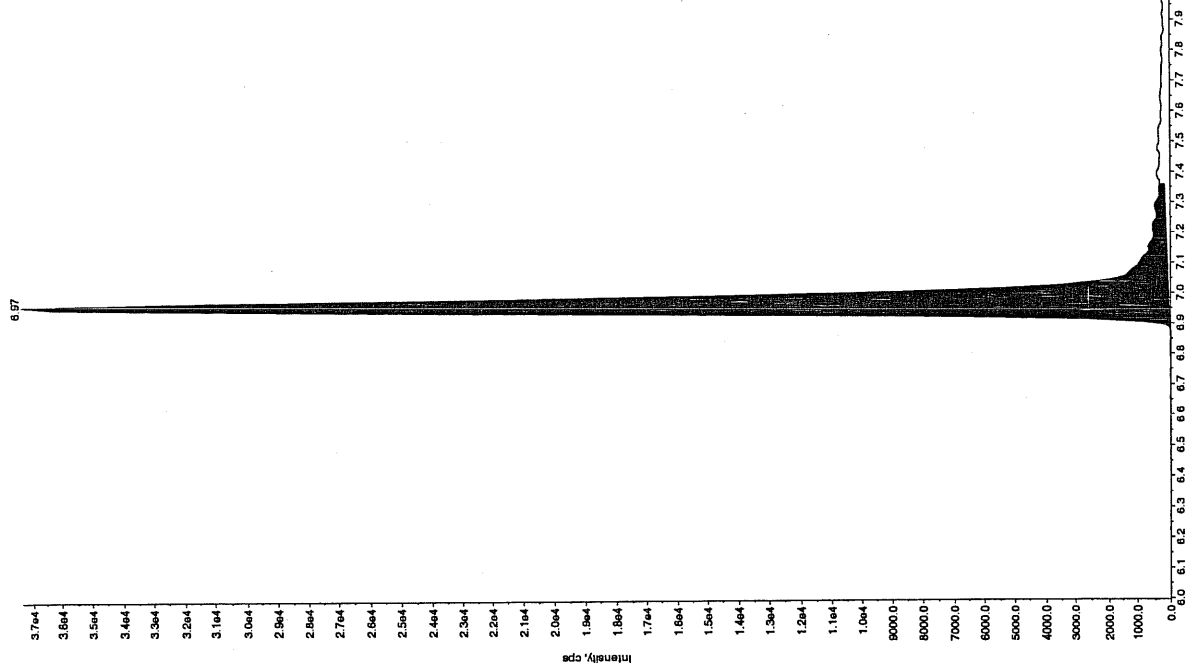
Sample Name: "WXX100305-27C1" Sample ID: "111LER"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"

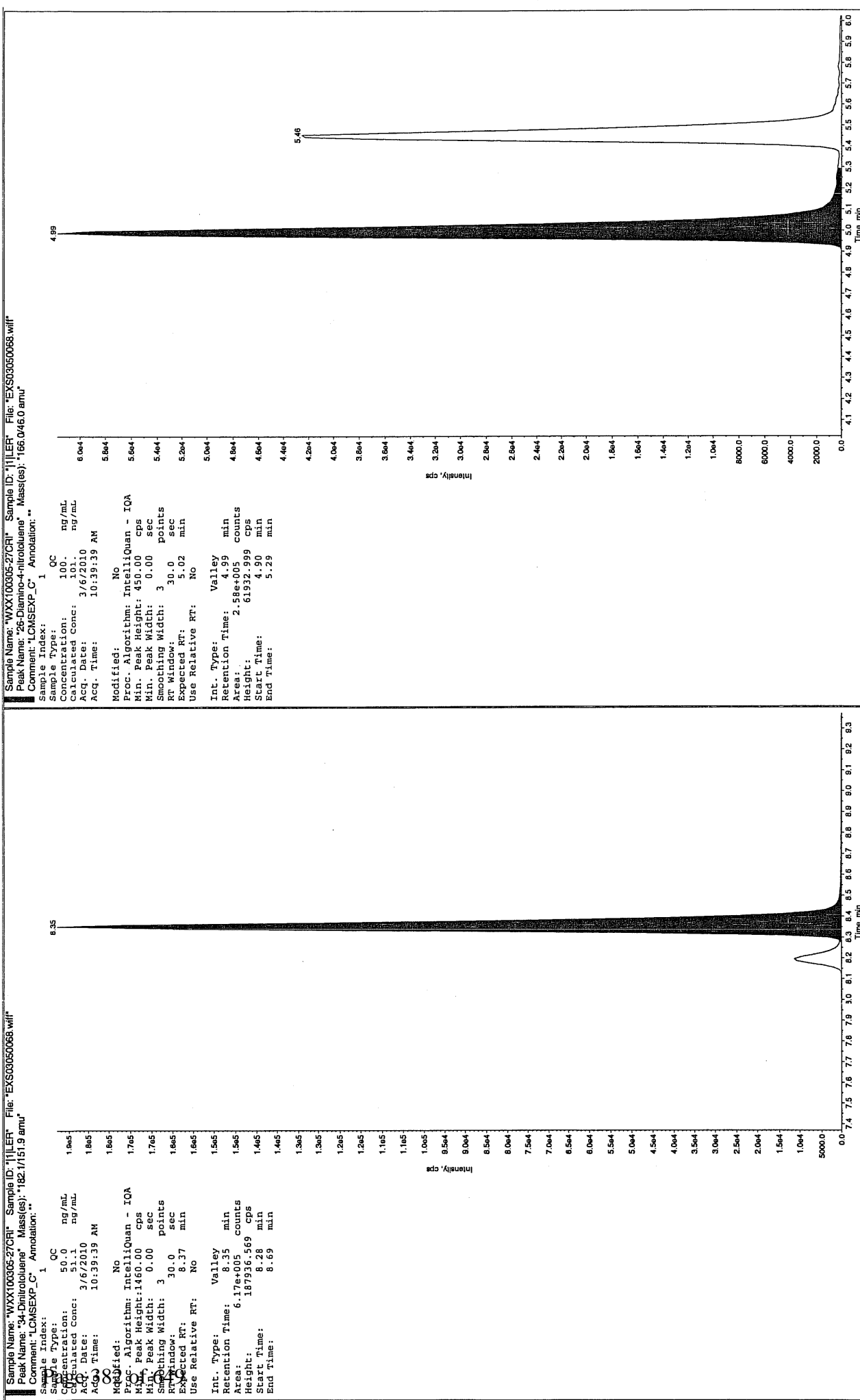
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 111. ng/mL
Acq. Date: 3/6/2010
Acq. Time: 10:39:39 AM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 7.00 min
Use Relative RT: No

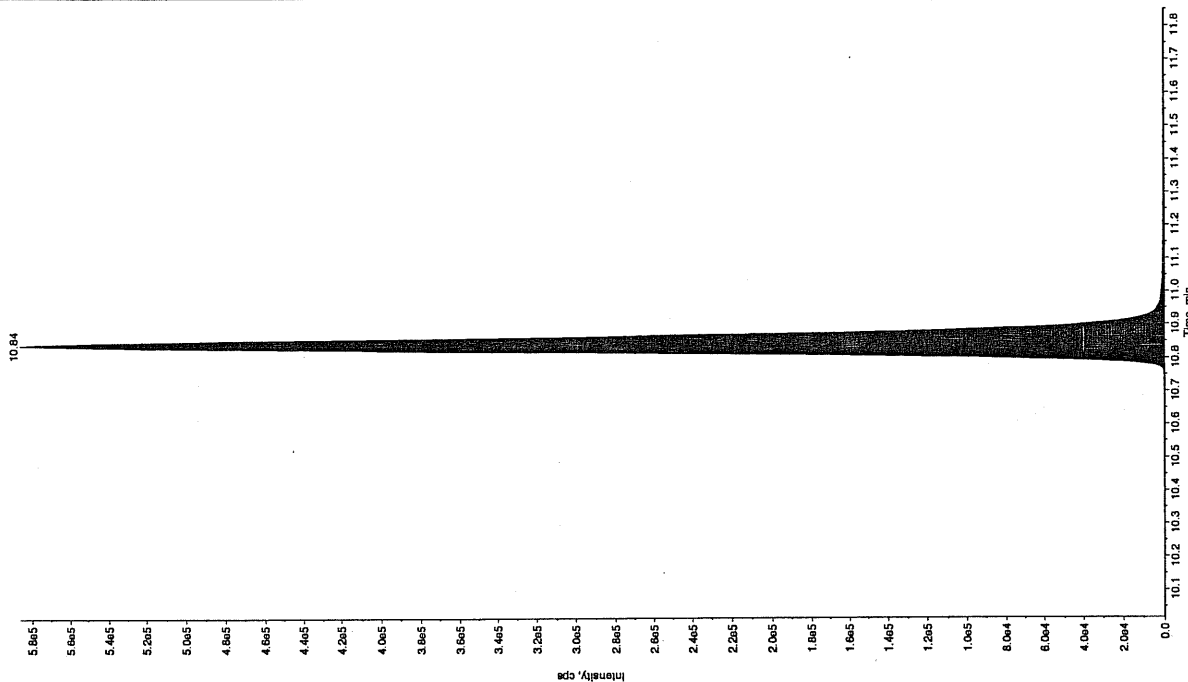
Int. Type: Valley
Retention Time: 6.97 min
Area: 1.46e+005 counts
Height: 37338.898 cps
Start Time: 6.87 min
End Time: 7.36 min





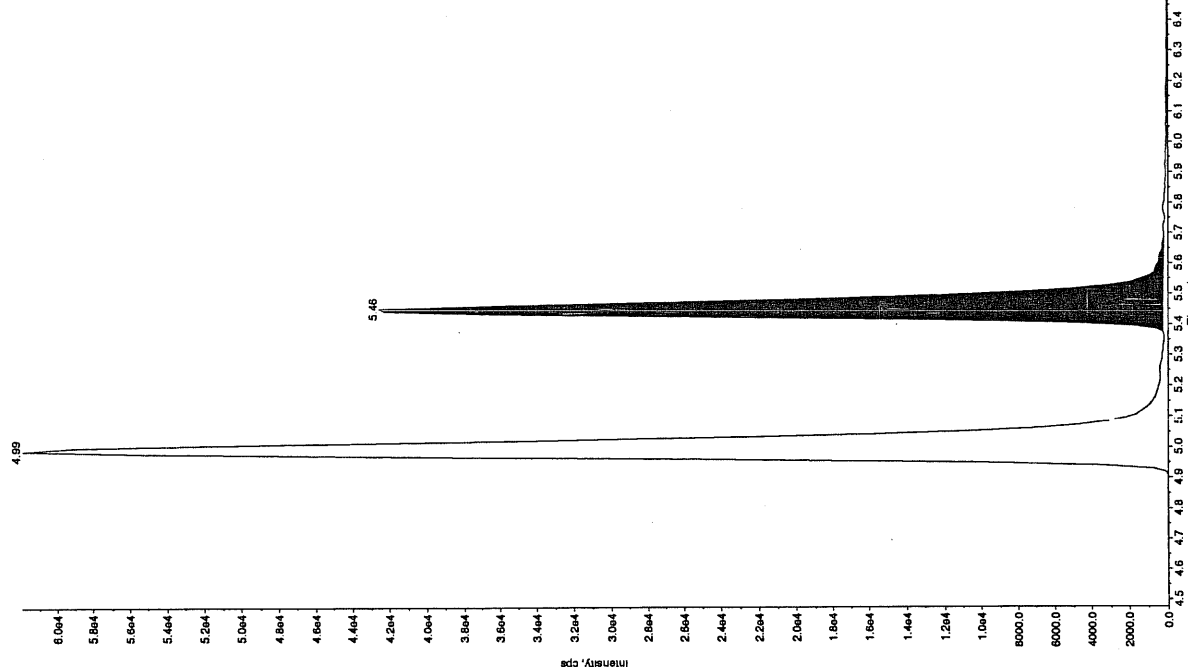
Sample Name: "WXX10005-27CRL" Sample ID: "11LER" File: "EXS03050068.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 100 ng/mL
 Concentration: 99.0 ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 10:39:39 AM
 Acq. Time: 10:39:39 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.87e+006 counts
 Height: 585983.887 cps
 Start Time: 10.7 min
 End Time: 11.1 min



Sample Name: "WXX10005-27CRL" Sample ID: "11LER" File: "EXS03050068.wif"
 Peak Name: "2,4-Dinitro-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 100 ng/mL
 Concentration: 99.0 ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 10:39:39 AM
 Acq. Time: 10:39:39 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.48 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.46 min
 Area: 1.71e+005 counts
 Height: 42302.734 cps
 Start Time: 5.37 min
 End Time: 5.68 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050079.wiff

Analysis Date: 06-MAR-10 13:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	443	89	
2,6-Diamino-4-nitrotoluene	500	460	92	
3,4-Dinitrotoluene	250	235	94	
3,5-Dinitroaniline	500	506	101	
TATB	500	522	104	
tris(o-cresyl) phosphate	500	475	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

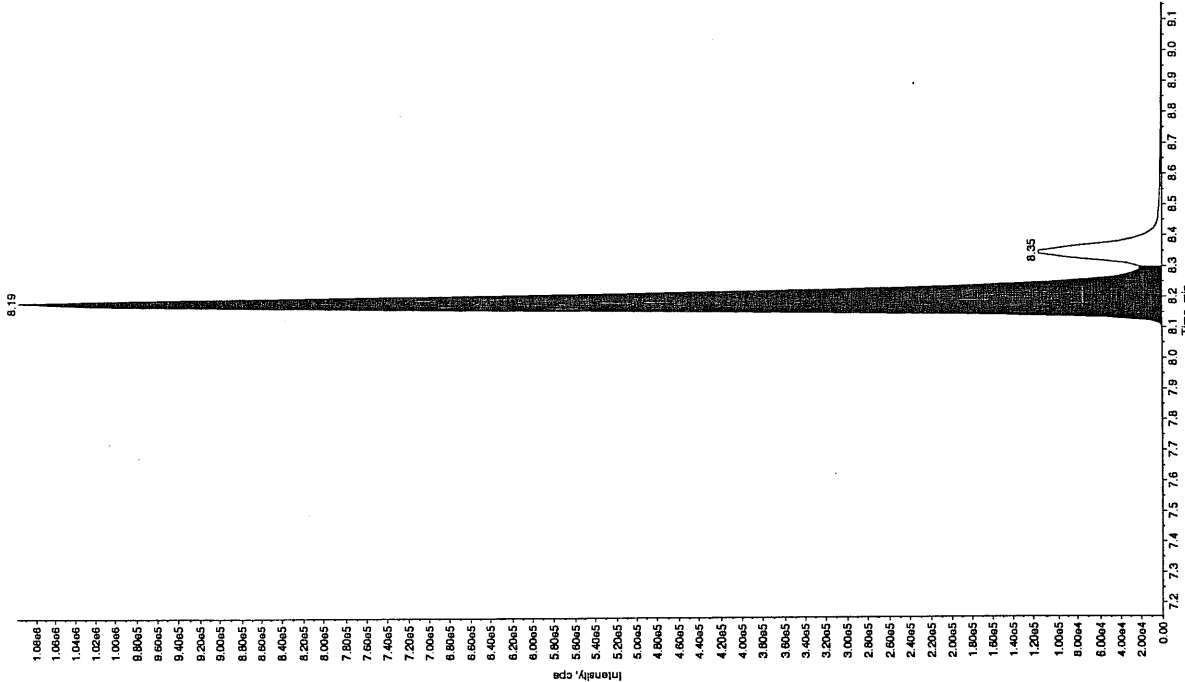
San 3/9/10

Sample Name: "WXX100306-260CV" Sample ID: "J1LER" File: "EXS03050079.wil"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 506. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 1:32:28 PM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.15 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.19 min
 Area: 4.13e+006 counts
 Height: 1098335.205 cps
 Start Time: 8.09 min
 End Time: 8.30 min



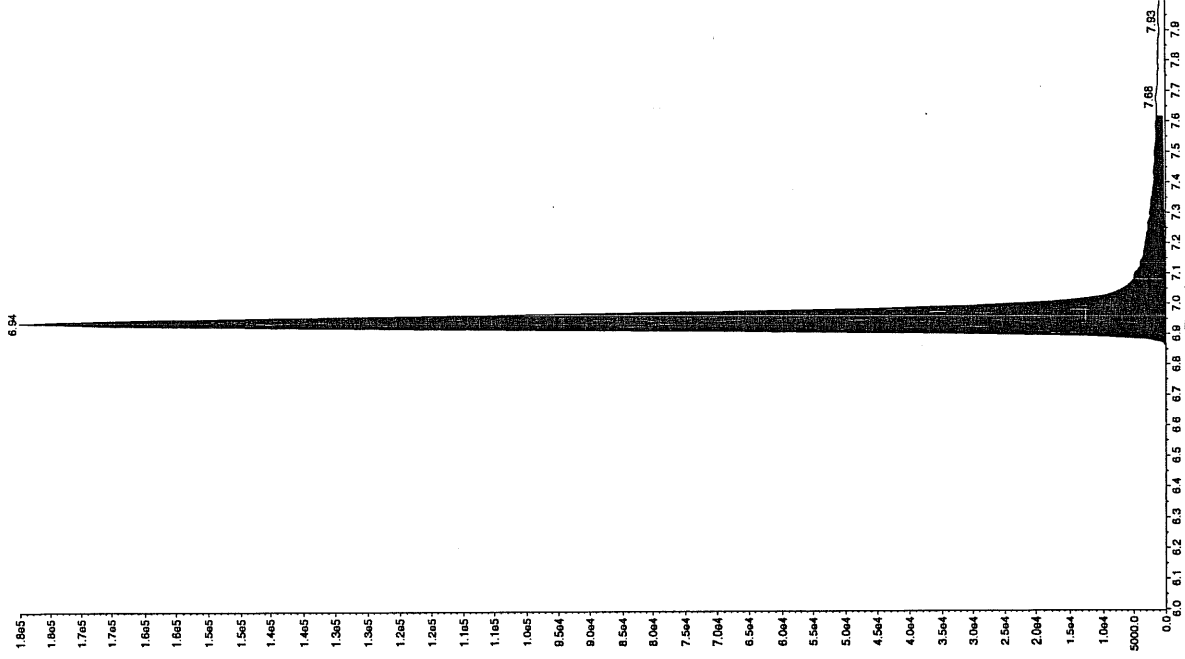
4mm 03/09/10

Sample Name: "WXX100306-260CV" Sample ID: "J1LER" File: "EXS03050079.wil"

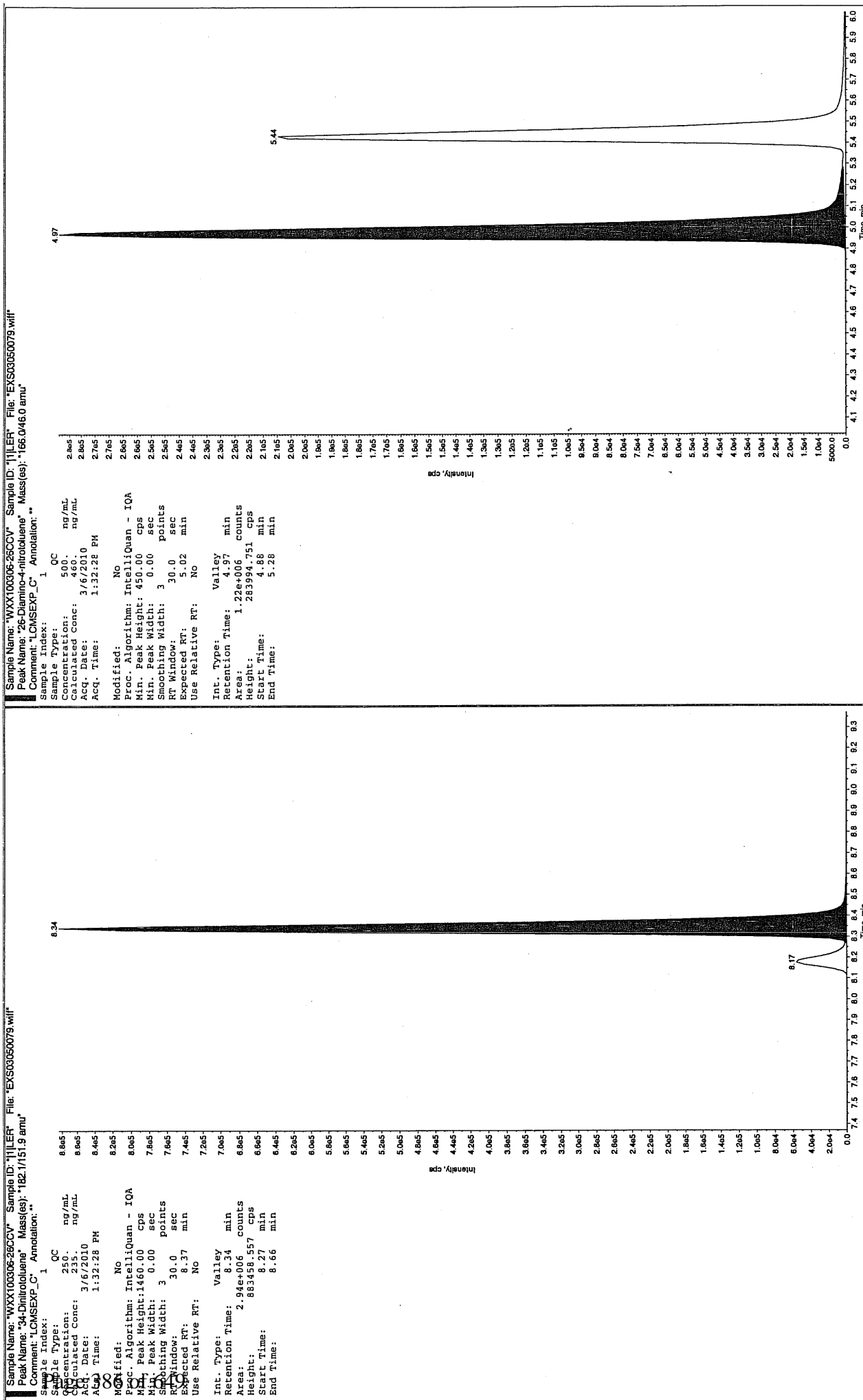
Peak Name: "ATB" Mass(es): "257.204.9 amu"

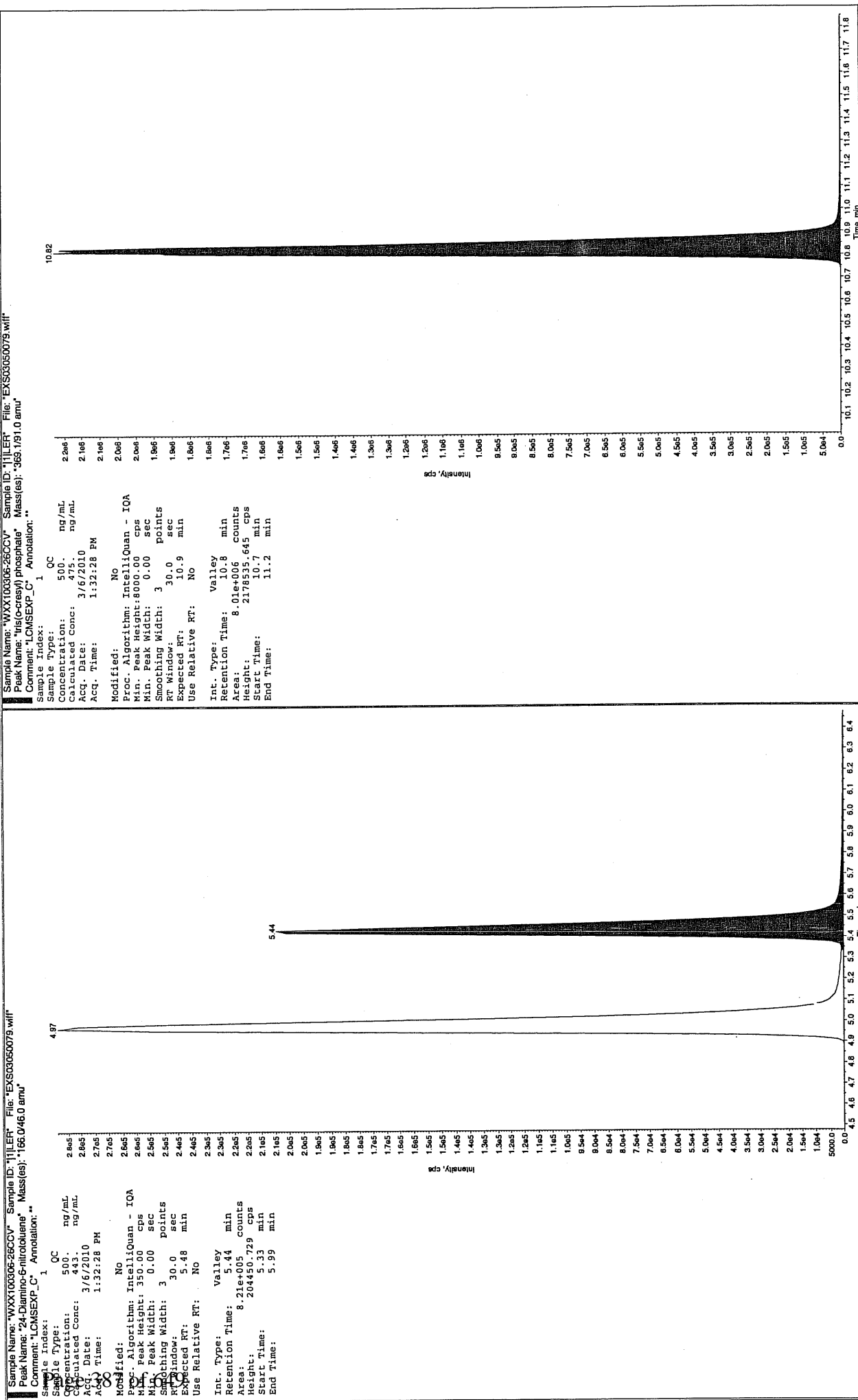
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 522. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 1:32:28 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.94 min
 Area: 7.51e+005 counts
 Height: 179990.768 cps
 Start Time: 6.84 min
 End Time: 7.62 min



*GEL, SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050081.wiff

Analysis Date: 06-MAR-10 14:03

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	96.5	97	
2,6-Diamino-4-nitrotoluene	100	99.1	99	
3,4-Dinitrotoluene	50	50.4	101	
3,5-Dinitroaniline	100	109	109	
TATB	100	114	114	
tris(o-cresyl) phosphate	100	95.1	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

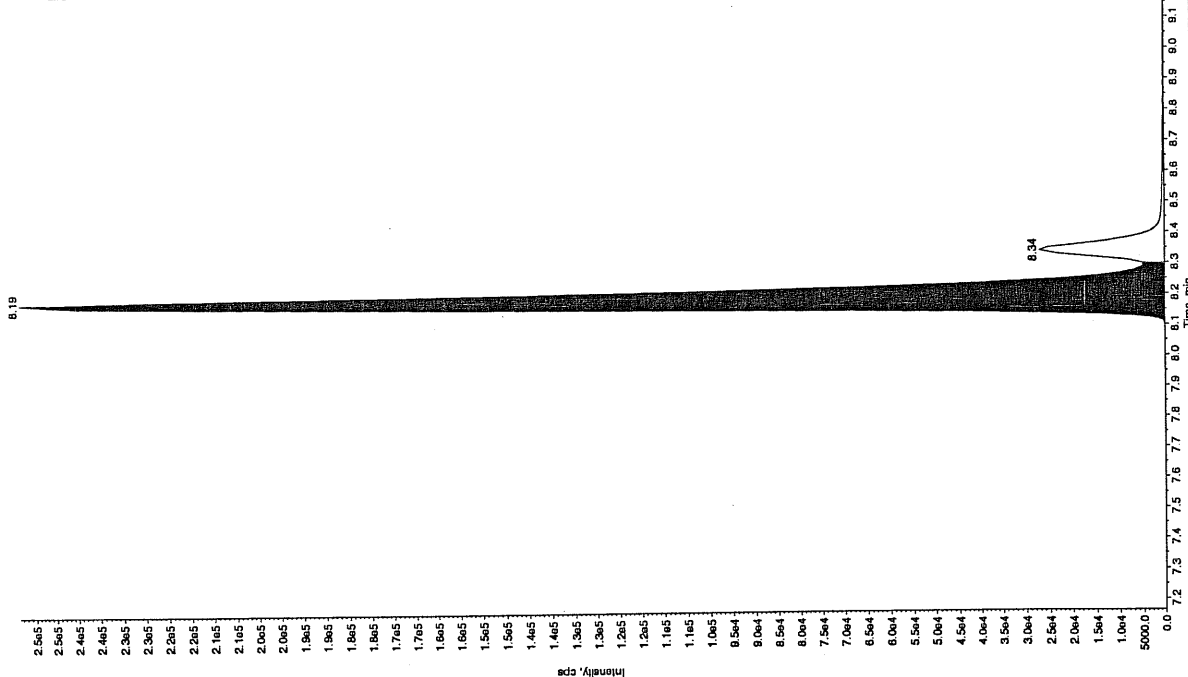
See 3/9/10

Sample Name: "WXX100306-270RI" Sample ID: "11LER" File: "EXS03050081.wif"

Peak Name: "35-Dinitrobenzidine" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 100. ng/mL
 Concentration: 109. ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 2:03:52 PM
 Acq. Time: 2:46:5
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.16 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.19 min
 Area: 9.28e+005 counts
 Height: 253832.703 cps
 Start Time: 8.09 min
 End Time: 8.30 min

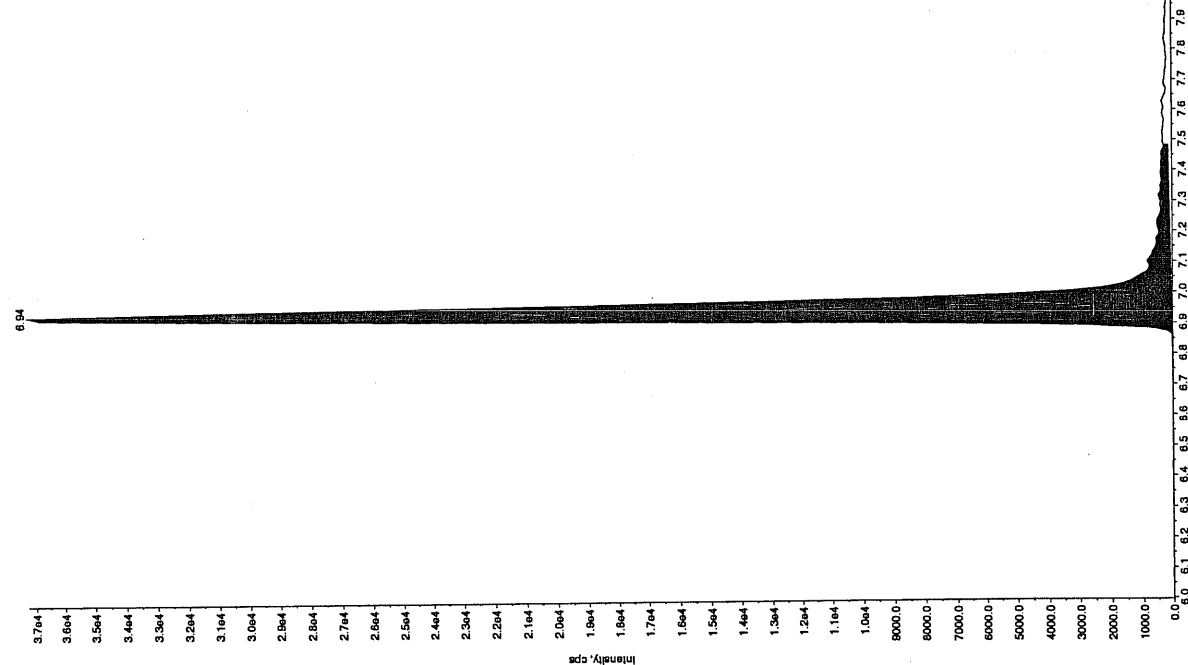


Sample Name: "WXX100306-270RI" Sample ID: "11LER" File: "EXS03050081.wif"

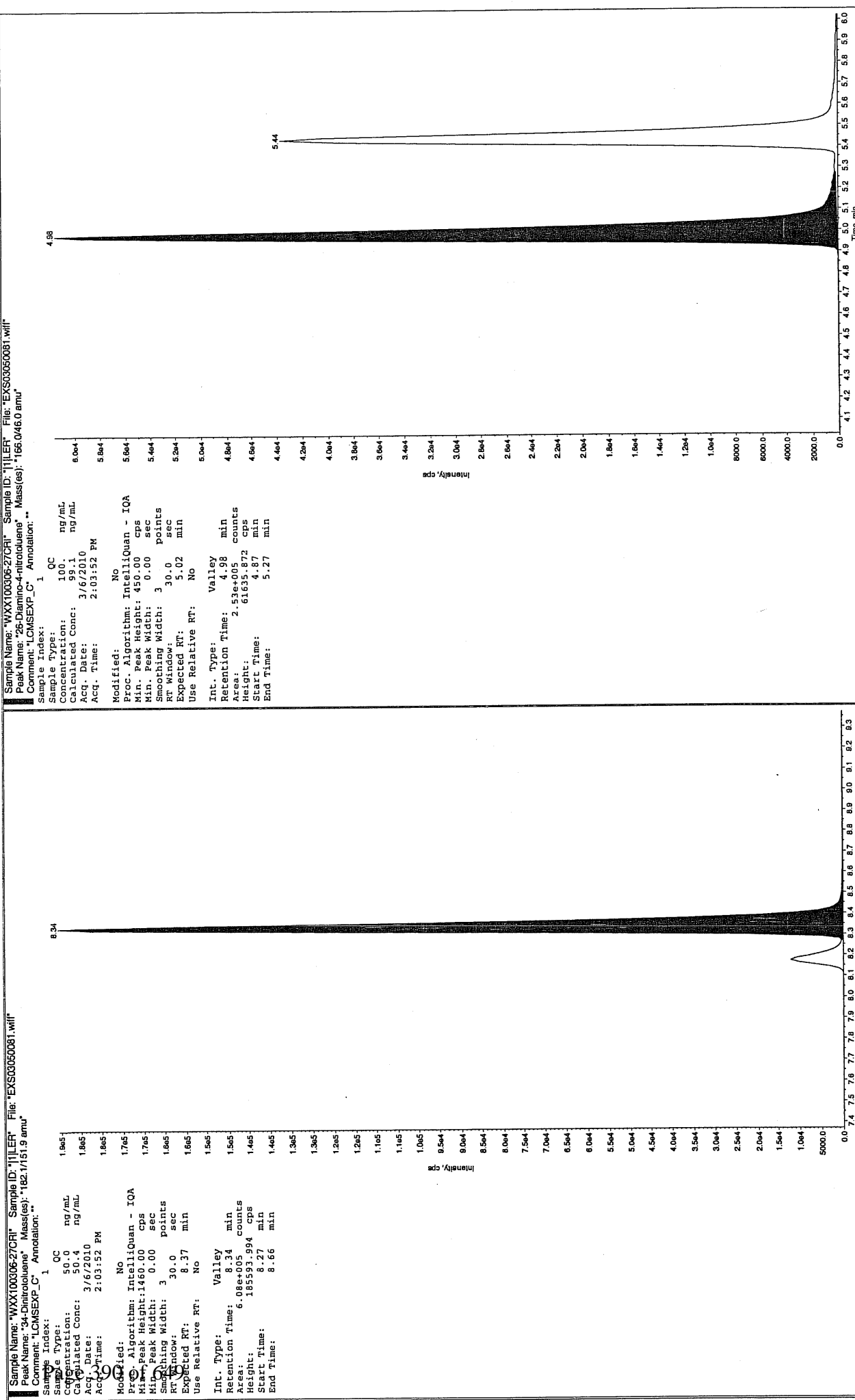
Peak Name: "TATB" Mass(es): "257.2204.9 amu"

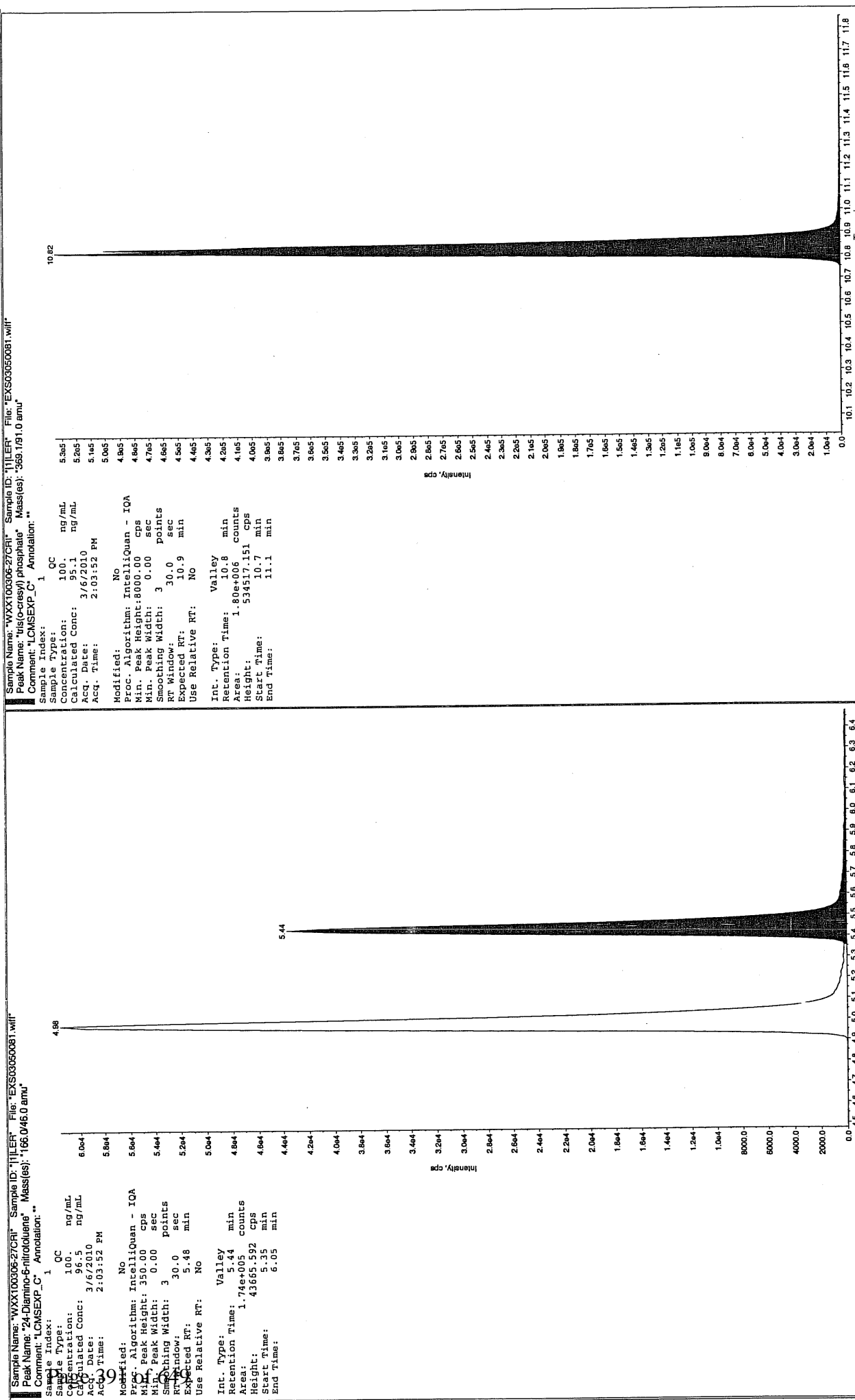
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 100. ng/mL
 Concentration: 114. ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 2:03:52 PM
 Acq. Time: 2:46:5
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.94 min
 Area: 1.51e+005 counts
 Height: 37239.651 cps
 Start Time: 6.85 min
 End Time: 7.48 min



See 3/9/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050084.wiff

Analysis Date: 06-MAR-10 14:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	464	93	
2,6-Diamino-4-nitrotoluene	500	505	101	
3,4-Dinitrotoluene	250	235	94	
3,5-Dinitroaniline	500	499	100	
TATB	500	535	107	
tris(o-cresyl) phosphate	500	486	97	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

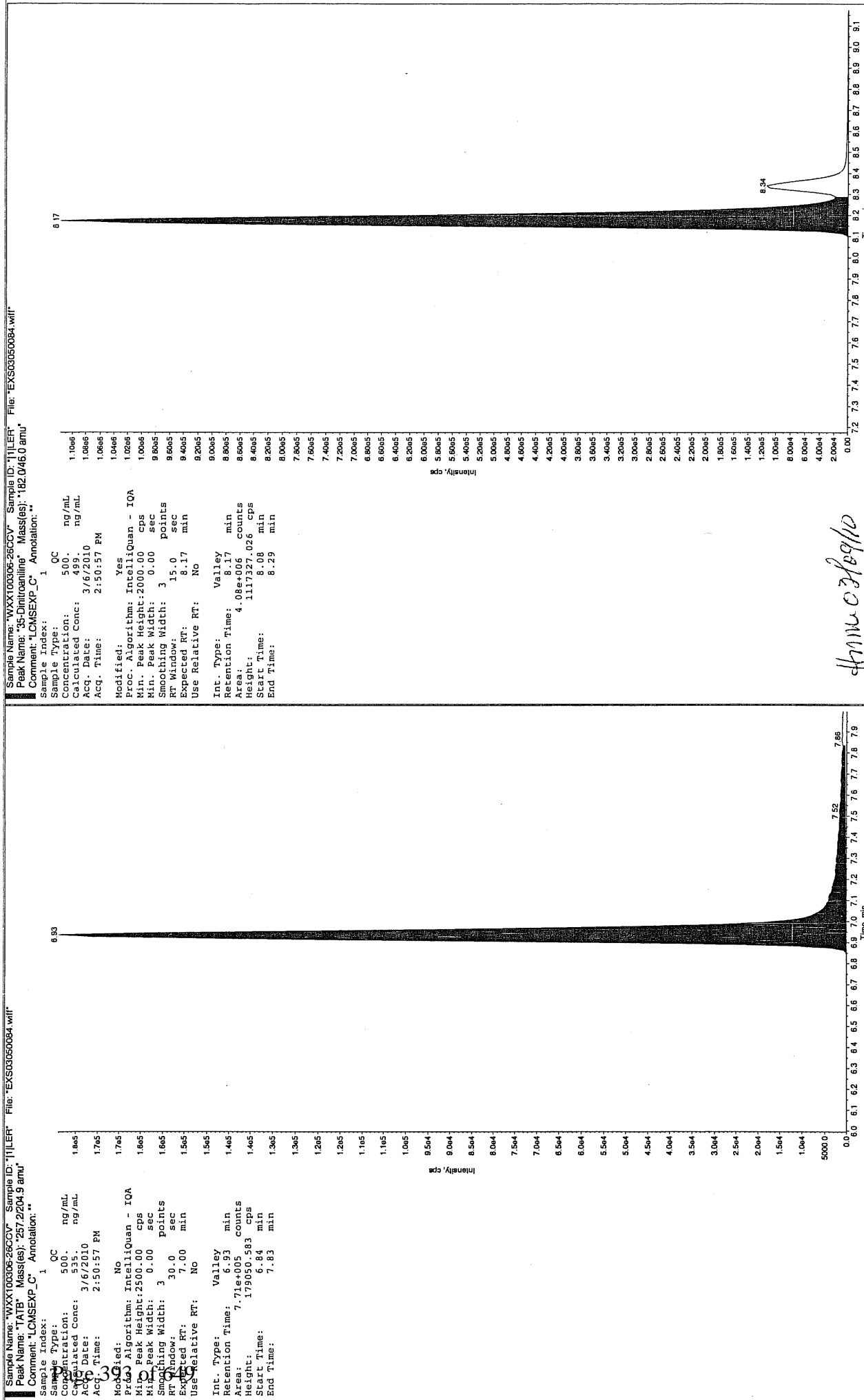
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

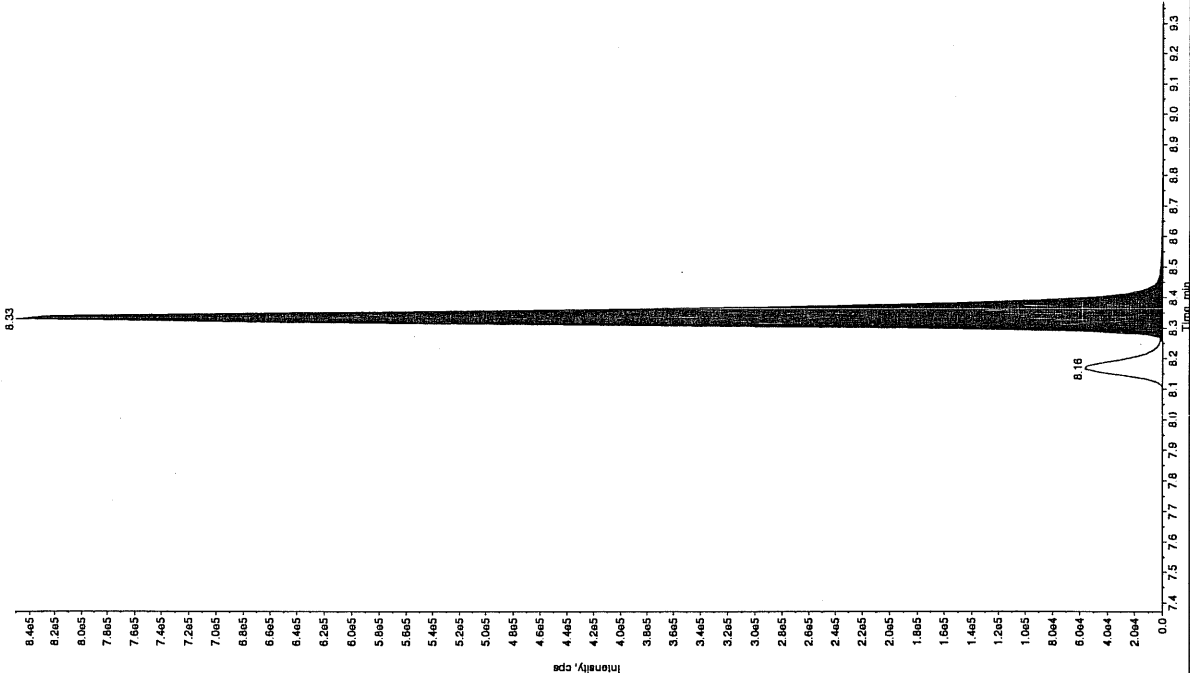
LCen 3/9/10



4mm 03/09/10

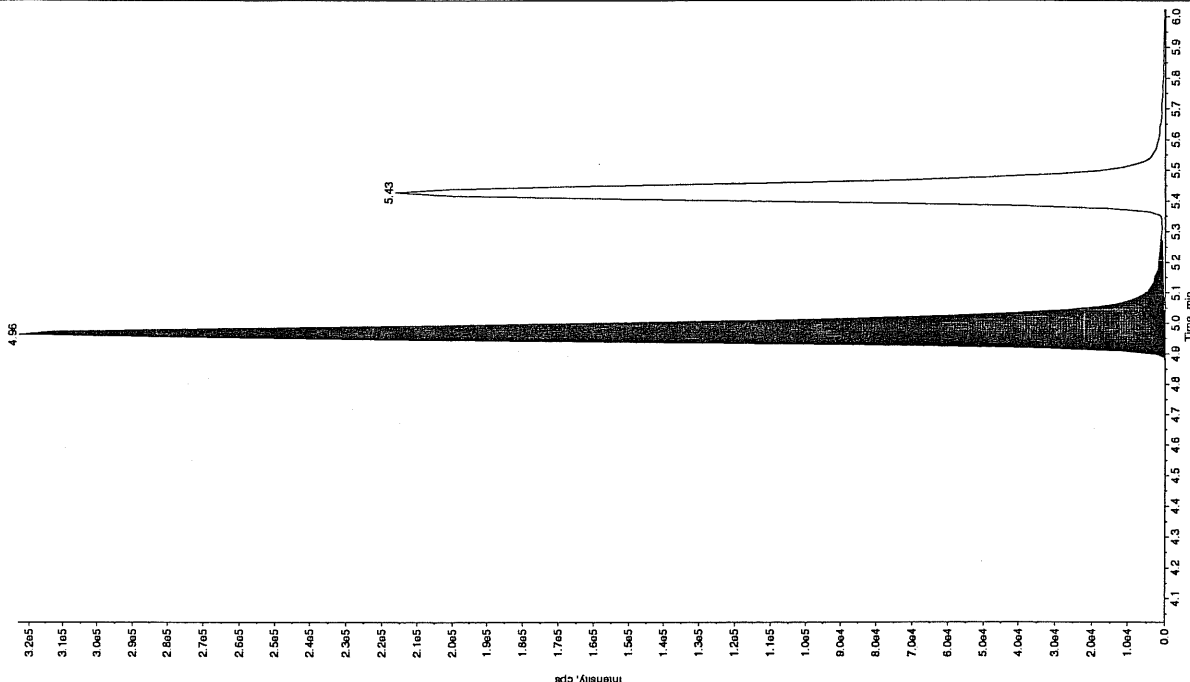
Sample Name: "WXX100006-260CV" Sample ID: "11JLER" File: "EXS00000084.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

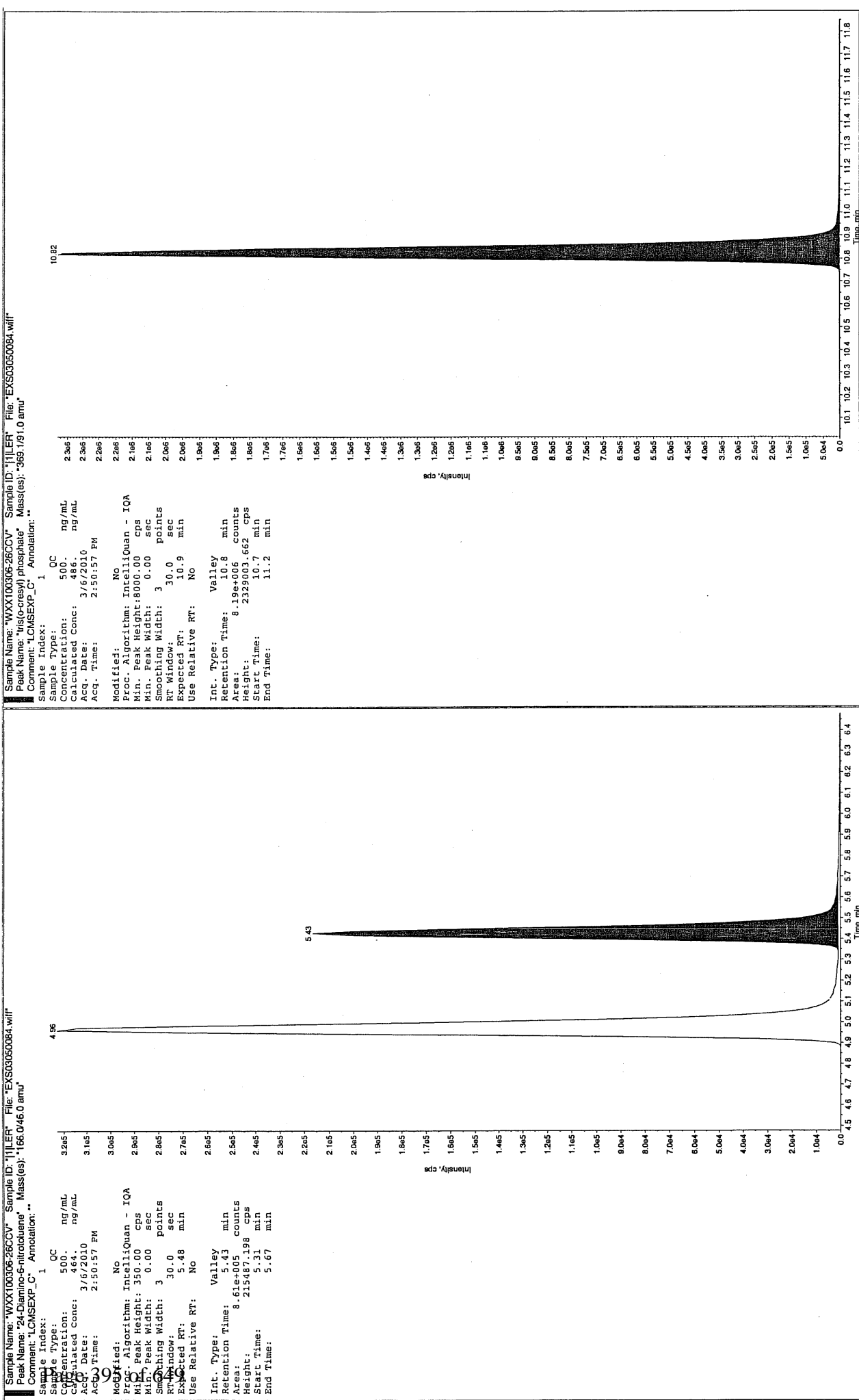
Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 333. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 2:50:57 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 8.37 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.95e+006 counts
 Height: 85035.571 cps
 Start Time: 8.26 min
 End Time: 8.66 min



Sample Name: "WXX100006-260CV" Sample ID: "11JLER" File: "EXS00000084.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.0/46.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 505. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 2:50:57 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 5.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.34e+006 counts
 Height: 322698.761 cps
 Start Time: 4.87 min
 End Time: 5.27 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050086.wiff

Analysis Date: 06-MAR-10 15:22

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	99.7	100	
2,6-Diamino-4-nitrotoluene	100	96.4	96	
3,4-Dinitrotoluene	50	50	100	
3,5-Dinitroaniline	100	107	107	
TATB	100	112	112	
tris(o-cresyl) phosphate	100	93.5	94	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

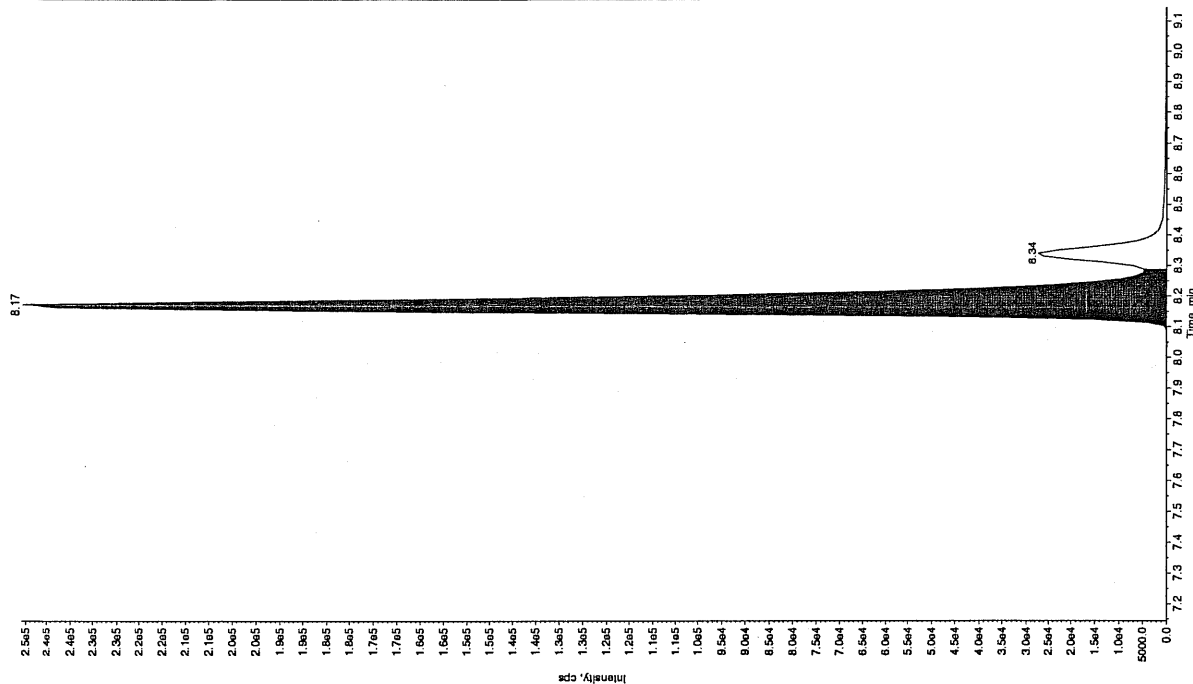
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 3/9/10

Sample Name: "WXX100306-27CRI" Sample ID: "111LER" File: "EXS03050086.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

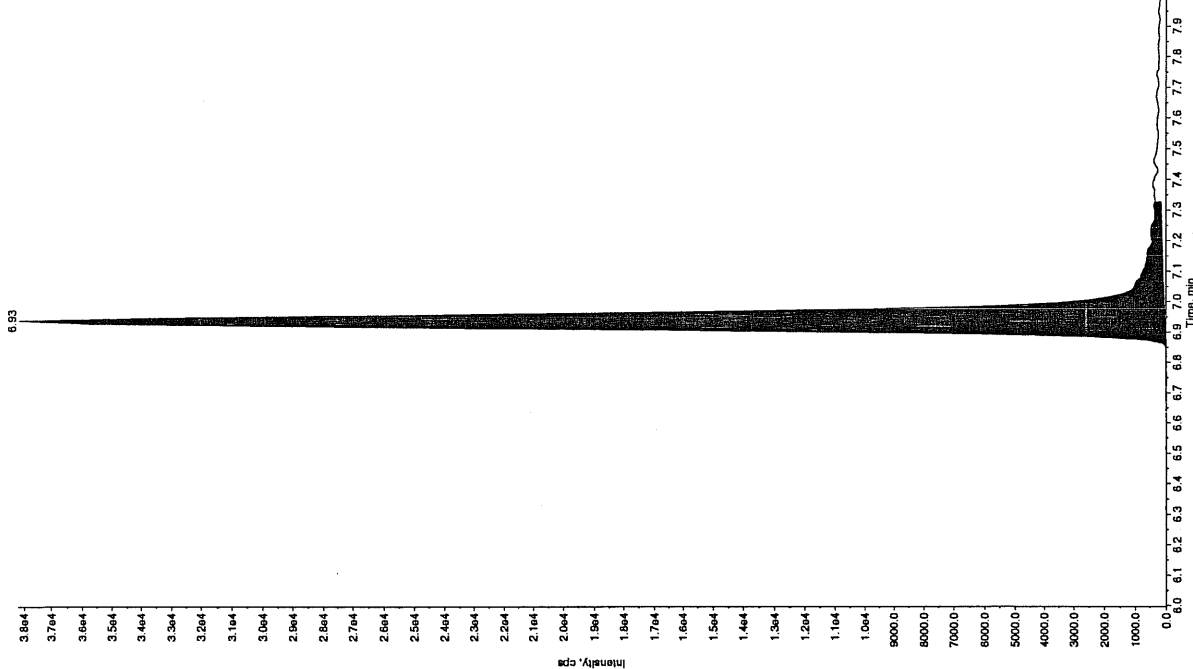
Sample Index: 1 QC
 Sample Type: 100. ng/mL
 Concentration: 107. ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 3:22:21 PM
 Acq. Time: 2.365
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.14 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 9.12e+005 counts
 Height: 245857.513 cps
 Start Time: 8.07 min
 End Time: 8.29 min

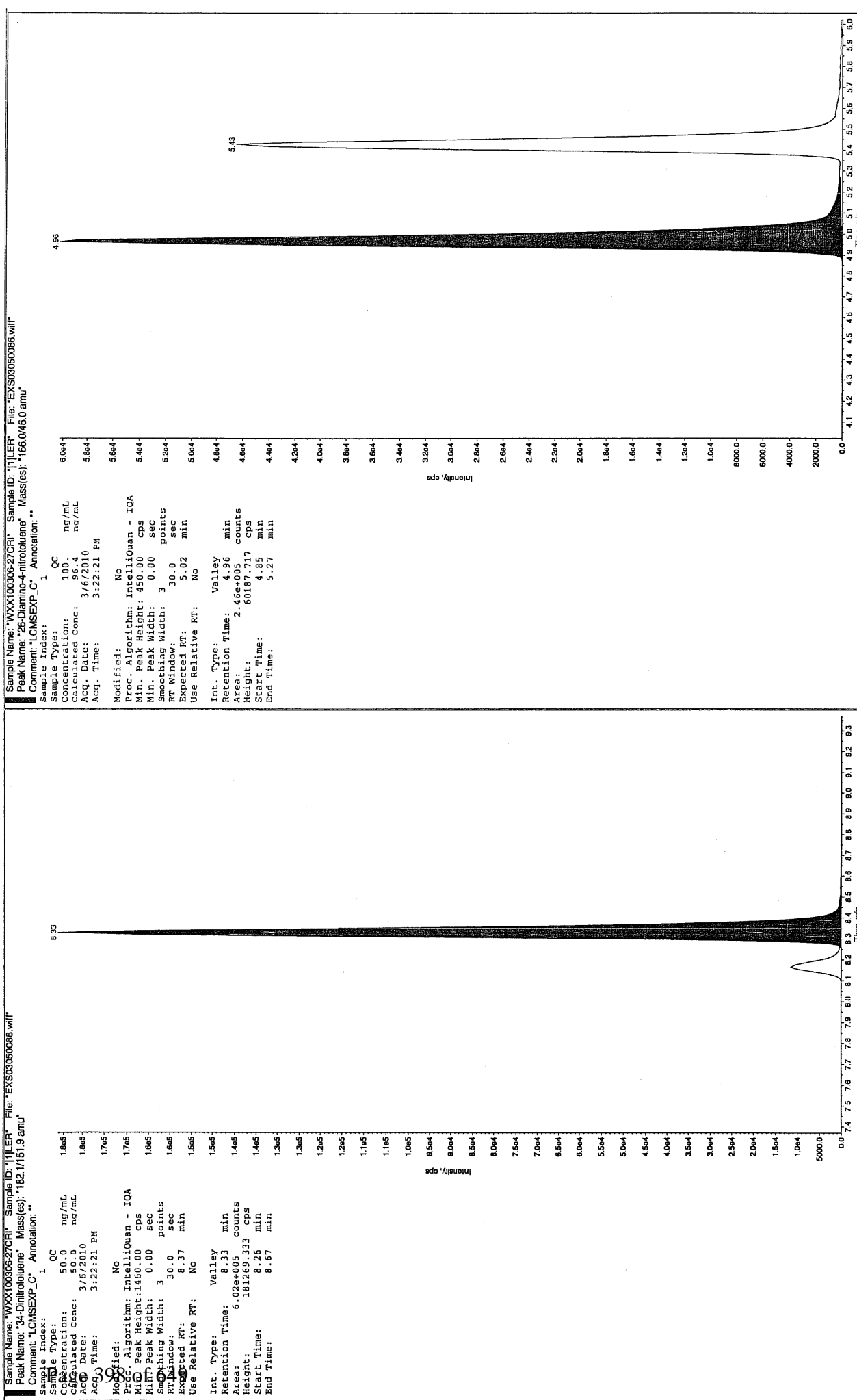


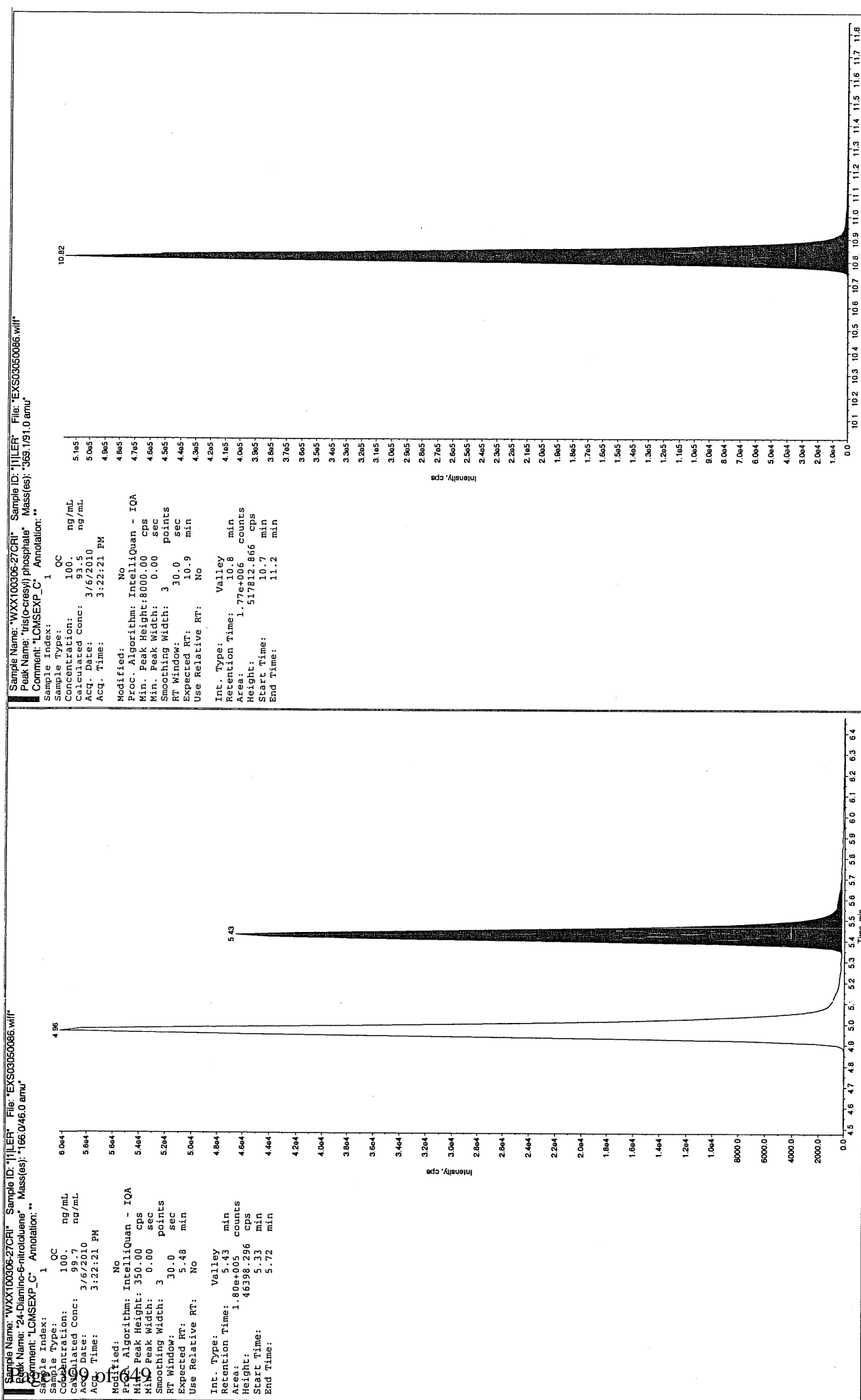
4/11/03/9/10

Sample Name: "WXX100306-27CRI" Sample ID: "111LER" File: "EXS03050086.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 100. ng/mL
 Concentration: 112. ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 3:22:21 PM
 Acq. Time: 3.664
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 1.48e+005 counts
 Height: 38156.437 cps
 Start Time: 6.84 min
 End Time: 7.33 min







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050093.wiff

Analysis Date: 06-MAR-10 17:12

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	472	95	
2,6-Diamino-4-nitrotoluene	500	492	99	
3,4-Dinitrotoluene	250	233	93	
3,5-Dinitroaniline	500	521	104	
TATB	500	535	107	
tris(o-cresyl) phosphate	500	515	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

See 3/9/10

Sample Name: "WXX100306-250CV" Sample ID: "JILLER" File: "EXS03050093.wif"

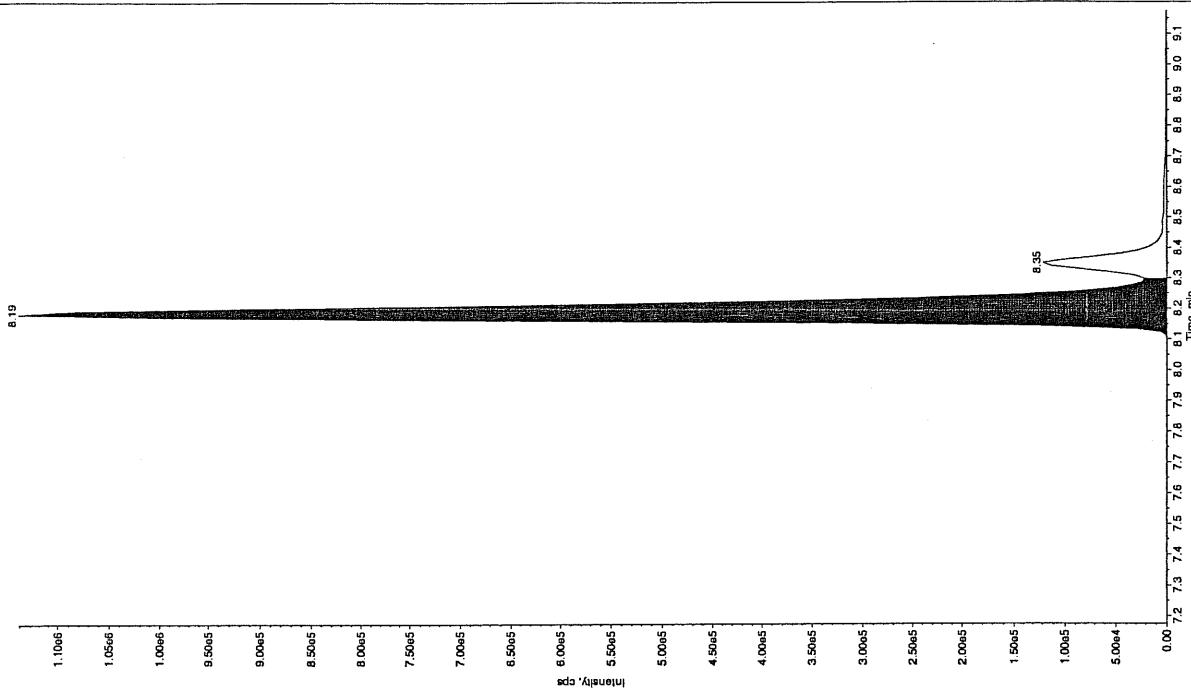
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 521. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:12:20 PM

Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.19 min
 Area: 4.24e+006 counts
 Height: 1140857.910 cps
 Start Time: 8.09 min
 End Time: 8.30 min



dhm 03/09/10

Sample Name: "WXX100306-250CV" Sample ID: "JILLER" File: "EXS03050093.wif"

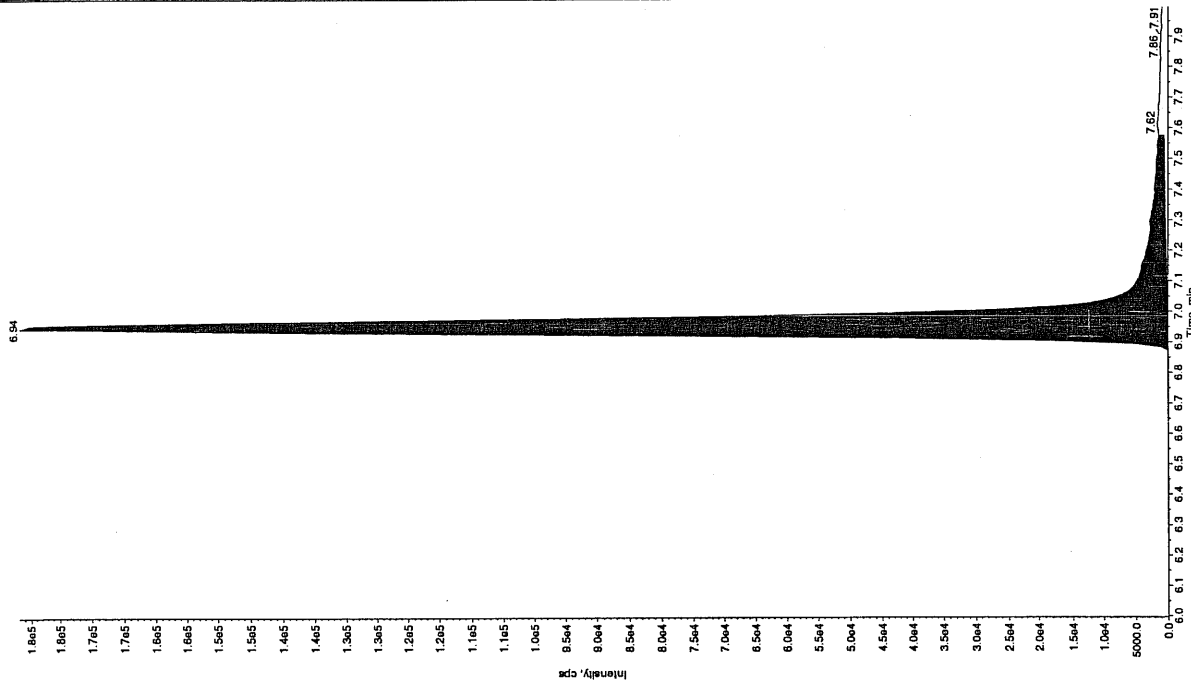
Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 535. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:12:20 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No

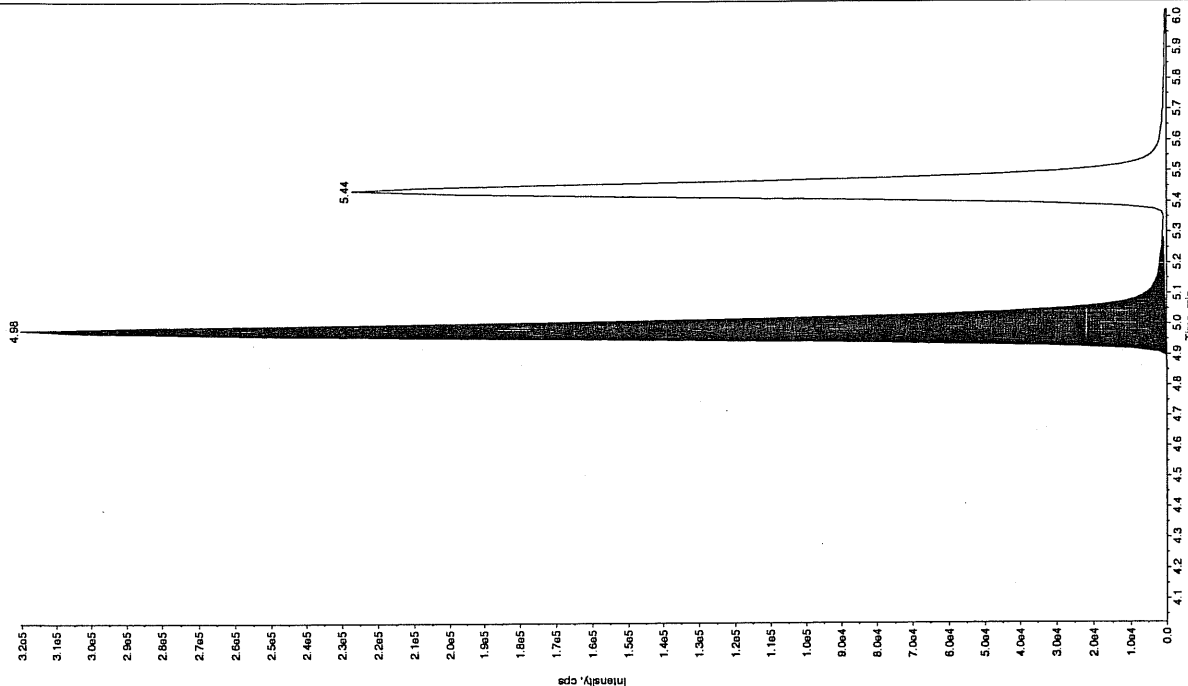
Int. Type: Valley
 Retention Time: 6.94 min
 Area: 7.70e+005 counts
 Height: 181904.495 cps
 Start Time: 6.85 min
 End Time: 7.58 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

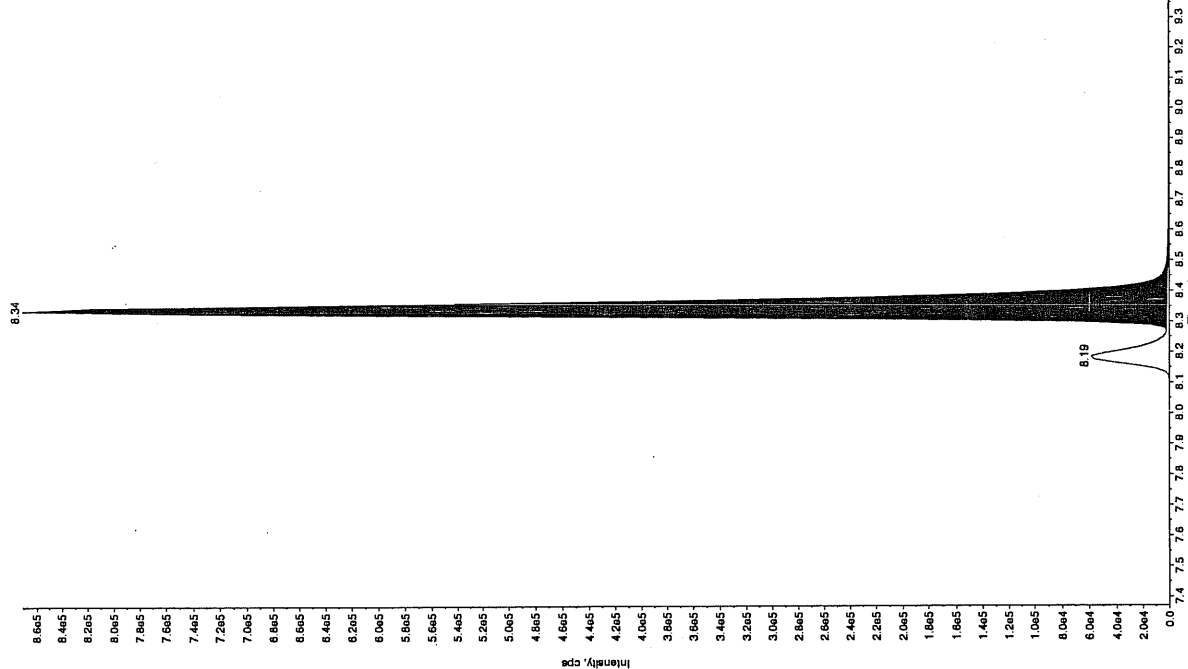
Sample Name: "WXX100306-260CV" Sample ID: "JILER" File: "EXS03050093.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

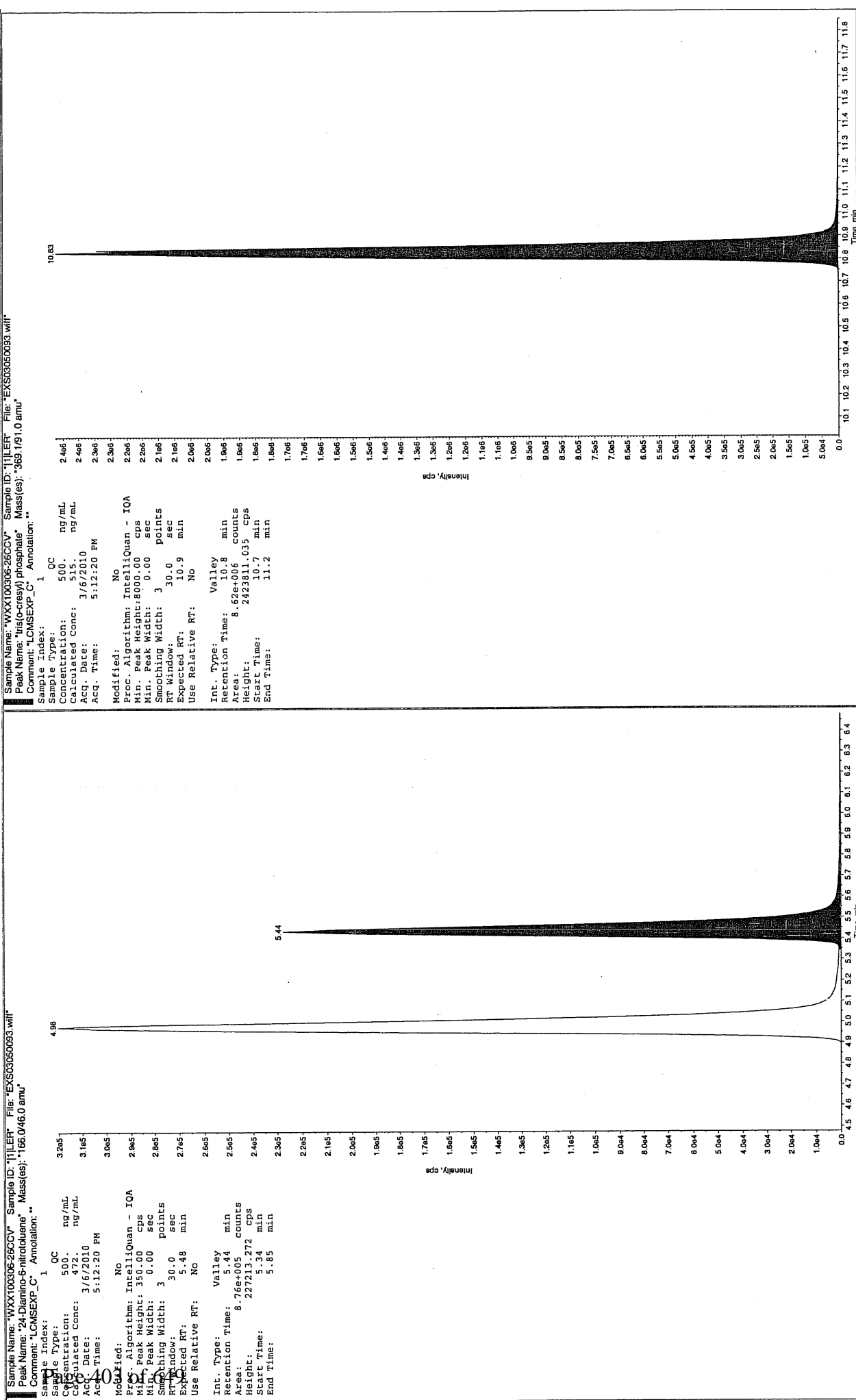
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 492. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:12:20 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 1.30e+006 counts
 Height: 320335.693 cps
 Start Time: 4.89 min
 End Time: 5.28 min



Sample Name: "WXX100306-260CV" Sample ID: "JILER" File: "EXS03050093.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1751.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 233. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:12:20 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 8.37 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 2.92e+006 counts
 Height: 869344.299 cps
 Start Time: 8.27 min
 End Time: 8.59 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050095.wiff

Analysis Date: 06-MAR-10 17:43

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	100	103	103	
2,4-Diamino-6-nitrotoluene	100	101	101	
2,6-Diamino-4-nitrotoluene	100	106	106	
3,4-Dinitrotoluene	50	50.4	101	
3,5-Dinitroaniline	100	107	107	
TATB	100	110	110	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

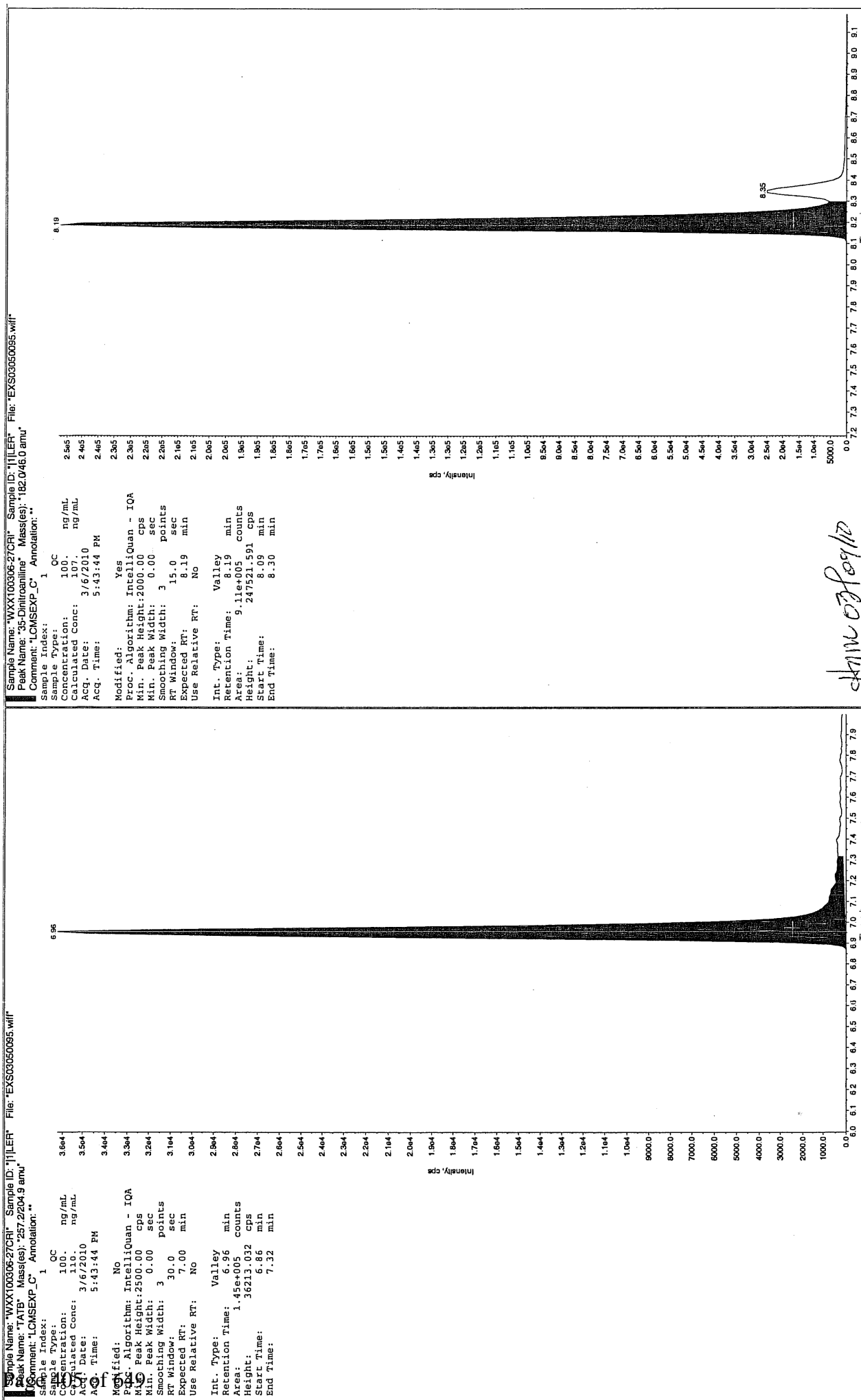
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

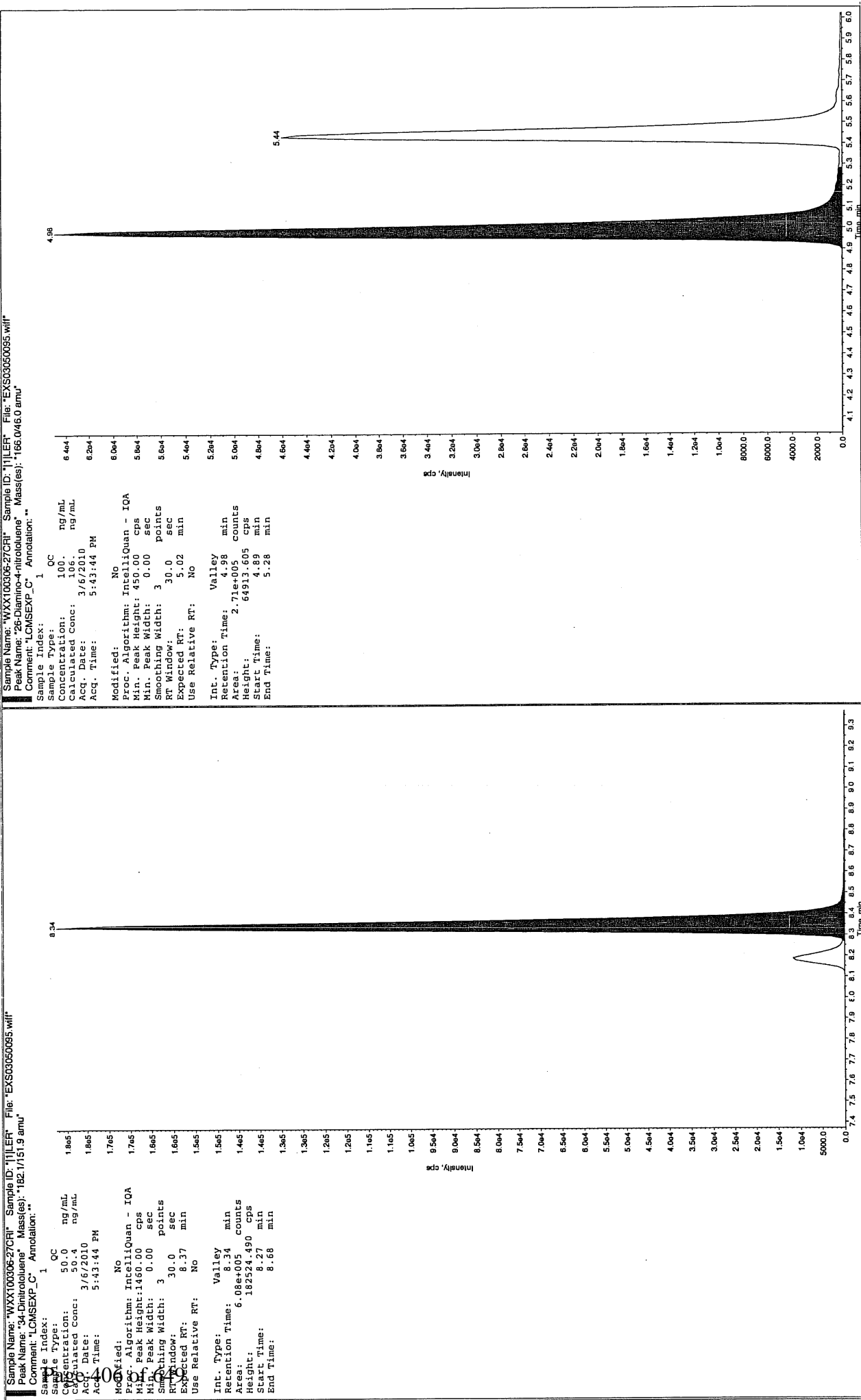
Column used to flag Recovery outside of Limits

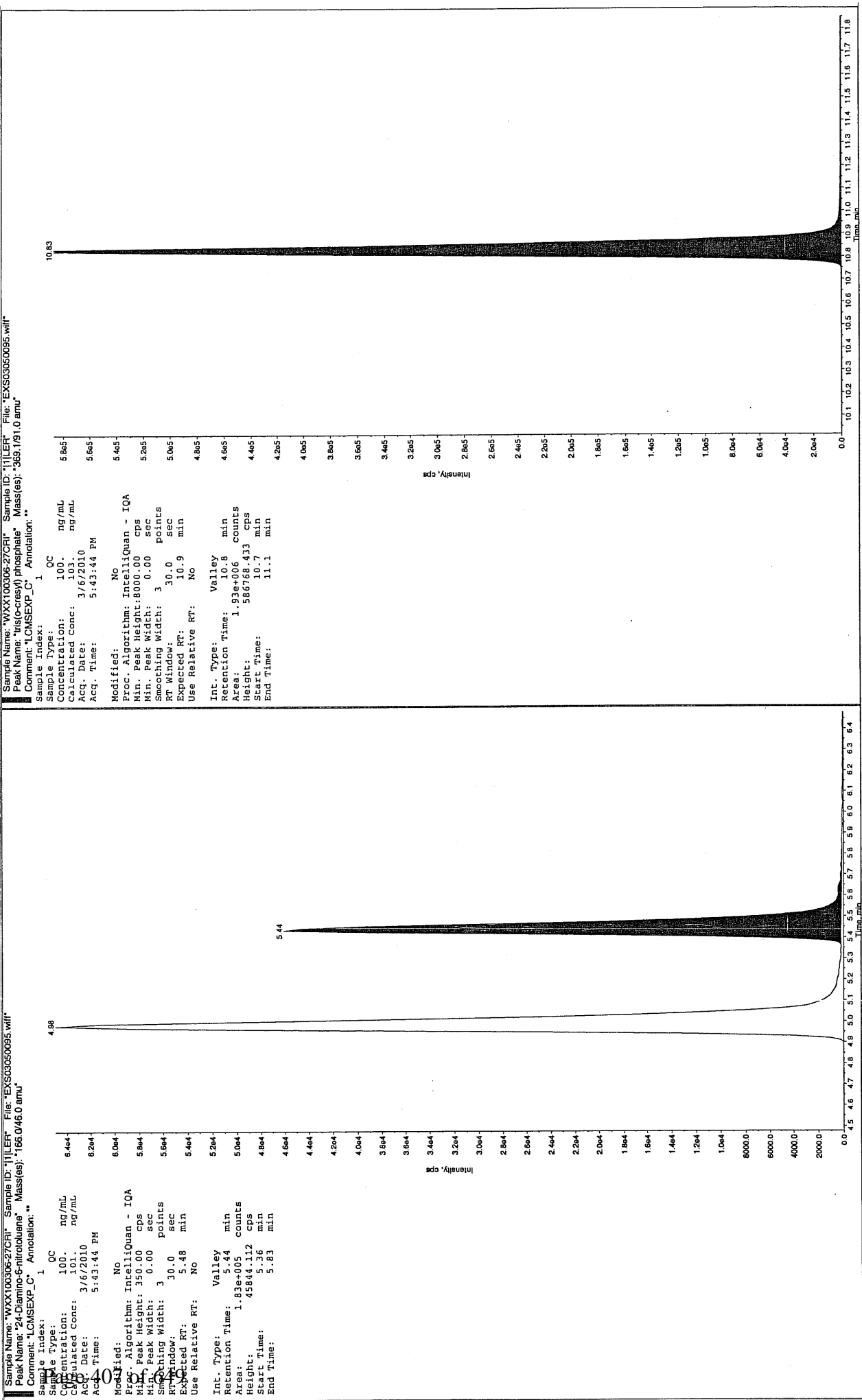
* Value outside of Recovery Limits

Jan 3/9/10



Jan 03/09/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050106.wiff

Analysis Date: 06-MAR-10 20:36

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	500	513	103	
TATB	500	582	116	
tris(o-cresyl) phosphate	500	520	104	
2,4-Diamino-6-nitrotoluene	500	477	95	
2,6-Diamino-4-nitrotoluene	500	464	93	
3,4-Dinitrotoluene	250	236	94	

Recovery Limits:

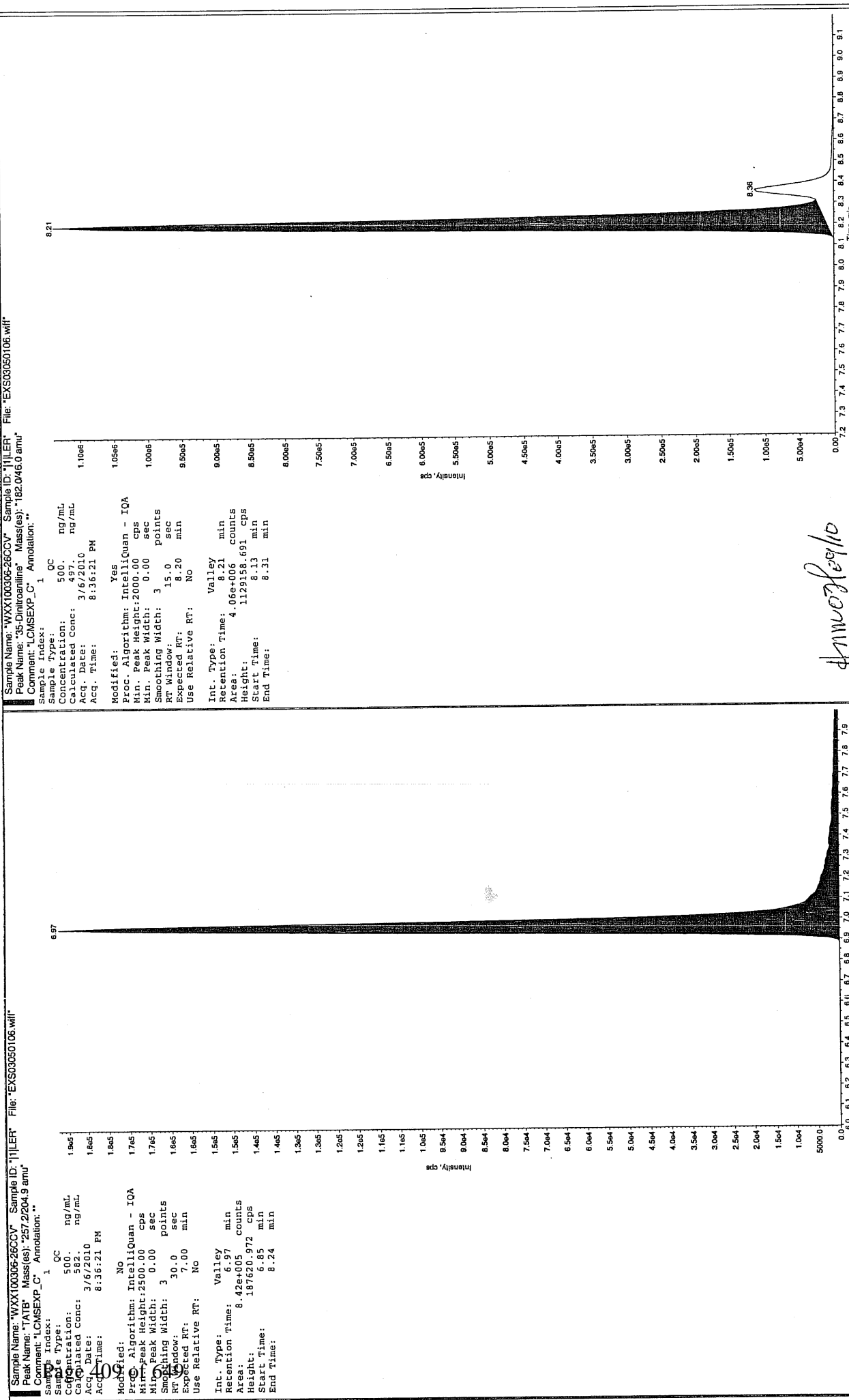
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/10



after Jan 31/10

Sample Name: "WXX100306-260CV" Sample ID: "111ER" File: "EXS03060106.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 513. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:36:21 PM

Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.20 min
 Use Relative RT: No

Int. Type: Manual
 Retention Time: 8.20 min
 Area: 4.18e+006 counts
 Height: 1138722.355 cps
 Start Time: 8.13 min
 End Time: 8.31 min

Sample Name: "WXX100306-260CV" Sample ID: "111ER" File: "EXS03060106.wif"

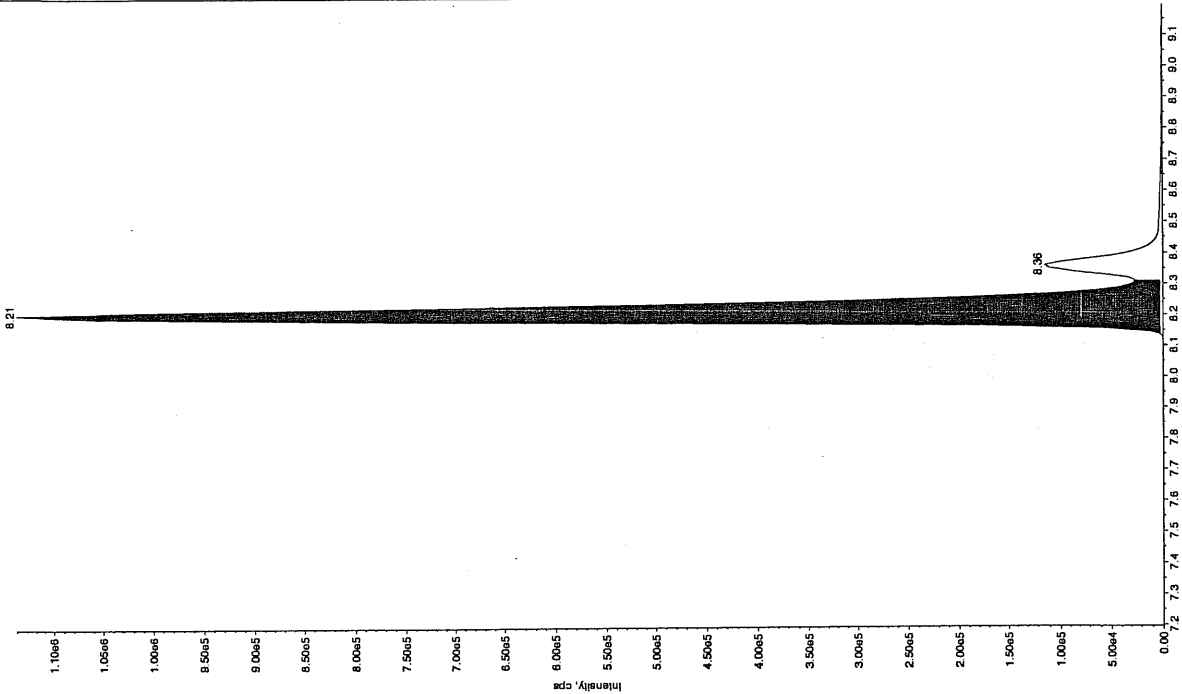
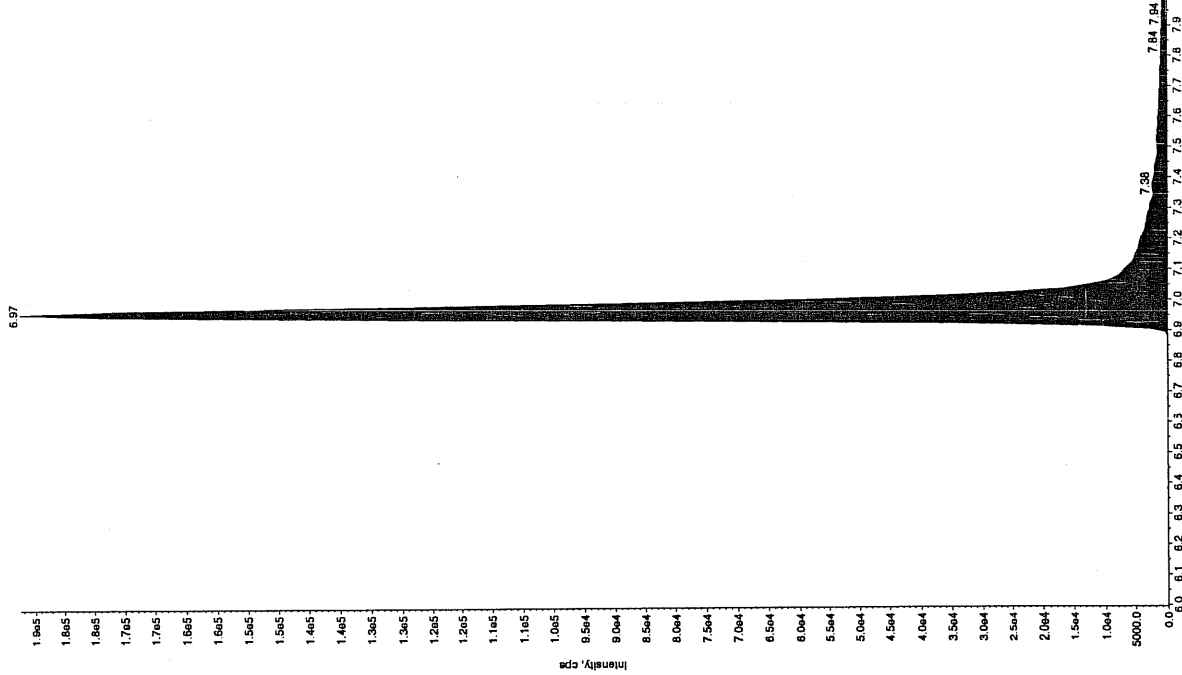
Peak Name: "TATB" Mass(es): "257.2204.9 amu"

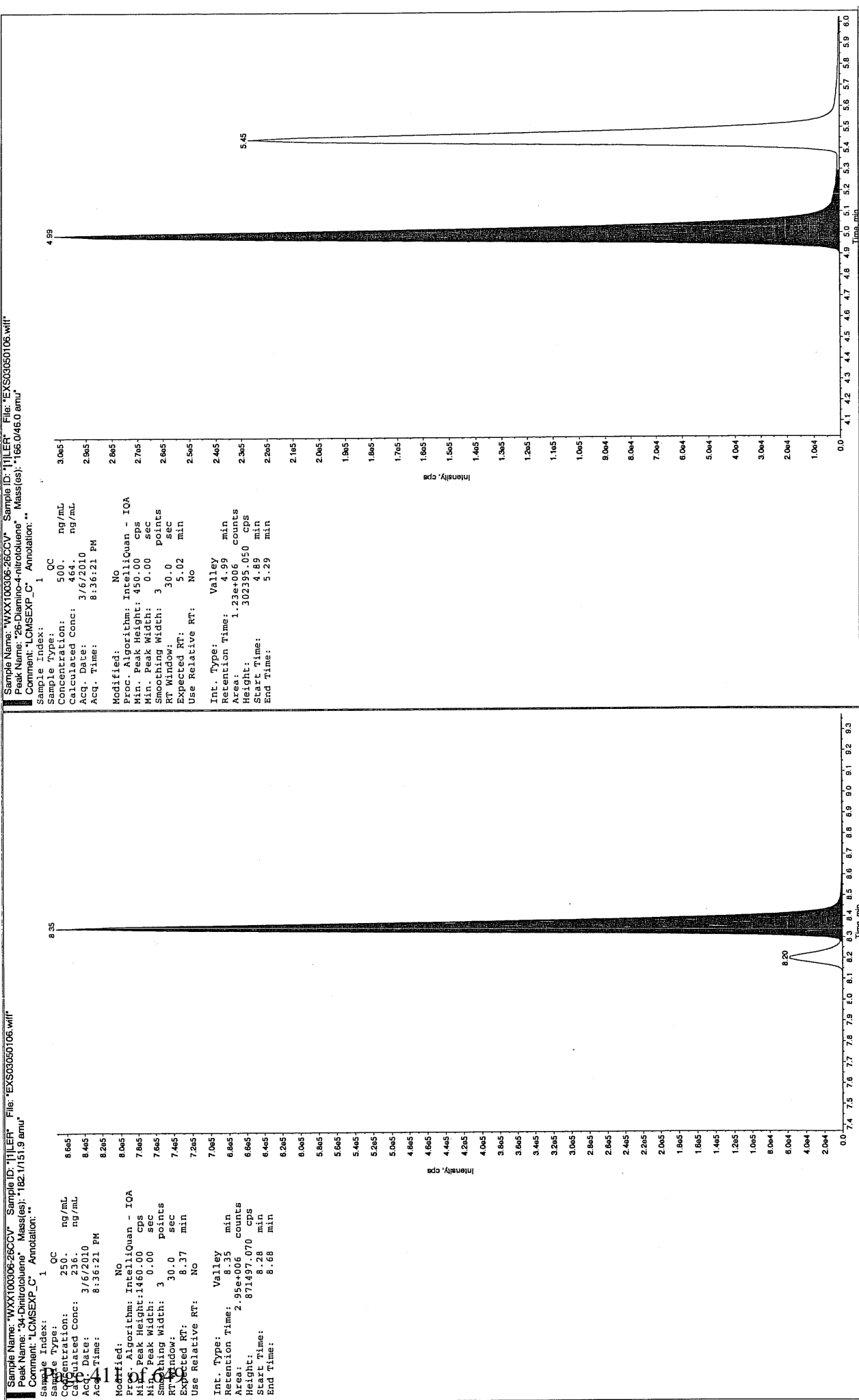
Comment: "LCMSEXP_C" Annotation: "

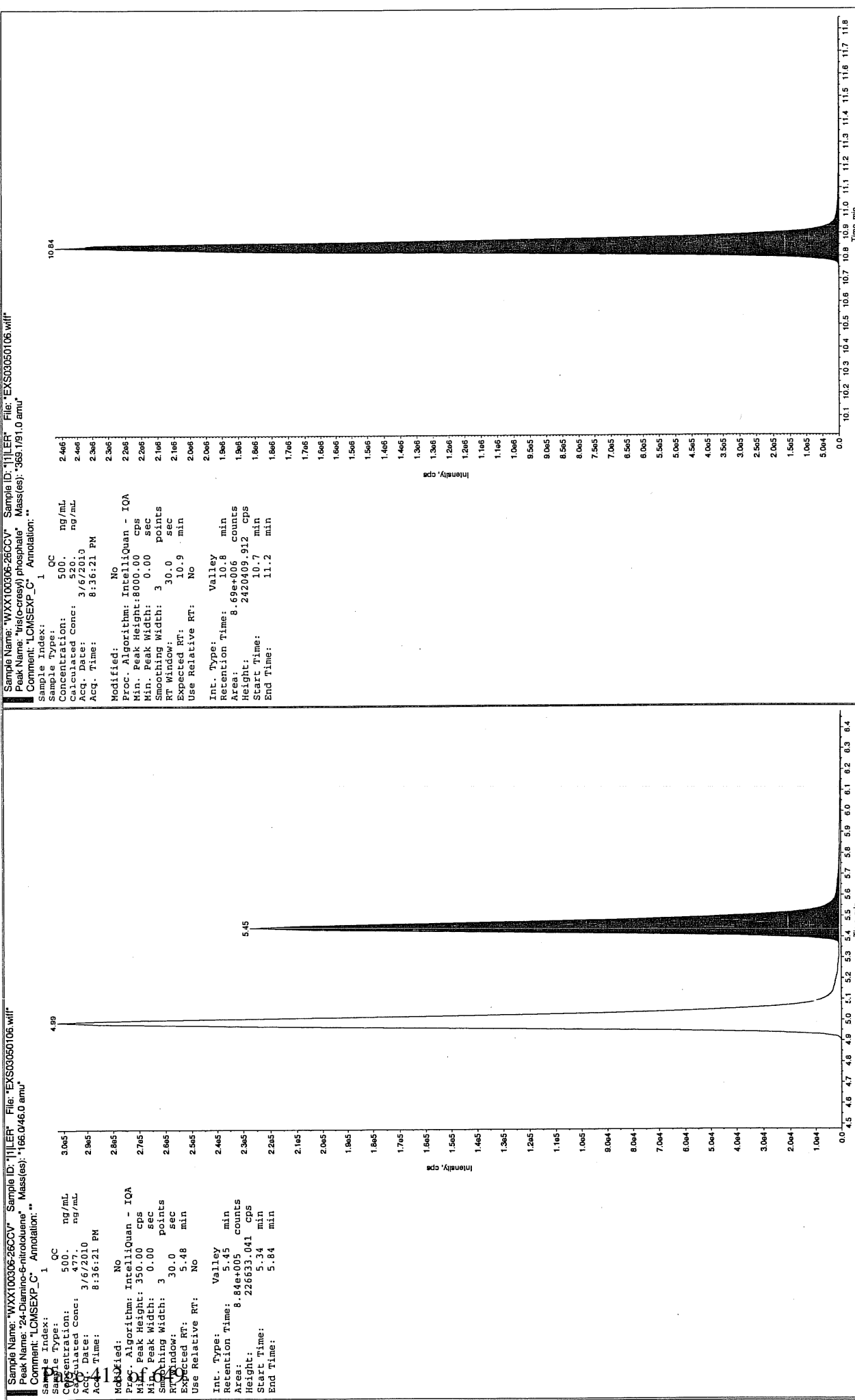
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 582. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 8:36:21 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 6.97 min
 Area: 8.42e+005 counts
 Height: 187620.972 cps
 Start Time: 6.85 min
 End Time: 8.24 min







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050108.wiff

Analysis Date: 06-MAR-10 21:07

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	98.3	98	
2,6-Diamino-4-nitrotoluene	100	105	105	
3,4-Dinitrotoluene	50	49.8	100	
3,5-Dinitroaniline	100	104	104	
TATB	100	120	120	
tris(o-cresyl) phosphate	100	106	106	

Recovery Limits:

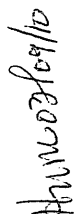
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

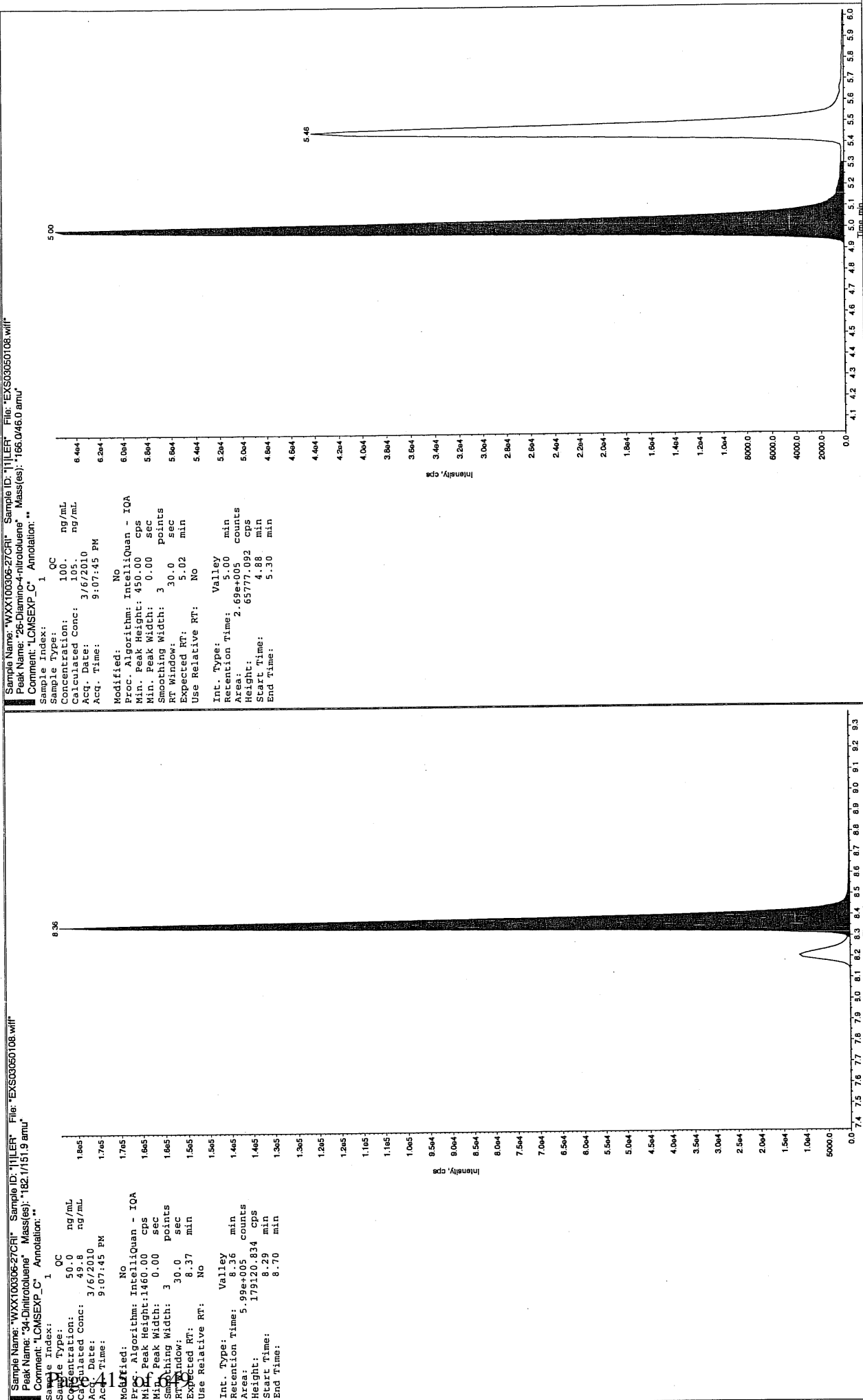
2,4-Diamino-6-nitrotoluene 50-150%

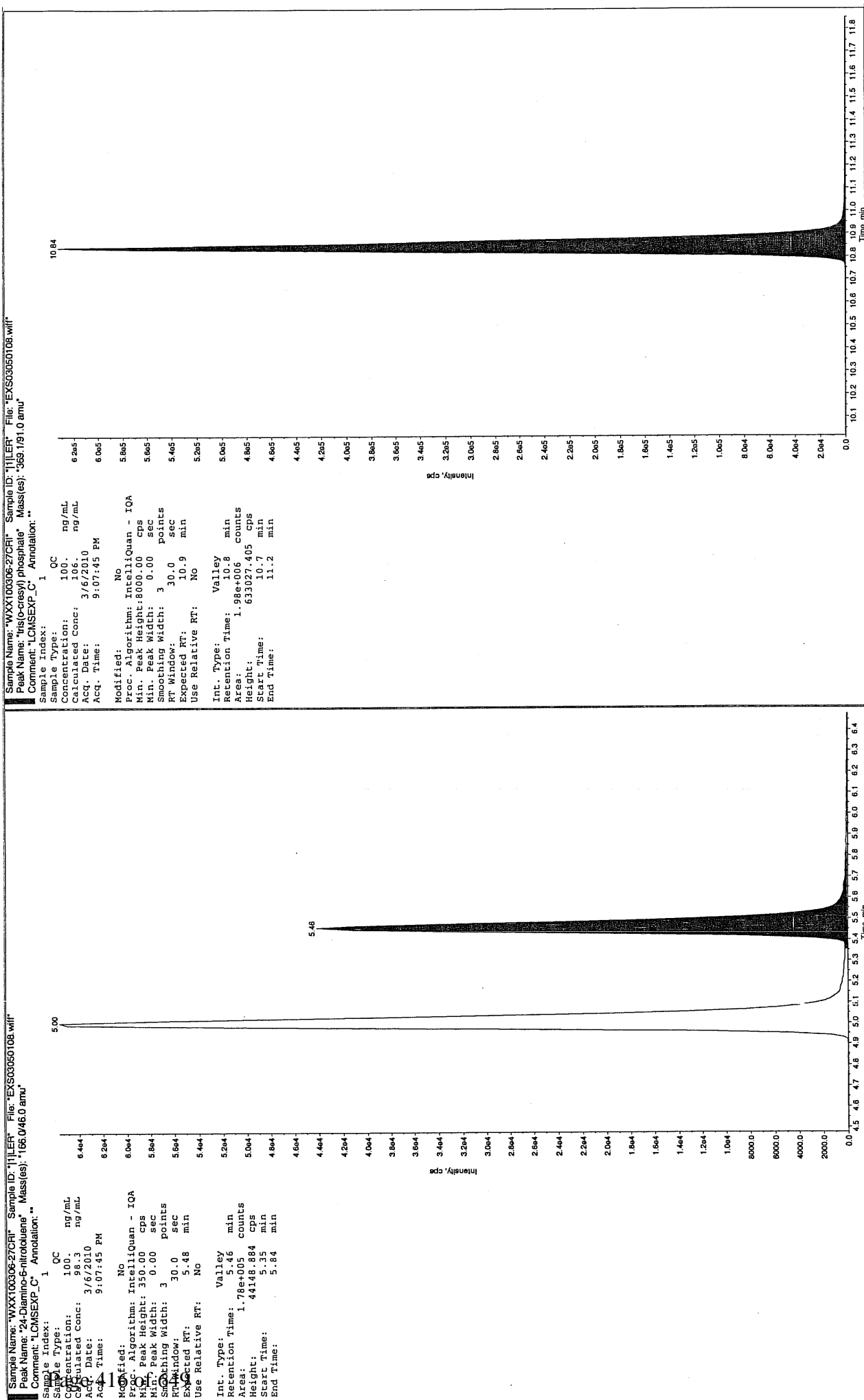
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050118.wiff

Analysis Date: 06-MAR-10 23:44

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	511	102	
2,6-Diamino-4-nitrotoluene	500	500	100	
3,4-Dinitrotoluene	250	242	97	
3,5-Dinitroaniline	500	538	108	
TATB	500	599	120	
tris(o-cresyl) phosphate	500	517	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

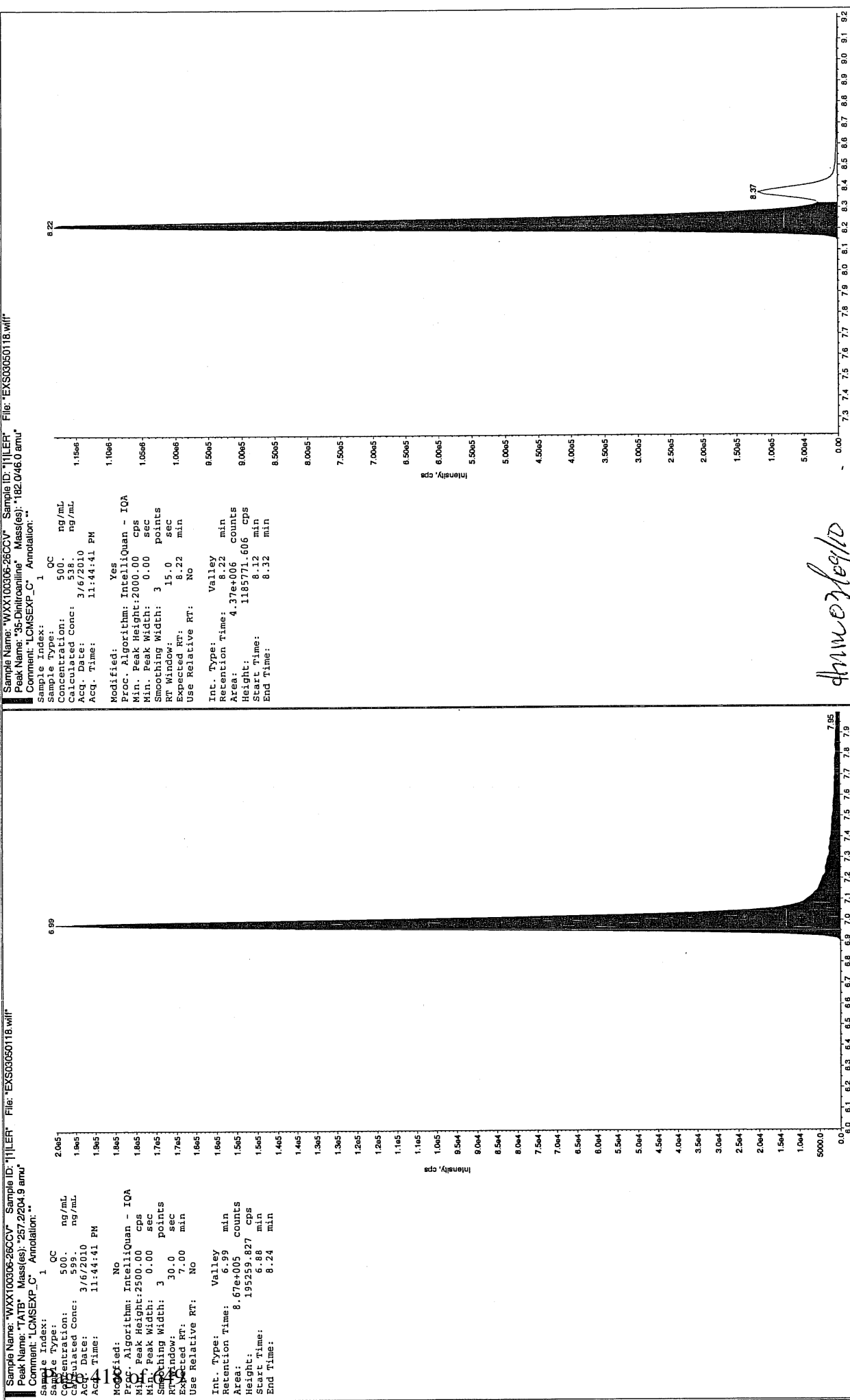
2,4-Diamino-6-nitrotoluene 70-130%

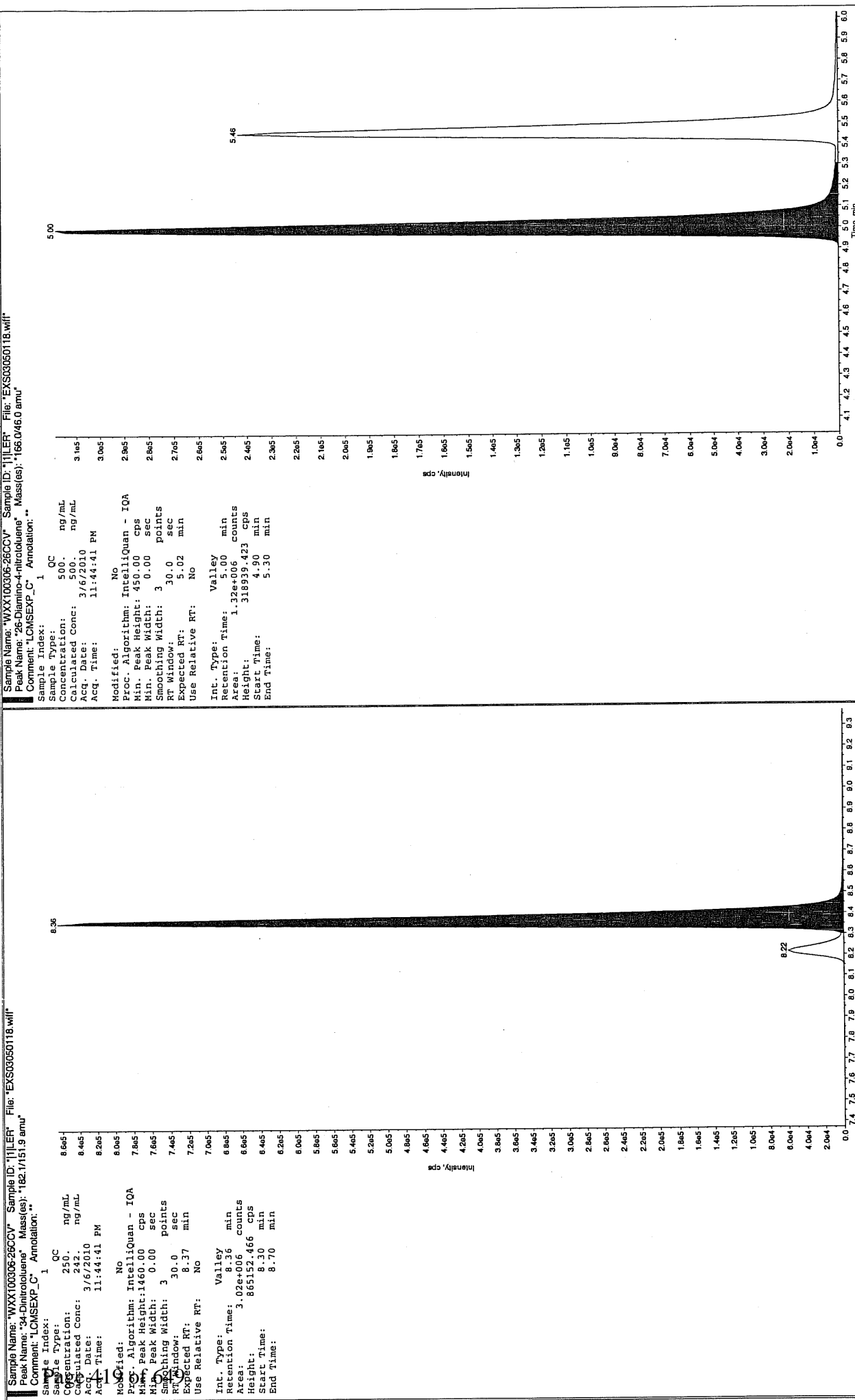
Other Target Analytes 80-120%

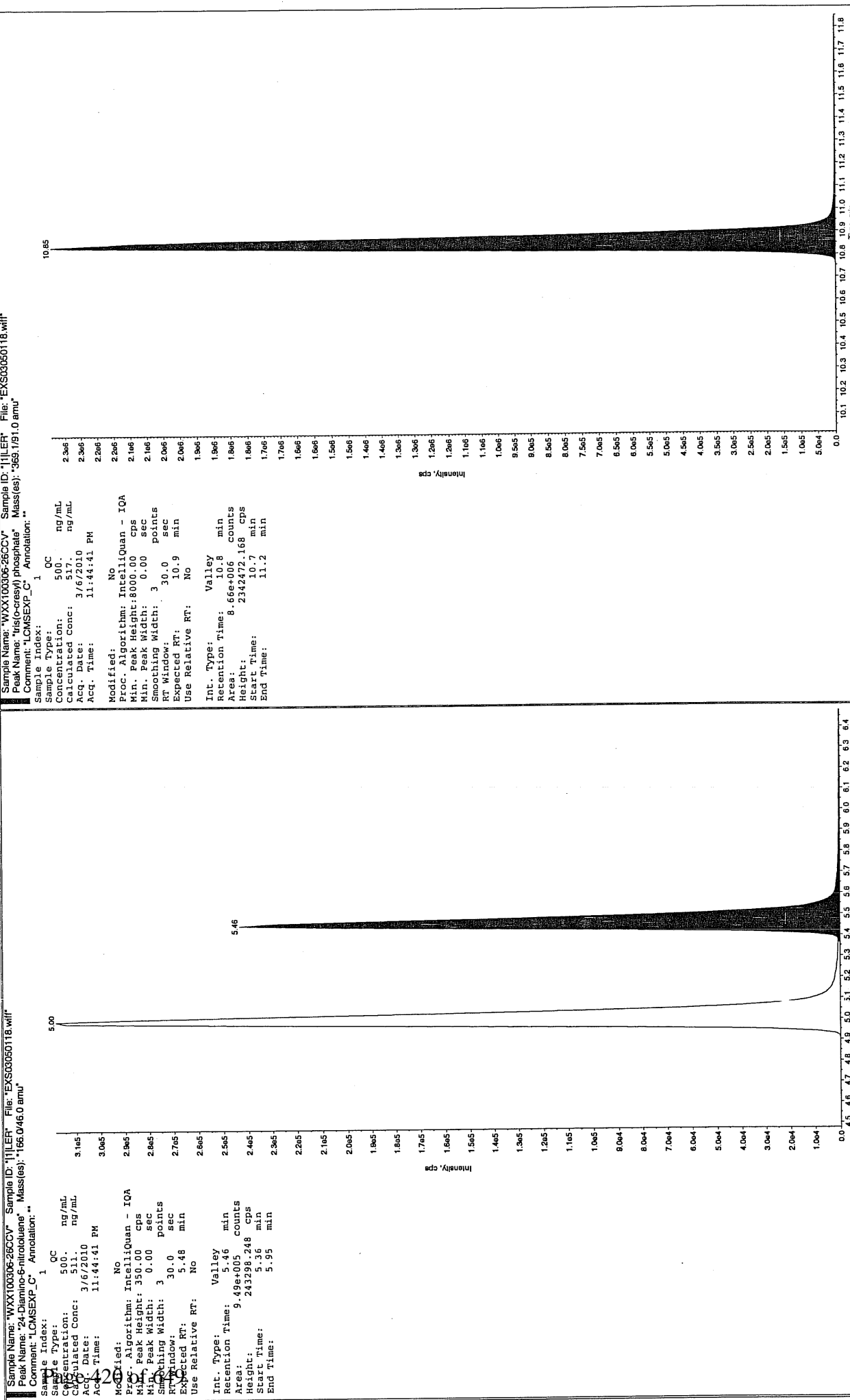
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 31/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1911

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050120.wiff

Analysis Date: 07-MAR-10 00:16

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	99.5	100	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	50.6	101	
3,5-Dinitroaniline	100	109	109	
TATB	100	115	115	
tris(o-cresyl) phosphate	100	104	104	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

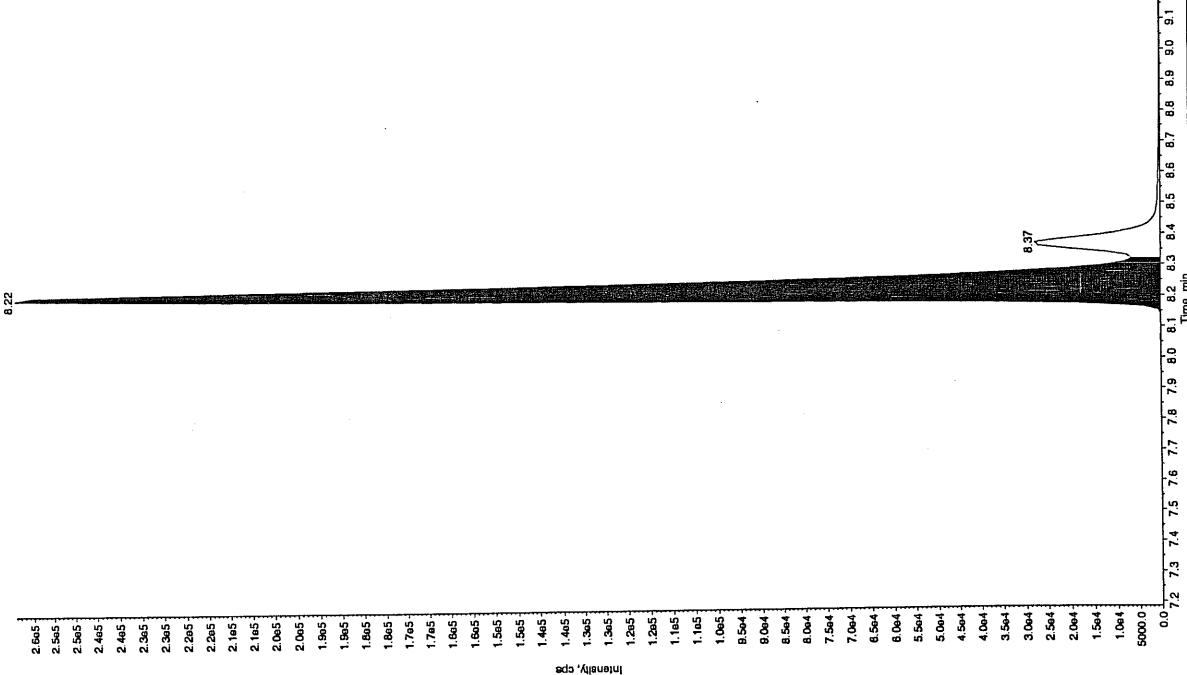
dan 3/19/10

Sample Name: "WXX100306-27ORI" Sample ID: "111LER" File: "EXS0050120.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 109. ng/mL
 Acq. Date: 3/7/2010
 Acq. Time: 12:16:00 AM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.19 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.22 min
 Area: 9.34e+005 counts
 Height: 259240.326 cps
 Start Time: 8.12 min
 End Time: 8.32 min

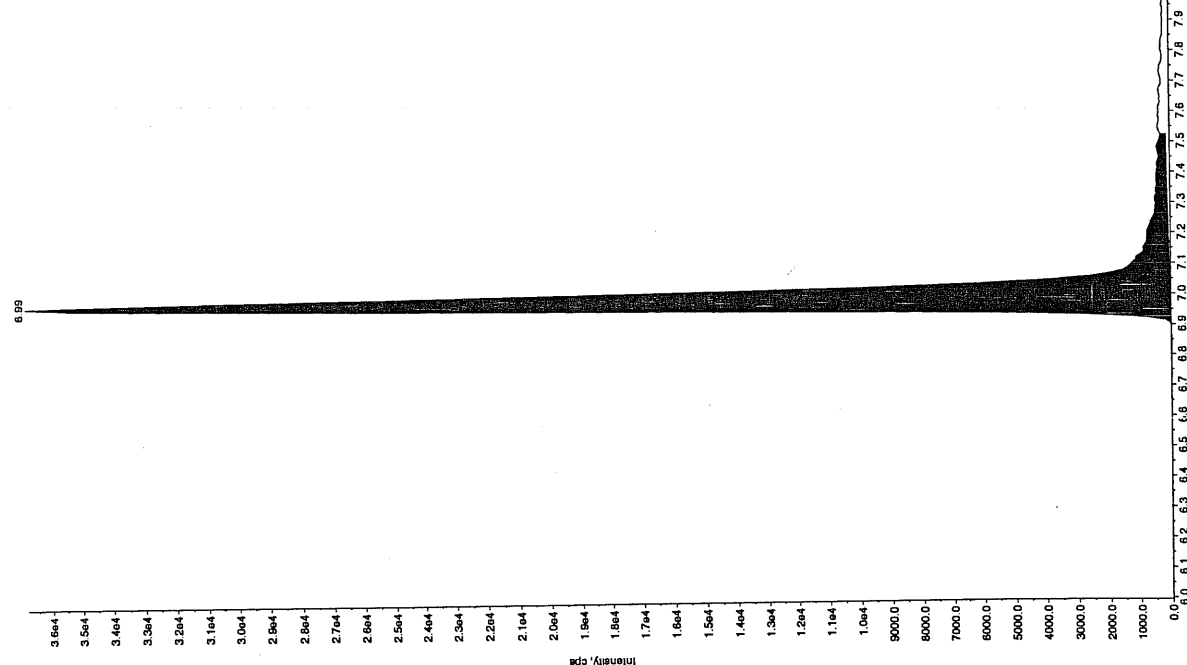


Sample Name: "WXX100306-27ORI" Sample ID: "111LER" File: "EXS0050120.wif"

Peak Name: "1ATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 115. ng/mL
 Acq. Date: 3/7/2010
 Acq. Time: 12:16:00 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.99 min
 Area: 1.52e+005 counts
 Height: 36870.178 cps
 Start Time: 6.89 min
 End Time: 7.52 min



dan 3/19/10

Sample Name: "WXX100006-270RI" Sample ID: "11LER" File: "EXS030050120.wif"

Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 103. ng/mL

Acq. Date: 3/7/2010

Acq. Time: 12:16:06 AM

Modified: No

Proc. Algorithm: IntelliQuan - IOA

Min. Peak Height: 450.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 5.02 min

Use Relative RT: No

Int. Type: Valley

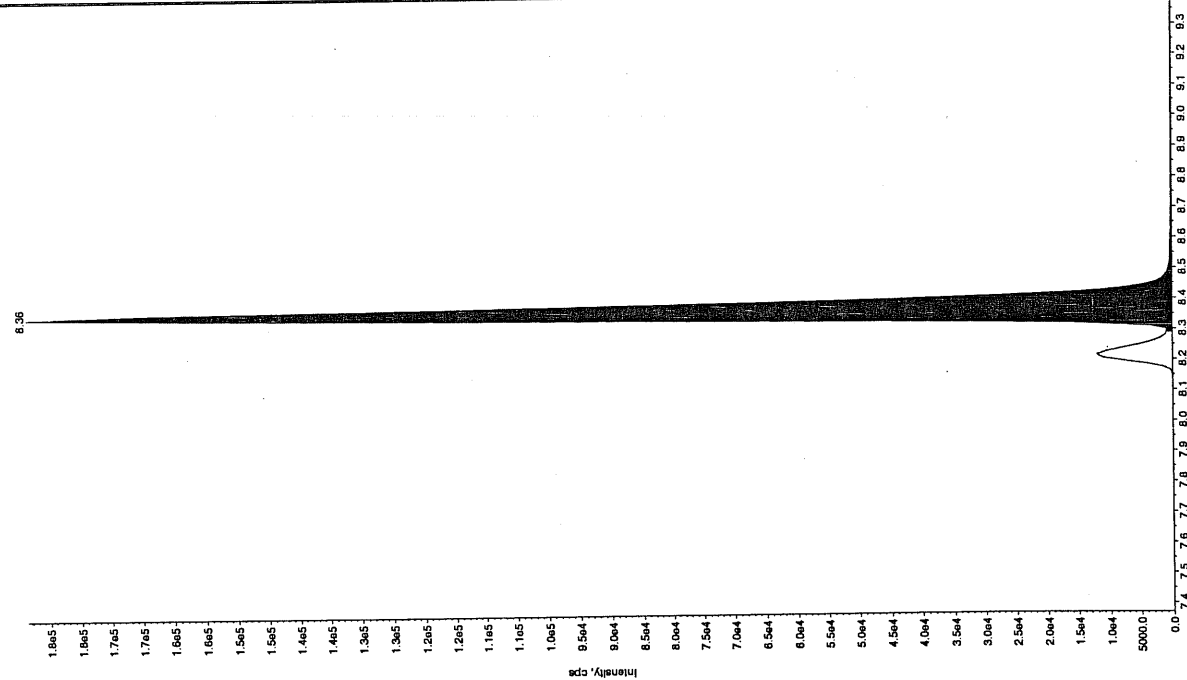
Retention Time: 5.00 min

Area: 2.63e+005 counts

Height: 63377.232 cps

Start Time: 4.88 min

End Time: 5.29 min



Sample Name: "WXX100006-270RI" Sample ID: "11LER" File: "EXS030050120.wif"

Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 50.0 ng/mL

Calculated Conc: 50.6 ng/mL

Acq. Date: 3/7/2010

Acq. Time: 12:16:06 AM

Modified: No

Proc. Algorithm: IntelliQuan - IOA

Min. Peak Height: 1450.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 8.37 min

Use Relative RT: No

Int. Type: Valley

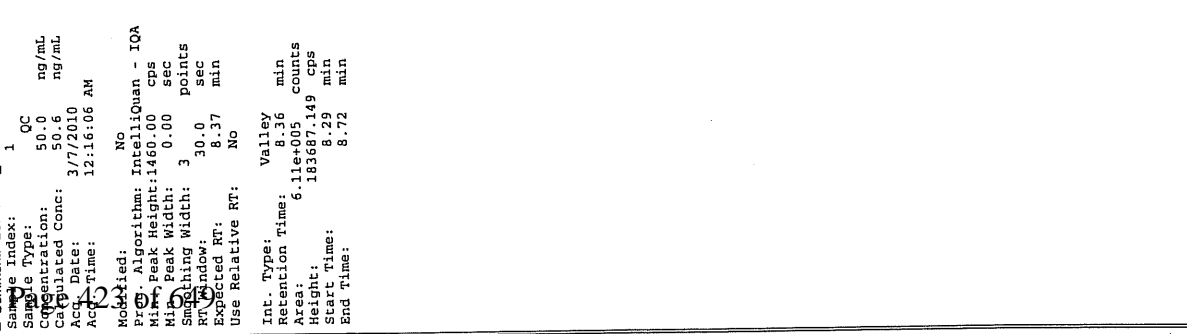
Retention Time: 8.36 min

Area: 6.11e+005 counts

Height: 183687.149 cps

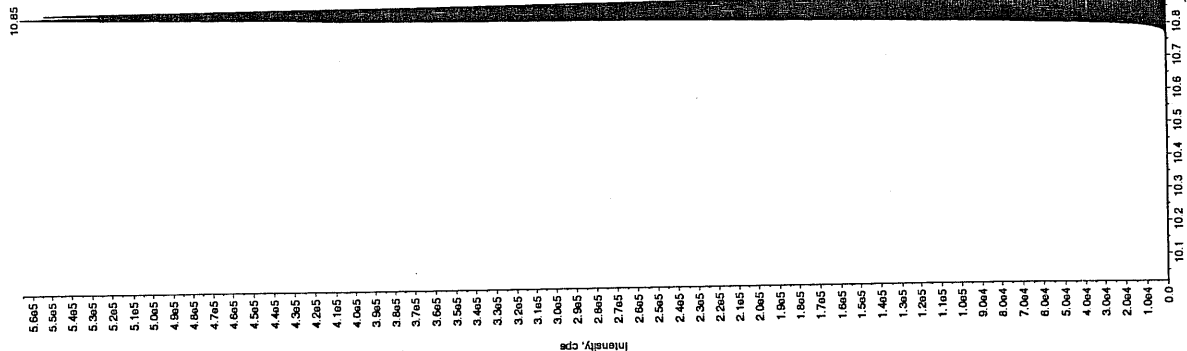
Start Time: 8.29 min

End Time: 8.72 min



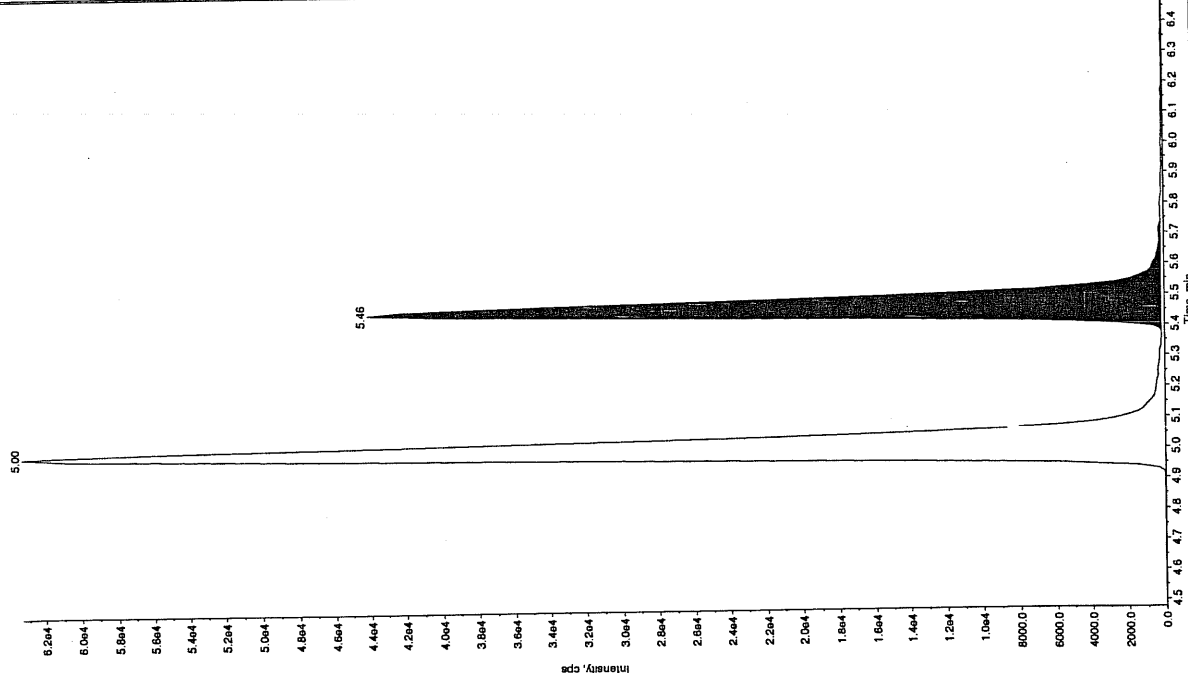
Sample Name: "WXX100306-27CRI" Sample ID: "111LER" File: "EXS03050120.wif"
 Peak Name: "Iris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 100. ng/mL
 Concentration: 104. ng/mL
 Calculated Conc: 3/7/2010
 Acq. Date: 12:16:06 AM
 Acq. Time: 12:16:06 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.95e+006 counts
 Height: 564792.664 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "WXX100306-27CRI" Sample ID: "111LER" File: "EXS03050120.wif"
 Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 100. ng/mL
 Concentration: 99.5 ng/mL
 Calculated Conc: 3/7/2010
 Acq. Date: 12:16:06 AM
 Acq. Time: 12:16:06 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.48 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.46 min
 Area: 1.80e+005 counts
 Height: 43919.445 cps
 Start Time: 5.37 min
 End Time: 5.75 min



QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 955064

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 1202047529

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314078a

Date Analyzed: 16-MAR-10 04:50

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 17 12:37:22 2010, Page 1 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

Method: C:\MASSLYNX\NEW_EXP.PRO\MethDB\031410expa.mdb, Time: Mon Mar 15 09:25:32 2010

Calibration: C:\MASSLYNX\NEW_EXP.PRO\CurveDB\031410expa.cdb, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314078a

Date: 16-Mar-2010

Time: 04:50:12

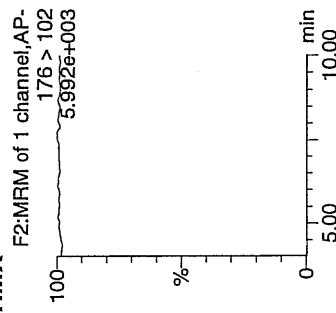
ID: 1202047529

Vial: 3:1,A

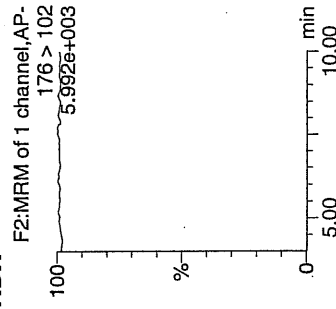
MAF
3/17/10

LANC 955065 / 8022 / NIB / 21

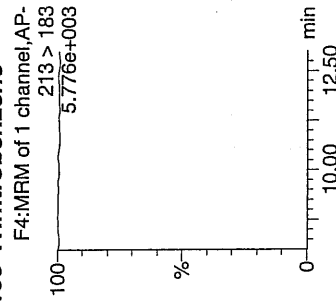
HMX



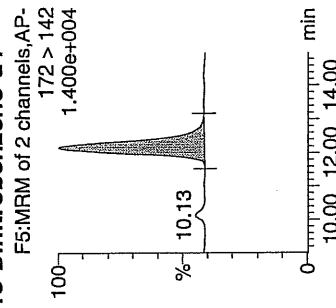
RDX



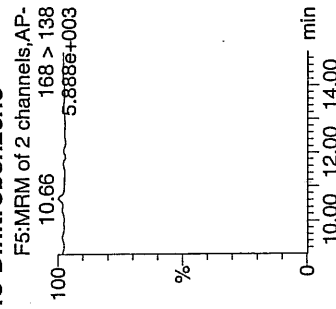
135-Trinitrobenzene



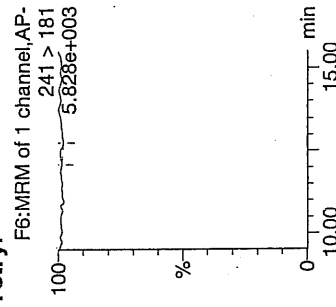
13-Dinitrobenzene-d4



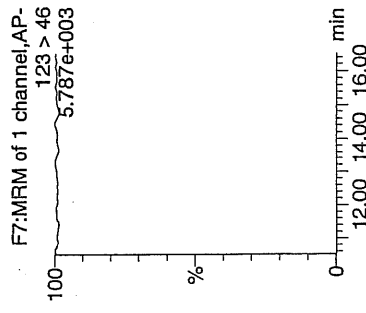
13-Dinitrobenzene



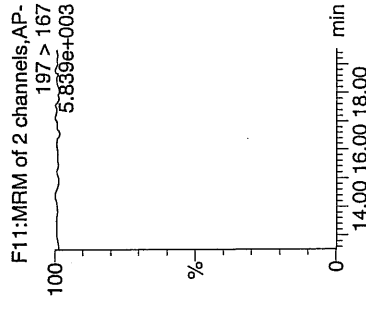
Tetryl



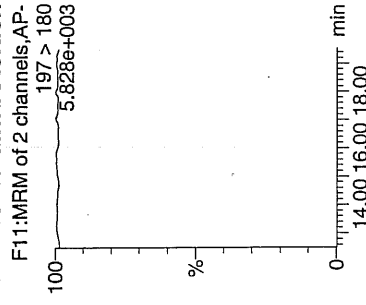
Nitrobenzene



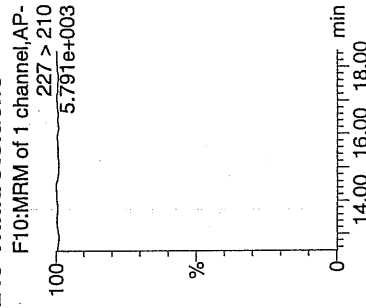
4-Amino-26-dinitrotoluene



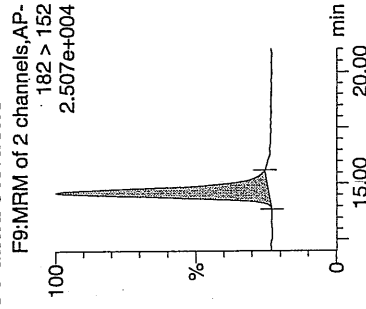
2-Amino-46-dinitrotoluene



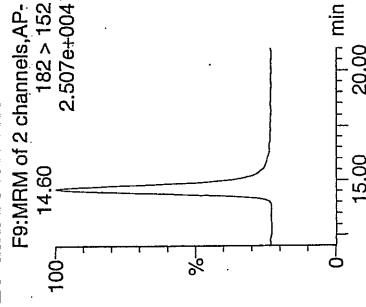
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



Amu 031710

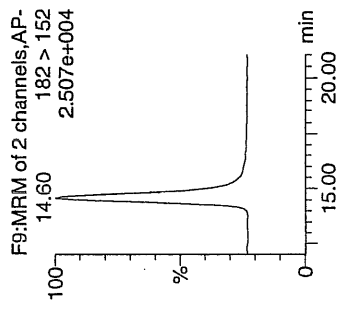
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

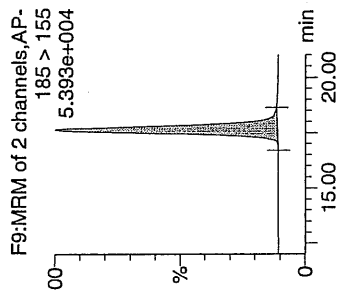
Printed: Wed Mar 17 12:37:22 2010, Page 2 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

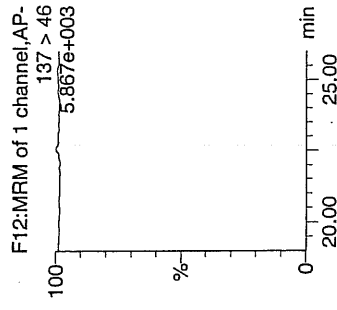
24-dinitrotoluene



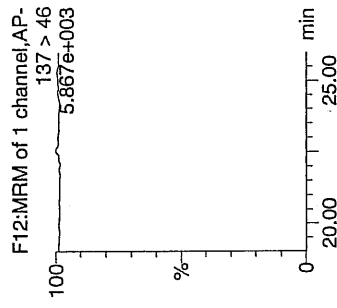
26-dinitrotoluene-d3



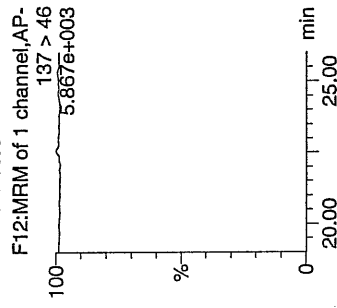
2-Nitrotoluene



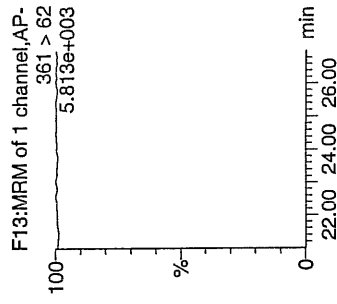
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod. Date	Mod. Time	ng/mL	%Rec	%Dev	S/N
1202047529	HMX	176 > 102				3528.745								
1202047529	RDX	176 > 102				3528.745								
1202047529	135-Trinitrobenzene	213 > 183				3528.745								
1202047529	13-Dinitrobenzene-d4	172 > 142	12.17	3528.745			3528.745	bb	MM- 17-Mar-10	12:30:40	524.4176	104.9	4.9	764.7
1202047529	13-Dinitrobenzene	168 > 138				3528.745								
1202047529	Tetryl	241 > 181				3528.745								
1202047529	Nitrobenzene	123 > 46				3528.745								
1202047529	4-Amino-26-dinitrotoluene	197 > 167				3528.745								
1202047529	2-Amino-46-dinitrotoluene	197 > 180				20031.279								
1202047529	246-Trinitrotoluene	227 > 210				20031.279								
1202047529	34-dinitrotoluene	182 > 152	14.60	9521.422			9521.422	bb			246.4744	98.6	-1.4	625.2
1202047529	26-dinitrotoluene	182 > 152				20031.279								
1202047529	24-dinitrotoluene	182 > 152				20031.279								
1202047529	26-dinitrotoluene-d3	185 > 155	17.64	20031.279			20031.279	bb			525.5997	105.1	5.1	2288.3
1202047529	2-Nitrotoluene	137 > 46				20031.279								
1202047529	4-Nitrotoluene	137 > 46				20031.279								
1202047529	3-Nitrotoluene	137 > 46				20031.279								
1202047529	PETN	361 > 62				20031.279								

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 955064

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 1202047529

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050098.wiff

Date Analyzed: 06-MAR-10 18:30

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

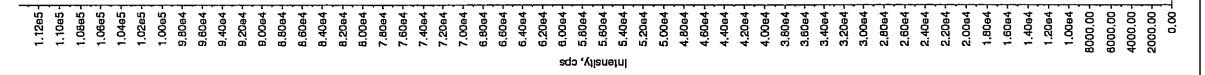
*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amoun Factor

Jan 3/10

Sample Name: "1202047529" Sample ID: "955065121ER" File: "EXS03050098.wiff"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: "

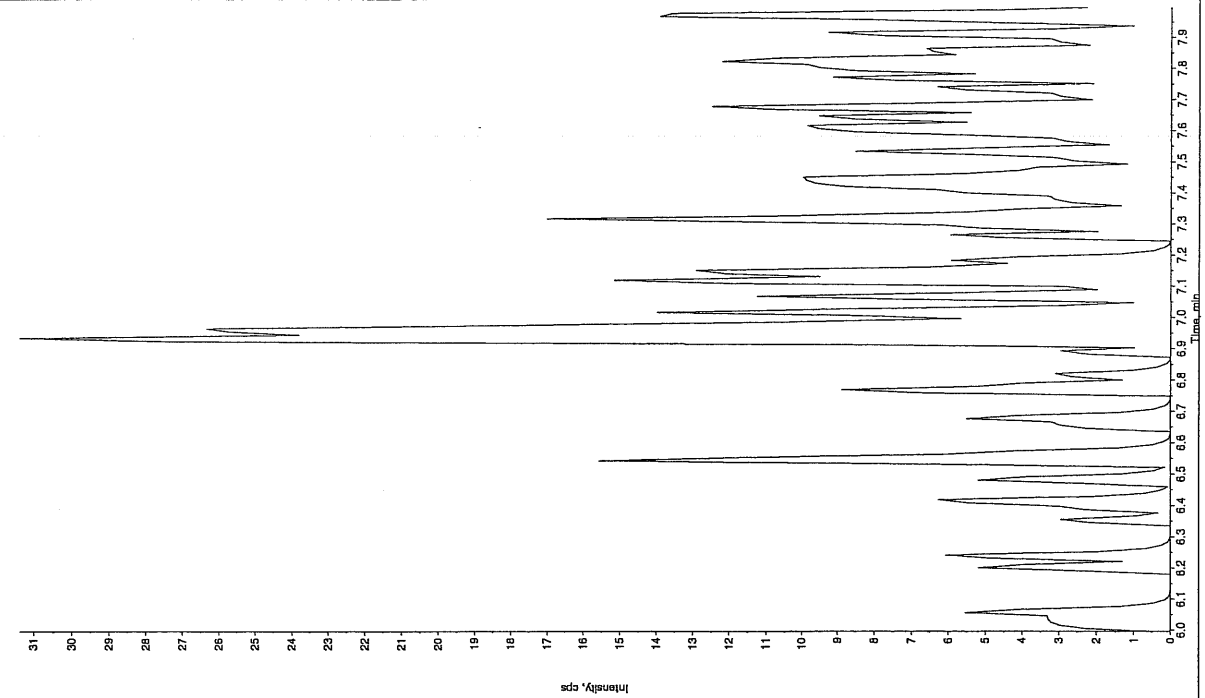
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/6/2010
 Acq. Time: 6:30:48 PM
 Modified: No



Amc 03/10/10

Sample Name: "1202047529" Sample ID: "955065121ER" File: "EXS03050098.wiff"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: "

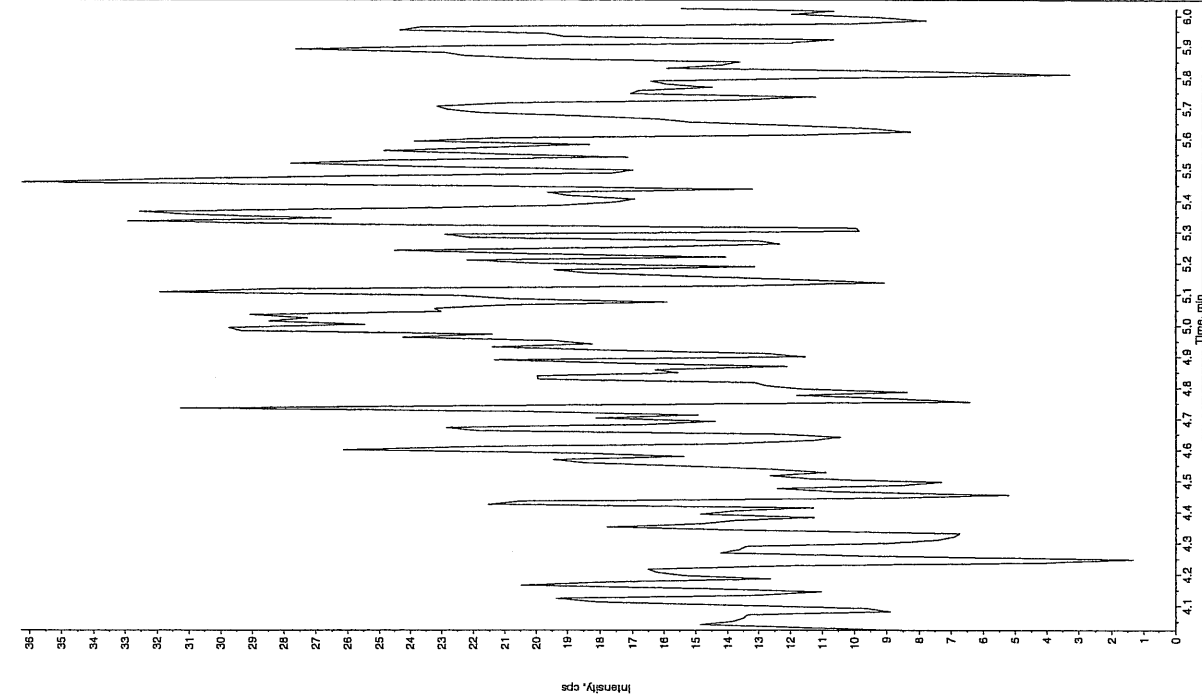
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/6/2010
 Acq. Time: 6:30:48 PM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202047529" Sample ID: "955065121ER" File: "EXS03050098.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "165.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

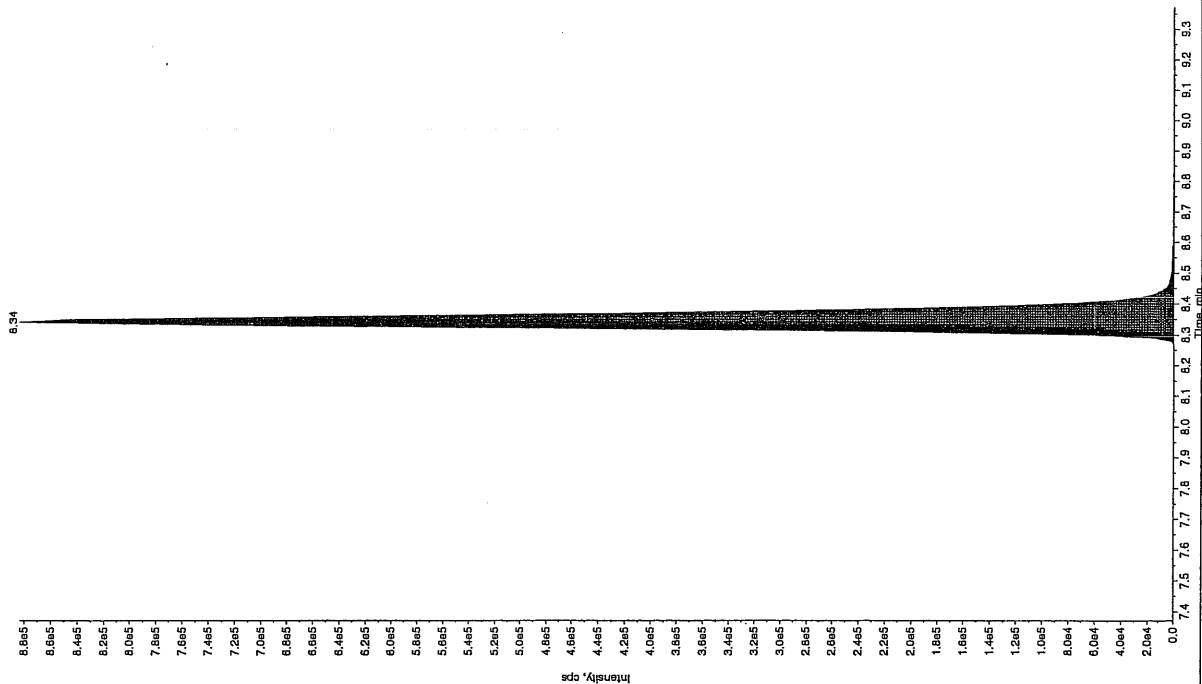
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:30:48 PM
 Modified: No



Sample Name: "1202047529" Sample ID: "955065121ER" File: "EXS03050098.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCX83212S" Annotation: ""

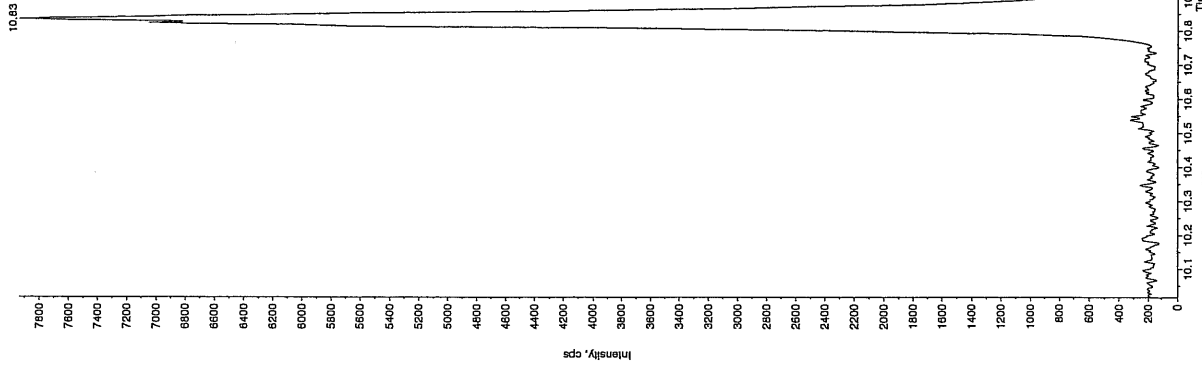
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 242. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:30:48 PM
 Modified: No
 Peak: Algorithm: IntelliQuan - IQA
 Peak Height: 1460.00 cps
 Peak Width: 3.00 sec
 Peak Area: 30.0 points
 Peak Window: 30.0 sec
 Peak Retention: 8.37 min
 Peak Relative RT: No

Int. Type: Valley
 Retention Time: 8.34 min
 Area: 3.03e+006 counts
 Height: 883155.090 cps
 Start Time: 8.23 min
 End Time: 8.70 min



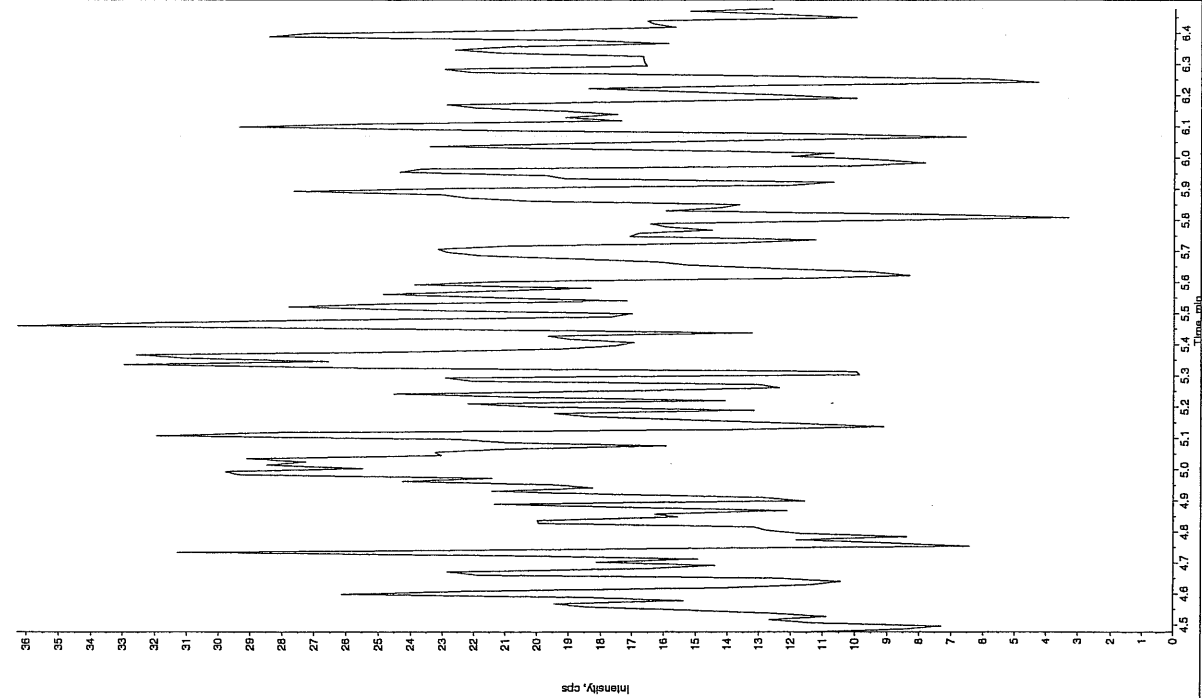
Sample Name: "1202047529" Sample ID: "955065121" File: "EX503050098.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "359.1/91.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:30:48 PM
 Modified: No



Sample Name: "1202047529" Sample ID: "955065121" File: "EX503050098.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:30:48 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 955064

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 1202047530

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314079a

Date Analyzed: 16-MAR-10 05:19

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4760	
121-14-2	2,4-Dinitrotoluene	5540	
121-82-4	RDX	4870	
19406-51-0	4-Amino-2,6-dinitrotoluene	4850	
2691-41-0	HMX	4520	
35572-78-2	2-Amino-4,6-dinitrotoluene	5160	
479-45-8	Tetryl	2450	
606-20-2	2,6-Dinitrotoluene	4980	
78-11-5	PETN	5360	
88-72-2	o-Nitrotoluene	4860	
98-95-3	Nitrobenzene	4500	
99-08-1	m-Nitrotoluene	5040	
99-35-4	1,3,5-Trinitrobenzene	3920	
99-65-0	m-Dinitrobenzene	4500	
99-99-0	p-Nitrotoluene	4970	

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\DATA\EXP0314079a

Date: 16-Mar-2010

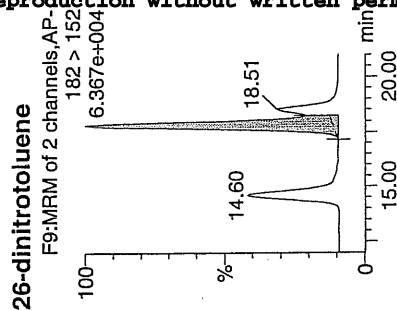
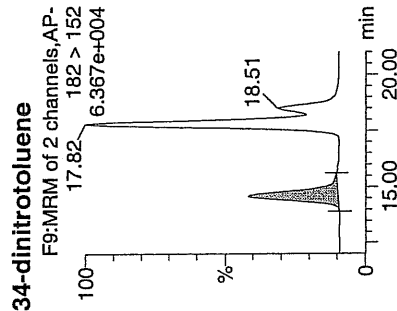
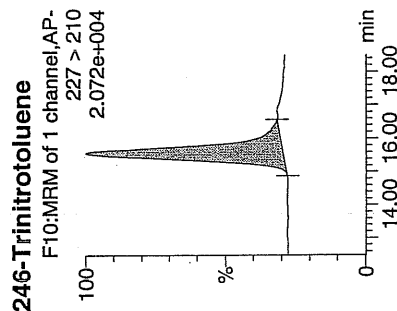
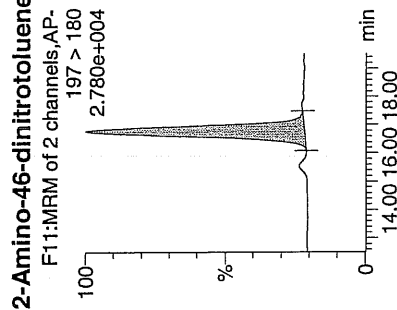
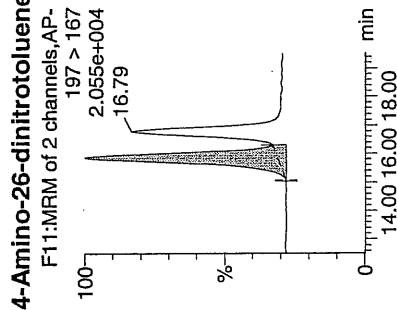
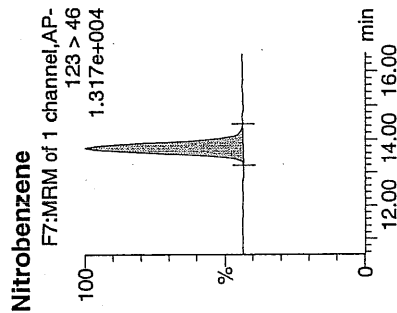
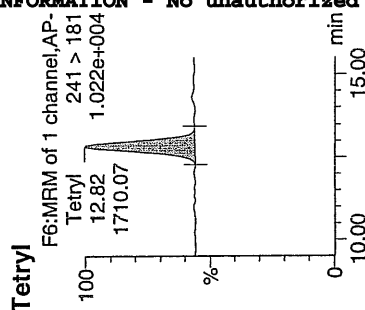
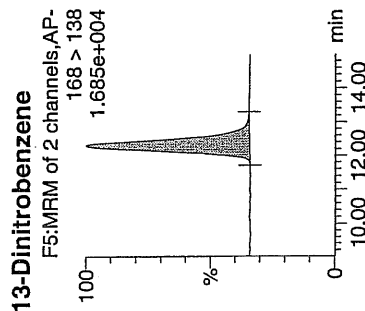
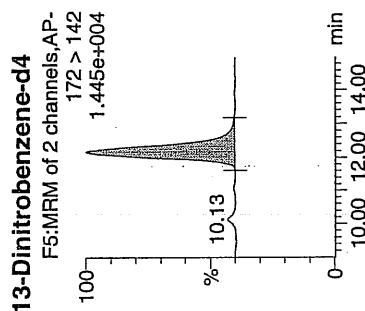
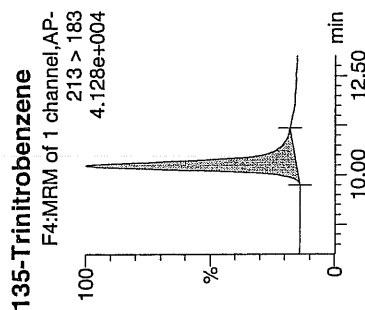
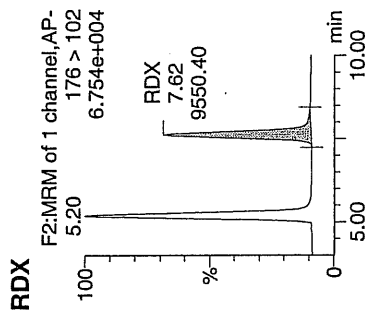
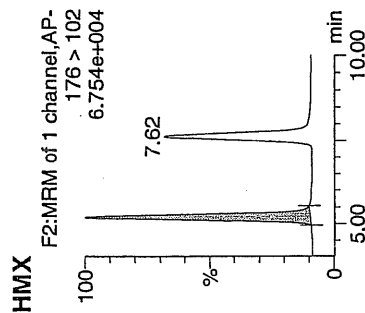
Time: 05:19:45

ID: 1202047530

Vial: 3:1,B

3/17/20
LH

ANN 955065 / 6074 / 27



01/17/10
mwh

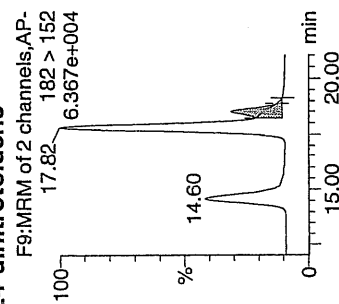
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

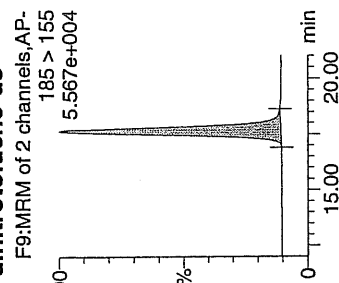
Printed: Wed Mar 17 12:37:22 2010, Page 4 of 99

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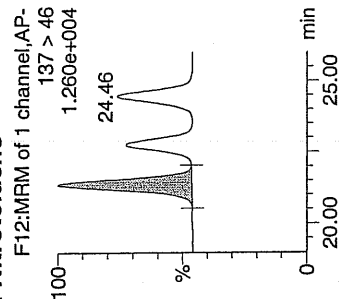
24-dinitrotoluene



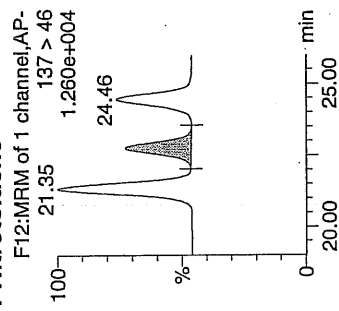
26-dinitrotoluene-d3



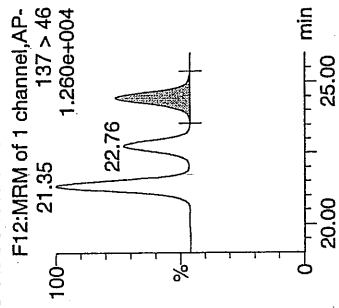
2-Nitrotoluene



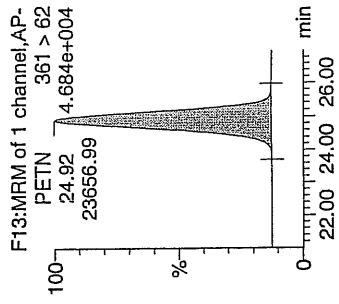
4-Nitrotoluene



3-Nitrotoluene



PETN



D	Name	Trace	RI	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
1202047530	HMX	176 > 102	5.20	12187.499	3687.472	12187.499	1652.555	bb			452.0476	90.4	-9.6	1566.7
1202047530	RDX	176 > 102	7.62	9550.399	3687.472	9550.399	1294.979	bb			486.9826	97.4	-2.6	1026.6
1202047530	135-Trinitrobenzene	213 > 183	10.25	10641.755	3687.472	10641.755	1442.961	bb			392.1168	78.4	-21.6	1193.4
1202047530	13-Dinitrobenzene-d4	172 > 142	12.17	3687.472		3687.472	3687.472	bb			548.0065	109.6	9.6	347.1
1202047530	13-Dinitrobenzene	168 > 138	12.31	4411.222	3687.472	4411.222	598.136	bb			450.2216	90.0	-10.0	512.4
1202047530	Tetryl	241 > 181	12.82	1710.074	3687.472	1710.074	231.876	bb			244.7934	49.0	-51.0	87.9
1202047530	Nitrobenzene	123 > 46	13.76	2722.260	3687.472	2722.260	369.123	bb			449.9649	90.0	-10.0	210.9
1202047530	4-Amino-26-dinitrotoluene	197 > 167	15.86	6291.666	20843.297	6291.666	150.928	MM	17-Mar-10	12:31:22	484.9054	97.0	-3.0	303.6
1202047530	2-Amino-46-dinitrotoluene	197 > 180	16.79	8838.615	20843.297	8838.615	212.025	bb			515.9831	103.2	3.2	431.2
1202047530	246-Trinitrotoluene	227 > 210	15.58	6765.909	20843.297	6765.909	162.304	bb			475.8576	95.2	-4.8	474.4
1202047530	34-dinitrotoluene	182 > 152	14.60	10104.914	20843.297	10104.914	242.402	bb			251.3882	100.6	0.6	182.7
1202047530	26-dinitrotoluene	182 > 152	17.82	23350.789	20843.297	23350.789	560.151	MM	17-Mar-10	12:33:02	497.8774	99.6	-0.4	513.7
1202047530	24-dinitrotoluene	182 > 152	18.51	5534.894	20843.297	5534.894	132.774	MM	17-Mar-10	12:35:15	554.3437	110.9	10.9	117.8
1202047530	26-dinitrotoluene-d3	185 > 155	17.64	20843.297		20843.297	20843.297	bb			546.9061	109.4	9.4	1688.8
1202047530	2-Nitrotoluene	137 > 46	21.35	3074.156	20843.297	3074.156	73.744	bb			485.9679	97.2	-2.8	321.5
1202047530	4-Nitrotoluene	137 > 46	22.76	1583.318	20843.297	1583.318	37.981	bb			496.7741	99.4	-0.6	158.6
1202047530	3-Nitrotoluene	137 > 46	24.46	1920.018	20843.297	1920.018	46.058	bb			503.6349	100.7	0.7	179.9
1202047530	PETN	361 > 62	24.92	23656.992	20843.297	23656.992	567.496	bb			536.4745	107.3	7.3	5187.1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 955064

Lab Code: GEL

GEL Job No (SDG) 10-1911

Matrix: SOIL

GEL Sample ID: 1202047530

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955064

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050099.wiff

Date Analyzed: 06-MAR-10 18:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5220	
59229-75-3	2,6-Diamino-4-nitrotoluene	4810	
618-87-1	3,5-Dinitroaniline	5060	
6629-29-4	2,4-Diamino-6-nitrotoluene	4450	
78-30-8	tris(o-cresyl) phosphate	5210	

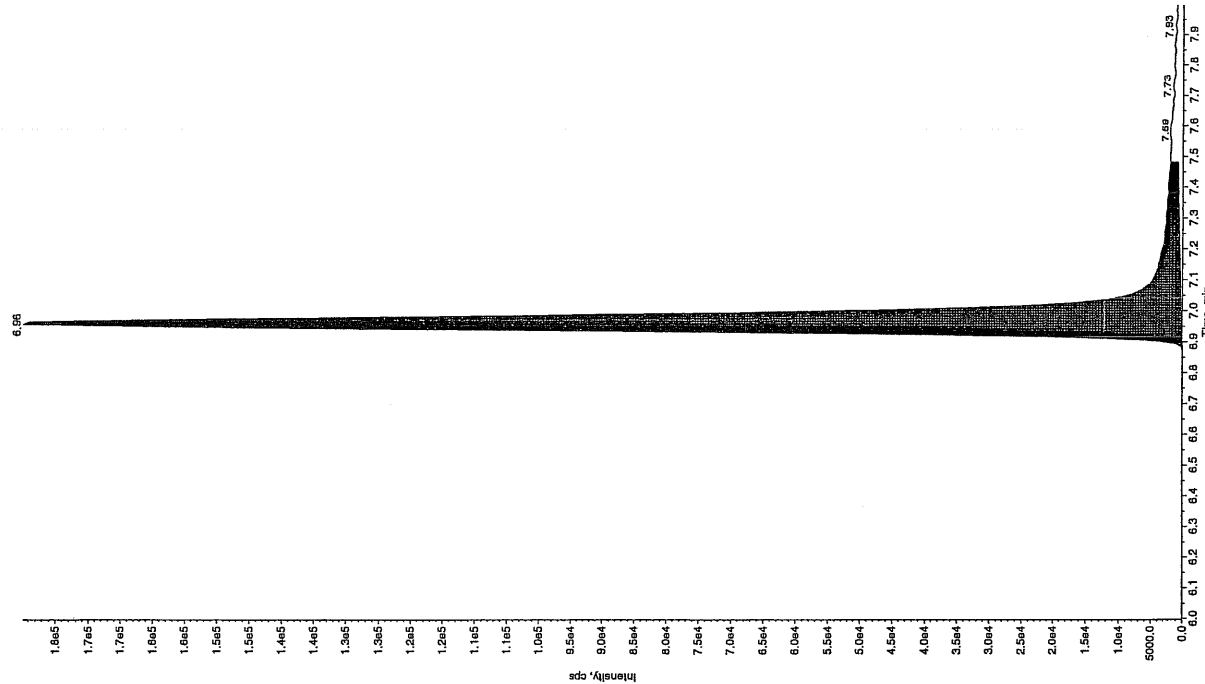
*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

See 3/9/10

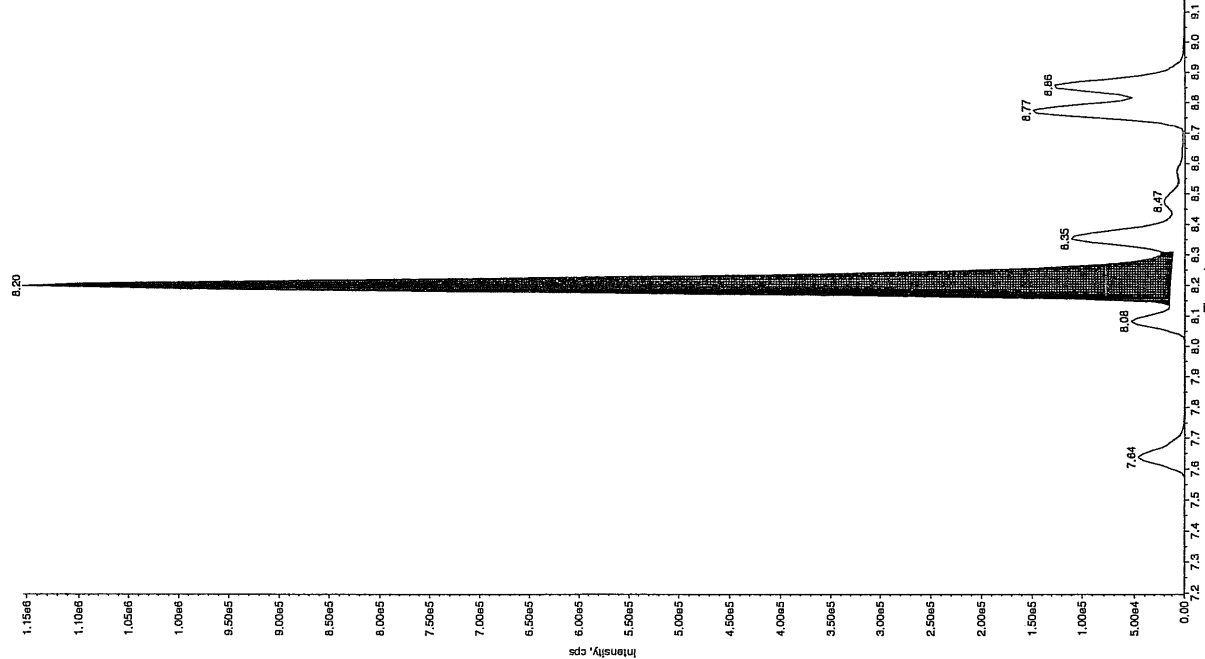
Sample Name: "1202047530" Sample ID: "955065121" File: "EXS03050099.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

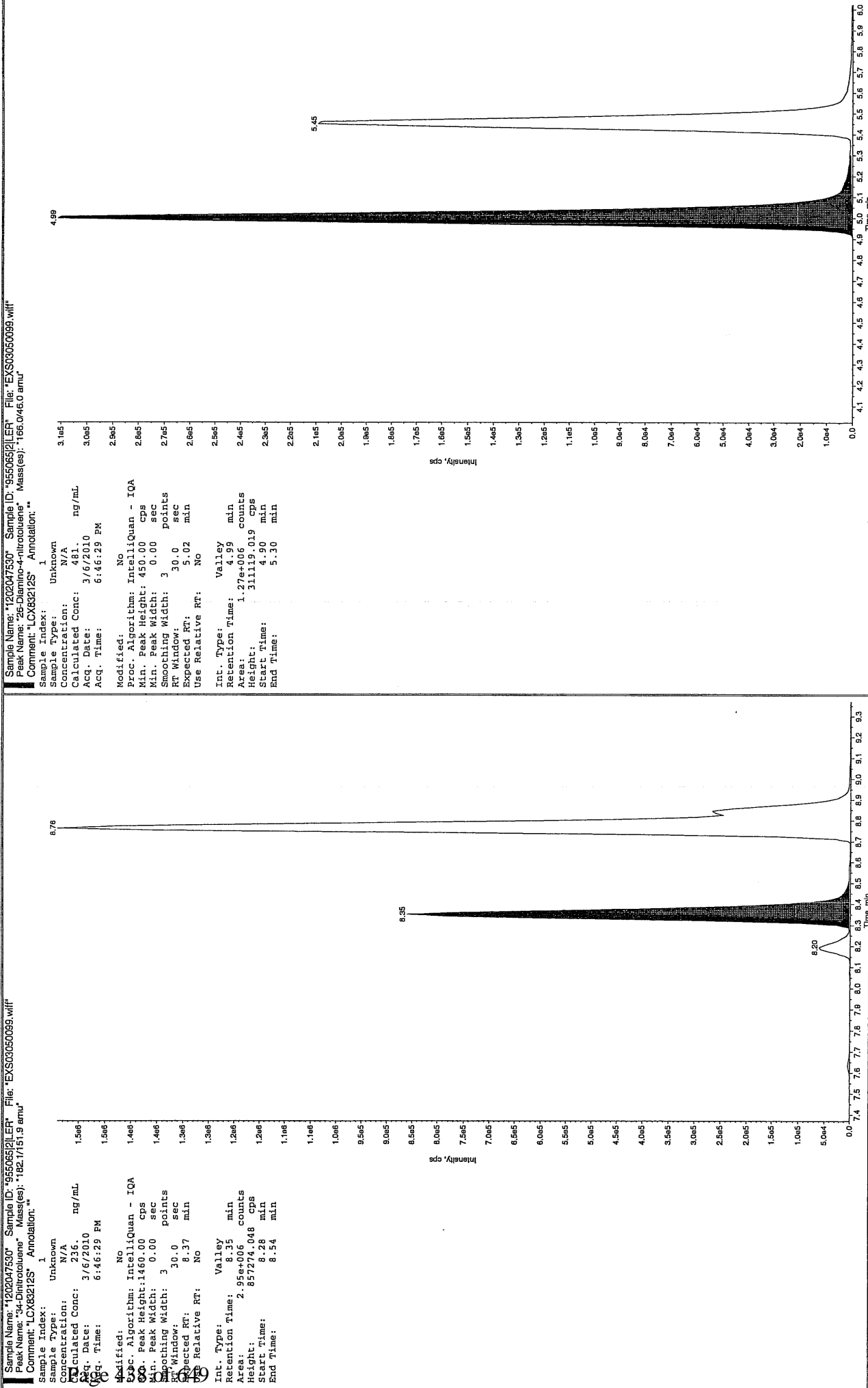
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 522. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:46:29 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 points
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.96 min
 Area: 7.51e+005 counts
 Height: 179734.161 cps
 Start Time: 6.87 min
 End Time: 7.48 min



Sample Name: "1202047530" Sample ID: "955065121" File: "EXS03050099.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

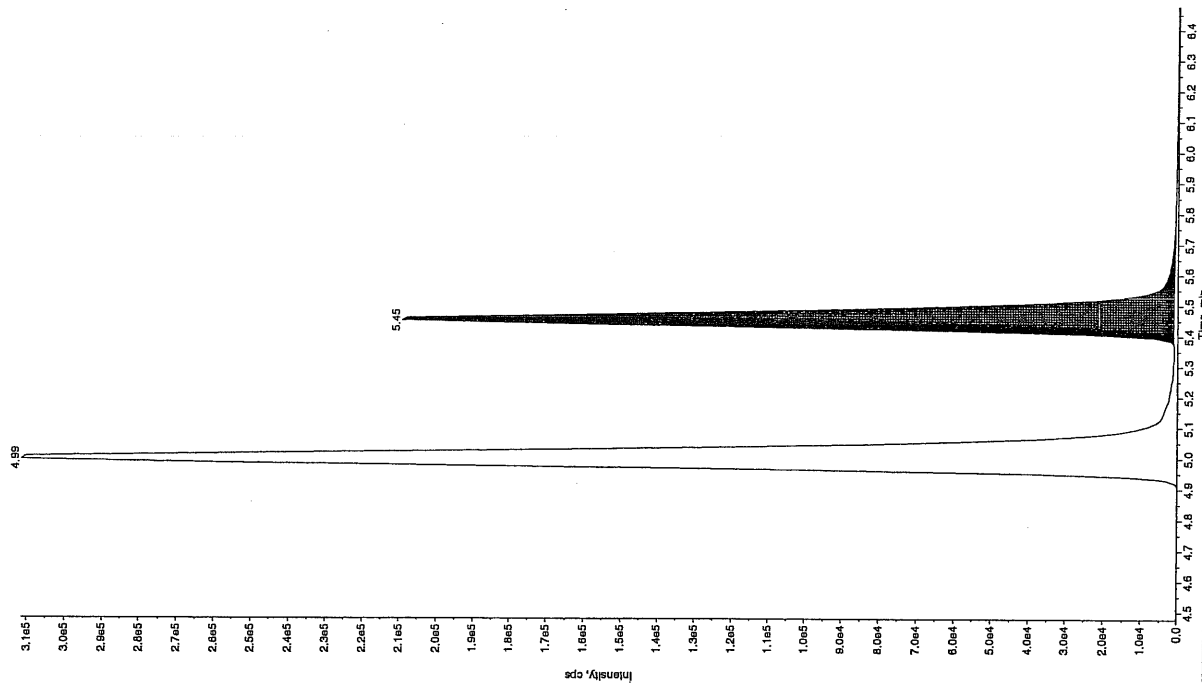
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 506. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:46:29 PM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.20 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.20 min
 Area: 4.13e+006 counts
 Height: 1142342.407 cps
 Start Time: 8.13 min
 End Time: 8.31 min





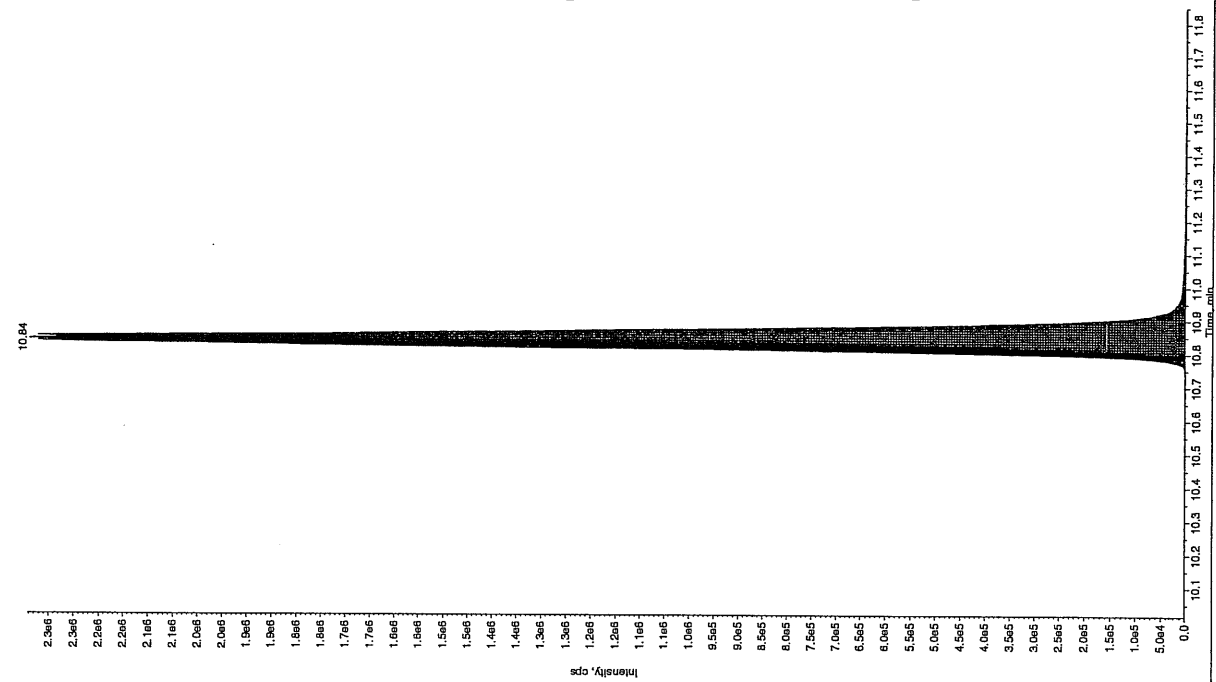
Sample Name: "1202047530" Sample ID: "95506521LER" File: "EXS03050099.wif"
 Peak Name: "24-Diamino-6-Nitrotoluene" Mass(es): "165.0/45.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 445 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:46:29 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 5.48 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.45 min
 Area: 8.256+005 counts
 Height: 208144.028 cps
 Start Time: 5.37 min
 End Time: 5.85 min



Sample Name: "1202047530" Sample ID: "95506521LER" File: "EXS03050099.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 521. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:46:29 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 8.72e+006 counts
 Height: 2342339.600 cps
 Start Time: 10.7 min
 End Time: 11.2 min



MISCELLANEOUS DATA

Prep Logbook

Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 955064 Verified by: _____ Lab SOP: GL-OA-E-033 REV# 17
 Analyst: Sirena White Instrument: Semi-Volatiles Manual
 Method: SW846 8330 PREP

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)		
1202047529 MB	24-FEB-2010 15:24:00	2	10	5		
1202047530 LCS	24-FEB-2010 15:24:00	2	10	5		
247327002	24-FEB-2010 15:24:00	2	10	5		
1202047531 MS (247327002)	24-FEB-2010 15:24:00	2	10	5		
1202047532 MSD (247327002)	24-FEB-2010 15:24:00	2	10	5		
247346001	24-FEB-2010 15:24:00	2	10	5		
247346002	24-FEB-2010 15:24:00	2	10	5		
247346003	24-FEB-2010 15:24:00	2	10	5		
247346004	24-FEB-2010 15:24:00	2	10	5		
247346005	24-FEB-2010 15:24:00	2	10	5		
247346006	24-FEB-2010 15:24:00	2	10	5		
247346007	24-FEB-2010 15:24:00	2	10	5		
247346008	24-FEB-2010 15:24:00	2	10	5		
247358001	24-FEB-2010 15:24:00	2	10	5		
247358002	24-FEB-2010 15:24:00	2	10	5		
247358003	24-FEB-2010 15:24:00	2	10	5		
247358004	24-FEB-2010 15:24:00	2	10	5		
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202047530	8321 Explosives LCS	IXX100208-03	.1	mL	Final Solvent: ACN
LCS	1202047530	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
MS	1202047531	8321 Explosives LCS	IXX100208-03	.1	mL	
MS	1202047531	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
MSD	1202047532	8321 Explosives LCS	IXX100208-03	.1	mL	
MSD	1202047532	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Surr.) 100ppm	IXP100223-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 03/14/10
 Extr. Injection Volume: 50ul
 Sequence Number: 031410expA
 Initial Calibration Date: 03/14/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100220-02.2
 Mobile Phase Lot#: 1283854, 1281642
 Standard-Samp Reagent Lot#: 1283379, 1271949
 Reviewed BY: *HW*
 Date: 03/17/10
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100314-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0314001a	XIBLK01	MAP	3/14/10 14:59			1		USE	B
EXP0314002a	XIBLK01	MAP	3/14/10 15:28			1		USE	B
EXP0314003a	WXXICAL-01	MAP	3/14/10 15:57			1		USE	I
EXP0314004a	WXXICAL-02	MAP	3/14/10 16:27			1		USE	I
EXP0314005a	WXXICAL-03	MAP	3/14/10 16:56			1		USE	I
EXP0314006a	WXXICAL-04	MAP	3/14/10 17:26			1		USE	I
EXP0314007a	WXXICAL-05	MAP	3/14/10 17:55			1		USE	I
EXP0314008a	WXXICAL-06	MAP	3/14/10 18:25			1		USE	I
EXP0314009a	XIBLK02	MAP	3/14/10 18:54			1		USE	B
EXP0314010a	WXXICV	MAP	3/14/10 19:24			1		USE	C
EXP0314011a	XIBLK03	MAP	3/14/10 19:53			1		USE	B
EXP0314012a	WXXCRI	MAP	3/14/10 20:23			1		USE	C
EXP0314013a	1202052406	MAP	3/14/10 20:52	957200	Various	2	LANL	USE	S
EXP0314014a	1202052407	MAP	3/14/10 21:22	957200	Various	2	LANL	USE	S
EXP0314015a	247784002	MAP	3/14/10 21:51	957200	10-1979	2	LANL	USE	S
EXP0314016a	247790002	MAP	3/14/10 22:21	957200	10-1981	2	LANL	USE	S
EXP0314017a	247790003	MAP	3/14/10 22:50	957200	10-1981	2	LANL	USE	S
EXP0314018a	247791002	MAP	3/14/10 23:20	957200	10-1982	2	LANL	USE	S
EXP0314019a	247791003	MAP	3/14/10 23:49	957200	10-1982	2	LANL	USE	S
EXP0314020a	247791004	MAP	3/15/10 0:19	957200	10-1982	2	LANL	USE	S
EXP0314021a	247791005	MAP	3/15/10 0:48	957200	10-1982	2	LANL	USE	S
EXP0314022a	247791006	MAP	3/15/10 1:17	957200	10-1982	2	LANL	USE	S
EXP0314023a	WXXCCV	MAP	3/15/10 1:47			1		USE	C
EXP0314024a	XIBLK04	MAP	3/15/10 2:17			1		USE	B
EXP0314025a	WXXCRI	MAP	3/15/10 2:46			1		USE	C
EXP0314026a	247799001	MAP	3/15/10 3:15	957200	10-1990	2	LANL	USE	S
EXP0314027a	1202052408	MAP	3/15/10 3:45	957200	10-1990	2	LANL	USE	S
EXP0314028a	1202052409	MAP	3/15/10 4:14	957200	10-1990	2	LANL	USE	S
EXP0314029a	247799002	MAP	3/15/10 4:44	957200	10-1990	2	LANL	USE	S

EXP0314030a	247799003	MAP	3/15/10 5:13	957200	10-1990	2	LANL	USE	S
EXP0314031a	247799004	MAP	3/15/10 5:43	957200	10-1990	2	LANL	USE	S
EXP0314032a	247799005	MAP	3/15/10 6:12	957200	10-1990	2	LANL	USE	S
EXP0314033a	247799006	MAP	3/15/10 6:42	957200	10-1990	2	LANL	USE	S
EXP0314034a	247799007	MAP	3/15/10 7:11	957200	10-1990	2	LANL	USE	S
EXP0314035a	247799008	MAP	3/15/10 7:41	957200	10-1990	2	LANL	USE	S
EXP0314036a	WXXCCV	MAP	3/15/10 8:10			1		USE	C
EXP0314037a	XIBLK05	MAP	3/15/10 8:40			1		USE	B
EXP0314038a	WXXCRI	MAP	3/15/10 9:09			1		USE	C
EXP0314039a	247799009	MAP	3/15/10 9:39	957200	10-1990	2	LANL	USE	S
EXP0314040a	247799010	MAP	3/15/10 10:08	957200	10-1990	2	LANL	USE	S
EXP0314041a	XIBLK06	MAP	3/15/10 10:38			1	LANL	USE	B
EXP0314042a	1202045802	MAP	3/15/10 11:07	954361	10-1839	2	LANL	USE	S
EXP0314043a	1202045803	MAP	3/15/10 11:37	954361	10-1839	2	LANL	USE	S
EXP0314044a	247116002	MAP	3/15/10 12:07	954361	10-1839	2	LANL	USE	S
EXP0314045a	1202045804	MAP	3/15/10 12:36	954361	10-1839	2	LANL	USE	S
EXP0314046a	1202045805	MAP	3/15/10 13:06	954361	10-1839	2	LANL	USE	S
EXP0314047a	247116003	MAP	3/15/10 13:35	954361	10-1839	2	LANL	USE	S
EXP0314048a	247116004	MAP	3/15/10 14:04	954361	10-1839	2	LANL	USE	S
EXP0314049a	WXXCCV	MAP	3/15/10 14:34			1		USE	C
EXP0314050a	XIBLK07	MAP	3/15/10 15:04			1		USE	B
EXP0314051a	WXXCRI	MAP	3/15/10 15:33			1		USE	C
EXP0314052a	247116006	MAP	3/15/10 16:03	954361	10-1839	2	LANL	USE	S
EXP0314053a	247116007	MAP	3/15/10 16:32	954361	10-1839	2	LANL	USE	S
EXP0314054a	247116008	MAP	3/15/10 17:02	954361	10-1839	2	LANL	USE	S
EXP0314055a	247116009	MAP	3/15/10 17:31	954361	10-1839	2	LANL	USE	S
EXP0314056a	247116010	MAP	3/15/10 18:01	954361	10-1839	2	LANL	USE	S
EXP0314057a	247116011	MAP	3/15/10 18:30	954361	10-1839	2	LANL	USE	S
EXP0314058a	247116012	MAP	3/15/10 19:00	954361	10-1839	2	LANL	USE	S
EXP0314059a	247116013	MAP	3/15/10 19:29	954361	10-1839	2	LANL	USE	S
EXP0314060a	247116014	MAP	3/15/10 19:59	954361	10-1839	2	LANL	USE	S
EXP0314061a	247116015	MAP	3/15/10 20:28	954361	10-1839	2	LANL	USE	S
EXP0314062a	WXXCCV	MAP	3/15/10 20:58			1		USE	C
EXP0314063a	XIBLK08	MAP	3/15/10 21:27			1		USE	B
EXP0314064a	WXXCRI	MAP	3/15/10 21:57			1		USE	C
EXP0314065a	247116016	MAP	3/15/10 22:26	954361	10-1839	2	LANL	USE	S
EXP0314066a	247116017	MAP	3/15/10 22:56	954361	10-1839	2	LANL	USE	S

EXP0314067a	1202041915	MAP	3/15/10 23:25	952684	Various	2	LANL	DUSE	S
EXP0314068a	XIBLK09	MAP	3/15/10 23:55			1		USE	B
EXP0314069a	1202055082	MAP	3/16/10 0:24	958286	Various	2	LANL	USE	S
EXP0314070a	1202055083	MAP	3/16/10 0:54	958286	Various	2	LANL	USE	S
EXP0314071a	248040007	MAP	3/16/10 1:23	958286	10-2051	2	LANL	USE	S
EXP0314072a	1202055084	MAP	3/16/10 1:53	958286	10-2051	2	LANL	USE	S
EXP0314073a	1202055085	MAP	3/16/10 2:22	958286	10-2051	2	LANL	DUSE-RA	S
EXP0314074a	248259006	MAP	3/16/10 2:52	958286	10-2148	2	LANL	USE-DL	S
EXP0314075a	WXXCCV	MAP	3/16/10 3:21			1		USE	C
EXP0314076a	XIBLK10	MAP	3/16/10 3:51			1		USE	B
EXP0314077a	WXXCRI	MAP	3/16/10 4:20			1		USE	C
EXP0314078a	1202047529	MAP	3/16/10 4:50	955065	Various	2	LANL	USE	S
EXP0314079a	1202047530	MAP	3/16/10 5:19	955065	Various	2	LANL	USE	S
EXP0314080a	247327002	MAP	3/16/10 5:49	955065	10-1898	100	LANL	DUSE	S
EXP0314081a	247327002	MAP	3/16/10 6:18	955065	10-1898	2	LANL	USE	S
EXP0314082a	1202047531	MAP	3/16/10 6:48	955065	10-1898	2	LANL	USE	S
EXP0314083a	1202047532	MAP	3/16/10 7:17	955065	10-1898	2	LANL	USE	S
EXP0314084a	XIBLK15	MAP	3/16/10 7:47			1		USE	B
EXP0314085a	247346001	MAP	3/16/10 8:16	955065	10-1911	2	LANL	USE	S
EXP0314086a	247346002	MAP	3/16/10 8:46	955065	10-1911	2	LANL	USE	S
EXP0314087a	247346003	MAP	3/16/10 9:15	955065	10-1911	2	LANL	USE	S
EXP0314088a	WXXCCV	MAP	3/16/10 9:45			1		USE	C
EXP0314089a	XIBLK11	MAP	3/16/10 10:14			1		USE	B
EXP0314090a	WXXCRI	MAP	3/16/10 10:44			1		USE	C
EXP0314091a	247346004	MAP	3/16/10 13:13	955065	10-1911	2	LANL	DUSE	S
EXP0314092a	247346005	MAP	3/16/10 13:42	955065	10-1911	2	LANL	DUSE	S
EXP0314093a	247346006	MAP	3/16/10 14:11	955065	10-1911	2	LANL	DUSE	S
EXP0314094a	247346007	MAP	3/16/10 14:41	955065	10-1911	2	LANL	DUSE	S
EXP0314095a	247346008	MAP	3/16/10 15:10	955065	10-1911	2	LANL	DUSE	S
EXP0314096a	247358001	MAP	3/16/10 15:40	955065	10-1914	2	LANL	DUSE	S
EXP0314097a	247358002	MAP	3/16/10 16:10	955065	10-1914	2	LANL	DUSE	S
EXP0314098a	247358003	MAP	3/16/10 16:39	955065	10-1914	2	LANL	DUSE	S
EXP0314099a	247358004	MAP	3/16/10 17:08	955065	10-1914	2	LANL	DUSE	S
EXP0314100a	247358004	MAP	3/16/10 17:41	955065	10-1914	2	LANL	DUSE	S
EXP0314101a	WXXCCV	MAP	3/16/10 18:11			1		DUSE	C
EXP0314102a	XIBLK12	MAP	3/16/10 18:40			1		DUSE	B
EXP0314103a	WXXCRI	MAP	3/16/10 19:10			1		DUSE	C

EXP0314104a	248259006	MAP	3/16/10 19:39	958286	10-2148	10	LANL	DUSE	S
EXP0314105a	1202055085	MAP	3/16/10 20:09	958286	10-2051	2	LANL	DUSE	S
EXP0314106a	XIBLK13	MAP	3/16/10 20:38			1		DUSE	B
EXP0314107a	1202049901	MAP	3/16/10 21:08	956045	Various	2	LANL	DUSE	S
EXP0314108a	1202049902	MAP	3/16/10 21:37	956045	Various	2	LANL	DUSE	S
EXP0314109a	247421002	MAP	3/16/10 22:07	956045	10-1920	2	LANL	DUSE	S
EXP0314110a	1202049903	MAP	3/16/10 22:36	956045	10-1920	2	LANL	DUSE	S
EXP0314111a	1202049904	MAP	3/16/10 23:06	956045	10-1920	2	LANL	DUSE	S
EXP0314112a	247421003	MAP	3/16/10 23:35	956045	10-1920	2	LANL	DUSE	S
EXP0314113a	247421004	MAP	3/17/10 0:05	956045	10-1920	2	LANL	DUSE	S
EXP0314114a	WXXCCV	MAP	3/17/10 0:34			1		DUSE	C
EXP0314115a	XIBLK14	MAP	3/17/10 1:04			1		DUSE	B
EXP0314116a	WXXCRI	MAP	3/17/10 1:33			1		DUSE	C
EXP0314117a	247421005	MAP	3/17/10 2:03	956045	10-1920	2	LANL	DUSE	S
EXP0314118a	247421006	MAP	3/17/10 2:32	956045	10-1920	2	LANL	DUSE	S
EXP0314119a	247421007	MAP	3/17/10 3:02	956045	10-1920	2	LANL	DUSE	S
EXP0314120a	247450002	MAP	3/17/10 3:31	956045	10-1937	2	LANL	DUSE	S
EXP0314121a	247450003	MAP	3/17/10 4:01	956045	10-1937	2	LANL	DUSE	S
EXP0314122a	247450004	MAP	3/17/10 4:30	956045	10-1937	2	LANL	DUSE	S
EXP0314123a	247450005	MAP	3/17/10 5:00	956045	10-1937	2	LANL	DUSE	S
EXP0314124a	247450006	MAP	3/17/10 5:29	956045	10-1937	2	LANL	DUSE	S
EXP0314125a	247450007	MAP	3/17/10 5:59	956045	10-1937	2	LANL	DUSE	S
EXP0314126a	247562002	MAP	3/17/10 6:28	956045	10-1950	2	LANL	DUSE	S

*10-1950
4mm
03/17/10*

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 03/19/10
 Extr. Injection Volume: 50ul
 Sequence Number: 031910expA
 Initial Calibration Date: 03/19/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100309-01.1
 Mobile Phase Lot#: 1285274, 1281642
 Standard-Samp Reagent Lot#: 1283379, 1284736
 Reviewed BY: *hnm*
 Date: *03/22/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100319-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0319001a	XIBLK01	MAP	3/19/10 16:54			1		USE	B
EXP0319002a	XIBLK01	MAP	3/19/10 17:23			1		USE	B
EXP0319003a	WXXICAL-01	MAP	3/19/10 17:53			1		USE	I
EXP0319004a	WXXICAL-02	MAP	3/19/10 18:22			1		USE	I
EXP0319005a	WXXICAL-03	MAP	3/19/10 18:52			1		USE	I
EXP0319006a	WXXICAL-04	MAP	3/19/10 19:21			1		USE	I
EXP0319007a	WXXICAL-05	MAP	3/19/10 19:51			1		USE	I
EXP0319008a	WXXICAL-06	MAP	3/19/10 20:20			1		USE	I
EXP0319009a	XIBLK02	MAP	3/19/10 20:50			1		USE	B
EXP0319010a	WXXICV	MAP	3/19/10 21:19			1		USE	C
EXP0319011a	XIBLK03	MAP	3/19/10 21:49			1		USE	B
EXP0319012a	WXXCRI	MAP	3/19/10 22:18			1		USE	C
EXP0319013a	247346004	MAP	3/19/10 22:48	955065	10-1911	2	LANL	USE	S
EXP0319014a	247346005	MAP	3/19/10 23:17	955065	10-1911	2	LANL	USE	S
EXP0319015a	247346006	MAP	3/19/10 23:47	955065	10-1911	2	LANL	USE	S
EXP0319016a	247346007	MAP	3/20/10 0:16	955065	10-1911	2	LANL	USE	S
EXP0319017a	247346008	MAP	3/20/10 0:46	955065	10-1911	2	LANL	USE	S
EXP0319018a	247358001	MAP	3/20/10 1:15	955065	10-1914	2	LANL	USE	S
EXP0319019a	247358002	MAP	3/20/10 1:45	955065	10-1914	2	LANL	USE	S
EXP0319020a	247358003	MAP	3/20/10 2:14	955065	10-1914	2	LANL	USE	S
EXP0319021a	247358004	MAP	3/20/10 2:44	955065	10-1914	2	LANL	USE	S
EXP0319022a	WXXCCV	MAP	3/20/10 3:13			1		USE	C
EXP0319023a	XIBLK04	MAP	3/20/10 3:43			1		USE	B
EXP0319024a	WXXCRI	MAP	3/20/10 4:12			1		USE	C
EXP0319025a	248259006	MAP	3/20/10 4:41	958286	10-2148	10	LANL	USE	S
EXP0319026a	1202055085	MAP	3/20/10 5:11	958286	10-2051	2	LANL	USE	S
EXP0319027a	XIBLK05	MAP	3/20/10 5:41			1		USE	B
EXP0319028a	1202049901	MAP	3/20/10 6:10	956045	Various	2	LANL	USE	S
EXP0319029a	1202049902	MAP	3/20/10 6:40	956045	Various	2	LANL	USE	S

EXP0319030a	247421002	MAP	3/20/10 7:09	956045	10-1920	2	LANL	USE	S
EXP0319031a	1202049903	MAP	3/20/10 7:38	956045	10-1920	2	LANL	USE	S
EXP0319032a	1202049904	MAP	3/20/10 8:08	956045	10-1920	2	LANL	USE	S
EXP0319033a	247421003	MAP	3/20/10 8:37	956045	10-1920	2	LANL	USE	S
EXP0319034a	WXXCCV	MAP	3/20/10 9:07			1		USE	C
EXP0319035a	XIBLK06	MAP	3/20/10 9:36			1		USE	B
EXP0319036a	WXXCRI	MAP	3/20/10 10:06			1		USE	C

GEL ORGANIC RUN LOG INSTRUMENT ID: LCMSMS4

Date: 03/05/10
 Extr. Injection Volume: 10uL
 Sequence Number: 030510exs
 Initial Calibration Date: 030510
 Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1274562, 1261217
 Reviewed By: *hmm*
 Date: *03/09/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100305-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03050001.wiff	XIBLK01	LER	3/5/2010 17:07			1		USE	B
EXS03050002.wiff	XIBLK01	LER	3/5/2010 17:23			1		USE	B
EXS03050003.wiff	WXXICAL-19	LER	3/5/2010 17:39			1		USE	I
EXS03050004.wiff	WXXICAL-20	LER	3/5/2010 17:54			1		USE	I
EXS03050005.wiff	WXXICAL-21	LER	3/5/2010 18:10			1		USE	I
EXS03050006.wiff	WXXICAL-22	LER	3/5/2010 18:26			1		USE	I
EXS03050007.wiff	WXXICAL-23	LER	3/5/2010 18:41			1		USE	I
EXS03050008.wiff	WXXICAL-24	LER	3/5/2010 18:57			1		USE	I
EXS03050009.wiff	WXXICAL-25	LER	3/5/2010 19:13			1		USE	I
EXS03050010.wiff	XIBLK02	LER	3/5/2010 19:29			1		USE	B
EXS03050011.wiff	WXXICV	LER	3/5/2010 19:44			1		USE	C
EXS03050012.wiff	XIBLK03	LER	3/5/2010 20:00			1		USE	B
EXS03050013.wiff	WXXCRI	LER	3/5/2010 20:16			1		USE	C
EXS03050014.wiff	1202045735	LER	3/5/2010 20:31	954321	VARIOUS	2	LANL	USE	S
EXS03050015.wiff	1202045736	LER	3/5/2010 20:47	954321	VARIOUS	2	LANL	USE	S
EXS03050016.wiff	247126001	LER	3/5/2010 21:03	954321	10-1849	2	LANL	USE	S
EXS03050017.wiff	1202045737	LER	3/5/2010 21:18	954321	10-1849	2	LANL	USE	S
EXS03050018.wiff	1202045738	LER	3/5/2010 21:34	954321	10-1849	2	LANL	USE	S
EXS03050019.wiff	247126002	LER	3/5/2010 21:50	954321	10-1849	2	LANL	USE	S
EXS03050020.wiff	247126003	LER	3/5/2010 22:05	954321	10-1849	2	LANL	USE	S
EXS03050021.wiff	247178001	LER	3/5/2010 22:21	954321	10-1861	2	LANL	USE	S
EXS03050022.wiff	247178002	LER	3/5/2010 22:37	954321	10-1861	2	LANL	USE	S
EXS03050023.wiff	247178003	LER	3/5/2010 22:53	954321	10-1861	2	LANL	USE	S
EXS03050024.wiff	WXXCCV	LER	3/5/2010 23:08			1		USE	C
EXS03050025.wiff	XIBLK04	LER	3/5/2010 23:24			1		USE	B
EXS03050026.wiff	WXXCRI	LER	3/5/2010 23:40			1		USE	C
EXS03050027.wiff	247178004	LER	3/5/2010 23:55	954321	10-1861	2	LANL	USE	S
EXS03050028.wiff	247178005	LER	3/6/2010 0:11	954321	10-1861	2	LANL	USE	S
EXS03050029.wiff	247178006	LER	3/6/2010 0:27	954321	10-1861	2	LANL	USE	S
EXS03050030.wiff	247178007	LER	3/6/2010 0:42	954321	10-1861	2	LANL	USE	S

EXS03050031.wiff	247178008	LER	3/6/2010 0:58	954321	10-1861	2	LANL	USE	S
EXS03050032.wiff	247178009	LER	3/6/2010 1:14	954321	10-1861	2	LANL	USE	S
EXS03050033.wiff	247178010	LER	3/6/2010 1:30	954321	10-1861	2	LANL	USE	S
EXS03050034.wiff	247178011	LER	3/6/2010 1:45	954321	10-1861	2	LANL	USE	S
EXS03050035.wiff	WXXCCV	LER	3/6/2010 2:01			1		USE	C
EXS03050036.wiff	XIBLK05	LER	3/6/2010 2:17			1		USE	B
EXS03050037.wiff	WXXCRI	LER	3/6/2010 2:32			1		USE	C
EXS03050038.wiff	1202052406	LER	3/6/2010 2:48	957200	VARIOUS	2	LANL	USE	S
EXS03050039.wiff	1202052407	LER	3/6/2010 3:04	957200	VARIOUS	2	LANL	USE	S
EXS03050040.wiff	247784002	LER	3/6/2010 3:19	957200	10-1979	2	LANL	USE	S
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EXS03050042.wiff	247790003	LER	3/6/2010 3:51	957200	10-1981	2	LANL	USE	S
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EXS03050047.wiff	247791006	LER	3/6/2010 5:09	957200	10-1982	2	LANL	USE	S
EXS03050048.wiff	WXXCCV	LER	3/6/2010 5:25			1		USE	C
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EXS03050051.wiff	247799001	LER	3/6/2010 6:12	957200	10-1990	2	LANL	USE	S
EXS03050052.wiff	1202052408	LER	3/6/2010 6:28	957200	10-1990	2	LANL	USE	S
EXS03050053.wiff	1202052409	LER	3/6/2010 6:44	957200	10-1990	2	LANL	USE	S
EXS03050054.wiff	247799002	LER	3/6/2010 6:59	957200	10-1990	2	LANL	USE	S
EXS03050055.wiff	247799003	LER	3/6/2010 7:15	957200	10-1990	2	LANL	USE	S
EXS03050056.wiff	247799004	LER	3/6/2010 7:31	957200	10-1990	2	LANL	USE	S
EXS03050057.wiff	247799005	LER	3/6/2010 7:46	957200	10-1990	2	LANL	USE	S
EXS03050058.wiff	247799006	LER	3/6/2010 8:02	957200	10-1990	2	LANL	USE	S
EXS03050059.wiff	247799007	LER	3/6/2010 8:18	957200	10-1990	2	LANL	USE	S
EXS03050060.wiff	WXXCCV	LER	3/6/2010 8:34			1		USE	C
EXS03050061.wiff	XIBLK07	LER	3/6/2010 8:49			1		USE	B
EXS03050062.wiff	WXXCRI	LER	3/6/2010 9:05			1		USE	C
EXS03050063.wiff	247799008	LER	3/6/2010 9:21	957200	10-1990	2	LANL	USE	S
EXS03050064.wiff	247799009	LER	3/6/2010 9:36	957200	10-1990	2	LANL	USE	S
EXS03050065.wiff	247799010	LER	3/6/2010 9:52	957200	10-1990	2	LANL	USE	S
EXS03050066.wiff	WXXCCV	LER	3/6/2010 10:08			1		USE	C
EXS03050067.wiff	XIBLK08	LER	3/6/2010 10:23			1		USE	B

EXS03050105.wiff	247346003	LER	3/6/2010 20:20	955065	10-1911	2	LANL	USE	S
EXS03050106.wiff	WXXCCV	LER	3/6/2010 20:36			1		USE	C
EXS03050107.wiff	XIBLK13	LER	3/6/2010 20:52			1		USE	B
EXS03050108.wiff	WXXCRI	LER	3/6/2010 21:07			1		USE	C
EXS03050109.wiff	247346004	LER	3/6/2010 21:23	955065	10-1911	2	LANL	USE	S
EXS03050110.wiff	247346005	LER	3/6/2010 21:39	955065	10-1911	2	LANL	USE	S
EXS03050111.wiff	247346006	LER	3/6/2010 21:54	955065	10-1911	2	LANL	USE	S
EXS03050112.wiff	247346007	LER	3/6/2010 22:10	955065	10-1911	2	LANL	USE	S
EXS03050113.wiff	247346008	LER	3/6/2010 22:26	955065	10-1911	2	LANL	USE	S
EXS03050114.wiff	247358001	LER	3/6/2010 22:41	955065	10-1914	2	LANL	USE	S
EXS03050115.wiff	247358002	LER	3/6/2010 22:57	955065	10-1914	2	LANL	USE	S
EXS03050116.wiff	247358003	LER	3/6/2010 23:13	955065	10-1914	2	LANL	USE	S
EXS03050117.wiff	247358004	LER	3/6/2010 23:29	955065	10-1914	2	LANL	USE	S
EXS03050118.wiff	WXXCCV	LER	3/6/2010 23:44			1		USE	C
EXS03050119.wiff	XIBLK14	LER	3/7/2010 0:00			1		USE	B
EXS03050120.wiff	WXXCRI	LER	3/7/2010 0:16			1		USE	C

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Time: 06:48:09

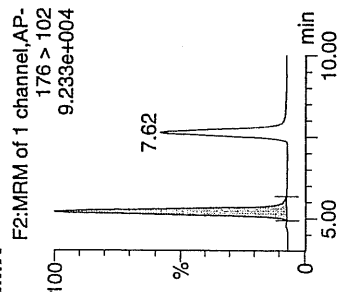
ID: 1202047531

Vial: 3:1,E

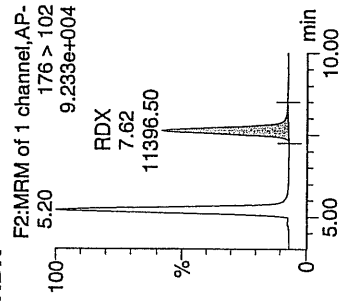
ANALYST 955065 | 247327002us | 21

4477
3/17/10

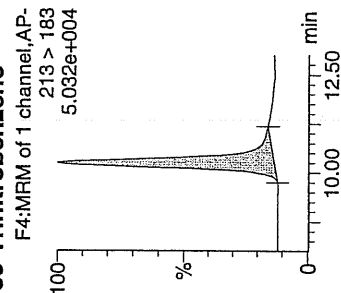
HMZ



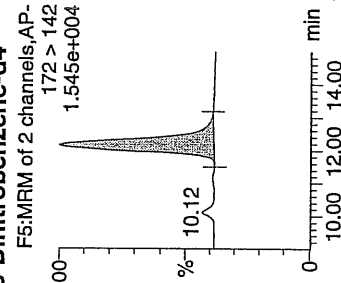
RDX



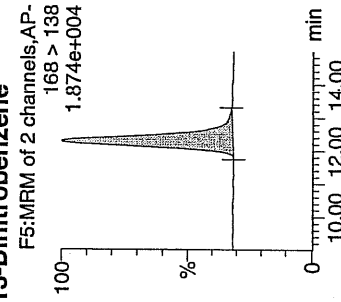
135-Trinitrobenzene



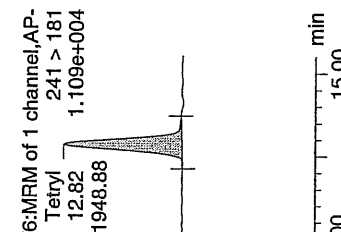
13-Dinitrobenzene-d4



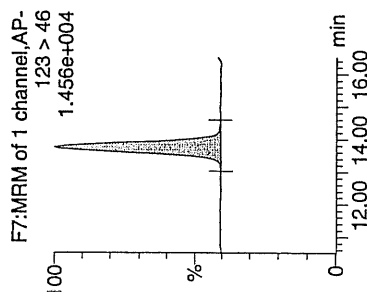
13-Dinitrobenzene



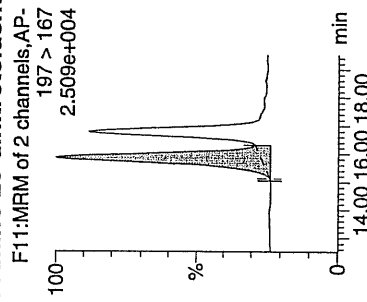
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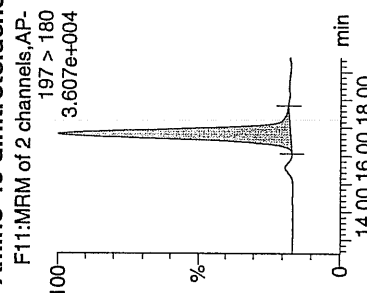
Nitrobenzene



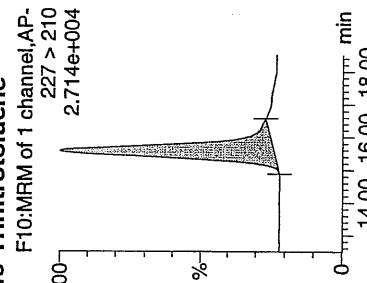
4-Amino-26-dinitrotoluene



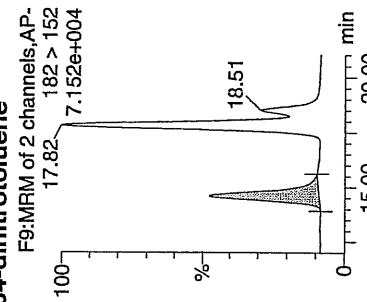
2-Amino-46-dinitrotoluene



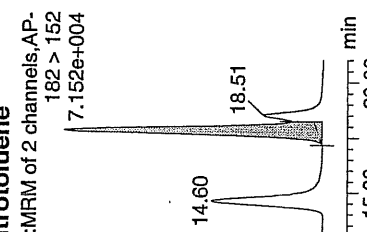
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



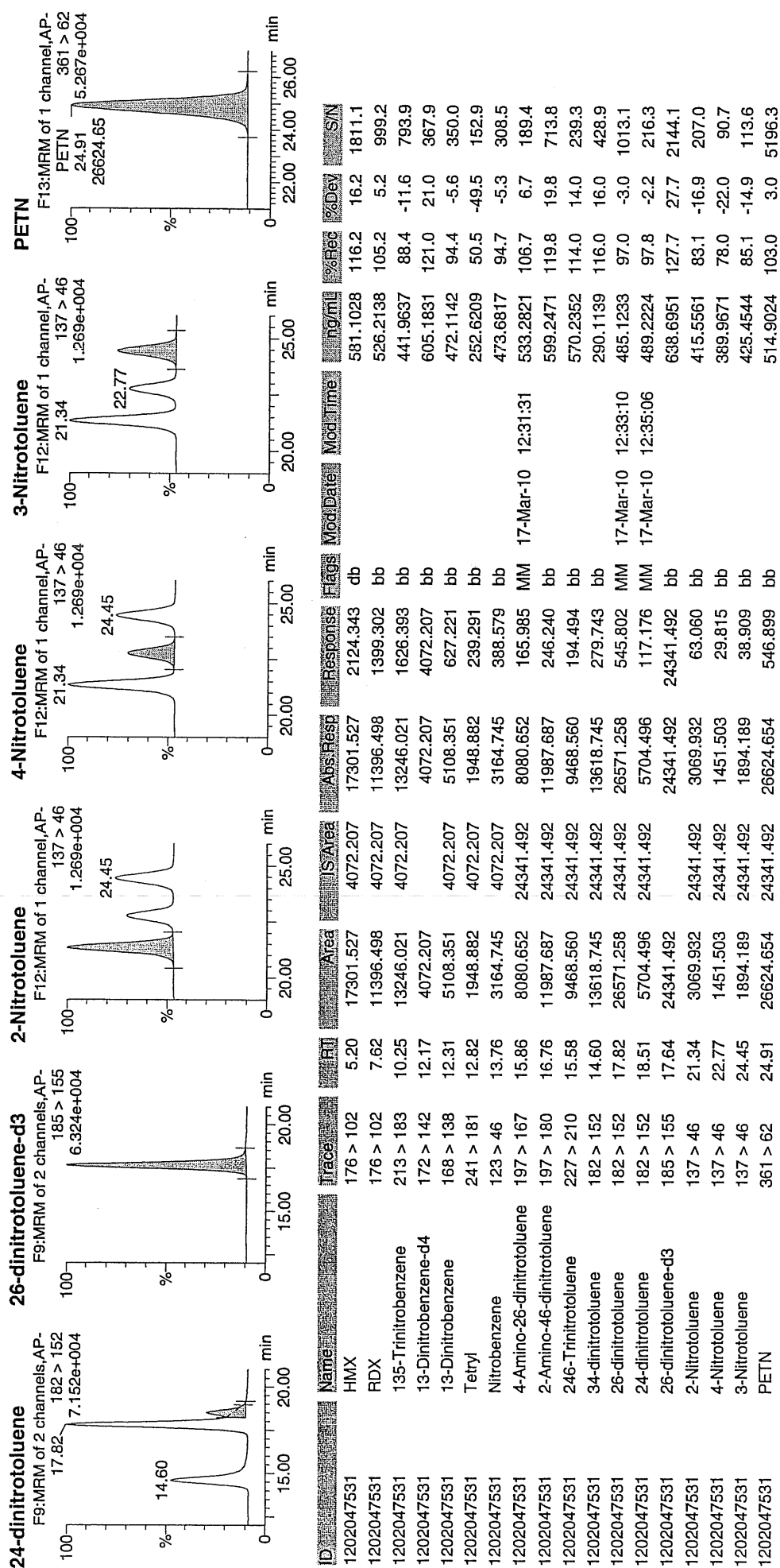
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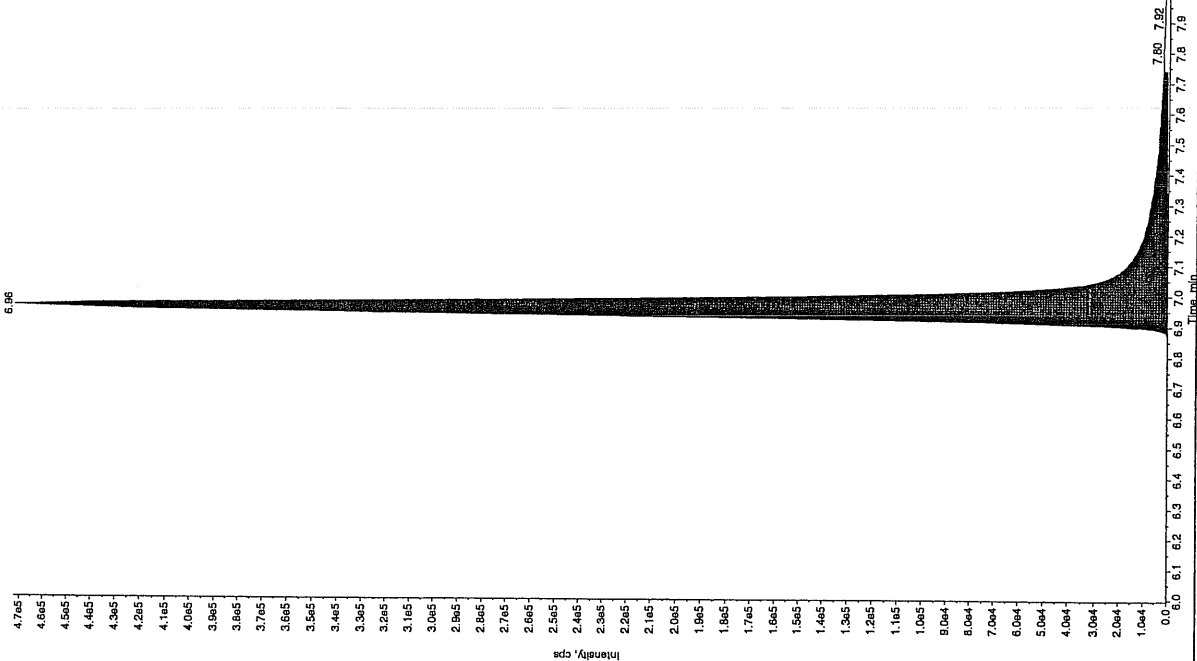
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San 3/9/10

Sample Name: "1202047531" Sample ID: "9550552121" File: "EXS03050101.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

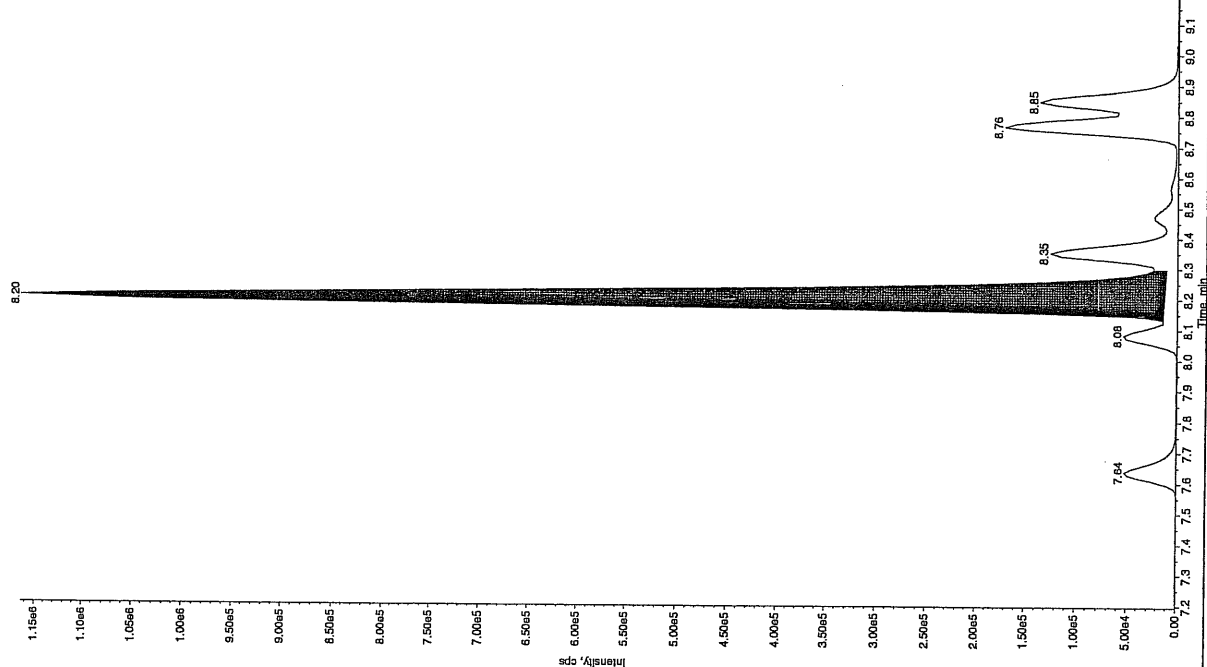
Sample Index: 1
 Sample Type: Unknown
 Concentration: 1310 ng/mL
 Calculated Conc: 3/6/2010
 Acq. Date: 7:17:53 PM
 Acq. Time: 7:17:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.00 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.96 min
 Area: 2.09e+006 counts
 Height: 472131.256 cps
 Start Time: 6.86 min
 End Time: 7.74 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202047531" Sample ID: "9550552121" File: "EXS03050101.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

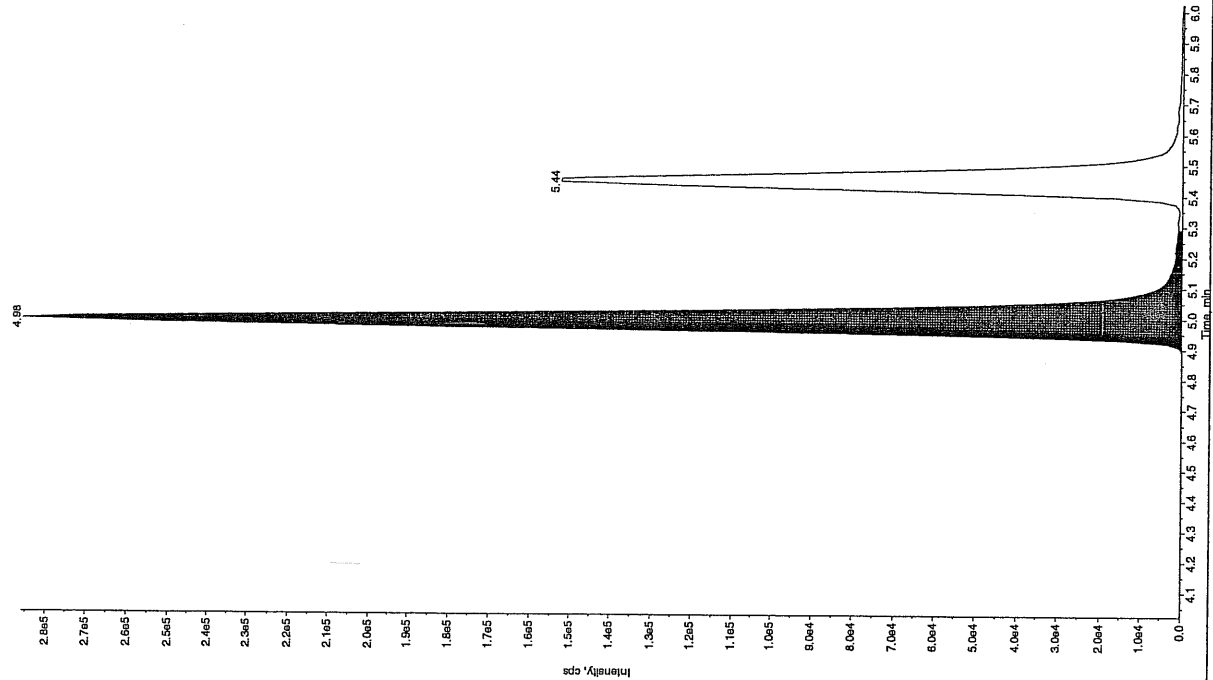
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 510 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:17:53 PM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.20 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.20 min
 Area: 4.16e+006 counts
 Height: 1151744.141 cps
 Start Time: 8.12 min
 End Time: 8.30 min



San 03/09/10

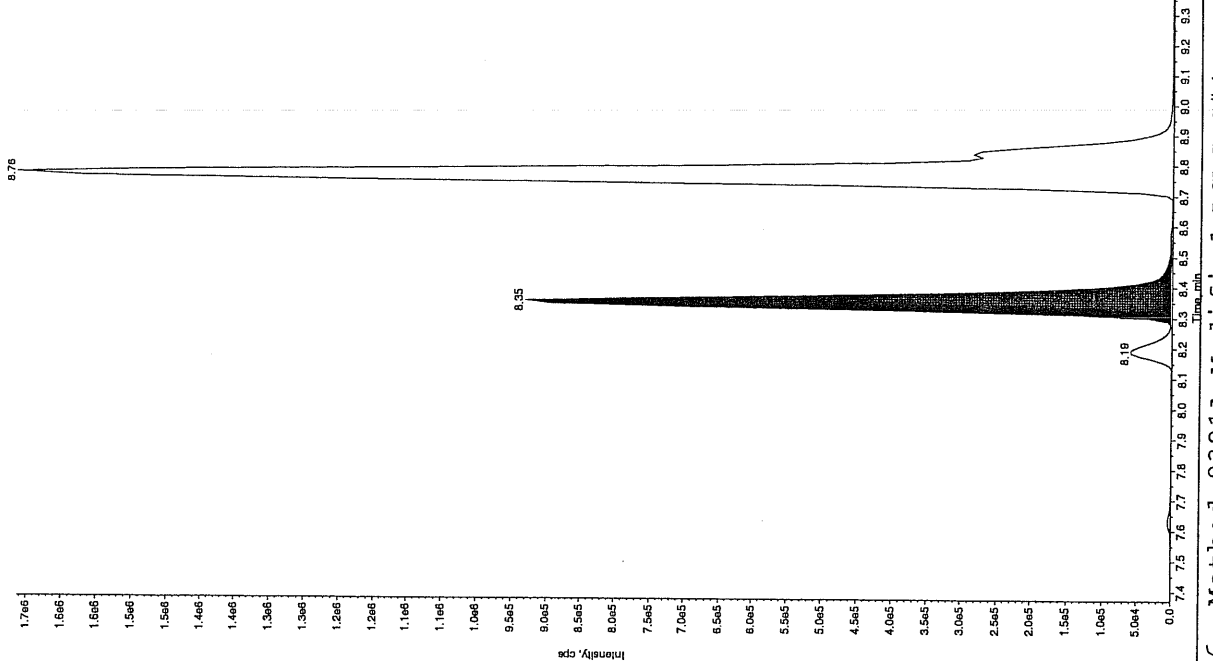
Sample Name: "1202047531" Sample ID: "95506521ER" File: "EXS03050101.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 443. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:17:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 1.17e+006 counts
 Height: 285788.666 cps
 Start Time: 4.88 min
 End Time: 5.29 min



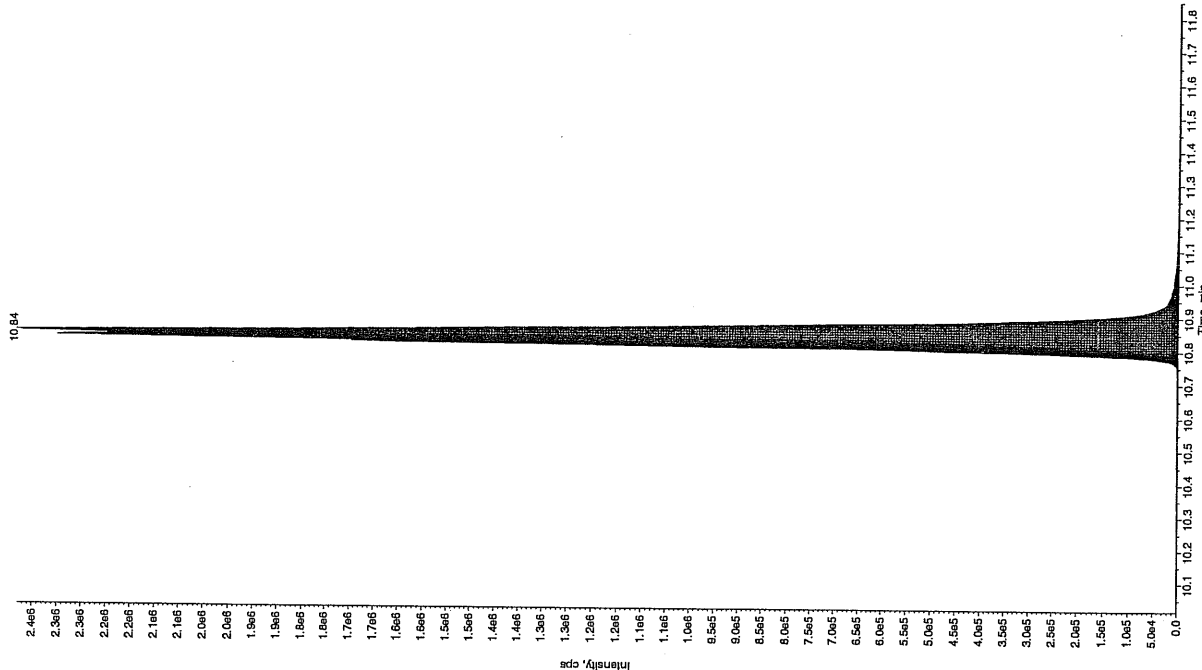
Sample Name: "1202047531" Sample ID: "95506521ER" File: "EXS03050101.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 246. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:17:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 8.37 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 3.10e+006 counts
 Height: 927102.722 cps
 Start Time: 8.28 min
 End Time: 8.59 min



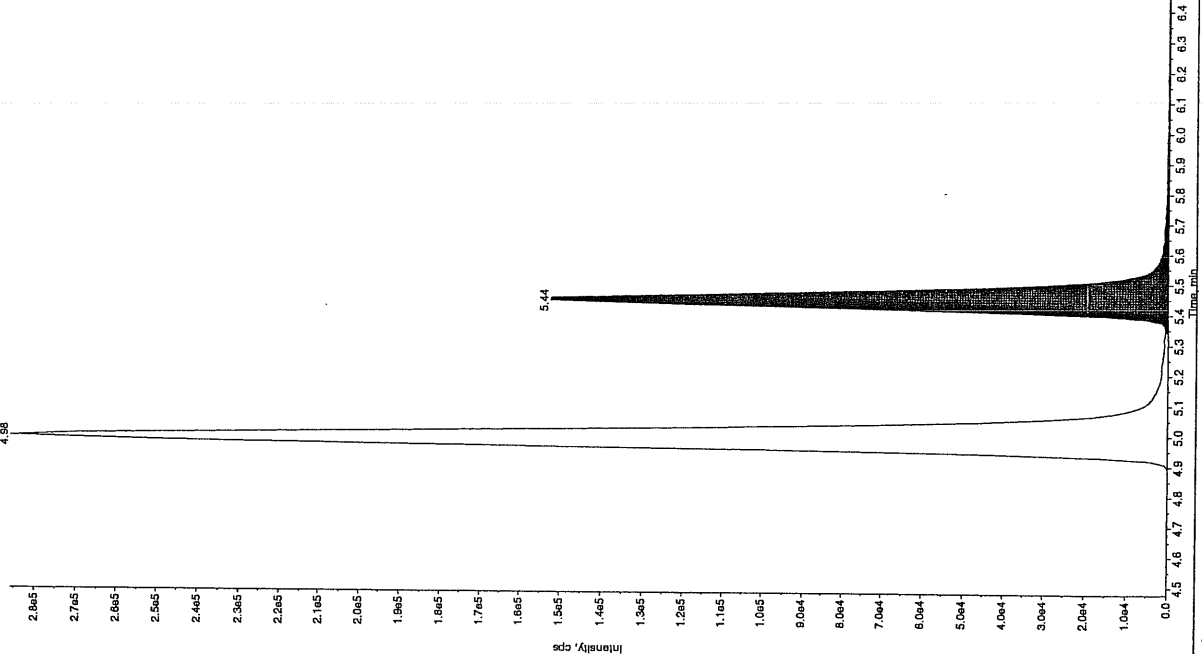
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 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.1791.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 511. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:17:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 8.56e+006 counts
 Height: 2377636.709 cps
 Start Time: 10.7 min
 End Time: 11.2 min



Sample Name: "1202047531" Sample ID: "955065121ER" File: "EXS03050101.wif"
 Peak Name: "24-Diamino-5-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 339. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:17:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.48 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.44 min
 Area: 6.26e+005 counts
 Height: 152071.487 cps
 Start Time: 5.34 min
 End Time: 5.90 min



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Time: 07:17:36

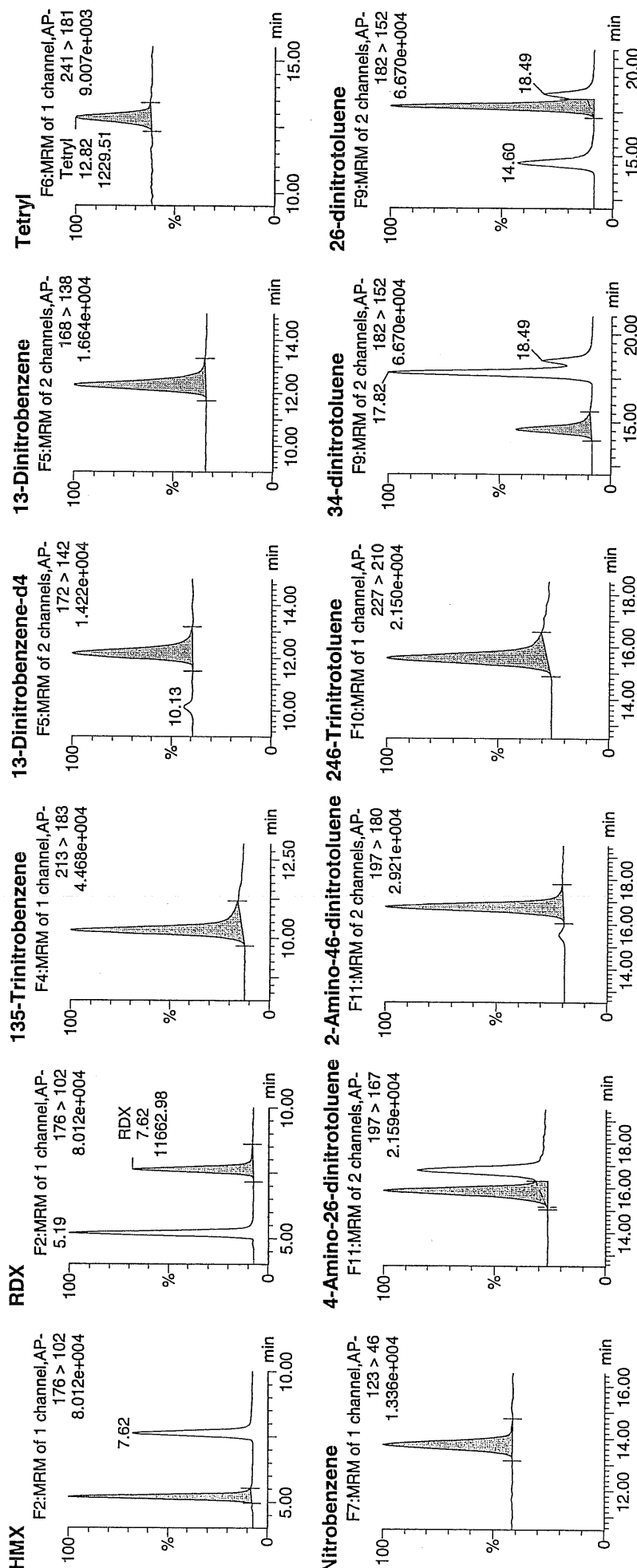
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Vial: 3:1,F

ANU 955065 / 8023 / 247327002MSD / 21

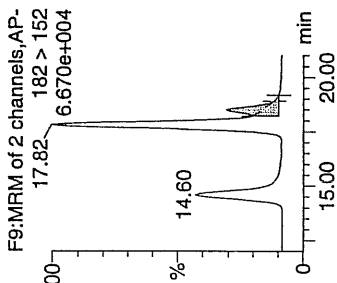
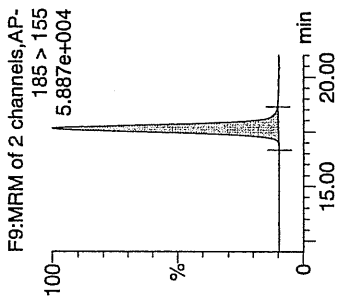
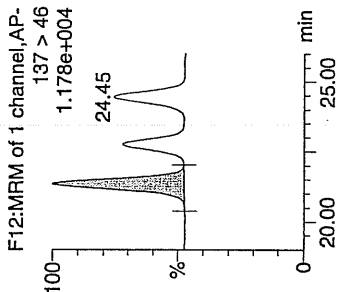
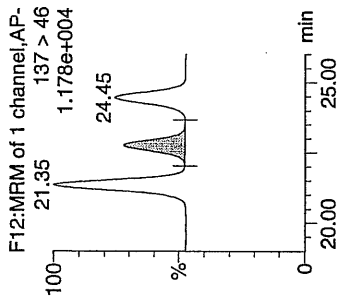
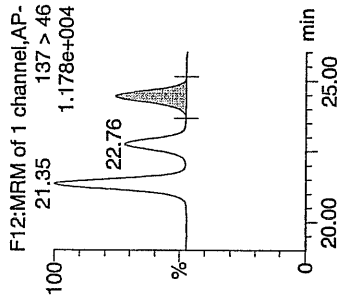
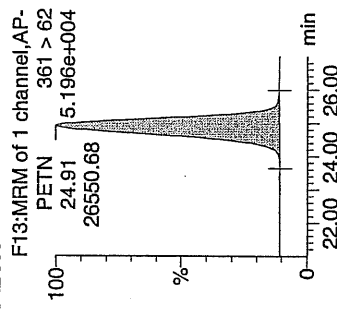
4647
3/17/10

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ANU 955065 / 8023 / 247327002MSD / 21

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA2.qld, Time: Wed Mar 17 12:35:29 2010

24-dinitrotoluene**26-dinitrotoluene-d3****2-Nitrotoluene****4-Nitrotoluene****3-Nitrotoluene****PETN**

ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	SN
1202047532	HMX	176 > 102	5.19	14689.142	3659.986	14689.142	2006.721	bb			548.9280	109.8	9.8	1278.6
1202047532	RDX	176 > 102	7.62	11662.979	3659.986	11662.979	1593.309	bb			599.1709	119.8	19.8	841.2
1202047532	135-Trinitrobenzene	213 > 183	10.25	11894.454	3659.986	11894.454	1624.932	bb			441.5664	88.3	-11.7	382.0
1202047532	13-Dinitrobenzene	172 > 142	12.17	3659.986		3659.986	3659.986	bb			543.9217	108.8	8.8	500.9
1202047532	13-Dinitrobenzene	168 > 138	12.31	4382.230	3659.986	4382.230	598.668	bb			450.6215	90.1	-9.9	262.7
1202047532	Tetryl	241 > 181	12.82	1229.506	3659.986	1229.506	167.966	bb			177.3229	35.5	-64.5	81.2
1202047532	Nitrobenzene	123 > 46	13.76	2863.558	3659.986	2863.558	391.198	bb			476.8748	95.4	-4.6	185.3
1202047532	4-Amino-26-dinitrotoluene	197 > 167	15.86	6770.716	22509.689	6770.716	150.396	MM	17-Mar-10	12:31:44	483.1955	96.6	-3.4	236.5
1202047532	2-Amino-46-dinitrotoluene	197 > 180	16.76	9626.565	22509.689	9626.565	213.832	bb			520.3788	104.1	4.1	481.4
1202047532	246-Trinitrotoluene	227 > 210	15.58	7192.255	22509.689	7192.255	159.759	bb			468.3957	93.7	-6.3	479.2
1202047532	34-dinitrotoluene	182 > 152	14.60	10997.940	22509.689	10997.940	244.293	bb			253.3497	101.3	1.3	141.7
1202047532	26-dinitrotoluene	182 > 152	17.82	24485.668	22509.689	24485.668	543.892	MM	17-Mar-10	12:33:18	483.4257	96.7	-3.3	380.9
1202047532	24-dinitrotoluene	182 > 152	18.49	5734.189	22509.689	5734.189	127.372	MM	17-Mar-10	12:34:54	531.7883	106.4	6.4	88.1
1202047532	26-dinitrotoluene-d3	185 > 155	17.64	22509.689		22509.689	22509.689	bb			590.6305	118.1	18.1	2414.1
1202047532	2-Nitrotoluene	137 > 46	21.35	2774.511	22509.689	2774.511	61.629	bb			406.1300	81.2	-18.8	607.5
1202047532	4-Nitrotoluene	137 > 46	22.76	1371.803	22509.689	1371.803	30.471	bb			398.5470	79.7	-20.3	282.7
1202047532	3-Nitrotoluene	137 > 46	24.45	1651.699	22509.689	1651.699	36.689	bb			401.1791	80.2	-19.8	327.2
1202047532	PETN	361 > 62	24.91	26550.684	22509.689	26550.684	589.761	bb			559.9394	112.0	12.0	12206.8

Sen 3/9/10

Sample Name: "1202047532" Sample ID: "955065121.ER" File: "EXS03060102.wif"

Peak Name: "TA1B" Mass(es): "257.2204.9 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: 553. ng/mL

Acq. Date: 3/6/2010

Acq. Time: 7:33:34 PM

Modified: No

Proc. Algorithm: IntelliQuan - IOA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 7.00 min

Use Relative RT: No

Int. Type: Valley

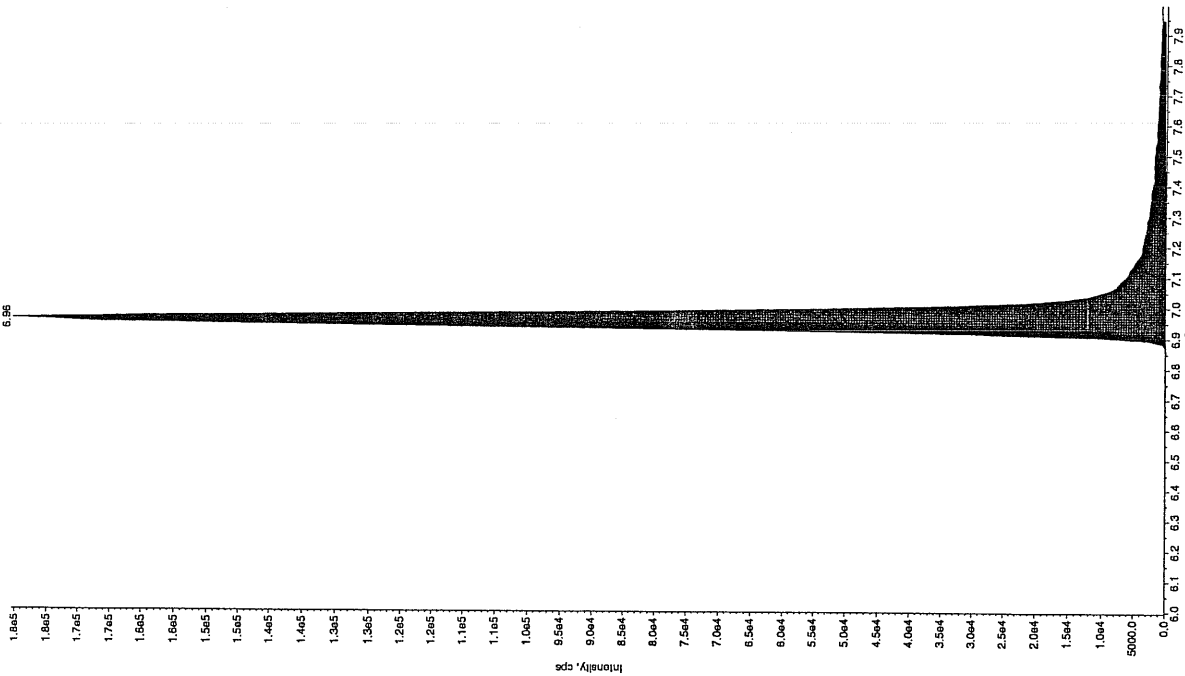
Retention Time: 6.96 min

Area: 7.97e+005 counts

Height: 180423.386 cps

Start Time: 6.85 min

End Time: 7.95 min



Sample Name: "1202047532" Sample ID: "955065121.ER" File: "EXS03060102.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: 543. ng/mL

Acq. Date: 3/6/2010

Acq. Time: 7:33:34 PM

Modified: Yes

Proc. Algorithm: IntelliQuan - IOA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.20 min

Use Relative RT: No

Int. Type: Valley

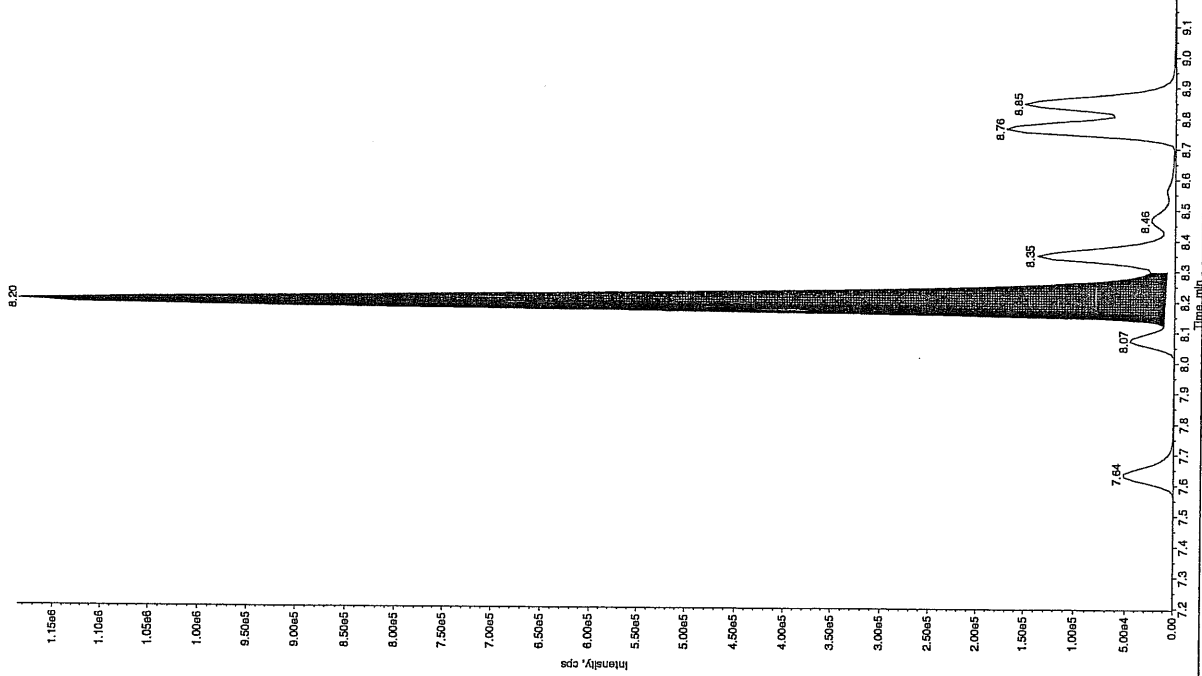
Retention Time: 8.20 min

Area: 4.41e+006 counts

Height: 1176424.927 cps

Start Time: 8.12 min

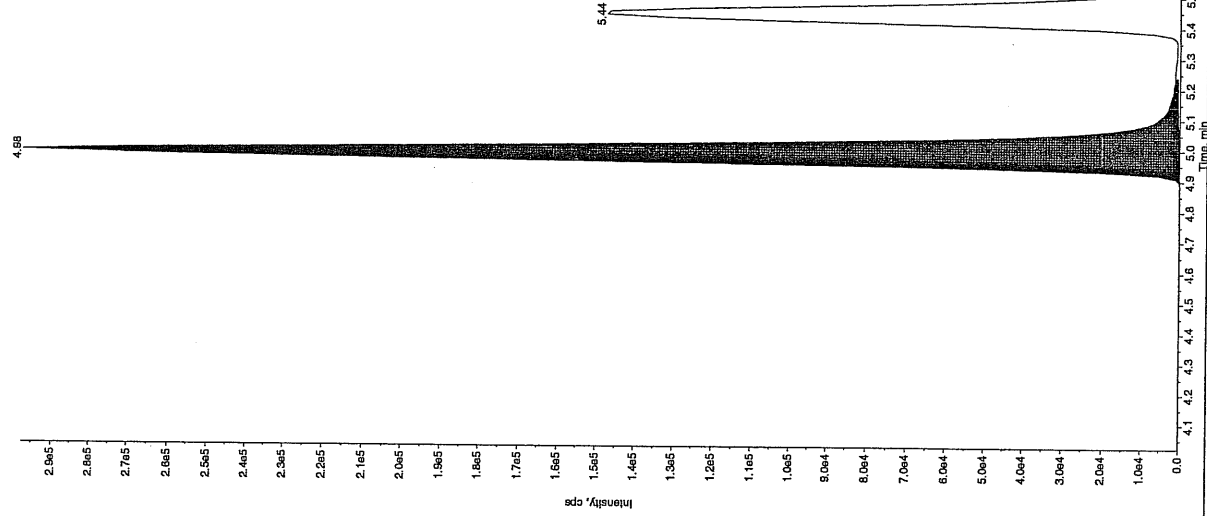
End Time: 8.30 min



HW 03/09/10

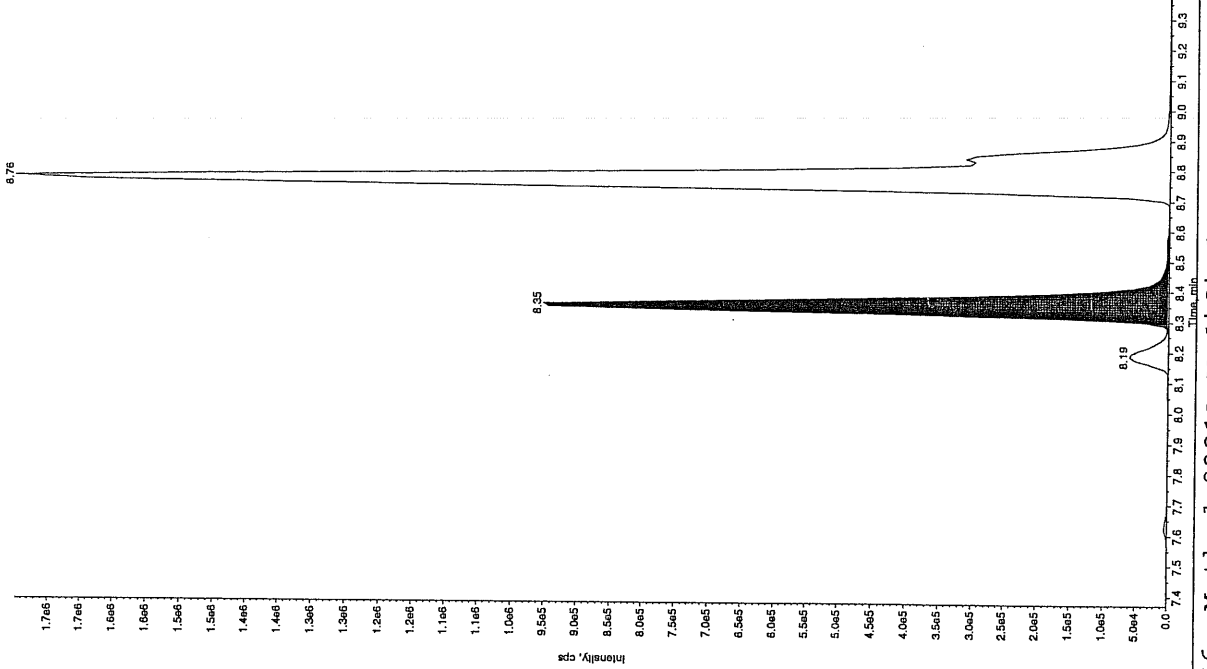
Sample Name: "1202047532" Sample ID: "955065[2]LER" File: "EXS03050102.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 444. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:33:34 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.98 min
 Area: 1.17e+006 counts
 Height: 297219.208 cps
 Start Time: 4.88 min
 End Time: 5.24 min



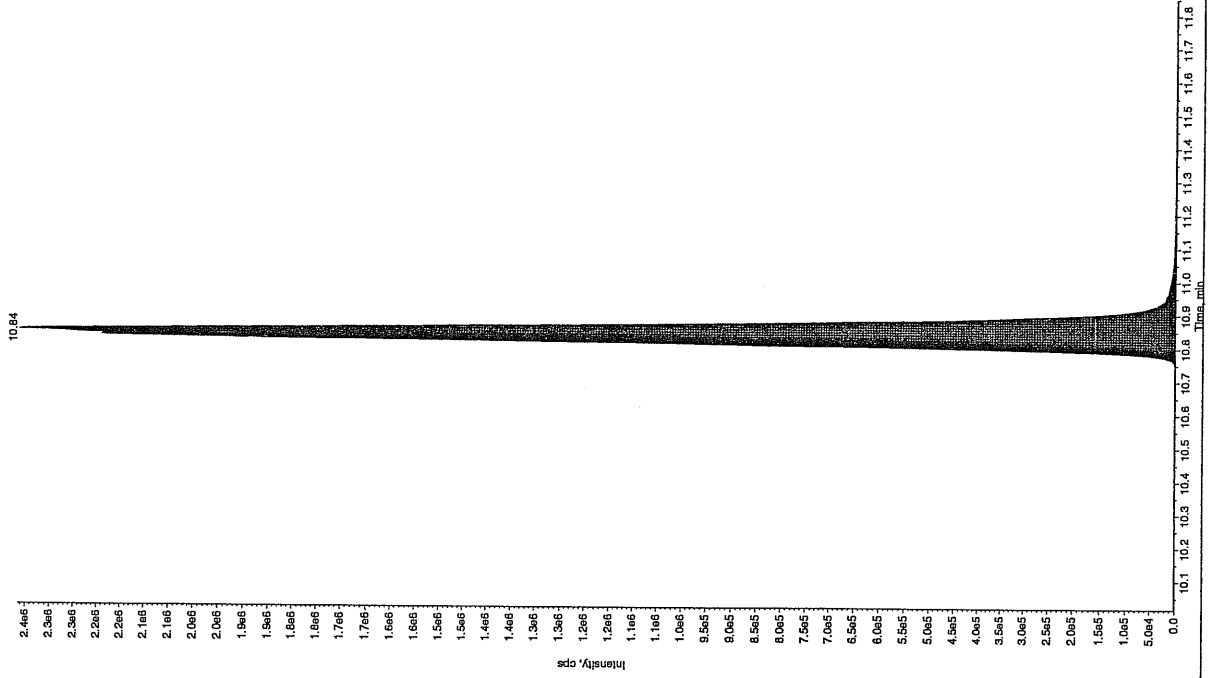
Sample Name: "1202047532" Sample ID: "955065[2]LER" File: "EXS03050102.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.17151.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 261. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:33:34 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 8.37 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 3.25e+006 counts
 Height: 947753.967 cps
 Start Time: 8.28 min
 End Time: 8.59 min



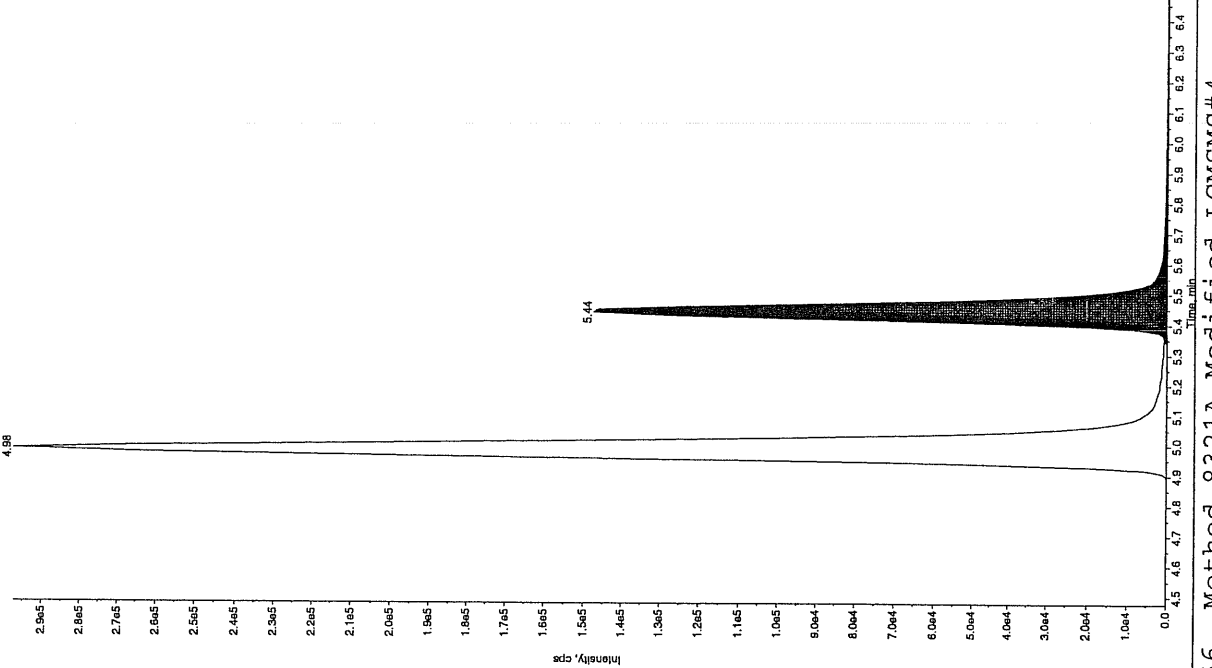
Sample Name: "1202047532" Sample ID: "95506321LER" File: "EX503050102.wif"
 Peak Name: "tris(c-resyl) phosphate" Mass(es): "369.1/91.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 516 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:33:34 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 8.54e+06 counts
 Height: 238320.752 cps
 Start Time: 10.7 min
 End Time: 11.2 min



Sample Name: "1202047532" Sample ID: "95506321LER" File: "EX503050102.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 331. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 7:33:34 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.48 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.44 min
 Area: 6.12e+05 counts
 Height: 147129.059 cps
 Start Time: 5.34 min
 End Time: 6.00 min



GEL Laboratories LLC
Form GEL-DER

DER Report No.: 807209
Revision No.:

DATA EXCEPTION REPORT

Mo.Day Yr. 20-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 955065	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 247327(10-1898),247346(10-1911),247358(10-1914) Application Issues: Failed Recovery for MSD/PSD Failed Recovery for LCS/LCSD Failed Recovery for MS/PS Failed RPD for MS/MSD, or PS/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. The Laboratory Control Sample (1202047530) did not meet spike recovery limits for Tetryl at 49.0%. The recovery limits are 51-112%. 2. The Matrix Spike (1202047531) did not meet spike recovery limits for TATB at 276%. The recovery limits are 29-155%. 3. The Matrix Spike Duplicate (1202047532) did not meet spike recovery limits for Tetryl at 35.5%. The recovery limits are 36-124%. 4. The MS/MSD pair (1202047531/2) did not meet RPD acceptance limits for Tetryl at 35.0% and TATB at 85.6%. The acceptance limits are 0-30%.		1. Since the Matrix Spike met acceptance limits for Tetryl, method control was achieved. The samples have exceeded twice their hold time; therefore, the data are reported with the appropriate DER. The discrepancy is noted in the case narrative. 2. Since the Laboratory Control Sample met acceptance limits for TATB, the data are reported with the appropriate DER. The discrepancy is noted in the case narrative. 3. Since the Matrix Spike met acceptance limits for Tetryl, method control was achieved. The data are reported with the appropriate DER. The discrepancy is noted in the case narrative. 4. Since all other RPD recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative.	

Originator's Name:
Michael Penny 20-MAR-10

Data Validator/Group Leader:
Herbert Maier 22-MAR-10

GC SEMIVOLATILE PCB ANALYSIS

**PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1911**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 957590
Prep Batch Number: 957587

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
247346001	RE15-10-8246
247346002	RE15-10-8245
247346003	RE15-10-8243
247346004	RE15-10-8244
247346005	RE15-10-8242
247346006	RE15-10-8240
247346007	RE15-10-8241
247346008	RE15-10-8267
1202053317	Method Blank (MB)
1202053318	Laboratory Control Sample (LCS)
1202053319	247346001(RE15-10-8246) Matrix Spike (MS)
1202053320	247346001(RE15-10-8246) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 15.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package.

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y

axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 247346001 (RE15-10-8246) was selected for the matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries for this SDG were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this SDG were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Technical Information

Holding Time Specifications

GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina.

Sample Dilutions

Sample 247346004 (RE15-10-8244) was diluted at 1:5 due to the oily matrix of the extract.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception reports (DERs) are for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integrations

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS. The data reported for the MS and MSD are from the same analytical column as the parent sample.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VIIs will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD8A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide I)
ECD8A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticide II)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Andy Whitlock

Date: 3-16-2010

Roadmap for LANL 10-1911 PCB

This roadmap was analyzed by jen01212 on 03-01-2010, 11:03.

This roadmap was reviewed by jim01140 on 03-02-2010, 07:53.

This roadmap was packaged by yml on 03-16-2010, 18:05.

Front Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/039f3901.d	247346001	sample	26-FEB-2010	13:41	10-1911.sub	RE15-10-8246	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/042f4201.d	247346002	sample	26-FEB-2010	14:18	10-1911.sub	RE15-10-8245	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/043f4301.d	247346003	sample	26-FEB-2010	14:31	10-1911.sub	RE15-10-8243	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/046f4601.d	247346004	sample	26-FEB-2010	15:08	10-1911.sub	RE15-10-8244	5.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/047f4701.d	247346005	sample	26-FEB-2010	15:20	10-1911.sub	RE15-10-8242	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/048f4801.d	247346006	sample	26-FEB-2010	15:32	10-1911.sub	RE15-10-8240	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/049f4901.d	247346007	sample	26-FEB-2010	15:45	10-1911.sub	RE15-10-8241	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/050f5001.d	247346008	sample	26-FEB-2010	15:57	10-1911.sub	RE15-10-8267	1.00000	957590	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/039b3901.d	247346001	sample	26-FEB-2010	13:41	10-1911.sub	RE15-10-8246	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/042b4201.d	247346002	sample	26-FEB-2010	14:18	10-1911.sub	RE15-10-8245	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/043b4301.d	247346003	sample	26-FEB-2010	14:31	10-1911.sub	RE15-10-8243	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/046b4601.d	247346004	sample	26-FEB-2010	15:08	10-1911.sub	RE15-10-8244	5.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/047b4701.d	247346005	sample	26-FEB-2010	15:20	10-1911.sub	RE15-10-8242	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/048b4801.d	247346006	sample	26-FEB-2010	15:32	10-1911.sub	RE15-10-8240	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/049b4901.d	247346007	sample	26-FEB-2010	15:45	10-1911.sub	RE15-10-8241	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/050b5001.d	247346008	sample	26-FEB-2010	15:57	10-1911.sub	RE15-10-8267	1.00000	957590	UPLOAD BOTH, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/024f2401-1.d	1202053317	mb	26-FEB-2010	10:36	10-1911.sub	PBLK01	1.00000	957590	
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/025f2501-1.d	1202053318	lcs	26-FEB-2010	10:48	10-1911.sub	PBLK01LCS	1.00000	957590	
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/040f4001.d	1202053319	ms	26-FEB-2010	13:53	10-1911.sub	RE15-10-8246MS	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/041f4101.d	1202053320	msd	26-FEB-2010	14:06	10-1911.sub	RE15-10-8246MSD	1.00000	957590	UPLOAD BOTH, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smgid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/024b2401-1.d	1202053317	mb	26-FEB-2010	10:36	10-1911.sub	PBLK01	1.00000	957590	
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/025b2501-1.d	1202053318	lcs	26-FEB-2010	10:48	10-1911.sub	PBLK01LCS	1.00000	957590	
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/040b4001.d	1202053319	ms	26-FEB-2010	13:53	10-1911.sub	RE15-10-8246MS	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/041b4101.d	1202053320	msd	26-FEB-2010	14:06	10-1911.sub	RE15-10-8246MSD	1.00000	957590	UPLOAD BOTH, USE HIGHER

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346006	Date Received:	02/18/2010 08:45	%Moisture:	1.7
Client ID:	RE15-10-8240	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:32	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	048f4801.d	Aliquot:	30.07 g	Final Volume:	1 mL
	048b4801.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346007	Date Received:	02/18/2010 08:45	%Moisture:	1.2
Client ID:	RE15-10-8241	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:45	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	049f4901.d	Aliquot:	30.01 g	Final Volume:	1 mL
	049b4901.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346005	Date Received:	02/18/2010 08:45	%Moisture:	1.4
Client ID:	RE15-10-8242	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:20	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	047f4701.d	Aliquot:	30.11 g	Final Volume:	1 mL
	047b4701.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346003	Date Received:	02/18/2010 08:45	%Moisture:	1.5
Client ID:	RE15-10-8243	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 14:31	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	043f4301.d	Aliquot:	30.02 g	Final Volume:	1 mL
	043b4301.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1911
Lab Sample ID: 247346004

Date Collected: 02/13/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.04 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 5
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8244
Batch ID: 957590
Run Date: 02/26/2010 15:08
Prep Date: 02/25/2010 21:15
Data File: 046f4601.d
046b4601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	17.0	ug/kg	5.67	17.0	1
11104-28-2	Aroclor-1221	U	17.0	ug/kg	5.67	17.0	1
11141-16-5	Aroclor-1232	U	17.0	ug/kg	5.67	17.0	1
53469-21-9	Aroclor-1242	U	17.0	ug/kg	5.67	17.0	1
12672-29-6	Aroclor-1248	U	17.0	ug/kg	5.67	17.0	1
11097-69-1	Aroclor-1254	U	17.0	ug/kg	5.67	17.0	1
11096-82-5	Aroclor-1260	U	17.0	ug/kg	5.67	17.0	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346002	Date Received:	02/18/2010 08:45	%Moisture:	1
Client ID:	RE15-10-8245	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 14:18	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	042f4201.d	Aliquot:	30.06 g	Final Volume:	1 mL
	042b4201.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.36	ug/kg	1.12	3.36	1
11104-28-2	Aroclor-1221	U	3.36	ug/kg	1.12	3.36	1
11141-16-5	Aroclor-1232	U	3.36	ug/kg	1.12	3.36	1
53469-21-9	Aroclor-1242	J	3.20	ug/kg	1.12	3.36	1
12672-29-6	Aroclor-1248	U	3.36	ug/kg	1.12	3.36	1
11097-69-1	Aroclor-1254	J	1.80	ug/kg	1.12	3.36	1
11096-82-5	Aroclor-1260	U	3.36	ug/kg	1.12	3.36	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346001	Date Received:	02/18/2010 08:45	%Moisture:	1.6
Client ID:	RE15-10-8246	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 13:41	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	039f3901.d	Aliquot:	30.01 g	Final Volume:	1 mL
	039b3901.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346008	Date Received:	02/18/2010 08:45	%Moisture:	1.2
Client ID:	RE15-10-8267	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:57	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	050f5001.d	Aliquot:	30.02 g	Final Volume:	1 mL
	050b5001.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1911**Matrix Type: SOLID****CAP Column (1) : CLP1****CAP Column (2) : CLP2**

Sample ID	Client ID	4CMX 1 %REC #	4CMX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #
1202053317	MB for batch 957587	87	92	86	92
1202053318	LCS for batch 957587	78	85	84	88
247346001	RE15-10-8246	84	88	84	90
1202053319	RE15-10-8246MS	90	92	84	90
1202053320	RE15-10-8246MSD	82	85	81	86
247346002	RE15-10-8245	83	86	82	88
247346003	RE15-10-8243	82	86	79	83
247346004	RE15-10-8244	63 D	66 D	71 D	71 D
247346005	RE15-10-8242	77	81	77	83
247346006	RE15-10-8240	79	83	78	83
247346007	RE15-10-8241	76	81	80	85
247346008	RE15-10-8267	84	88	82	87

Surrogate**Acceptance Limits**

4CMX = 4cmx

(32%-120%)

DCB = Decachlorobiphenyl

(30%-116%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

PCB

Page 1 of 1

**Quality Control Summary
Spike Recovery Report****SDG Number: 10-1911****Sample Type: Laboratory Control Sample****Client ID: LCS for batch 957587****Matrix: SOIL****Lab Sample ID:1202053318****Instrument: ECD8A.I****Analysis Date: 02/26/2010 10:48****Dilution: 1****Analyst: JAOC****Prep Batch ID: 957587****Inj. Vol: 1 uL****Batch ID: 957590**

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	26.4	79	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	31.8	95	45-118

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1911

Sample Type: Matrix Spike

Client ID: RE15-10-8246MS

Matrix: R

Lab Sample ID:1202053319

%Moisture: 1.6

Instrument: ECD8A.I

Analysis Date: 02/26/2010 13:53

Dilution: 1

Analyst: JAOC

Prep Batch ID: 957587

Inj. Vol: 1 uL

Batch ID: 957590

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	33.7	0.00 U	27.4	81	23-119
11096-82-5	MS Aroclor-1260	33.7	0.00 U	31.7	94	28-124

PCB

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**Quality Control Summary
Spike Recovery Report****SDG Number: 10-1911****Sample Type: Matrix Spike Duplicate****Client ID: RE15-10-8246MSD****Matrix: R****Lab Sample ID:1202053320****%Moisture: 1.6****Instrument: ECD8A.I****Analysis Date: 02/26/2010 14:06****Dilution: 1****Analyst: JAOC****Prep Batch ID: 957587****Inj. Vol: 1 uL****Batch ID: 957590**

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
12674-11-2	MSD Aroclor-1016	33.7	0.00 U	26.4	78	23-119	4	0-28
11096-82-5	MSD Aroclor-1260	33.7	0.00 U	31.2	93	28-124	2	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1911	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 957587	Instrument ID:	ECD8A.I_2	Data File:	024b2401-1.d
Lab Sample ID:	1202053317		ECD8A.I_1		024f2401-1.d
Column:	CLP2	Prep Date:	02/25/2010 21:15	Analyzed:	02/26/10 10:36
	CLP1	Level:	LOW		

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 957587	1202053318	025f2501-1.d 025b2501-1.d	02/26/10	1048
02 RE15-10-8246	247346001	039f3901.d 039b3901.d	02/26/10	1341
03 RE15-10-8246MS	1202053319	040f4001.d 040b4001.d	02/26/10	1353
04 RE15-10-8246MSD	1202053320	041f4101.d 041b4101.d	02/26/10	1406
05 RE15-10-8245	247346002	042f4201.d 042b4201.d	02/26/10	1418
06 RE15-10-8243	247346003	043f4301.d 043b4301.d	02/26/10	1431
07 RE15-10-8244	247346004	046f4601.d 046b4601.d	02/26/10	1508
08 RE15-10-8242	247346005	047f4701.d 047b4701.d	02/26/10	1520
09 RE15-10-8240	247346006	048f4801.d 048b4801.d	02/26/10	1532
10 RE15-10-8241	247346007	049f4901.d 049b4901.d	02/26/10	1545
11 RE15-10-8267	247346008	050f5001.d 050b5001.d	02/26/10	1557

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346006	Date Received:	02/18/2010 08:45	%Moisture:	1.7
Client ID:	RE15-10-8240	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:32	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	048f4801.d	Aliquot:	30.07 g	Final Volume:	1 mL
	048b4801.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

Data File: /chem/ecd8a.i/022610.b/048f4801.d
Report Date: 01-Mar-2010 08:10

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/048f4801.d

Lab Smp Id: 247346006 Client Smp ID: RE15-10-8240

Inj Date : 26-FEB-2010 15:32

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |247346006|1|

Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8240|||

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d

Als bottle: 48

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1911.sub

Target Version: 3.50

Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	1.66000	% Moisture

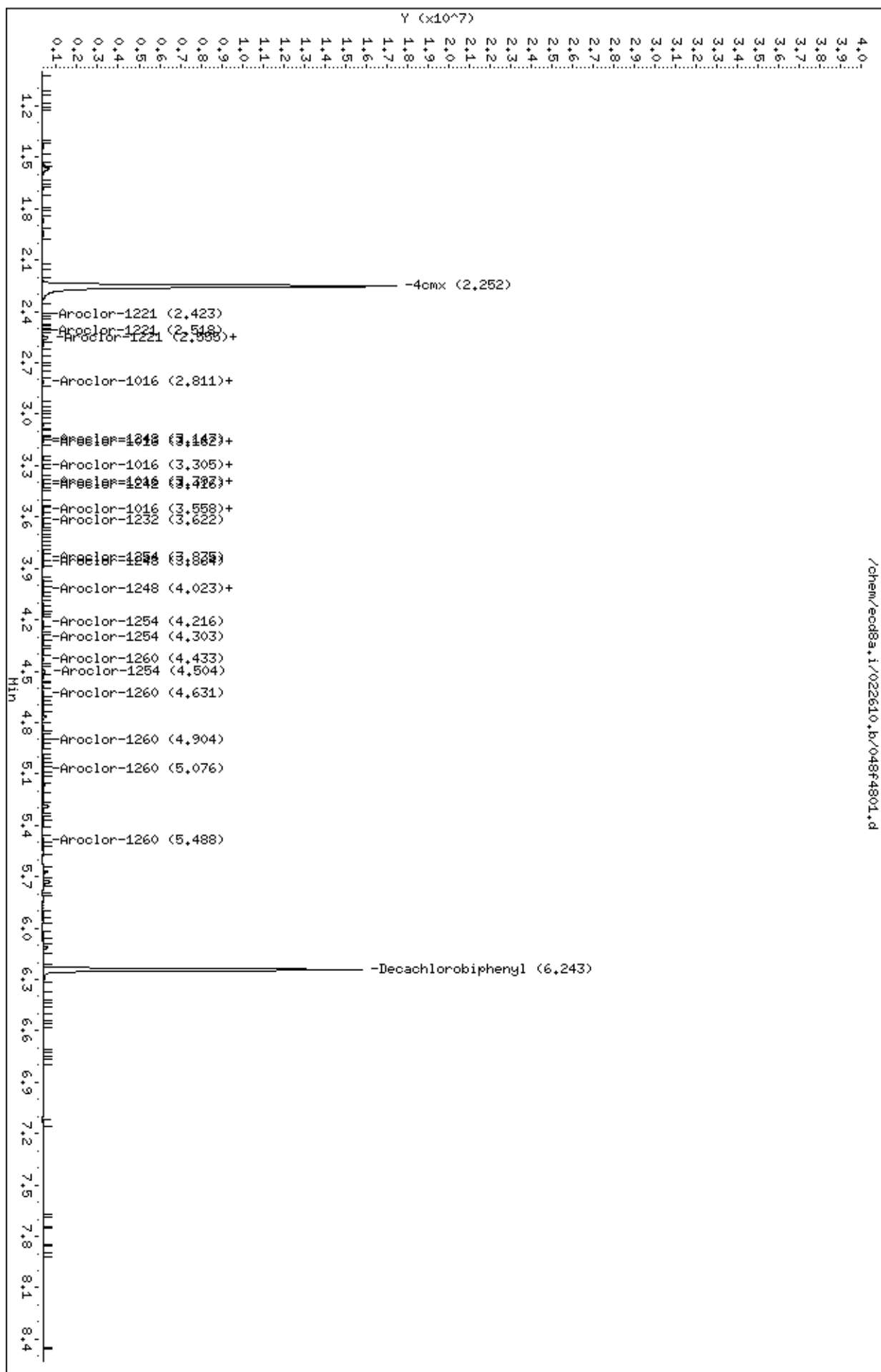
Cpnd Variable Local Compound Variable

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx						CAS #:	877-09-8		
2.252	2.251	0.001	19807898	157.194	5.3	80.00-	120.00	100.00	

\$ 12 Decachlorobiphenyl						CAS #:	2051-24-3		
6.243	6.245	-0.002	14037781	155.426	5.2	80.00-	120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/048f4801.d
 Date : 26-FEB-2010 15:32
 Client ID: RE15-10-8240
 Sample Info: 124734600611
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/048b4801.d
Report Date: 01-Mar-2010 08:10

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/048b4801.d
Lab Smp Id: 247346006 Client Smp ID: RE15-10-8240
Inj Date : 26-FEB-2010 15:32
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346006|1|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8240|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 48
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	1.66000	% Moisture

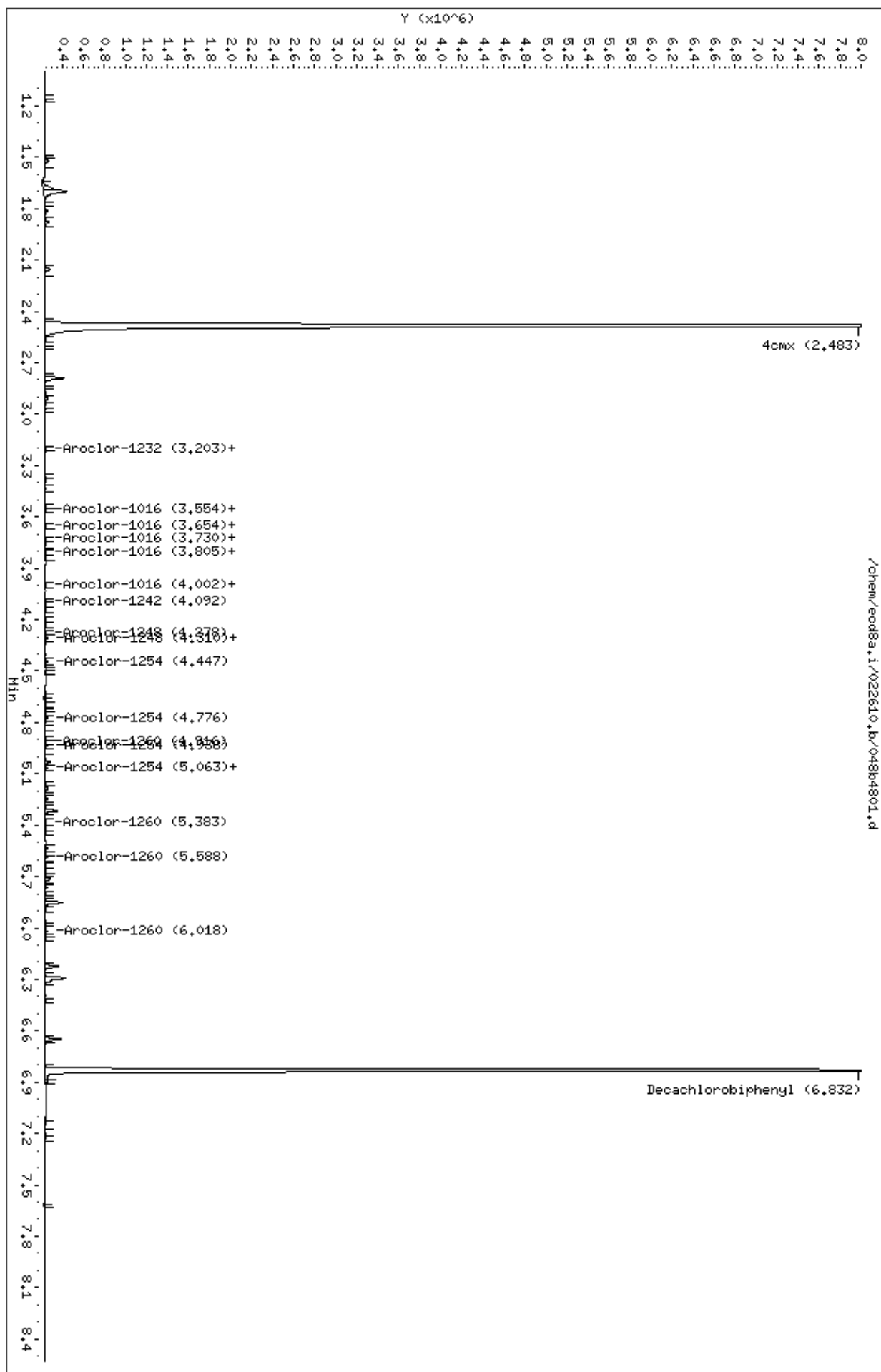
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.483	2.482	0.001	13689606 165.985	5.6	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.832	6.832	0.000	10199580 165.476	5.6	80.00- 120.00	100.00	

Data File: /chem/ecod8a.i/022610.b/048b4801.d
Date : 26-FEB-2010 15:32
Client ID: RE15-10-8240
Sample Info: 124734600611
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecod8a.i
Operator: JAOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346007	Date Received:	02/18/2010 08:45	%Moisture:	1.2
Client ID:	RE15-10-8241	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:45	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	049f4901.d	Aliquot:	30.01 g	Final Volume:	1 mL
	049b4901.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

Data File: /chem/ecd8a.i/022610.b/049f4901.d
Report Date: 01-Mar-2010 09:52

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/049f4901.d
Lab Smp Id: 247346007 Client Smp ID: RE15-10-8241
Inj Date : 26-FEB-2010 15:45
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346007|1|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8241|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	1.16730	% Moisture

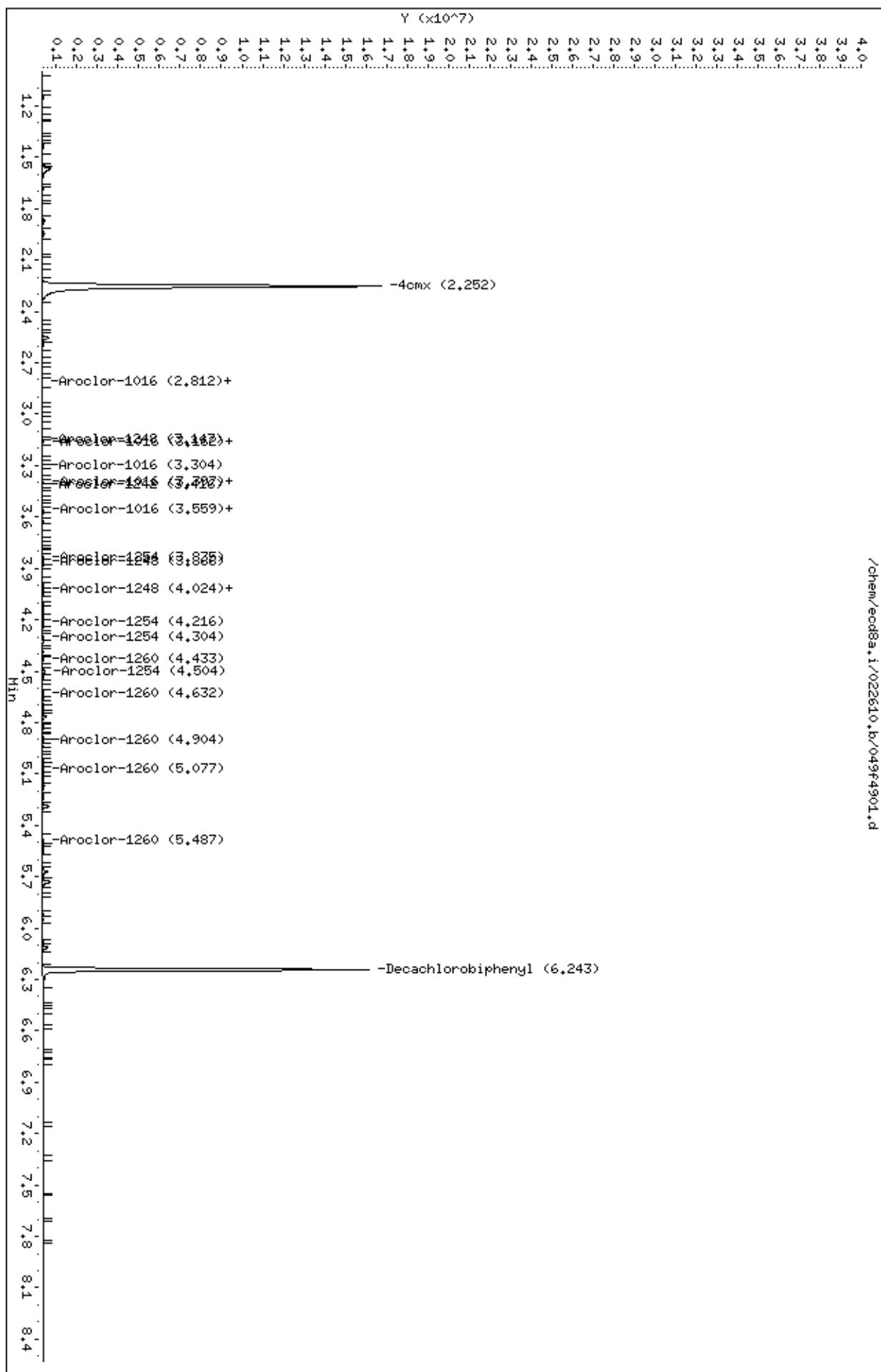
Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx						CAS #: 877-09-8		
2.252	2.251	0.001	19276601	152.977	5.2	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3		
6.243	6.245	-0.002	14466653	160.174	5.4	80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/049f4901.d
 Date : 26-FEB-2010 15:45
 Client ID: RE15-10-8241
 Sample Info: 124734600711
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/049b4901.d
Report Date: 01-Mar-2010 08:10

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/049b4901.d
Lab Smp Id: 247346007 Client Smp ID: RE15-10-8241
Inj Date : 26-FEB-2010 15:45
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346007|1|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8241|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	1.16730	% Moisture

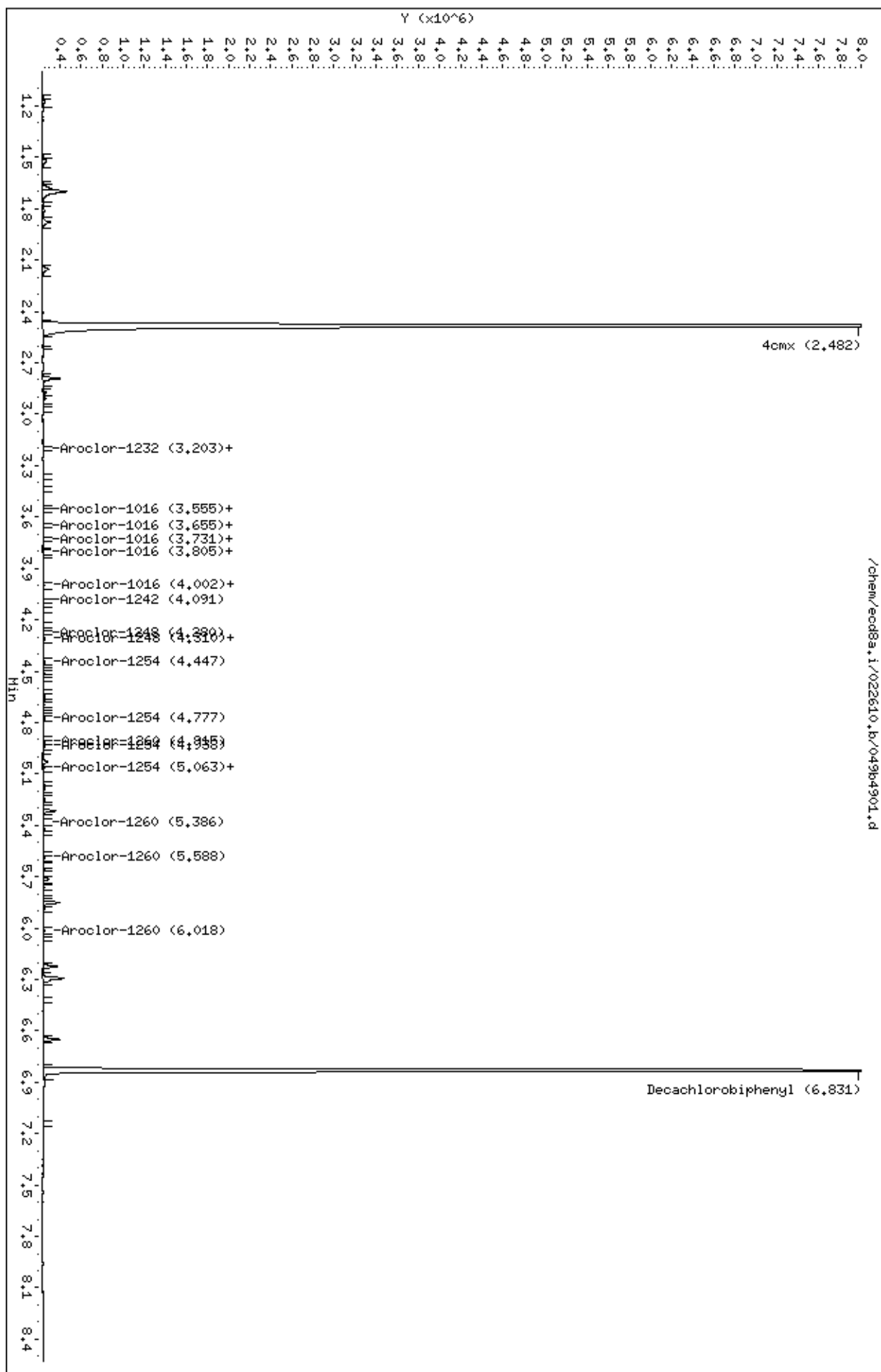
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.482	2.482	0.000	13375735 162.179	5.5	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.831	6.832	-0.001	10511162 170.532	5.7	80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/049b4901.d
 Date : 26-FEB-2010 15:45
 Client ID: RE15-10-8241
 Sample Info: 124734600711
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346005	Date Received:	02/18/2010 08:45	%Moisture:	1.4
Client ID:	RE15-10-8242	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 15:20	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	047f4701.d	Aliquot:	30.11 g	Final Volume:	1 mL
	047b4701.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

Data File: /chem/ecd8a.i/022610.b/047f4701.d
Report Date: 01-Mar-2010 09:51

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/047f4701.d
Lab Smp Id: 247346005 Client Smp ID: RE15-10-8242
Inj Date : 26-FEB-2010 15:20
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346005|1|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8242|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 47
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.11000	Weight of sample extracted (g)
M	1.35310	% Moisture

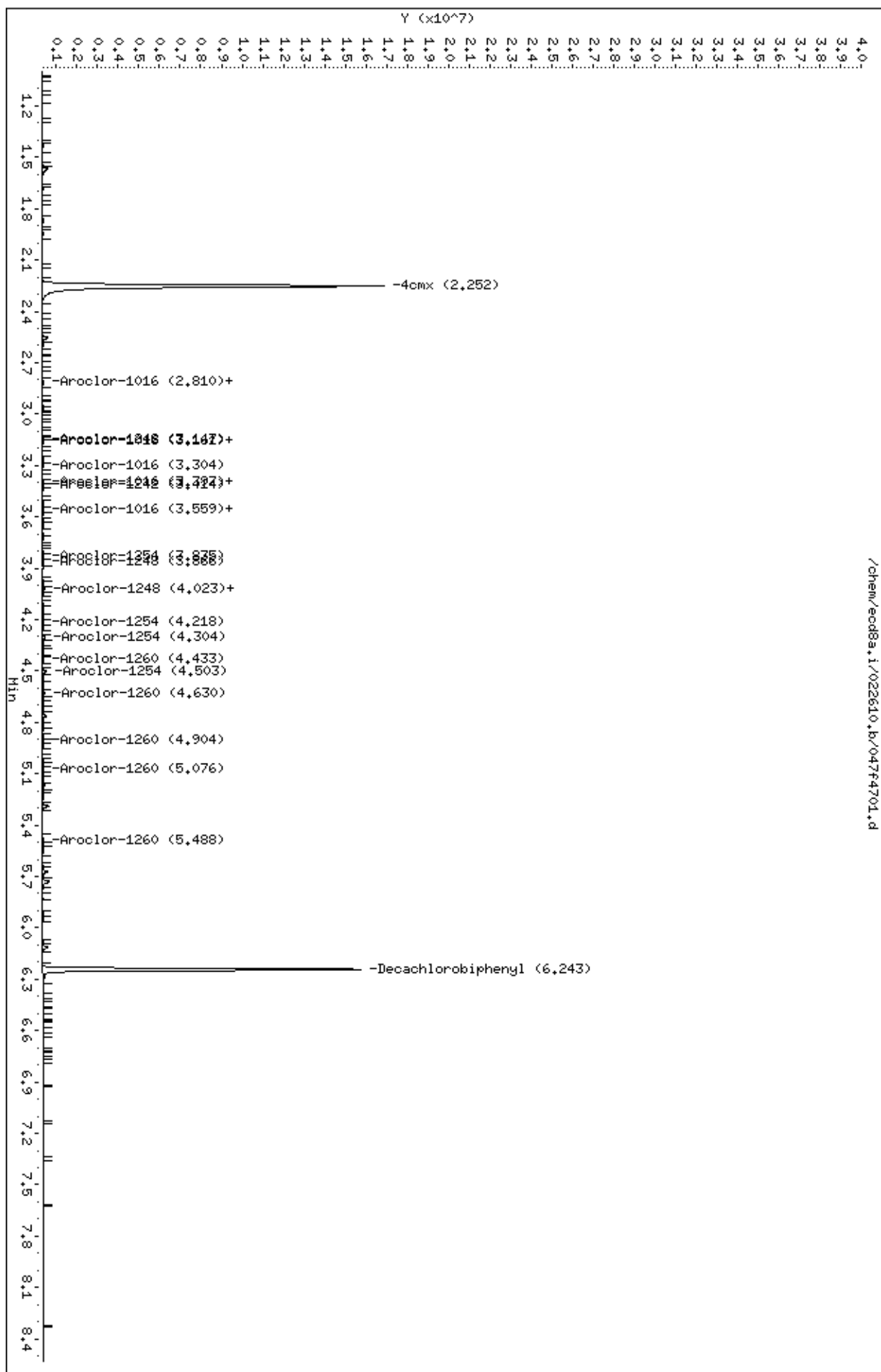
Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx CAS #: 877-09-8								
2.252	2.251	0.001	19396904	153.932	5.2	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3								
6.243	6.245	-0.002	13972995	154.709	5.2	80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/047f4701.d
 Date : 26-FEB-2010 15:20
 Client ID: RE15-10-8242
 Sample Info: 124734600511
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/047b4701.d
Report Date: 01-Mar-2010 08:10

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/047b4701.d
Lab Smp Id: 247346005 Client Smp ID: RE15-10-8242
Inj Date : 26-FEB-2010 15:20
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346005|1|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8242|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 47
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.11000	Weight of sample extracted (g)
M	1.35310	% Moisture

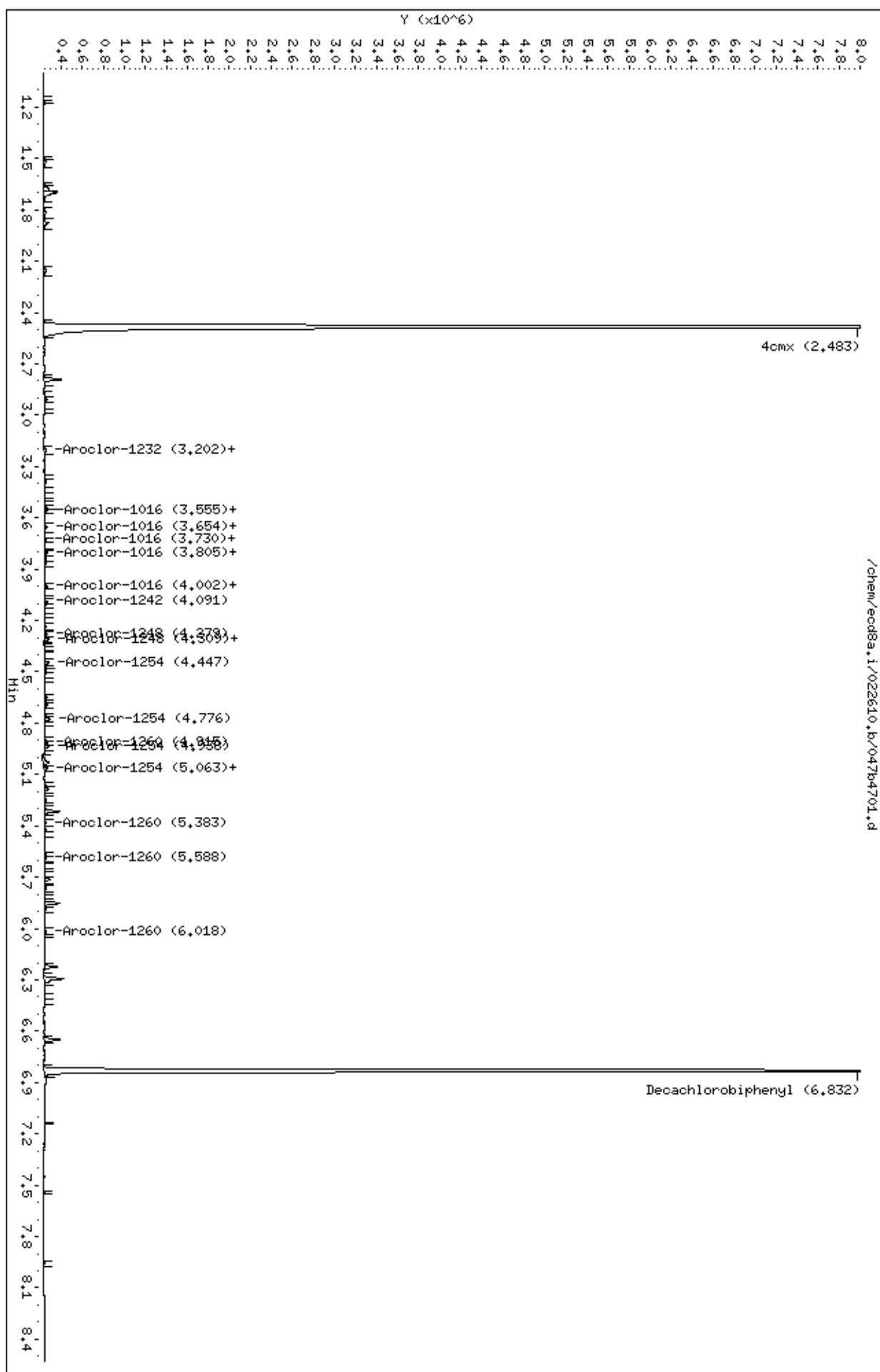
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.483	2.482	0.001	13324955 161.564	5.4	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.832	6.832	0.000	10245588 166.223	5.6	80.00- 120.00	100.00	

Data File: /chem/ecod8a.i/022610.b/047b4701.d
Date : 26-FEB-2010 15:20
Client ID: RE15-10-8242
Sample Info: 124734600511
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecod8a.i
Operator: JAOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	247346003	Date Received:	02/18/2010 08:45	%Moisture:	1.5
Client ID:	RE15-10-8243	Client:	LANL010	Project:	LANL01004
Batch ID:	957590	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/26/2010 14:31	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/25/2010 21:15	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	043f4301.d	Aliquot:	30.02 g	Final Volume:	1 mL
	043b4301.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

Data File: /chem/ecd8a.i/022610.b/043f4301.d
Report Date: 01-Mar-2010 09:51

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/043f4301.d

Lab Smp Id: 247346003

Client Smp ID: RE15-10-8243

Inj Date : 26-FEB-2010 14:31

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247346003|1|

Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8243|||

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 43

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1911.sub

Target Version: 3.50

Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	1.54000	% Moisture

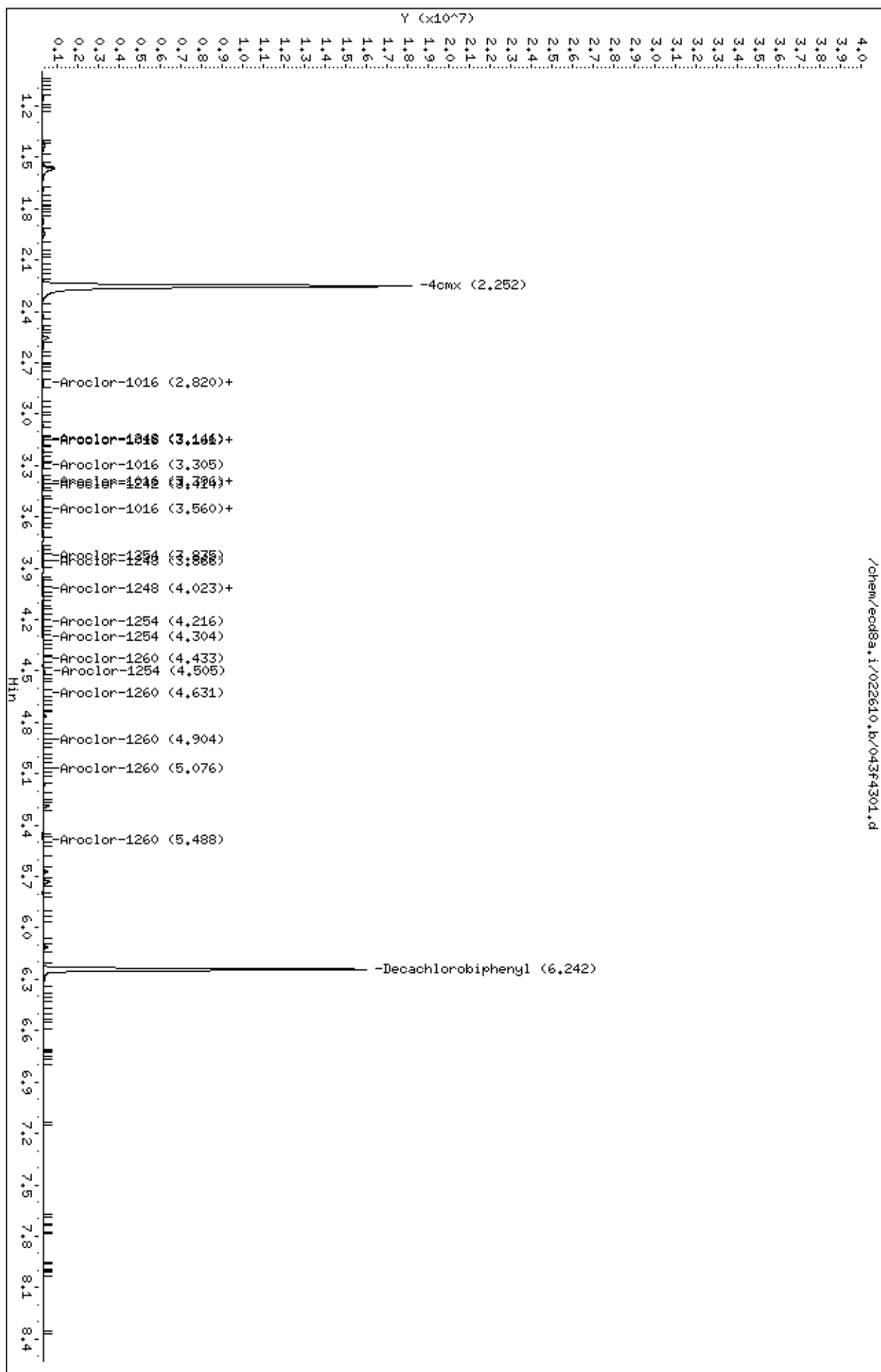
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.252	2.251	0.001	20633982	163.750	5.5 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.242	6.245	-0.003	14198921	157.210	5.3 80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/043f4301.d
 Date : 26-FEB-2010 14:31
 Client ID: RE15-10-8243
 Sample Info: 124734600311
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/043b4301.d
Report Date: 01-Mar-2010 08:09

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/043b4301.d
Lab Smp Id: 247346003 Client Smp ID: RE15-10-8243
Inj Date : 26-FEB-2010 14:31
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346003|1|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8243|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 43
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	1.54000	% Moisture

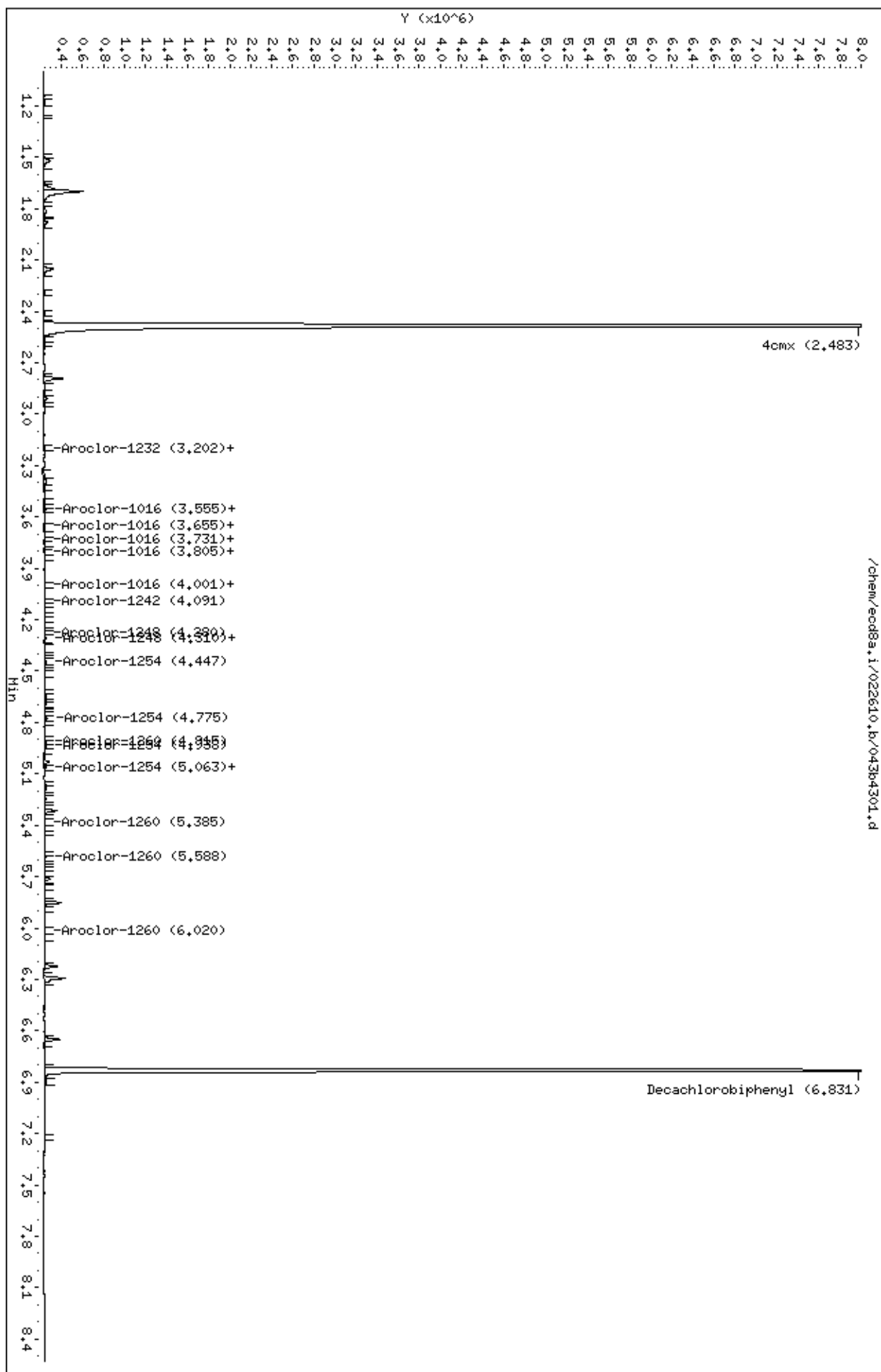
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.483	2.482	0.001	14144877	171.505	5.8 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.831	6.832	-0.001	10264534	166.530	5.6 80.00- 120.00	100.00	

Data File: /chem/ecod8a.i/022610.b/043b4301.d
 Date : 26-FEB-2010 14:31
 Client ID: RE15-10-8243
 Sample Info: 124734600311
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecod8a.i
 Operator: JAOC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1911
Lab Sample ID: 247346004

Date Collected: 02/13/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.04 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 5
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	17.0	ug/kg	5.67	17.0	1
11104-28-2	Aroclor-1221	U	17.0	ug/kg	5.67	17.0	1
11141-16-5	Aroclor-1232	U	17.0	ug/kg	5.67	17.0	1
53469-21-9	Aroclor-1242	U	17.0	ug/kg	5.67	17.0	1
12672-29-6	Aroclor-1248	U	17.0	ug/kg	5.67	17.0	1
11097-69-1	Aroclor-1254	U	17.0	ug/kg	5.67	17.0	1
11096-82-5	Aroclor-1260	U	17.0	ug/kg	5.67	17.0	1

Data File: /chem/ecd8a.i/022610.b/046f4601.d
Report Date: 01-Mar-2010 08:10

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/046f4601.d

Lab Smp Id: 247346004

Client Smp ID: RE15-10-8244

Inj Date : 26-FEB-2010 15:08

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247346004|5|

Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8244|||

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 46

Dil Factor: 5.00000

Integrator: Falcon

Compound Sublist: 10-1911.sub

Target Version: 3.50

Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.04000	Weight of sample extracted (g)
M	2.23180	% Moisture

Cpnd Variable Local Compound Variable

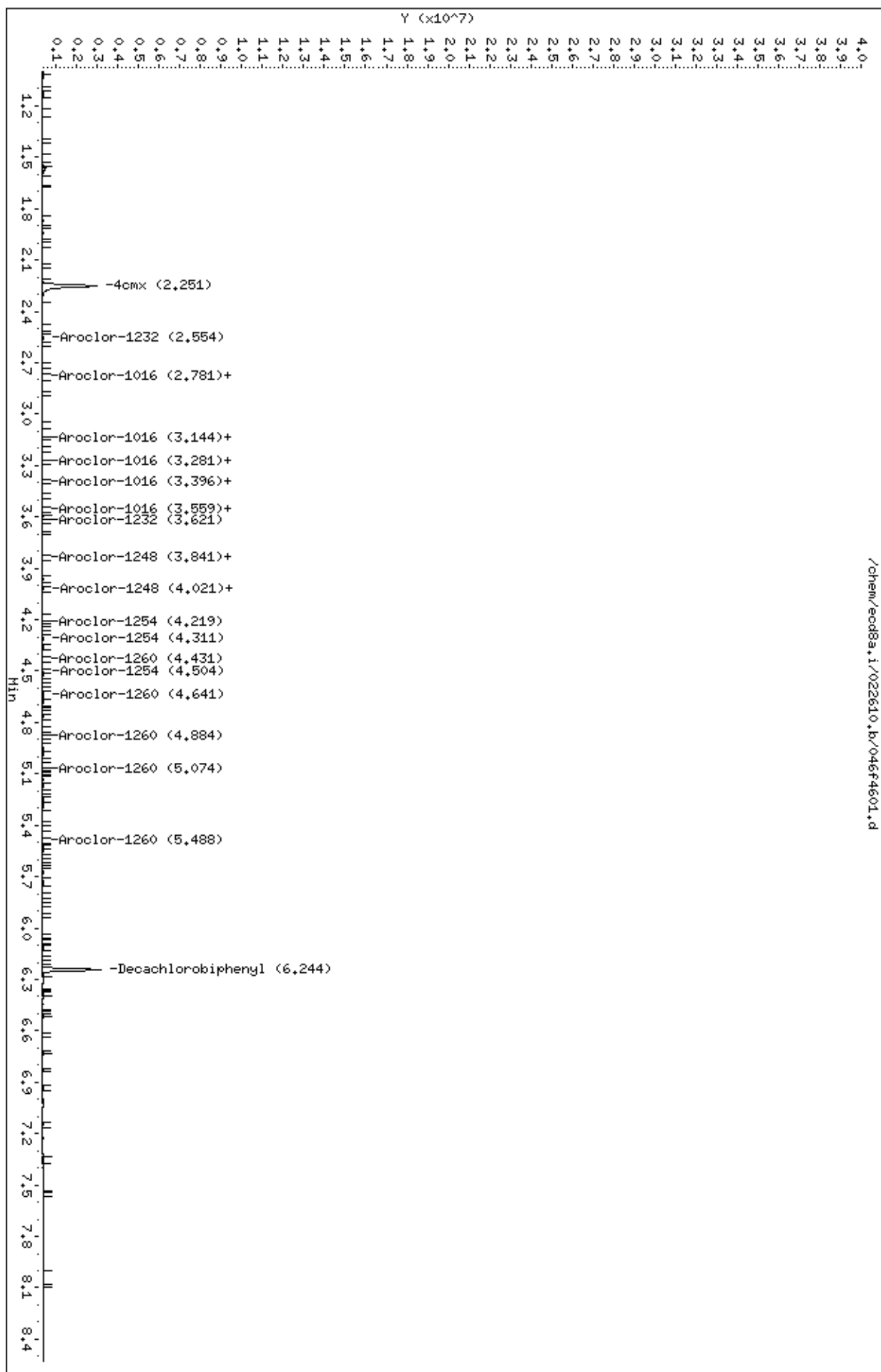
CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	

\$ 11	4cmx					CAS #:	877-09-8		
2.251	2.251	0.000	3197307	25.3736	4.3	80.00-	120.00	100.00	

\$ 12	Decachlorobiphenyl					CAS #:	2051-24-3		
6.244	6.245	-0.001	2582334	28.5915	4.9	80.00-	120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/046f4601.d
 Date : 26-FEB-2010 15:08
 Client ID: RE15-10-8244
 Sample Info: 1247346004151
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/046b4601.d
Report Date: 01-Mar-2010 08:10

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/046b4601.d
Lab Smp Id: 247346004 Client Smp ID: RE15-10-8244
Inj Date : 26-FEB-2010 15:08
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346004|5|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8244|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 46
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.04000	Weight of sample extracted (g)
M	2.23180	% Moisture

Cpnd Variable Local Compound Variable

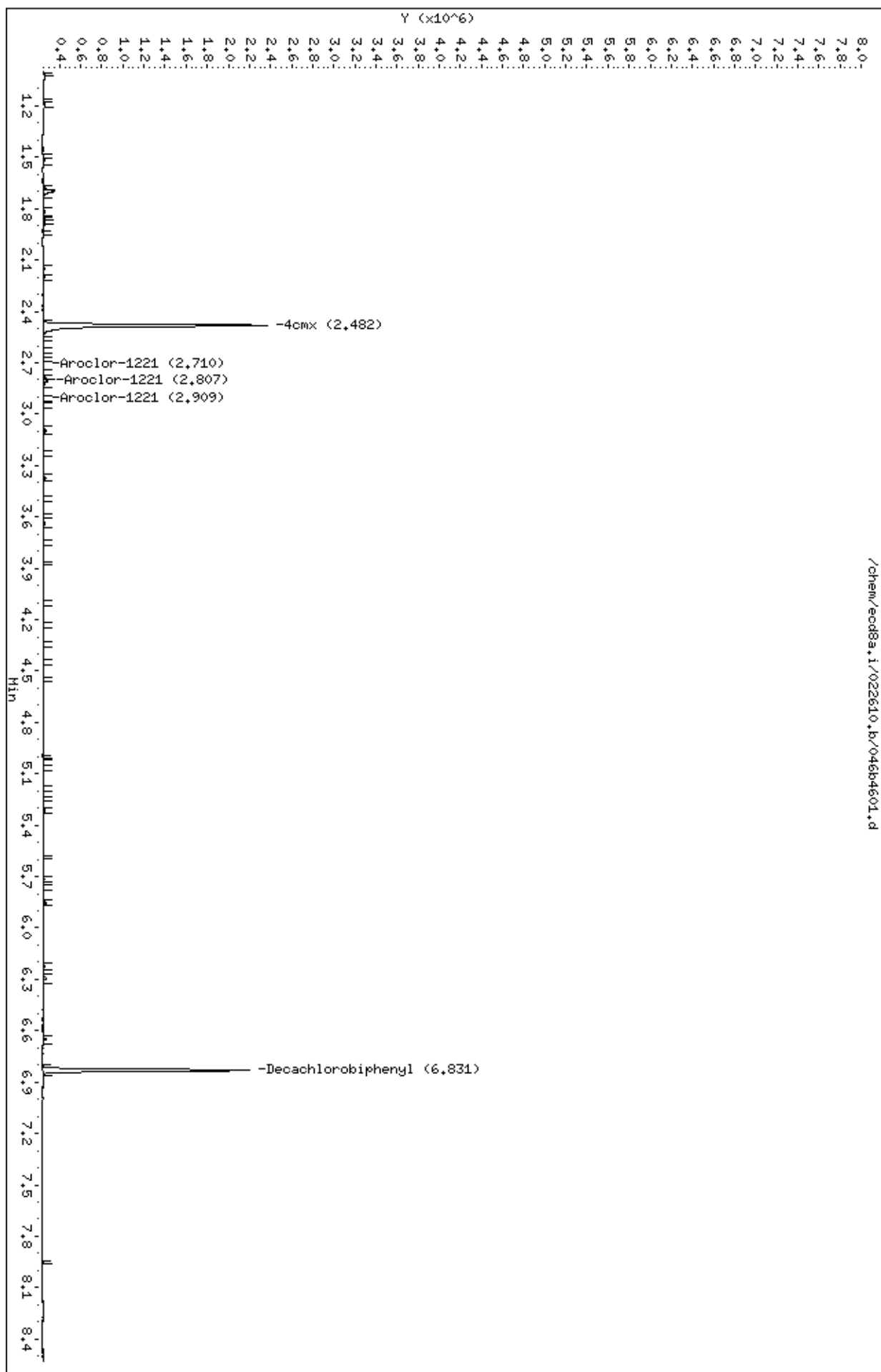
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.482	2.482	0.000	2171851 26.3335	4.5	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.831	6.832	-0.001	1738402 28.2036	4.8	80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/046b4601.d
Date : 26-FEB-2010 15:08
Client ID: RE15-10-8244
Sample Info: 1247346004151
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1911
Lab Sample ID: 247346002

Date Collected: 02/13/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.06 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8245
Batch ID: 957590
Run Date: 02/26/2010 14:18
Prep Date: 02/25/2010 21:15
Data File: 042f4201.d
042b4201.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.36	ug/kg	1.12	3.36	1
11104-28-2	Aroclor-1221	U	3.36	ug/kg	1.12	3.36	1
11141-16-5	Aroclor-1232	U	3.36	ug/kg	1.12	3.36	1
53469-21-9	Aroclor-1242	J	3.20	ug/kg	1.12	3.36	1
12672-29-6	Aroclor-1248	U	3.36	ug/kg	1.12	3.36	1
11097-69-1	Aroclor-1254	J	1.80	ug/kg	1.12	3.36	1
11096-82-5	Aroclor-1260	U	3.36	ug/kg	1.12	3.36	1

Data File: /chem/ecd8a.i/022610.b/042f4201.d
Report Date: 01-Mar-2010 09:50

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/042f4201.d

Lab Smp Id: 247346002

Client Smp ID: RE15-10-8245

Inj Date : 26-FEB-2010 14:18

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247346002|1|

Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8245| |

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 42

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1911.sub

Target Version: 3.50

Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.06000	Weight of sample extracted (g)
M	0.95480	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====		=====	=====	=====	=====
\$ 11 4cmx							
				CAS #: 877-09-8			
2.251	2.251	0.000		20990822	166.581	5.6 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl							
				CAS #: 2051-24-3			
6.243	6.245	-0.002		14783297	163.680	5.5 80.00- 120.00	100.00
4 Aroclor-1242							
				CAS #: 53469-21-9			
2.810	2.809	0.001		315556	79.3981	2.7 80.00- 120.00	100.00(a)
3.161	3.161	0.000		362129	75.5043	2.5 101.91- 141.91	114.76
3.397	3.397	0.000		234862	130.084	4.4 24.88- 64.88	74.43
3.415	3.414	0.001		175313	92.8028	3.1 28.76- 68.76	55.56
3.559	3.559	0.000		259042	97.9352	3.3 47.73- 87.73	82.09
Average of Peak Concentrations =					3.2		

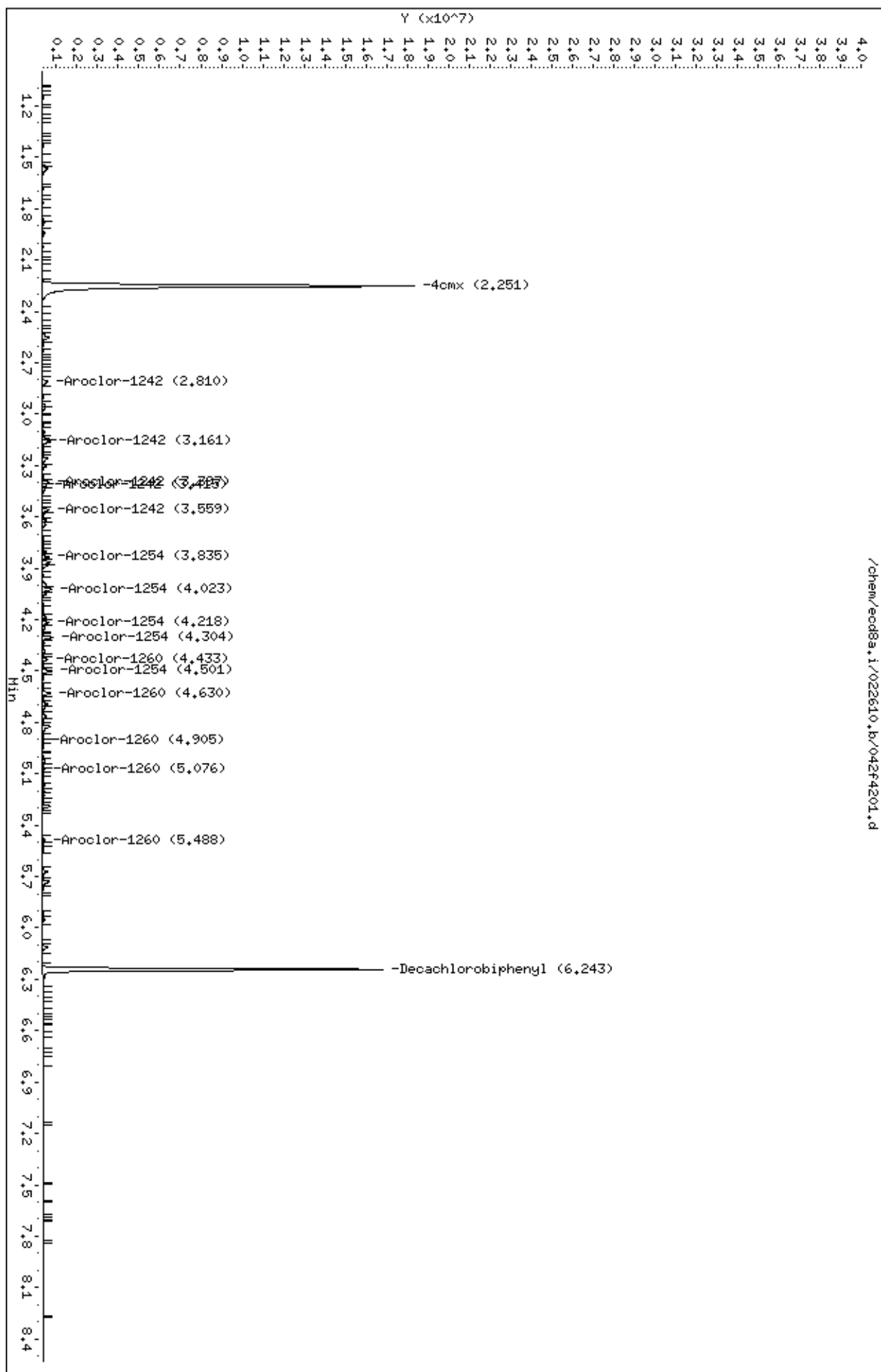
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====		=====	=====	=====	=====	=====
6 Aroclor-1254				CAS #: 11097-69-1				
3.835	3.835	0.000		253271	52.9305	1.8	80.00- 120.00	100.00(a)
4.023	4.022	0.001		418918	63.7681	2.1	116.48- 156.48	165.40
4.218	4.218	0.000		266789	51.9234	1.7	87.78- 127.78	105.34
4.304	4.305	-0.001		428172	48.6709	1.6	161.86- 201.86	169.06
4.501	4.500	0.001		403749	58.3990	2.0	117.87- 157.87	159.41
Average of Peak Concentrations =				1.8				

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/ecd8a.i/022610.b/042f4201.d
 Date : 26-FEB-2010 14:18
 Client ID: RE15-10-8245
 Sample Info: 124734600211
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/042b4201.d
Report Date: 01-Mar-2010 09:49

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/042b4201.d
Lab Smp Id: 247346002 Client Smp ID: RE15-10-8245
Inj Date : 26-FEB-2010 14:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346002|1|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8245|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 42
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.06000	Weight of sample extracted (g)
M	0.95480	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====

\$ 11	4cmx				CAS #: 877-09-8		
2.482	2.482	0.000	14198781	172.159	5.8 80.00- 120.00	100.00	

\$ 12	Decachlorobiphenyl				CAS #: 2051-24-3		
6.831	6.832	-0.001	10898988	176.824	5.9 80.00- 120.00	100.00	

4	Aroclor-1242				CAS #: 53469-21-9		
3.201	3.202	-0.001	178704	66.7516	2.2 80.00- 120.00	100.00(a)	
3.555	3.555	0.000	205399	65.7102	2.2 97.37- 137.37	114.94	
3.654	3.654	0.000	161371	75.8510	2.5 60.55- 100.55	90.30	
4.001	4.002	-0.001	138916	81.5481	2.7 44.10- 84.10	77.74	
4.091	4.092	-0.001	110974	70.8410	2.4 40.20- 80.20	62.10	
Average of Peak Concentrations =				2.4			

CONCENTRATIONS

ON-COL FINAL

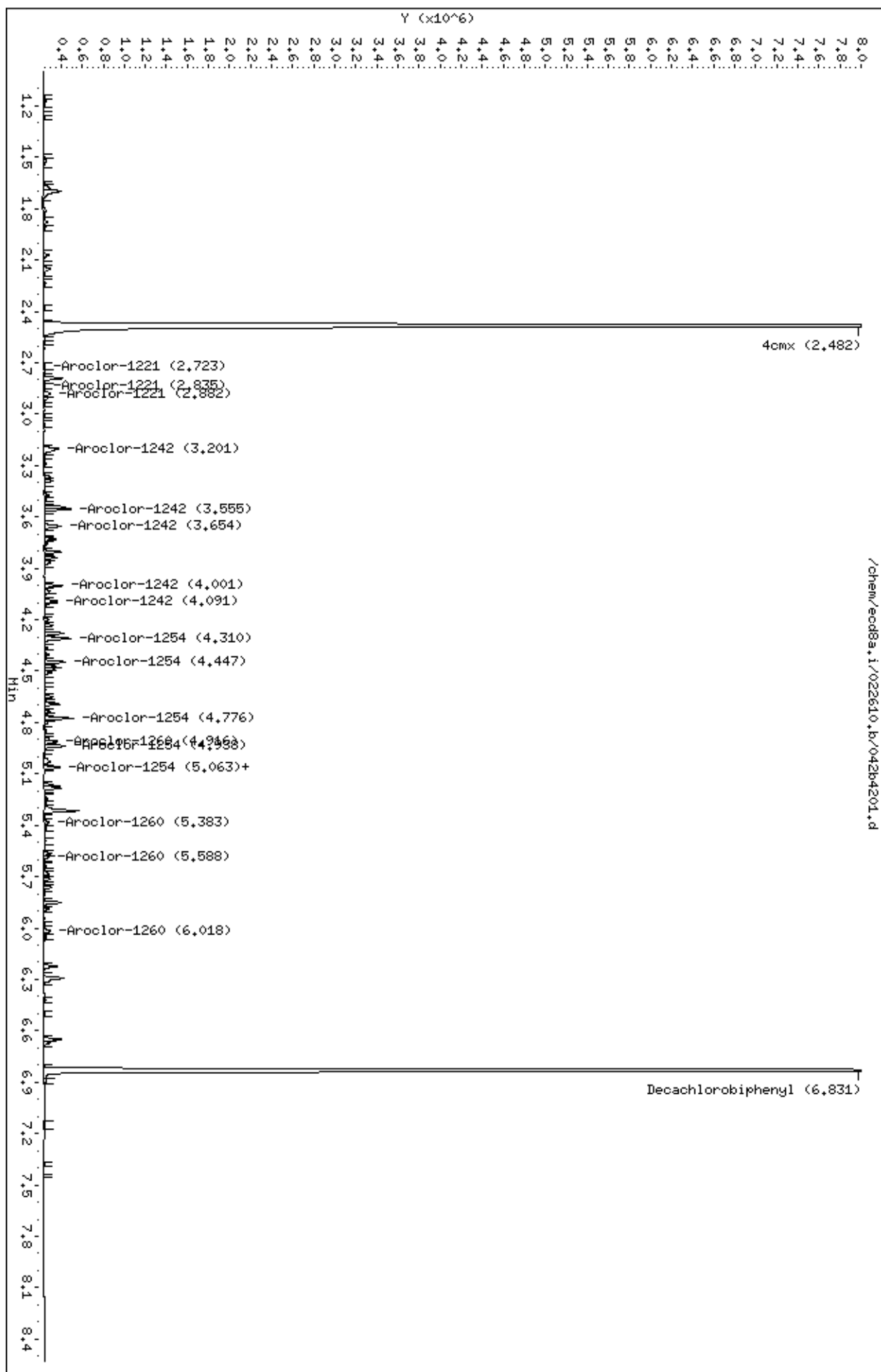
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
6 Aroclor-1254			CAS #: 11097-69-1			
4.310	4.308	0.002	237706	68.8990	2.3 80.00- 120.00	100.00(a)
4.447	4.447	0.000	172510	44.1190	1.5 92.46- 132.46	72.57
4.776	4.776	0.000	226064	41.1029	1.4 139.15- 179.15	95.10
4.938	4.938	0.000	168552	42.0253	1.4 92.95- 132.95	70.91
5.063	5.064	-0.001	134146	52.6296	1.8 51.99- 91.99	56.43
Average of Peak Concentrations =				1.7		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/ecod8a.i/022610.b/042b4201.d
 Date : 26-FEB-2010 14:18
 Client ID: RE15-10-8245
 Sample Info: 124734600211
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecod8a.i
 Operator: JAOC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1911
Lab Sample ID: 247346001

Date Collected: 02/13/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8246
Batch ID: 957590
Run Date: 02/26/2010 13:41
Prep Date: 02/25/2010 21:15
Data File: 039f3901.d
039b3901.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

Data File: /chem/ecd8a.i/022610.b/039f3901.d
Report Date: 26-Feb-2010 14:12

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/039f3901.d

Lab Smp Id: 247346001

Client Smp ID: RE15-10-8246

Inj Date : 26-FEB-2010 13:41

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247346001|1|

Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8246| |

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 39

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1911.sub

Target Version: 3.50

Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	1.56610	% Moisture

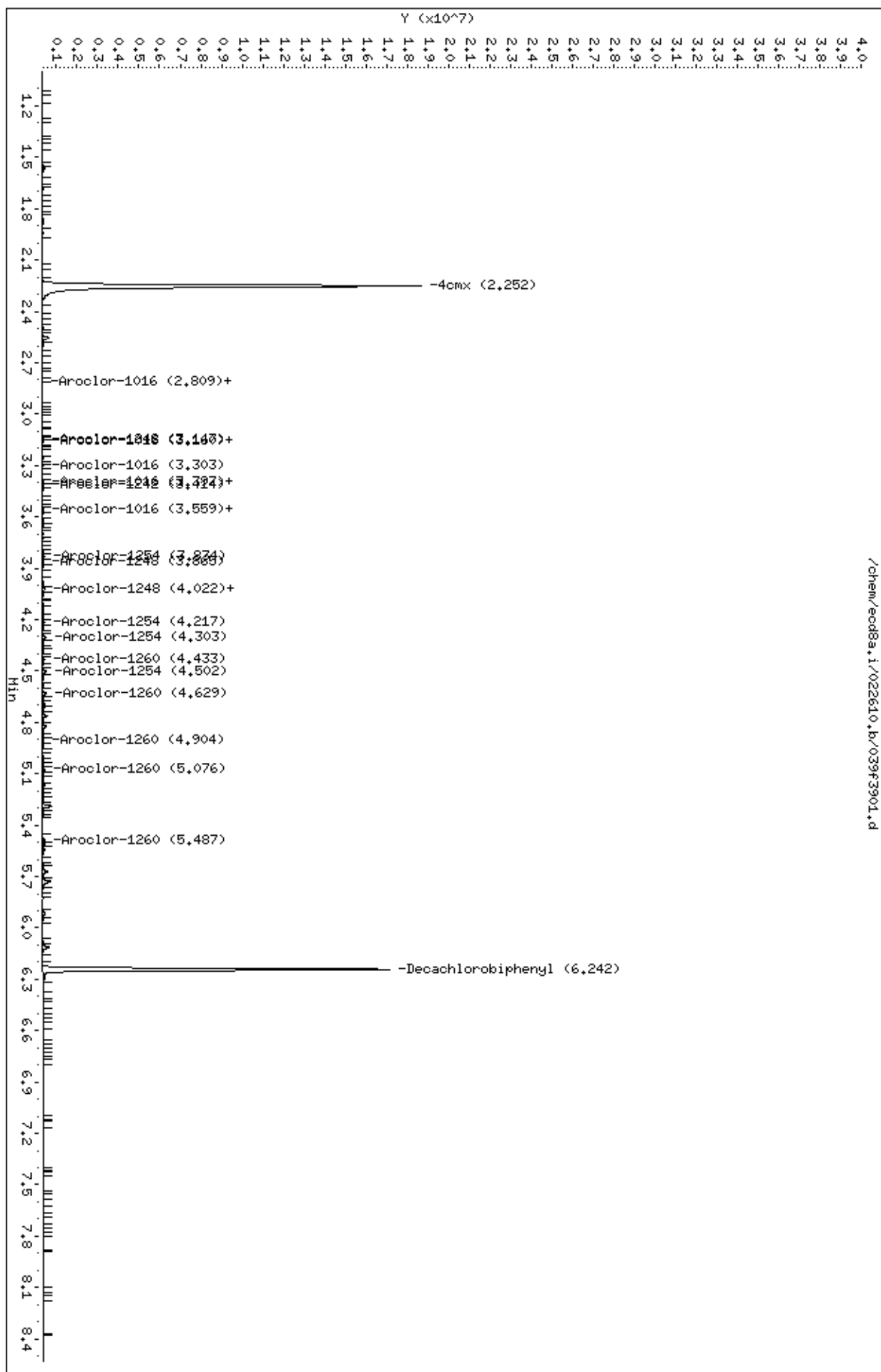
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.252	2.251	0.001	21178244	168.069	5.7 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.242	6.245	-0.003	15128708	167.505	5.7 80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/039f3901.d
 Date : 26-FEB-2010 13:41
 Client ID: RE15-10-8246
 Sample Info: 124734600111
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/039b3901.d
 Report Date: 26-Feb-2010 14:12

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/039b3901.d
 Lab Smp Id: 247346001 Client Smp ID: RE15-10-8246
 Inj Date : 26-FEB-2010 13:41
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |247346001|1|
 Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8246|||
 Comment :
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
 Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 39
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1911.sub
 Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	1.56610	% Moisture

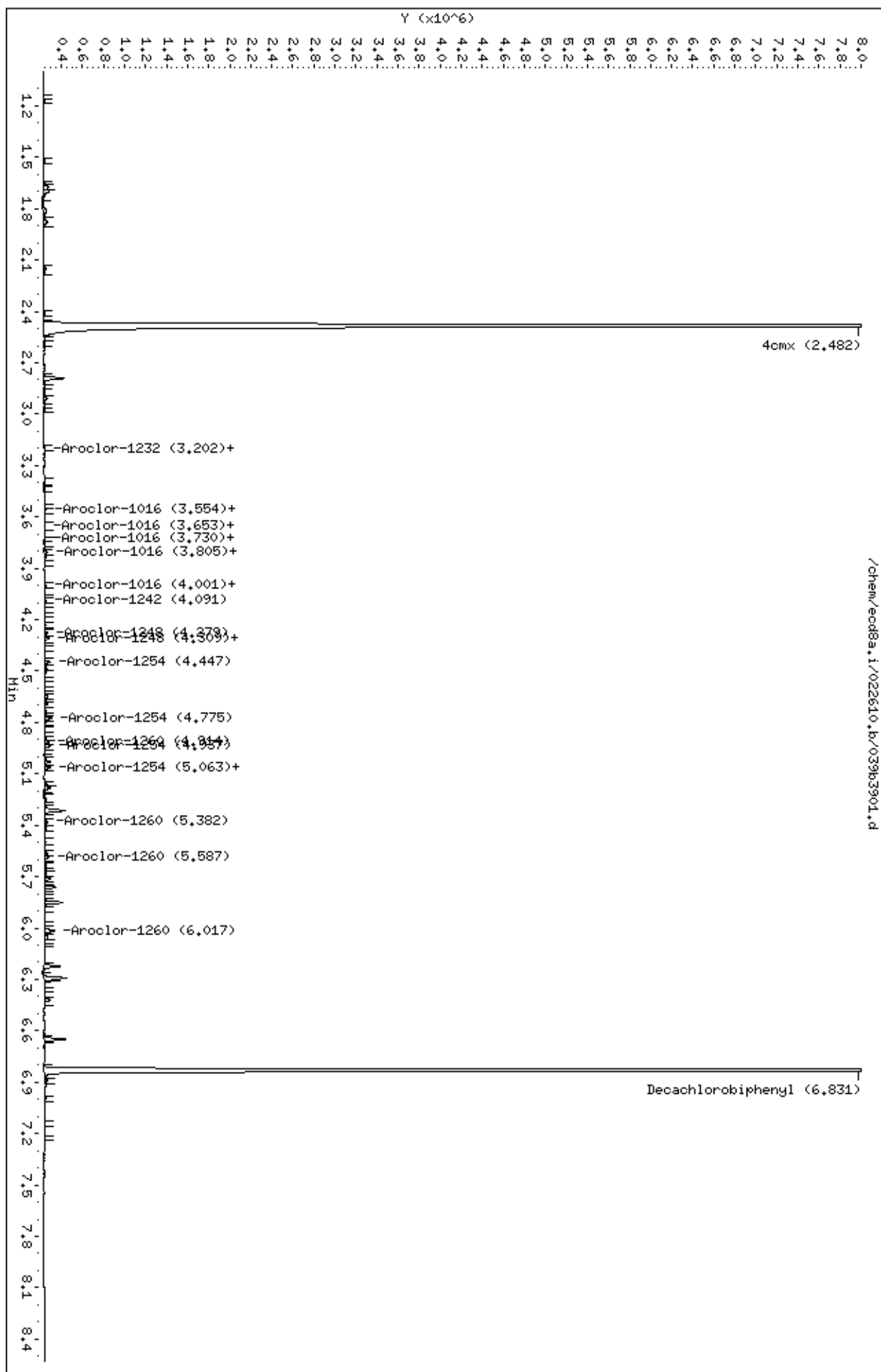
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.482	2.482	0.000	14572074	176.685	6.0 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.831	6.832	-0.001	11079342	179.750	6.1 80.00- 120.00	100.00	

Data File: /chem/ecod8a.i/022610.b/039b3901.d
 Date : 26-FEB-2010 13:41
 Client ID: RE15-10-8246
 Sample Info: 124734600111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecod8a.i
 Operator: JAOC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1911
Lab Sample ID: 247346008

Date Collected: 02/13/2010 12:00
Date Received: 02/18/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8267
Batch ID: 957590
Run Date: 02/26/2010 15:57
Prep Date: 02/25/2010 21:15
Data File: 050f5001.d
050b5001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	1

Data File: /chem/ecd8a.i/022610.b/050f5001.d
Report Date: 01-Mar-2010 08:10

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/050f5001.d
Lab Smp Id: 247346008 Client Smp ID: RE15-10-8267
Inj Date : 26-FEB-2010 15:57
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346008|1|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8267|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	1.21530	% Moisture

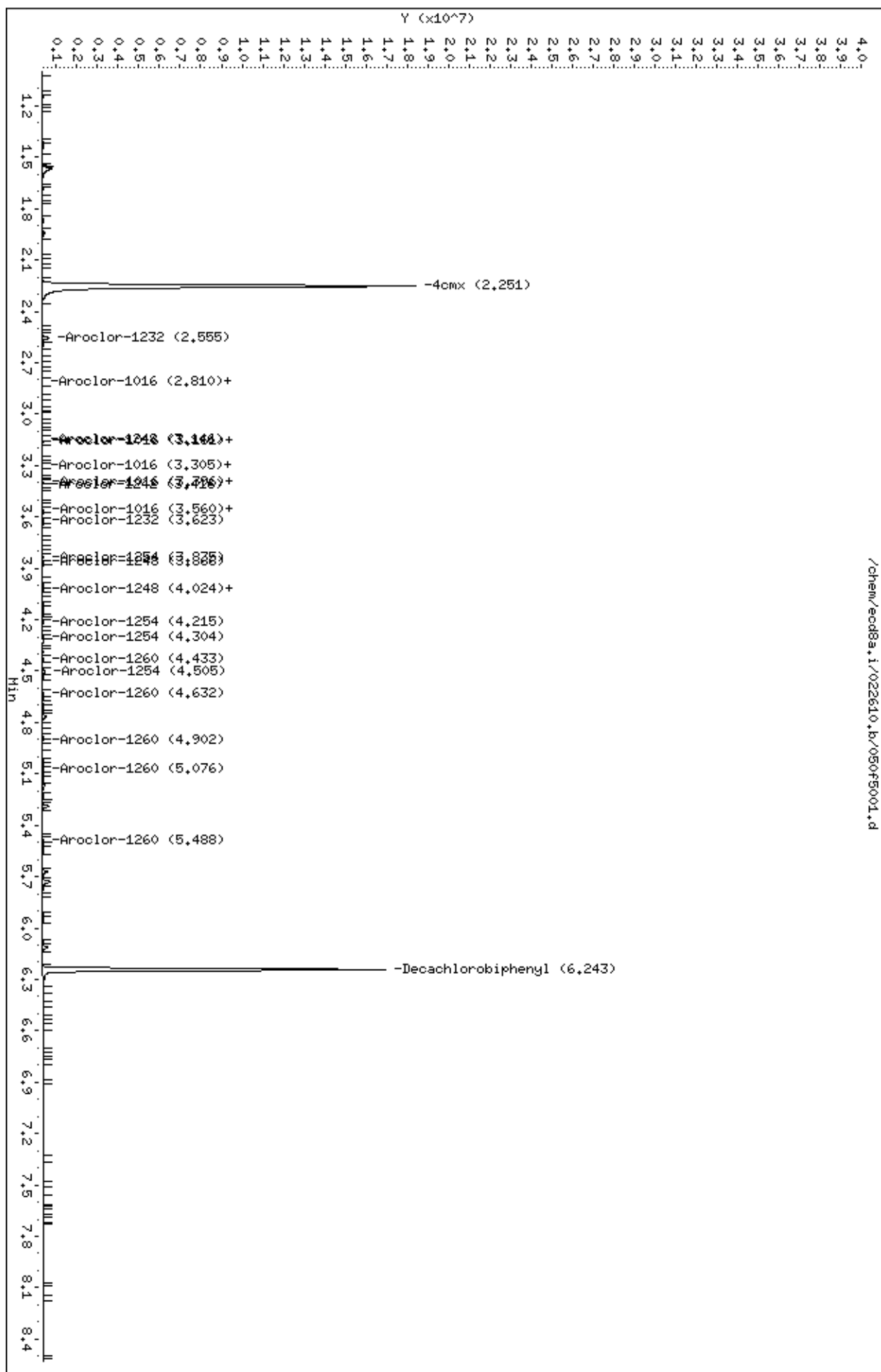
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.251	2.251	0.000	21123991 167.638	5.6	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.243	6.245	-0.002	14835958 164.263	5.5	80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/050f5001.d
 Date : 26-FEB-2010 15:57
 Client ID: RE15-10-8267
 Sample Info: 124734600811
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/050b5001.d
Report Date: 01-Mar-2010 08:10

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/050b5001.d
Lab Smp Id: 247346008 Client Smp ID: RE15-10-8267
Inj Date : 26-FEB-2010 15:57
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247346008|1|
Misc Info : |ECD82P_1S|957590|SVA|LANL|SOIL|RE15-10-8267|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	1.21530	% Moisture

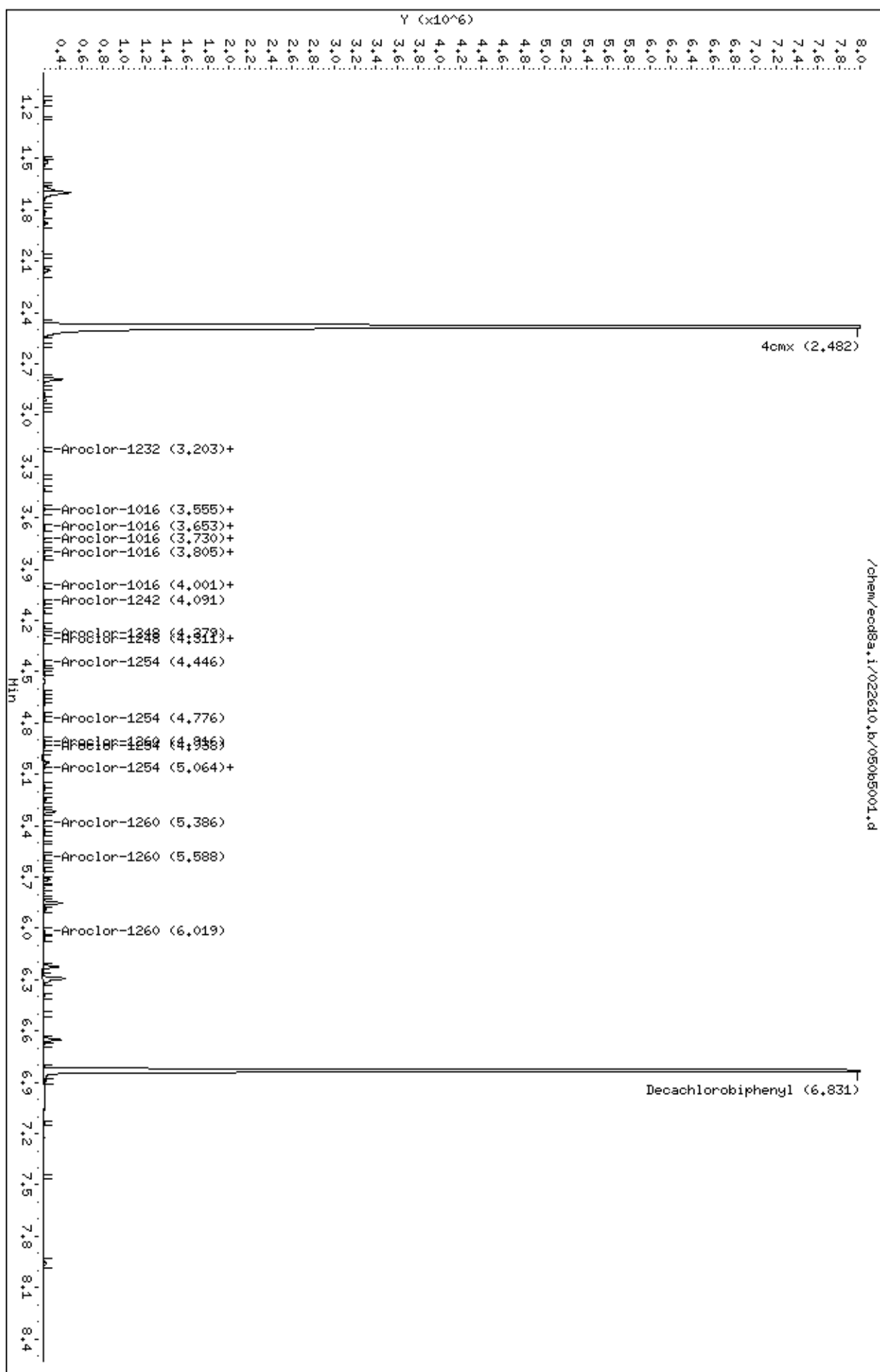
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.482	2.482	0.000	14494641	175.746	5.9 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.831	6.832	-0.001	10785187	174.977	5.9 80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/050b5001.d
 Date : 26-FEB-2010 15:57
 Client ID: RE15-10-8267
 Sample Info: 124734600811
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



STANDARDS DATA

Report Date: 26-Feb-2010 13:23

Calibration History

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 23-FEB-2010 11:32

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
23-FEB-2010 10:43	AR1221	/chem/ecd8a.i/022310.b/013f1301.d
03-FEB-2010 15:46	AR1262	/chem/ecd8a.i/020310a.b/028f2801.d
03-FEB-2010 14:07	AR1248	/chem/ecd8a.i/020310a.b/020f2001.d
03-FEB-2010 12:53	AR1242	/chem/ecd8a.i/020310a.b/014f1401.d
03-FEB-2010 11:39	AR1254	/chem/ecd8a.i/020310a.b/008f0801.d
23-FEB-2010 09:28	AR1660	/chem/ecd8a.i/022310.b/007f0701.d

Cal Level: 2 , Cal Amount: 250.00000		
23-FEB-2010 10:55	AR1221	/chem/ecd8a.i/022310.b/014f1401.d
03-FEB-2010 15:58	AR1262	/chem/ecd8a.i/020310a.b/029f2901.d
03-FEB-2010 14:19	AR1248	/chem/ecd8a.i/020310a.b/021f2101.d
03-FEB-2010 13:05	AR1242	/chem/ecd8a.i/020310a.b/015f1501.d
03-FEB-2010 11:51	AR1254	/chem/ecd8a.i/020310a.b/009f0901.d
23-FEB-2010 09:41	AR1660	/chem/ecd8a.i/022310.b/008f0801.d

Cal Level: 3 , Cal Amount: 500.00000		
23-FEB-2010 11:07	AR1221	/chem/ecd8a.i/022310.b/015f1501.d
03-FEB-2010 16:11	AR1262	/chem/ecd8a.i/020310a.b/030f3001.d
03-FEB-2010 14:32	AR1248	/chem/ecd8a.i/020310a.b/022f2201.d
03-FEB-2010 13:18	AR1242	/chem/ecd8a.i/020310a.b/016f1601.d
03-FEB-2010 12:03	AR1254	/chem/ecd8a.i/020310a.b/010f1001.d
23-FEB-2010 09:53	AR1660	/chem/ecd8a.i/022310.b/009f0901.d

Cal Level: 4 , Cal Amount: 1000.00000		
03-FEB-2010 17:25	DDT	/chem/ecd8a.i/020310a.b/036f3601.d
03-FEB-2010 17:00	AR1268	/chem/ecd8a.i/020310a.b/034f3401.d
03-FEB-2010 16:23	AR1262	/chem/ecd8a.i/020310a.b/031f3101.d
23-FEB-2010 11:20	AR1221	/chem/ecd8a.i/022310.b/016f1601.d
03-FEB-2010 15:21	AR1232	/chem/ecd8a.i/020310a.b/026f2601.d
03-FEB-2010 14:44	AR1248	/chem/ecd8a.i/020310a.b/023f2301.d
03-FEB-2010 13:30	AR1242	/chem/ecd8a.i/020310a.b/017f1701.d
03-FEB-2010 12:16	AR1254	/chem/ecd8a.i/020310a.b/011f1101.d
23-FEB-2010 10:05	AR1660	/chem/ecd8a.i/022310.b/010f1001.d

Cal Level: 5 , Cal Amount: 4000.00000		
23-FEB-2010 11:32	AR1221	/chem/ecd8a.i/022310.b/017f1701.d
03-FEB-2010 16:36	AR1262	/chem/ecd8a.i/020310a.b/032f3201.d
03-FEB-2010 14:57	AR1248	/chem/ecd8a.i/020310a.b/024f2401.d

03-FEB-2010 13:42	AR1242	/chem/ecd8a.i/020310a.b/018f1801.d
03-FEB-2010 12:28	AR1254	/chem/ecd8a.i/020310a.b/012f1201.d
23-FEB-2010 10:18	AR1660	/chem/ecd8a.i/022310.b/011f1101.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 12:14	AR1660	/chem/ecd8a.i/022610.b/032f3201.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 09:46	AR1660	/chem/ecd8a.i/022610.b/020f2001.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 07:11	AR1268	/chem/ecd8a.i/022610.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:46	AR1221	/chem/ecd8a.i/022610.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:34	AR1232	/chem/ecd8a.i/022610.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:59	AR1262	/chem/ecd8a.i/022610.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:59	AR1262	/chem/ecd8a.i/022610.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:46	AR1221	/chem/ecd8a.i/022610.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:34	AR1232	/chem/ecd8a.i/022610.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:22	AR1248	/chem/ecd8a.i/022610.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:09	AR1242	/chem/ecd8a.i/022610.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 05:57	AR1254	/chem/ecd8a.i/022610.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 05:45	AR1660	/chem/ecd8a.i/022610.b/002f0201.d

Report Date: 26-FEB-2010 13:23

Calibration History

Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 23-FEB-2010 11:32

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
23-FEB-2010 10:43	AR1221	/chem/ecd8a.i/022310.b/013b1301.d
03-FEB-2010 15:46	AR1262	/chem/ecd8a.i/020310a.b/028b2801.d
03-FEB-2010 14:07	AR1248	/chem/ecd8a.i/020310a.b/020b2001.d
03-FEB-2010 12:53	AR1242	/chem/ecd8a.i/020310a.b/014b1401.d
03-FEB-2010 11:39	AR1254	/chem/ecd8a.i/020310a.b/008b0801.d
23-FEB-2010 09:28	AR1660	/chem/ecd8a.i/022310.b/007b0701.d

Cal Level: 2 , Cal Amount: 250.00000		
23-FEB-2010 10:55	AR1221	/chem/ecd8a.i/022310.b/014b1401.d
03-FEB-2010 15:58	AR1262	/chem/ecd8a.i/020310a.b/029b2901.d
03-FEB-2010 14:19	AR1248	/chem/ecd8a.i/020310a.b/021b2101.d
03-FEB-2010 13:05	AR1242	/chem/ecd8a.i/020310a.b/015b1501.d
03-FEB-2010 11:51	AR1254	/chem/ecd8a.i/020310a.b/009b0901.d
23-FEB-2010 09:41	AR1660	/chem/ecd8a.i/022310.b/008b0801.d

Cal Level: 3 , Cal Amount: 500.00000		
23-FEB-2010 11:07	AR1221	/chem/ecd8a.i/022310.b/015b1501.d
03-FEB-2010 16:11	AR1262	/chem/ecd8a.i/020310a.b/030b3001.d
03-FEB-2010 14:32	AR1248	/chem/ecd8a.i/020310a.b/022b2201.d
03-FEB-2010 13:18	AR1242	/chem/ecd8a.i/020310a.b/016b1601.d
03-FEB-2010 12:03	AR1254	/chem/ecd8a.i/020310a.b/010b1001.d
23-FEB-2010 09:53	AR1660	/chem/ecd8a.i/022310.b/009b0901.d

Cal Level: 4 , Cal Amount: 1000.00000		
03-FEB-2010 17:25	DDT	/chem/ecd8a.i/020310a.b/036b3601.d
03-FEB-2010 17:00	AR1268	/chem/ecd8a.i/020310a.b/034b3401.d
03-FEB-2010 16:23	AR1262	/chem/ecd8a.i/020310a.b/031b3101.d
23-FEB-2010 11:20	AR1221	/chem/ecd8a.i/022310.b/016b1601.d
03-FEB-2010 15:21	AR1232	/chem/ecd8a.i/020310a.b/026b2601.d
03-FEB-2010 14:44	AR1248	/chem/ecd8a.i/020310a.b/023b2301.d
03-FEB-2010 13:30	AR1242	/chem/ecd8a.i/020310a.b/017b1701.d
03-FEB-2010 12:16	AR1254	/chem/ecd8a.i/020310a.b/011b1101.d
23-FEB-2010 10:05	AR1660	/chem/ecd8a.i/022310.b/010b1001.d

Cal Level: 5 , Cal Amount: 4000.00000		
23-FEB-2010 11:32	AR1221	/chem/ecd8a.i/022310.b/017b1701.d
03-FEB-2010 16:36	AR1262	/chem/ecd8a.i/020310a.b/032b3201.d
03-FEB-2010 14:57	AR1248	/chem/ecd8a.i/020310a.b/024b2401.d
03-FEB-2010 13:42	AR1242	/chem/ecd8a.i/020310a.b/018b1801.d
03-FEB-2010 12:28	AR1254	/chem/ecd8a.i/020310a.b/012b1201.d
23-FEB-2010 10:18	AR1660	/chem/ecd8a.i/022310.b/011b1101.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 12:14	AR1660	/chem/ecd8a.i/022610.b/032b3201.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 09:46	AR1660	/chem/ecd8a.i/022610.b/020b2001.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 07:11	AR1268	/chem/ecd8a.i/022610.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:59	AR1262	/chem/ecd8a.i/022610.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:46	AR1221	/chem/ecd8a.i/022610.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:34	AR1232	/chem/ecd8a.i/022610.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:22	AR1248	/chem/ecd8a.i/022610.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:09	AR1242	/chem/ecd8a.i/022610.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 05:57	AR1254	/chem/ecd8a.i/022610.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 05:45	AR1660	/chem/ecd8a.i/022610.b/002b0201.d

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COMPOUND LISTING

Method file : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 26-Feb-2010 12:24 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold 758.000000
Initial:End Threshold   379.000000
Initial:Area Threshold  734.000000
Initial:P-P Resolution   1.000000
Initial:Bunch Factor     2.000000
Initial:Negative Peaks   OFF
Initial:Tension          1.500000
   6.500:Bunch Factor    2.000000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	2.810	2.780-2.840	4.551e+03
	3.161	3.131-3.191	5.610e+03
	3.305	3.275-3.335	2.392e+03
	3.397	3.367-3.427	2.141e+03
	3.560	3.530-3.590	3.099e+03
2 Aroclor-1221	2.393	2.363-2.423	1.568e+03
	2.507	2.477-2.537	9.154e+02
	2.538	2.508-2.568	3.573e+03
3 Aroclor-1232	2.539	2.509-2.569	2.601e+03
	2.809	2.779-2.839	2.261e+03
	3.305	3.275-3.335	1.243e+03
	3.559	3.529-3.589	1.479e+03
4 Aroclor-1242	3.621	3.591-3.651	9.227e+02
	2.809	2.779-2.839	3.974e+03
	3.161	3.131-3.191	4.796e+03
	3.397	3.367-3.427	1.805e+03
	3.414	3.384-3.444	1.889e+03
5 Aroclor-1248	3.559	3.529-3.589	2.645e+03
	3.147	3.117-3.177	2.990e+03
	3.397	3.367-3.427	3.823e+03
	3.559	3.529-3.589	5.000e+03
	3.865	3.835-3.895	5.990e+03
	4.024	3.994-4.054	4.826e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Compound		RT	RT Window	RF
6	Aroclor-1254	3.835	3.805-3.865	4.785e+03
		4.022	3.992-4.052	6.569e+03
		4.218	4.188-4.248	5.138e+03
		4.305	4.275-4.335	8.797e+03
		4.500	4.470-4.530	6.914e+03
7	Aroclor-1260	4.434	4.404-4.464	6.476e+03
		4.630	4.600-4.660	9.548e+03
		4.905	4.875-4.935	5.666e+03
		5.077	5.047-5.107	5.904e+03
		5.488	5.458-5.518	6.229e+03
8	Aroclor-1262	4.335	4.305-4.365	3.367e+03
		4.433	4.403-4.463	5.243e+03
		4.628	4.598-4.658	7.103e+03
		4.904	4.874-4.934	8.580e+03
		5.076	5.046-5.106	7.966e+03
9	Aroclor-1268	5.511	5.481-5.541	1.632e+04
		5.538	5.508-5.568	1.572e+04
		5.672	5.642-5.702	1.207e+04
		5.917	5.887-5.947	6.023e+03
		6.114	6.084-6.144	3.601e+04
M	10 Aroclor-Total	1.000	0.980-1.020	
\$	11 4cmx	2.251	2.221-2.281	1.260e+05
\$	12 Decachlorobiphenyl	6.245	6.215-6.275	9.032e+04
	13 4,4'-DDT	4.852	4.832-4.872	2.393e+04
	14 4,4'-DDD	4.658	4.638-4.678	1.570e+05
	15 4,4'-DDE	4.234	4.214-4.254	1.340e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 26-Feb-2010 12:24 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold 733.000000
Initial:End Threshold   366.500000
Initial:Area Threshold  522.000000
Initial:P-P Resolution  0.000000
Initial:Bunch Factor     2.000000
Initial:Negative Peaks   OFF
Initial:Tension          2.000000
   9.000:Bunch Factor    2.000000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	3.555	3.525-3.585	3.619e+03
	3.654	3.624-3.684	2.410e+03
	3.730	3.700-3.760	1.453e+03
	3.805	3.775-3.835	1.434e+03
	4.002	3.972-4.032	1.958e+03
2 Aroclor-1221	2.723	2.693-2.753	9.481e+02
	2.835	2.805-2.865	5.911e+02
	2.883	2.853-2.913	2.179e+03
3 Aroclor-1232	3.202	3.172-3.232	1.515e+03
	3.555	3.525-3.585	1.744e+03
	3.654	3.624-3.684	1.176e+03
4 Aroclor-1242	3.730	3.700-3.760	7.101e+02
	3.805	3.775-3.835	6.182e+02
	3.202	3.172-3.232	2.677e+03
	3.555	3.525-3.585	3.126e+03
	3.654	3.624-3.684	2.127e+03
5 Aroclor-1248	4.002	3.972-4.032	1.703e+03
	4.092	4.062-4.122	1.567e+03
	3.654	3.624-3.684	1.427e+03
	3.805	3.775-3.835	2.467e+03
	4.002	3.972-4.032	3.089e+03
	4.279	4.249-4.309	3.647e+03
	4.312	4.282-4.342	4.004e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Compound		RT	RT Window	RF
6	Aroclor-1254	4.308	4.278-4.338	3.450e+03
		4.447	4.417-4.477	3.910e+03
		4.776	4.746-4.806	5.500e+03
		4.938	4.908-4.968	4.011e+03
		5.064	5.034-5.094	2.549e+03
7	Aroclor-1260	4.915	4.885-4.945	3.967e+03
		5.064	5.034-5.094	4.809e+03
		5.381	5.351-5.411	3.680e+03
		5.588	5.558-5.618	3.826e+03
		6.019	5.989-6.049	5.994e+03
8	Aroclor-1262	4.915	4.885-4.945	3.276e+03
		5.064	5.034-5.094	3.827e+03
		5.381	5.351-5.411	5.446e+03
		5.587	5.557-5.617	5.047e+03
		6.017	5.987-6.047	7.196e+03
9	Aroclor-1268	6.014	5.984-6.044	1.138e+04
		6.047	6.017-6.077	1.041e+04
		6.225	6.195-6.255	8.192e+03
		6.422	6.392-6.452	4.057e+03
		6.650	6.620-6.680	2.464e+04
M	10 Aroclor-Total	1.000	0.980-1.020	
\$	11 4cmx	2.482	2.452-2.512	8.247e+04
\$	12 Decachlorobiphenyl	6.832	6.802-6.862	6.164e+04
	13 4,4'-DDT	5.323	5.303-5.343	1.460e+04
	14 4,4'-DDD	5.102	5.082-5.122	1.001e+05
	15 4,4'-DDE	4.691	4.671-4.711	8.898e+04

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
 Cal Date : 26-Feb-2010 12:24 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd8a.i/022310.b/013f1301.d
 Level 2: /chem/ecd8a.i/022310.b/014f1401.d
 Level 3: /chem/ecd8a.i/022310.b/015f1501.d
 Level 4: /chem/ecd8a.i/020310a.b/036f3601.d
 Level 5: /chem/ecd8a.i/022310.b/017f1701.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
1 Aroclor-1016(1)	5184	5051	4636	4164	3722	4551	13.432
(2)	5955	5983	5682	5356	5075	5610	6.983
(3)	2525	2613	2438	2236	2150	2392	8.137
(4)	2419	2376	2156	1934	1819	2141	12.343
(5)	3374	3397	3129	2891	2705	3099	9.729
2 Aroclor-1221(1)	1843	1746	1580	1468	1203	1568	15.964
(2)	1118	1046	917	835	660	915	19.675
(3)	4334	3992	3544	3325	2672	3573	17.859
3 Aroclor-1232(1)	+++++	+++++	+++++	2601	+++++	2601	0.000
(2)	+++++	+++++	+++++	2261	+++++	2261	0.000
(3)	+++++	+++++	+++++	1243	+++++	1243	0.000
(4)	+++++	+++++	+++++	1479	+++++	1479	0.000
(5)	+++++	+++++	+++++	923	+++++	923	0.000
4 Aroclor-1242(1)	4726	4372	4070	3706	2998	3974	16.680
(2)	5172	5152	4949	4680	4027	4796	9.873
(3)	2139	1968	1820	1683	1417	1805	15.251
(4)	2229	2050	1908	1759	1500	1889	14.735
(5)	3065	2855	2678	2500	2127	2645	13.507
5 Aroclor-1248(1)	3599	3150	2999	2805	2397	2990	14.793
(2)	4688	4030	3804	3549	3043	3823	15.884
(3)	6028	5281	4903	4737	4053	5000	14.533
(4)	7068	6330	5909	5676	4965	5990	13.024
(5)	5743	5075	4737	4591	3986	4826	13.394
6 Aroclor-1254(1)	5857	5096	4715	4450	3806	4785	15.921
(2)	7961	7038	6468	6172	5208	6569	15.558
(3)	6032	5571	5105	4741	4242	5138	13.582
(4)	10107	9649	8877	8173	7180	8797	13.271
(5)	7953	7619	6996	6322	5678	6914	13.452

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
 Cal Date : 26-Feb-2010 12:24 jen01212
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
=====	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260(1)	7011	7159	6444	6079	5685	6476	9.568
(2)	10286	10384	9540	9039	8493	9548	8.467
(3)	6319	6091	5552	5308	5058	5666	9.329
(4)	6626	6271	5777	5525	5322	5904	9.102
(5)	6986	6455	6034	5888	5781	6229	7.946
8 Aroclor-1262(1)	3851	3558	3311	3256	2859	3367	10.954
(2)	5935	5551	5239	5102	4386	5243	10.995
(3)	7996	7523	7022	6963	6012	7103	10.414
(4)	9555	9028	8567	8433	7318	8580	9.694
(5)	8875	8357	7946	7802	6850	7966	9.421
9 Aroclor-1268(1)	+++++	+++++	+++++	16324	+++++	16324	0.000
(2)	+++++	+++++	+++++	15723	+++++	15723	0.000
(3)	+++++	+++++	+++++	12075	+++++	12075	0.000
(4)	+++++	+++++	+++++	6023	+++++	6023	0.000
(5)	+++++	+++++	+++++	36012	+++++	36012	0.000
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 4,4'-DDT	+++++	+++++	+++++	23929	+++++	23929	0.000
14 4,4'-DDD	+++++	+++++	+++++	157020	+++++	157020	0.000
15 4,4'-DDE	+++++	+++++	+++++	133975	+++++	133975	0.000
=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx	129289	131757	127787	121546	119668	126009	4.106
\$ 12 Decachlorobiphenyl	104555	92006	87870	84335	82825	90318	9.644

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
 Cal Date : 26-Feb-2010 12:24 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd8a.i/022310.b/013b1301.d
 Level 2: /chem/ecd8a.i/022310.b/014b1401.d
 Level 3: /chem/ecd8a.i/022310.b/015b1501.d
 Level 4: /chem/ecd8a.i/020310a.b/036b3601.d
 Level 5: /chem/ecd8a.i/022310.b/017b1701.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
1 Aroclor-1016(1)	3700	3563	3621	3616	3597	3619	1.393
(2)	2616	2439	2406	2318	2272	2410	5.524
(3)	1536	1447	1442	1402	1439	1453	3.402
(4)	1585	1460	1422	1359	1342	1434	6.769
(5)	2095	1991	1936	1896	1874	1958	4.503
2 Aroclor-1221(1)	1008	1017	964	925	826	948	8.179
(2)	642	644	604	571	494	591	10.518
(3)	2384	2349	2220	2116	1827	2179	10.256
3 Aroclor-1232(1)	+++++	+++++	+++++	1515	+++++	1515	0.000
(2)	+++++	+++++	+++++	1744	+++++	1744	0.000
(3)	+++++	+++++	+++++	1176	+++++	1176	0.000
(4)	+++++	+++++	+++++	710	+++++	710	0.000
(5)	+++++	+++++	+++++	618	+++++	618	0.000
4 Aroclor-1242(1)	2949	2857	2758	2609	2213	2677	10.779
(2)	3213	3196	3180	3232	2808	3126	5.721
(3)	2287	2232	2178	2099	1842	2127	8.178
(4)	1820	1782	1741	1678	1497	1703	7.463
(5)	1675	1595	1607	1522	1434	1567	5.872
5 Aroclor-1248(1)	1621	1511	1422	1366	1213	1427	10.773
(2)	2779	2594	2491	2383	2090	2467	10.392
(3)	3403	3233	3131	3022	2657	3089	9.043
(4)	3964	3788	3692	3588	3204	3647	7.785
(5)	4333	4155	4060	3948	3526	4004	7.553
6 Aroclor-1254(1)	3700	3695	3475	3389	2993	3450	8.395
(2)	4204	4194	3940	3836	3377	3910	8.648
(3)	5766	5885	5570	5452	4827	5500	7.494
(4)	4254	4252	4044	3942	3562	4011	7.104
(5)	2775	2711	2546	2462	2250	2549	8.187

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
 Cal Date : 26-Feb-2010 12:24 jen01212
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
=====	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260(1)	4253	3988	3955	3849	3788	3967	4.519
(2)	5113	4816	4799	4685	4631	4809	3.886
(3)	3914	3673	3654	3574	3584	3680	3.741
(4)	4047	3810	3802	3720	3750	3826	3.378
(5)	6273	5947	5927	5853	5968	5994	2.707
8 Aroclor-1262(1)	3545	3367	3269	3249	2948	3276	6.635
(2)	4038	3929	3844	3825	3498	3827	5.277
(3)	5683	5613	5515	5463	4958	5446	5.255
(4)	5266	5178	5090	5067	4633	5047	4.838
(5)	7327	7356	7286	7270	6740	7196	3.572
9 Aroclor-1268(1)	+++++	+++++	+++++	11384	+++++	11384	0.000
(2)	+++++	+++++	+++++	10412	+++++	10412	0.000
(3)	+++++	+++++	+++++	8192	+++++	8192	0.000
(4)	+++++	+++++	+++++	4057	+++++	4057	0.000
(5)	+++++	+++++	+++++	24640	+++++	24640	0.000
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 4,4'-DDT	+++++	+++++	+++++	14596	+++++	14596	0.000
14 4,4'-DDD	+++++	+++++	+++++	100145	+++++	100145	0.000
15 4,4'-DDE	+++++	+++++	+++++	88982	+++++	88982	0.000
=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx	82185	80840	82752	82147	84451	82475	1.586
\$ 12 Decachlorobiphenyl	65682	61409	60606	59658	60834	61638	3.808

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0545
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	4551.274	4358.338	0.01	-4.2	15.0
(2)	5610.061	5287.491	0.01	-5.7	15.0
(3)	2392.299	2206.024	0.01	-7.8	15.0
(4)	2140.620	1982.006	0.01	-7.4	15.0
(5)	3099.161	2808.624	0.01	-9.4	15.0
Aroclor-1260	6475.551	5742.526	0.01	-11.3	15.0
(2)	9548.264	8718.592	0.01	-8.7	15.0
(3)	5665.674	5101.723	0.01	-10.0	15.0
(4)	5904.028	5405.972	0.01	-8.4	15.0
(5)	6228.823	5717.283	0.01	-8.2	15.0
=====	=====	=====	=====	=====	=====
4cmx	126009.40	129725.98	0.01	2.9	15.0
Decachlorobiphenyl	90318.109	81396.680	0.01	-9.9	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0545
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	3619.456	3791.039	0.01	4.7	15.0
(2)	2410.146	2613.897	0.01	8.4	15.0
(3)	1453.120	1522.904	0.01	4.8	15.0
(4)	1433.781	1484.926	0.01	3.6	15.0
(5)	1958.294	2085.116	0.01	6.5	15.0
Aroclor-1260	3966.597	4237.002	0.01	6.8	15.0
(2)	4809.043	5030.510	0.01	4.6	15.0
(3)	3679.792	3833.209	0.01	4.2	15.0
(4)	3825.801	3969.392	0.01	3.8	15.0
(5)	5993.805	5936.060	0.01	-1.0	15.0
=====	=====	=====	=====	=====	=====
4cmx	82474.964	92602.510	0.01	12.3	15.0
Decachlorobiphenyl	61637.648	56388.210	0.01	-8.5	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0557
 Lab File ID: 003F0301 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1139 1228
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1254	4784.971	4835.640	0.01	1.0	15.0
(2)	6569.400	6599.677	0.01	0.5	15.0
(3)	5138.123	5211.746	0.01	1.4	15.0
(4)	8797.294	8793.883	0.01	-0.0	15.0
(5)	6913.634	6666.861	0.01	-3.6	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0557
 Lab File ID: 003B0301 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1139 1228
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1254	3450.063	3508.194	0.01	1.7	15.0
(2)	3910.106	3945.245	0.01	0.9	15.0
(3)	5499.957	5583.157	0.01	1.5	15.0
(4)	4010.730	3962.383	0.01	-1.2	15.0
(5)	2548.871	2525.601	0.01	-0.9	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0609
 Lab File ID: 004F0401 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1253 1342
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1242	3974.352	4184.666	0.01	5.3	15.0
(2)	4796.139	5101.333	0.01	6.4	15.0
(3)	1805.468	1878.051	0.01	4.0	15.0
(4)	1889.091	2040.311	0.01	8.0	15.0
(5)	2645.035	2834.102	0.01	7.1	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0609
 Lab File ID: 004B0401 Init. Calib. Date(s): 02/03/10 02/03/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1253 1342
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	$\overline{\text{RRF}}$	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1242	2677.149	2842.522	0.01	6.2	15.0
(2) _____	3125.833	3336.211	0.01	6.7	15.0
(3) _____	2127.474	2289.639	0.01	7.6	15.0
(4) _____	1703.485	1822.114	0.01	7.0	15.0
(5) _____	1566.523	1711.192	0.01	9.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0946
 Lab File ID: 020F2001 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	4551.274	4376.930	0.01	-3.8	15.0
(2)	5610.061	5308.816	0.01	-5.4	15.0
(3)	2392.299	2269.304	0.01	-5.1	15.0
(4)	2140.620	2003.889	0.01	-6.4	15.0
(5)	3099.161	2934.808	0.01	-5.3	15.0
Aroclor-1260	6475.551	5939.494	0.01	-8.3	15.0
(2)	9548.264	8985.182	0.01	-5.9	15.0
(3)	5665.674	5274.578	0.01	-6.9	15.0
(4)	5904.028	5536.758	0.01	-6.2	15.0
(5)	6228.823	5855.406	0.01	-6.0	15.0
=====	=====	=====	=====	=====	=====
4cmx	126009.40	127461.40	0.01	1.2	15.0
Decachlorobiphenyl	90318.109	84807.990	0.01	-6.1	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0946
 Lab File ID: 020B2001 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	3619.456	3546.726	0.01	-2.0	15.0
(2)	2410.146	2453.926	0.01	1.8	15.0
(3)	1453.120	1435.155	0.01	-1.2	15.0
(4)	1433.781	1396.297	0.01	-2.6	15.0
(5)	1958.294	1959.471	0.01	0.1	15.0
Aroclor-1260	3966.597	4014.450	0.01	1.2	15.0
(2)	4809.043	4847.910	0.01	0.8	15.0
(3)	3679.792	3722.794	0.01	1.2	15.0
(4)	3825.801	3874.644	0.01	1.3	15.0
(5)	5993.805	6022.160	0.01	0.5	15.0
=====	=====	=====	=====	=====	=====
4cmx	82474.964	86941.010	0.01	5.4	15.0
Decachlorobiphenyl	61637.648	60486.330	0.01	-1.9	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1214
 Lab File ID: 032F3201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	4551.274	4581.042	0.01	0.6	15.0
(2)	5610.061	5623.769	0.01	0.2	15.0
(3)	2392.299	2387.192	0.01	-0.2	15.0
(4)	2140.620	2100.568	0.01	-1.9	15.0
(5)	3099.161	3139.667	0.01	1.3	15.0
Aroclor-1260	6475.551	6437.027	0.01	-0.6	15.0
(2)	9548.264	9742.545	0.01	2.0	15.0
(3)	5665.674	5657.861	0.01	-0.1	15.0
(4)	5904.028	5861.916	0.01	-0.7	15.0
(5)	6228.823	6138.746	0.01	-1.4	15.0
=====	=====	=====	=====	=====	=====
4cmx	126009.40	132723.95	0.01	5.3	15.0
Decachlorobiphenyl	90318.109	86212.040	0.01	-4.5	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1214
 Lab File ID: 032B3201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	3619.456	3569.150	0.01	-1.4	15.0
(2)	2410.146	2471.877	0.01	2.6	15.0
(3)	1453.120	1443.549	0.01	-0.6	15.0
(4)	1433.781	1409.558	0.01	-1.7	15.0
(5)	1958.294	1975.692	0.01	0.9	15.0
Aroclor-1260	3966.597	4026.294	0.01	1.5	15.0
(2)	4809.043	4862.334	0.01	1.1	15.0
(3)	3679.792	3715.523	0.01	1.0	15.0
(4)	3825.801	3862.869	0.01	1.0	15.0
(5)	5993.805	6034.066	0.01	0.7	15.0
=====	=====	=====	=====	=====	=====
4cmx	82474.964	87408.510	0.01	6.0	15.0
Decachlorobiphenyl	61637.648	60945.450	0.01	-1.1	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1443
 Lab File ID: 044F4401 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	4551.274	4541.078	0.01	-0.2	15.0
(2)	5610.061	5823.408	0.01	3.8	15.0
(3)	2392.299	2433.859	0.01	1.7	15.0
(4)	2140.620	2072.037	0.01	-3.2	15.0
(5)	3099.161	3105.422	0.01	0.2	15.0
Aroclor-1260	6475.551	6251.870	0.01	-3.4	15.0
(2)	9548.264	9416.695	0.01	-1.4	15.0
(3)	5665.674	5516.477	0.01	-2.6	15.0
(4)	5904.028	5745.471	0.01	-2.7	15.0
(5)	6228.823	6132.996	0.01	-1.5	15.0
=====	=====	=====	=====	=====	=====
4cmx	126009.40	132335.38	0.01	5.0	15.0
Decachlorobiphenyl	90318.109	87045.170	0.01	-3.6	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1443
 Lab File ID: 044B4401 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	3619.456	3880.770	0.01	7.2	15.0
(2)	2410.146	2552.860	0.01	5.9	15.0
(3)	1453.120	1518.342	0.01	4.5	15.0
(4)	1433.781	1475.125	0.01	2.9	15.0
(5)	1958.294	2071.200	0.01	5.8	15.0
Aroclor-1260	3966.597	4204.079	0.01	6.0	15.0
(2)	4809.043	5071.798	0.01	5.5	15.0
(3)	3679.792	3870.315	0.01	5.2	15.0
(4)	3825.801	4037.144	0.01	5.5	15.0
(5)	5993.805	6271.605	0.01	4.6	15.0
=====	=====	=====	=====	=====	=====
4cmx	82474.964	90104.310	0.01	9.2	15.0
Decachlorobiphenyl	61637.648	62928.980	0.01	2.1	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1610
 Lab File ID: 051F5101 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	4551.274	4570.986	0.01	0.4	15.0
(2)	5610.061	5706.378	0.01	1.7	15.0
(3)	2392.299	2426.021	0.01	1.4	15.0
(4)	2140.620	2138.449	0.01	-0.1	15.0
(5)	3099.161	3122.521	0.01	0.8	15.0
Aroclor-1260	6475.551	6422.068	0.01	-0.8	15.0
(2)	9548.264	9744.599	0.01	2.0	15.0
(3)	5665.674	5715.954	0.01	0.9	15.0
(4)	5904.028	5932.931	0.01	0.5	15.0
(5)	6228.823	6238.193	0.01	0.2	15.0
=====	=====	=====	=====	=====	=====
4cmx	126009.40	133015.21	0.01	5.6	15.0
Decachlorobiphenyl	90318.109	86365.990	0.01	-4.4	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1610
 Lab File ID: 051B5101 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	3619.456	3877.172	0.01	7.1	15.0
(2)	2410.146	2545.911	0.01	5.6	15.0
(3)	1453.120	1528.093	0.01	5.2	15.0
(4)	1433.781	1479.573	0.01	3.2	15.0
(5)	1958.294	2076.072	0.01	6.0	15.0
Aroclor-1260	3966.597	4210.376	0.01	6.1	15.0
(2)	4809.043	5067.332	0.01	5.4	15.0
(3)	3679.792	3854.496	0.01	4.7	15.0
(4)	3825.801	4033.972	0.01	5.4	15.0
(5)	5993.805	6261.693	0.01	4.5	15.0
=====	=====	=====	=====	=====	=====
4cmx	82474.964	89596.680	0.01	8.6	15.0
Decachlorobiphenyl	61637.648	61815.950	0.01	0.3	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/002f0201.d
Lab Smp Id: WAR100225-60 01 Client Smp ID: AR166001
Inj Date : 26-FEB-2010 05:45
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 01
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 10:03 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.251	2.251	0.000	12972598	100.000	103	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.245	6.245	0.000	8139668	100.000	90.1	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.810	2.810	0.000	4358338	1000.00	958	80.00-	120.00	100.00
3.161	3.161	0.000	5287491	1000.00	942	101.29-	141.29	121.32
3.305	3.305	0.000	2206024	1000.00	922	31.85-	71.85	50.62
3.397	3.397	0.000	1982006	1000.00	926	25.78-	65.78	45.48
3.560	3.560	0.000	2808623	1000.00	906	47.05-	87.05	64.44
Average of Peak Amounts =					931			

7 Aroclor-1260					CAS #: 11096-82-5			
4.434	4.434	0.000	5742526	1000.00	887	80.00-	120.00	100.00
4.630	4.630	0.000	8718591	1000.00	913	131.28-	171.28	151.83
4.905	4.905	0.000	5101723	1000.00	900	68.81-	108.81	88.84
5.077	5.077	0.000	5405971	1000.00	916	73.22-	113.22	94.14
5.488	5.488	0.000	5717283	1000.00	918	78.58-	118.58	99.56
Average of Peak Amounts =					907			

Data File: /chem/ecd8a.i/022610.b/002f0201.d

Date : 26-FEB-2010 05:45

Client ID: AR166001

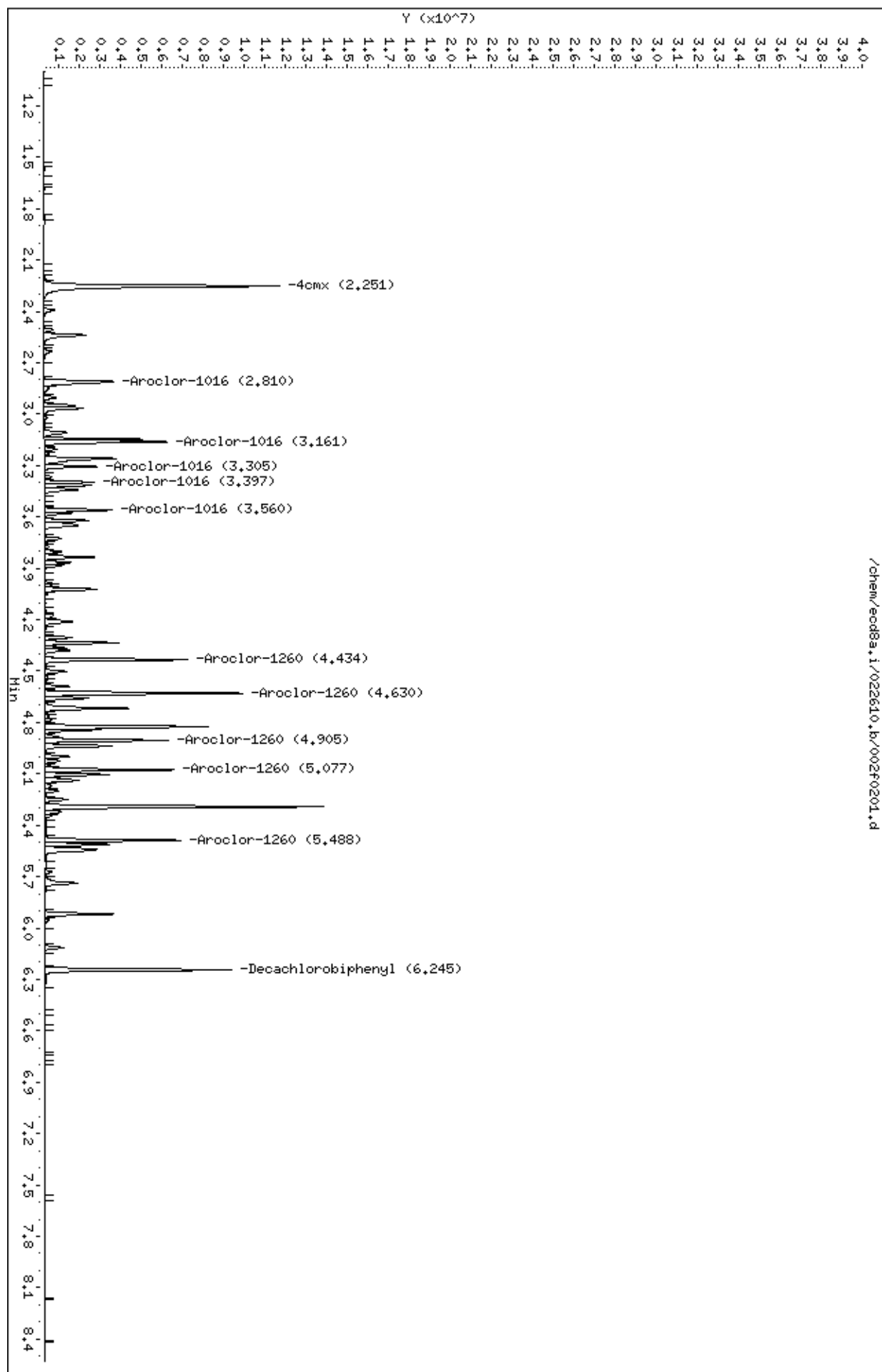
Sample Info: IMR100225-60 01

Instrument: ecd8a.i

Column phase: CLP1

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/002b0201.d
Lab Smp Id: WAR100225-60 01 Client Smp ID: AR166001
Inj Date : 26-FEB-2010 05:45
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 01
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.482	2.482	0.000	9260251	100.000	112	80.00-	120.00	100.00

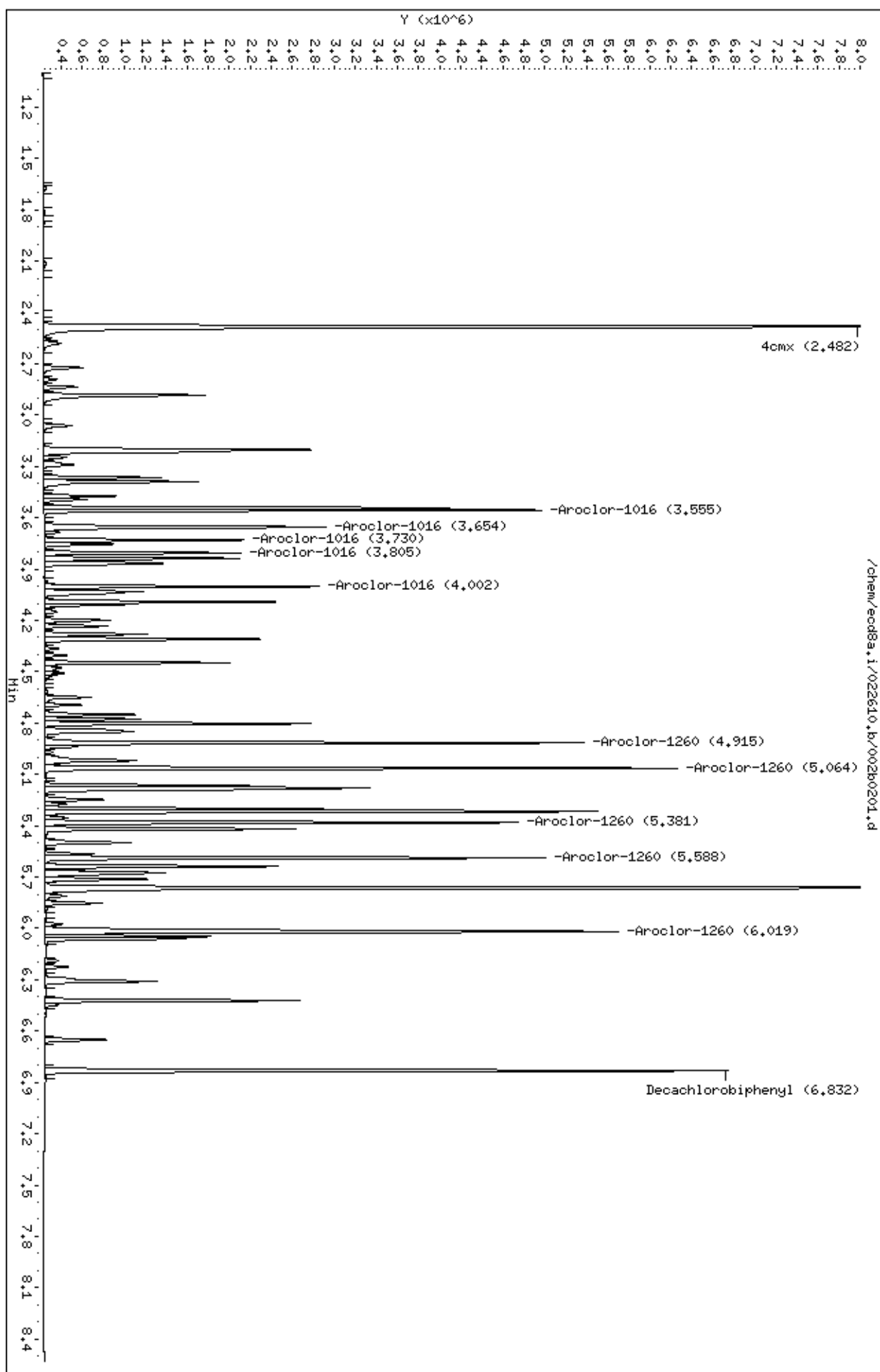
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.832	6.832	0.000	5638821	100.000	91.5	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.555	3.555	0.000	3791038	1000.00	1050	80.00-	120.00	100.00
3.654	3.654	0.000	2613896	1000.00	1080	49.19-	89.19	68.95
3.730	3.730	0.000	1522904	1000.00	1050	20.46-	60.46	40.17
3.805	3.805	0.000	1484926	1000.00	1040	19.37-	59.37	39.17
4.002	4.002	0.000	2085116	1000.00	1060	35.25-	75.25	55.00
Average of Peak Amounts =					1.06e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.915	4.915	0.000	4237002	1000.00	1070	80.00-	120.00	100.00
5.064	5.064	0.000	5030509	1000.00	1050	100.76-	140.76	118.73
5.381	5.381	0.000	3833208	1000.00	1040	72.73-	112.73	90.47
5.588	5.588	0.000	3969391	1000.00	1040	76.52-	116.52	93.68
6.019	6.019	0.000	5936059	1000.00	990	130.01-	170.01	140.10
Average of Peak Amounts =					1.04e+03			

Data File: /chem/ecd8a.i/022610.b/002b0201.d
Date : 26-FEB-2010 05:45
Client ID: AR166001
Sample Info: IMR100225-60 01
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/003f0301.d
Report Date: 26-Feb-2010 12:04

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/003f0301.d
Lab Smp Id: WAR100201-54 Client Smp ID: AR125401
Inj Date : 26-FEB-2010 05:57
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100201-54
Misc Info : |1254
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 10:03 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

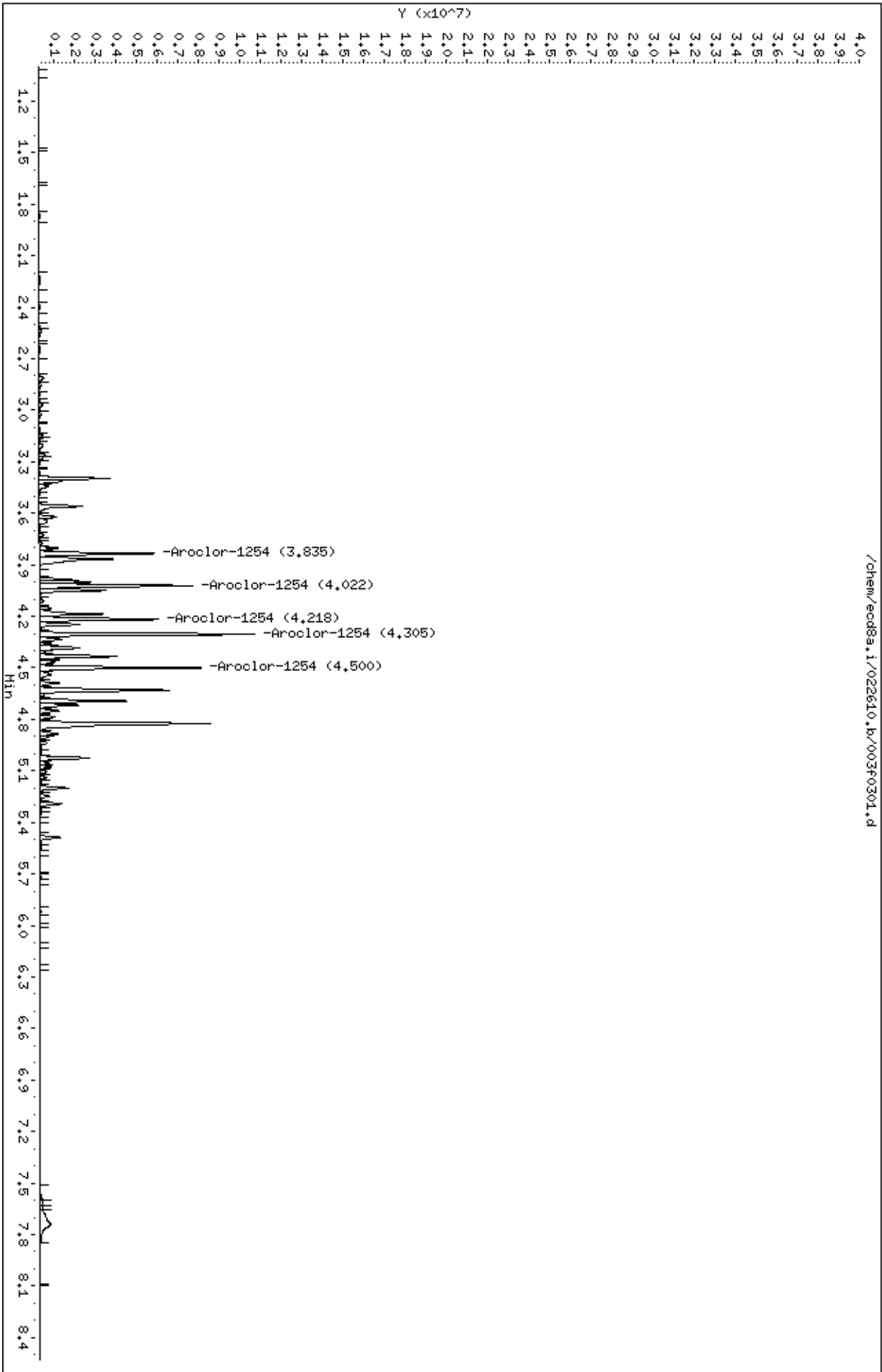
CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254			CAS #: 11097-69-1			
3.835	3.835	0.000	4835639 1000.00	1010	80.00- 120.00	100.00
4.022	4.022	0.000	6599677 1000.00	1000	116.48- 156.48	136.48
4.218	4.218	0.000	5211745 1000.00	1010	87.78- 127.78	107.78
4.305	4.305	0.000	8793882 1000.00	1000	161.86- 201.86	181.86
4.500	4.500	0.000	6666861 1000.00	964	117.87- 157.87	137.87

Average of Peak Amounts = 999

Data File: /chem/ecod8a.i/022610.b/003f0301.d
 Date : 26-FEB-2010 05:57
 Client ID: AR125401
 Sample Info: IMR100201-54
 Column phase: CLP1
 Instrument: ecod8a.i
 Operator: JAOC
 Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/003b0301.d
Lab Smp Id: WAR100201-54 Client Smp ID: AR125401
Inj Date : 26-FEB-2010 05:57
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100201-54
Misc Info : |1254
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

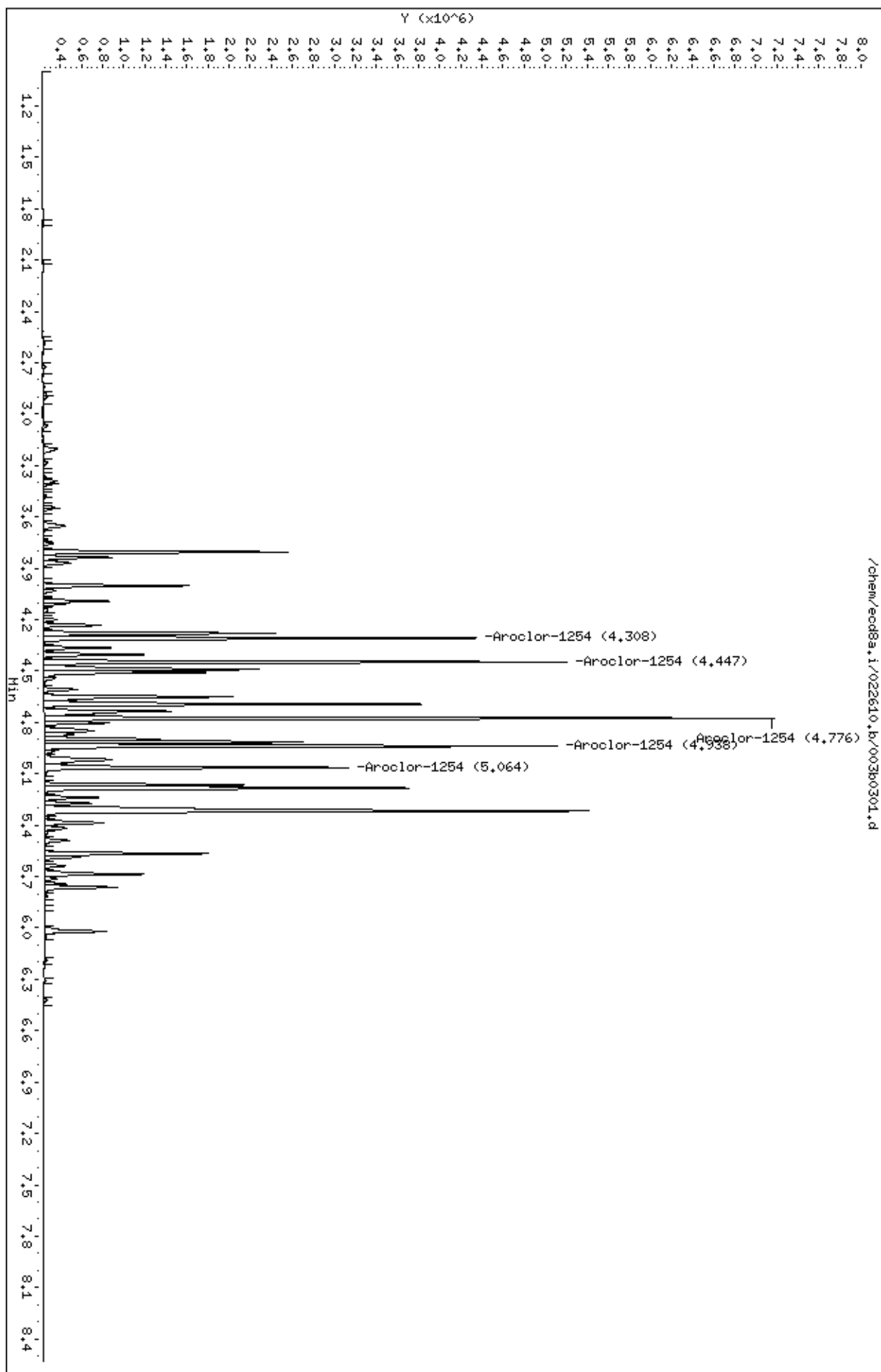
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254			CAS #: 11097-69-1			
4.308	4.308	0.000	3508193 1000.00	1020	80.00- 120.00	100.00
4.447	4.447	0.000	3945244 1000.00	1010	92.46- 132.46	112.46
4.776	4.776	0.000	5583156 1000.00	1020	139.15- 179.15	159.15
4.938	4.938	0.000	3962383 1000.00	988	92.95- 132.95	112.95
5.064	5.064	0.000	2525600 1000.00	991	51.99- 91.99	71.99

Average of Peak Amounts = 1e+03

Data File: /chem/ecd8a.i/022610.b/003b0301.d
Date : 26-FEB-2010 05:57
Client ID: AR125401
Sample Info: IMR100201-54
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/004f0401.d
Report Date: 26-Feb-2010 12:05

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/004f0401.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 26-FEB-2010 06:09
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-42
Misc Info : |1242
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 10:03 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

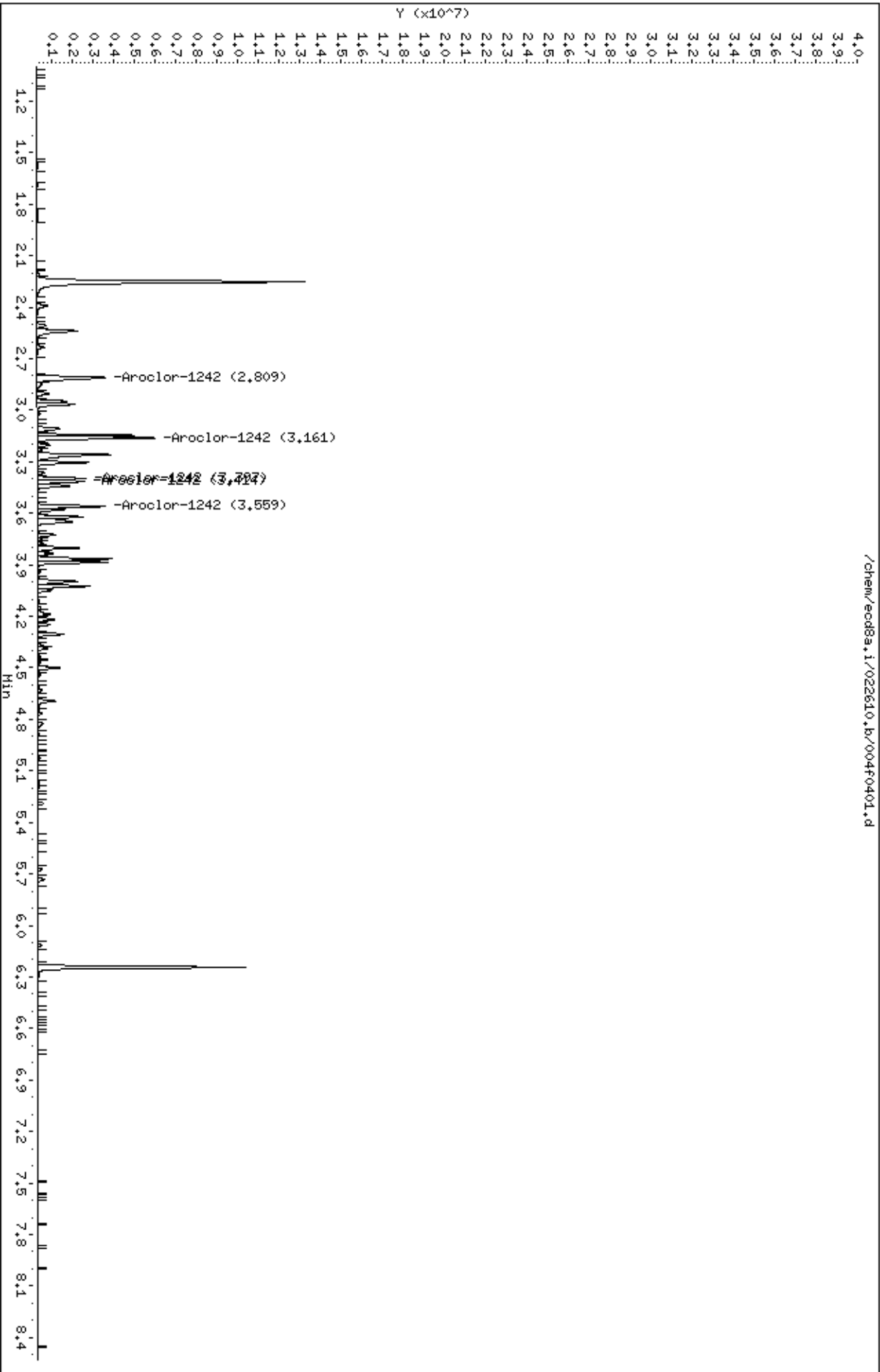
CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

4 Aroclor-1242			CAS #: 53469-21-9			
2.809	2.809	0.000	4184666 1000.00	1050	80.00- 120.00	100.00
3.161	3.161	0.000	5101332 1000.00	1060	101.91- 141.91	121.91
3.397	3.397	0.000	1878051 1000.00	1040	24.88- 64.88	44.88
3.414	3.414	0.000	2040310 1000.00	1080	28.76- 68.76	48.76
3.559	3.559	0.000	2834101 1000.00	1070	47.73- 87.73	67.73

Average of Peak Amounts = 1.06e+03

Data File: /chem/ecod8a.i/022610.b/004f0401.d
 Date : 26-FEB-2010 06:09
 Client ID: AR124201
 Sample Info: IMR091217-42
 Column phase: CLP1
 Instrument: ecod8a.i
 Operator: JAOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/004b0401.d
Report Date: 26-Feb-2010 12:04

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/004b0401.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 26-FEB-2010 06:09
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-42
Misc Info : |1242
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1242.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

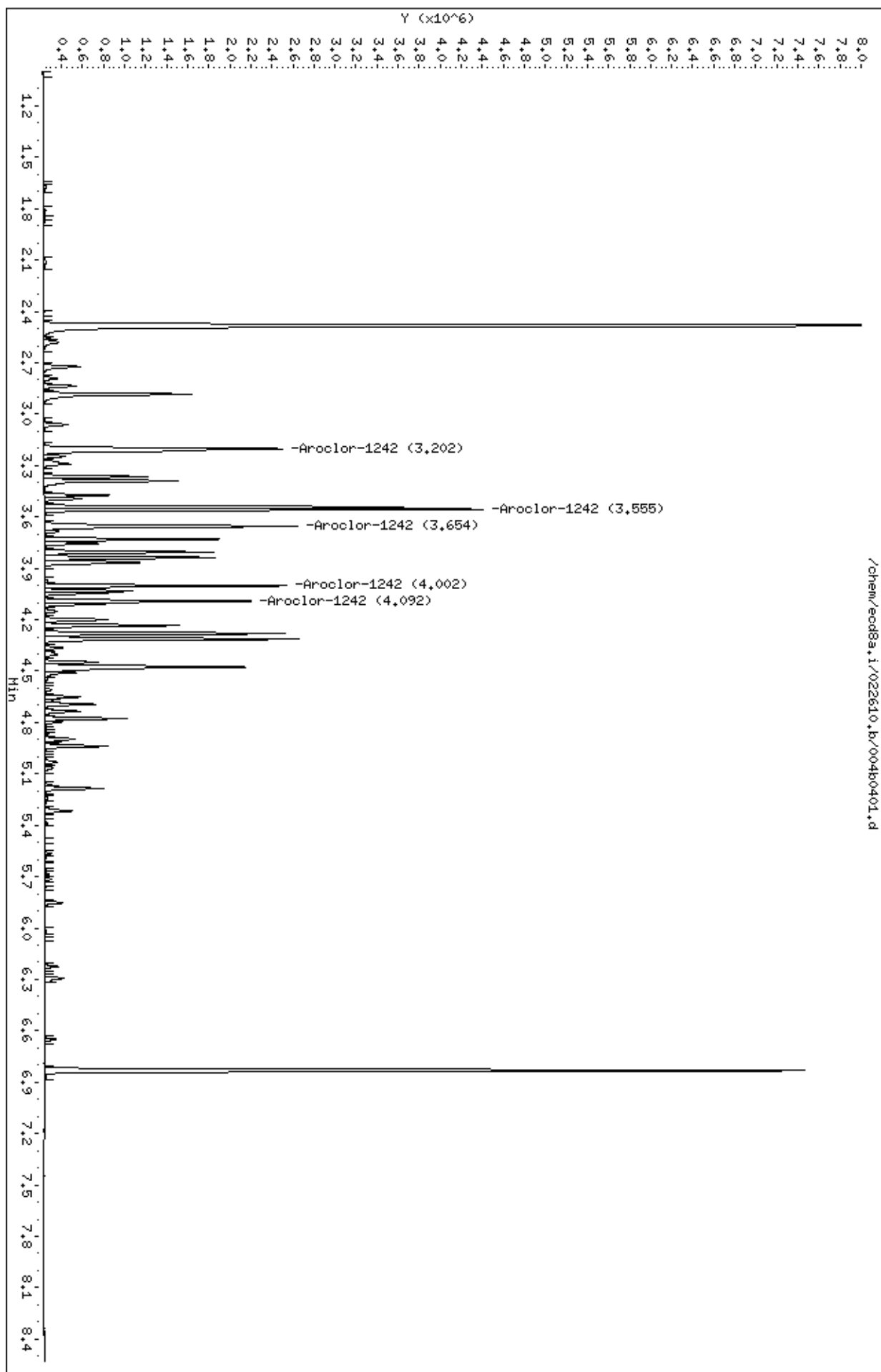
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

4 Aroclor-1242			CAS #: 53469-21-9			
3.202	3.202	0.000	2842521 1000.00	1060	80.00- 120.00	100.00
3.555	3.555	0.000	3336210 1000.00	1070	97.37- 137.37	117.37
3.654	3.654	0.000	2289638 1000.00	1080	60.55- 100.55	80.55
4.002	4.002	0.000	1822113 1000.00	1070	44.10- 84.10	64.10
4.092	4.092	0.000	1711192 1000.00	1090	40.20- 80.20	60.20

Average of Peak Amounts = 1.07e+03

Data File: /chem/ecd8a.i/022610.b/004b0401.d
Date : 26-FEB-2010 06:09
Client ID: AR124201
Sample Info: 1MR091217-42
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/005f0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 26-FEB-2010 06:22
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-48
Misc Info : |1248
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 10:03 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

5 Aroclor-1248			CAS #: 12672-29-6			
3.147	3.147	0.000	2655392 1000.00	888 80.00-	120.00	100.00
3.397	3.397	0.000	3524176 1000.00	922 112.72-	152.72	132.72
3.559	3.559	0.000	4692672 1000.00	938 156.72-	196.72	176.72
3.865	3.865	0.000	5693646 1000.00	950 194.42-	234.42	214.42
4.024	4.024	0.000	4582267 1000.00	949 152.56-	192.56	172.56

Average of Peak Amounts = 930

Data File: /chem/ecd8a.i/022610.b/005f0501.d

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Date : 26-FEB-2010 06:22

Client ID: AR124801

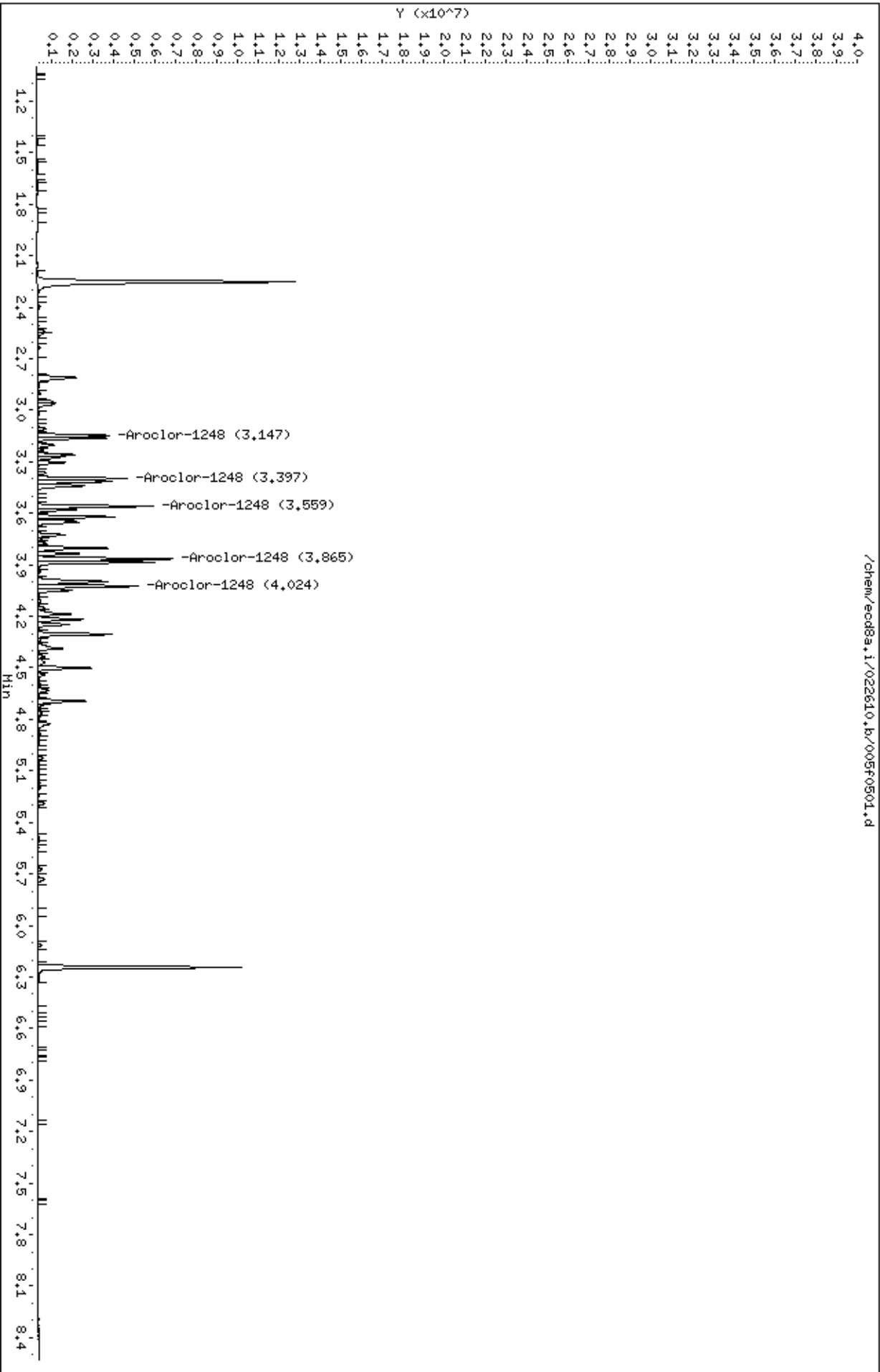
Sample Info: IWR091217-48

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25

Column phase: CLP1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/005b0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 26-FEB-2010 06:22
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-48
Misc Info : |1248
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

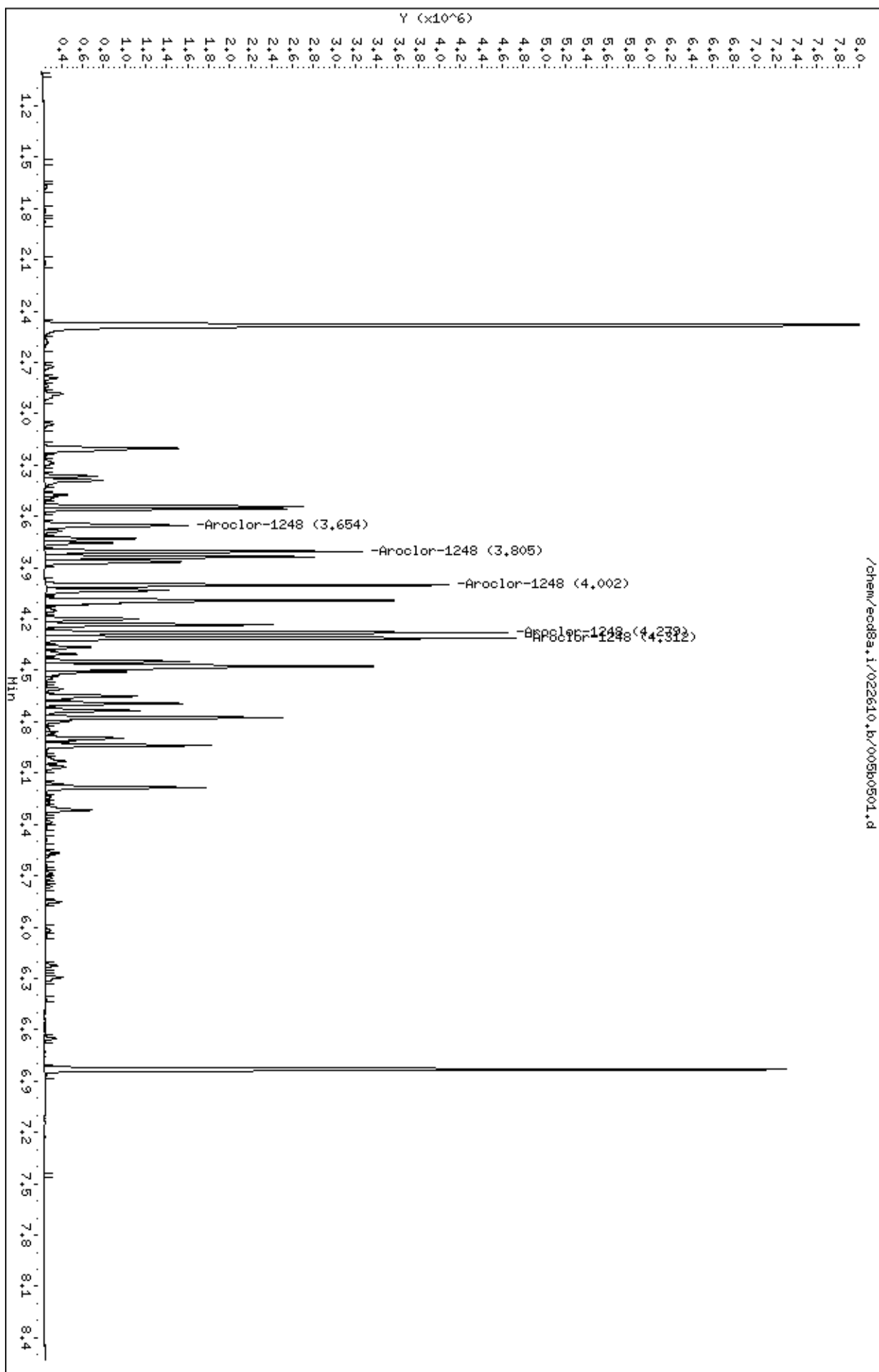
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

5 Aroclor-1248			CAS #: 12672-29-6			
3.654	3.654	0.000	1421101	1000.00	996 80.00- 120.00	100.00
3.805	3.805	0.000	2390284	1000.00	969 148.20- 188.20	168.20
4.002	4.002	0.000	3013422	1000.00	975 192.05- 232.05	212.05
4.279	4.279	0.000	3539644	1000.00	970 229.08- 269.08	249.08
4.312	4.312	0.000	3911417	1000.00	977 255.24- 295.24	275.24

Average of Peak Amounts = 978

Data File: /chem/ecd8a.i/022610.b/005b0501.d
Date : 26-FEB-2010 06:22
Client ID: AR124801
Sample Info: IMR091217-48
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/006f0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 26-FEB-2010 06:34
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-32
Misc Info : |1232
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 10:03 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

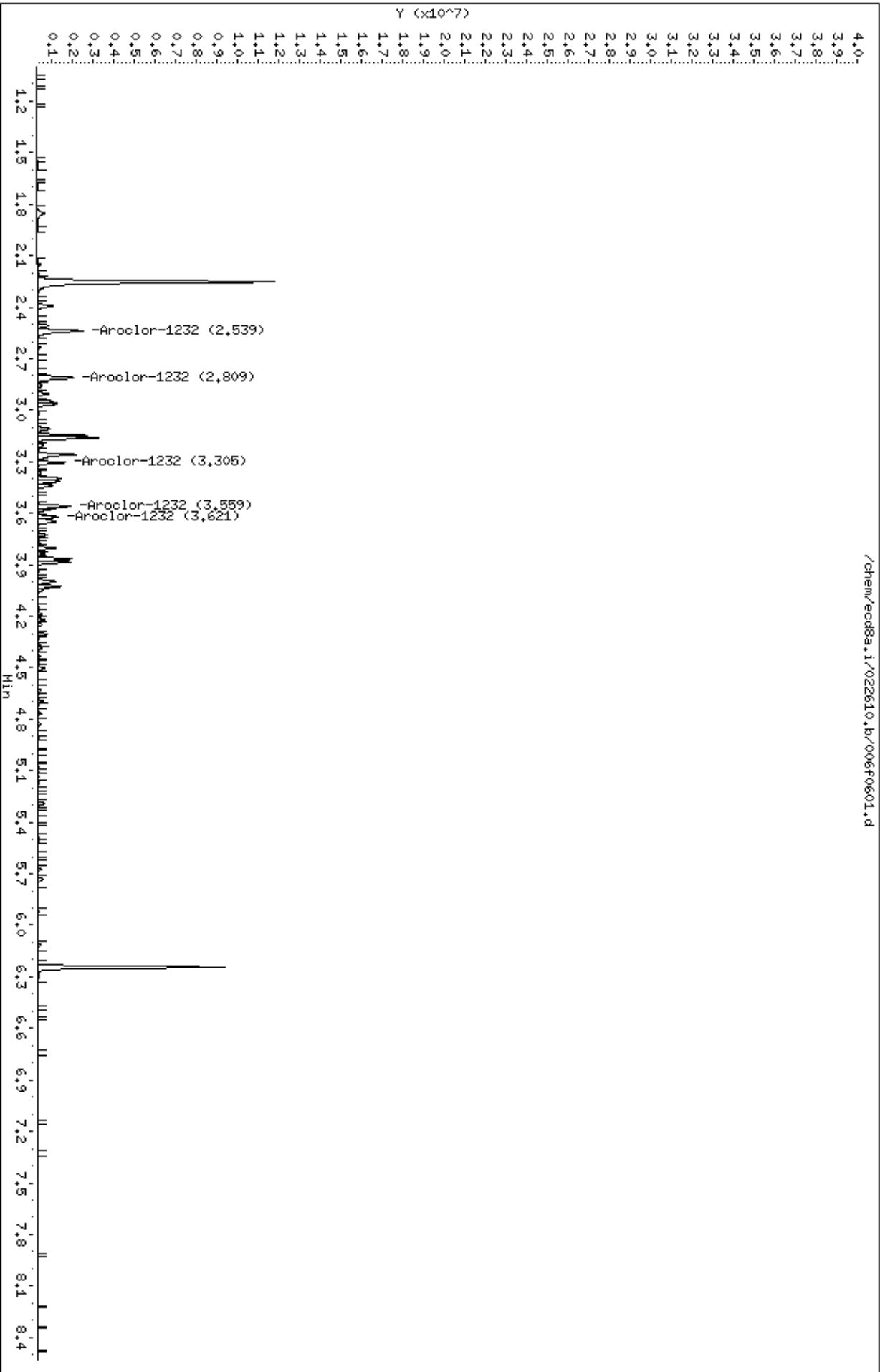
CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
3 Aroclor-1232			CAS #: 11141-16-5			
2.539	2.539	0.000	2492597 1000.00	958	80.00- 120.00	100.00(M)
2.809	2.809	0.000	2216725 1000.00	980	68.93- 108.93	88.93
3.305	3.305	0.000	1163068 1000.00	935	26.66- 66.66	46.66
3.559	3.559	0.000	1433295 1000.00	969	37.50- 77.50	57.50
3.621	3.621	0.000	879222 1000.00	953	15.27- 55.27	35.27
Average of Peak Amounts =			959			

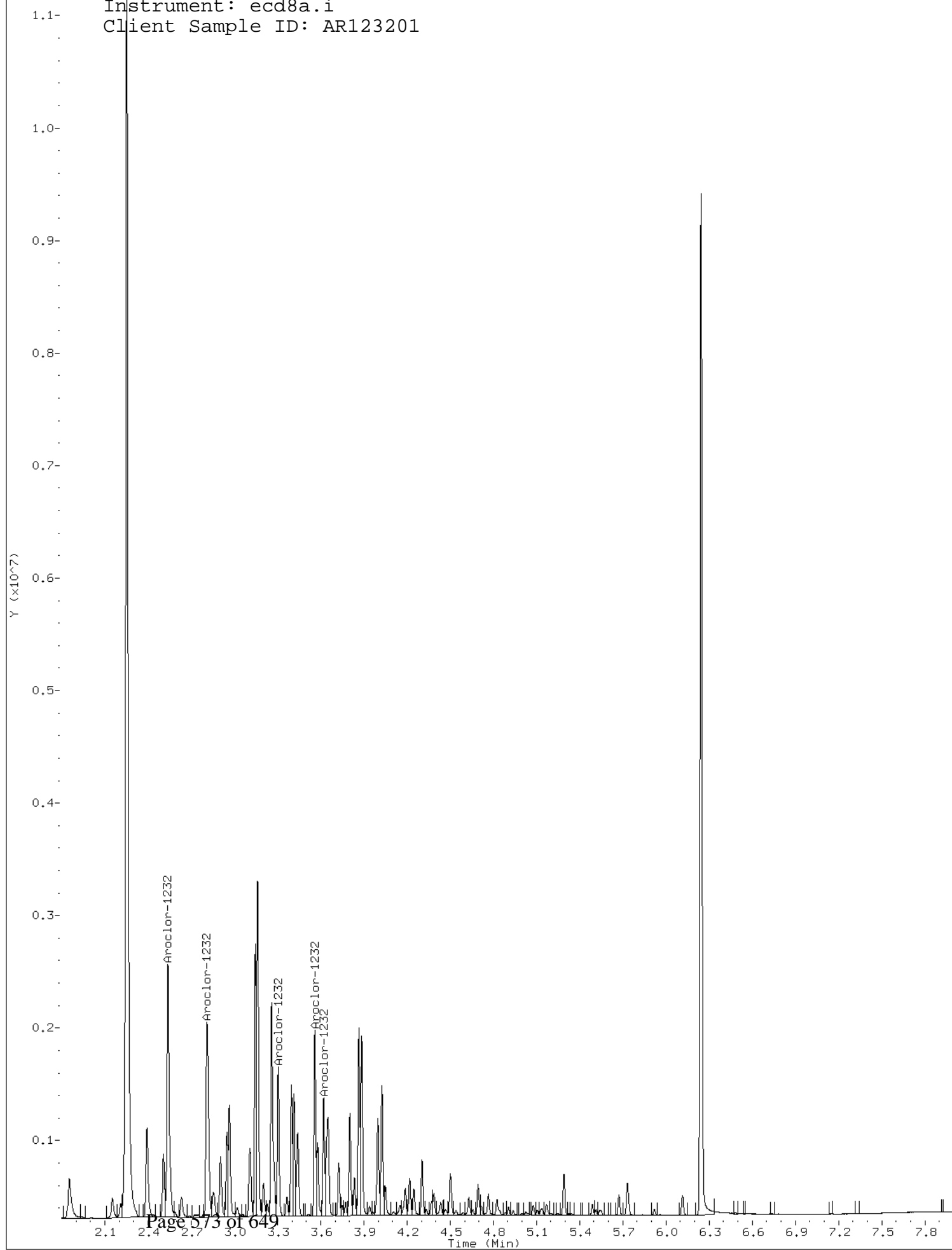
QC Flag Legend

M - Compound response manually integrated.

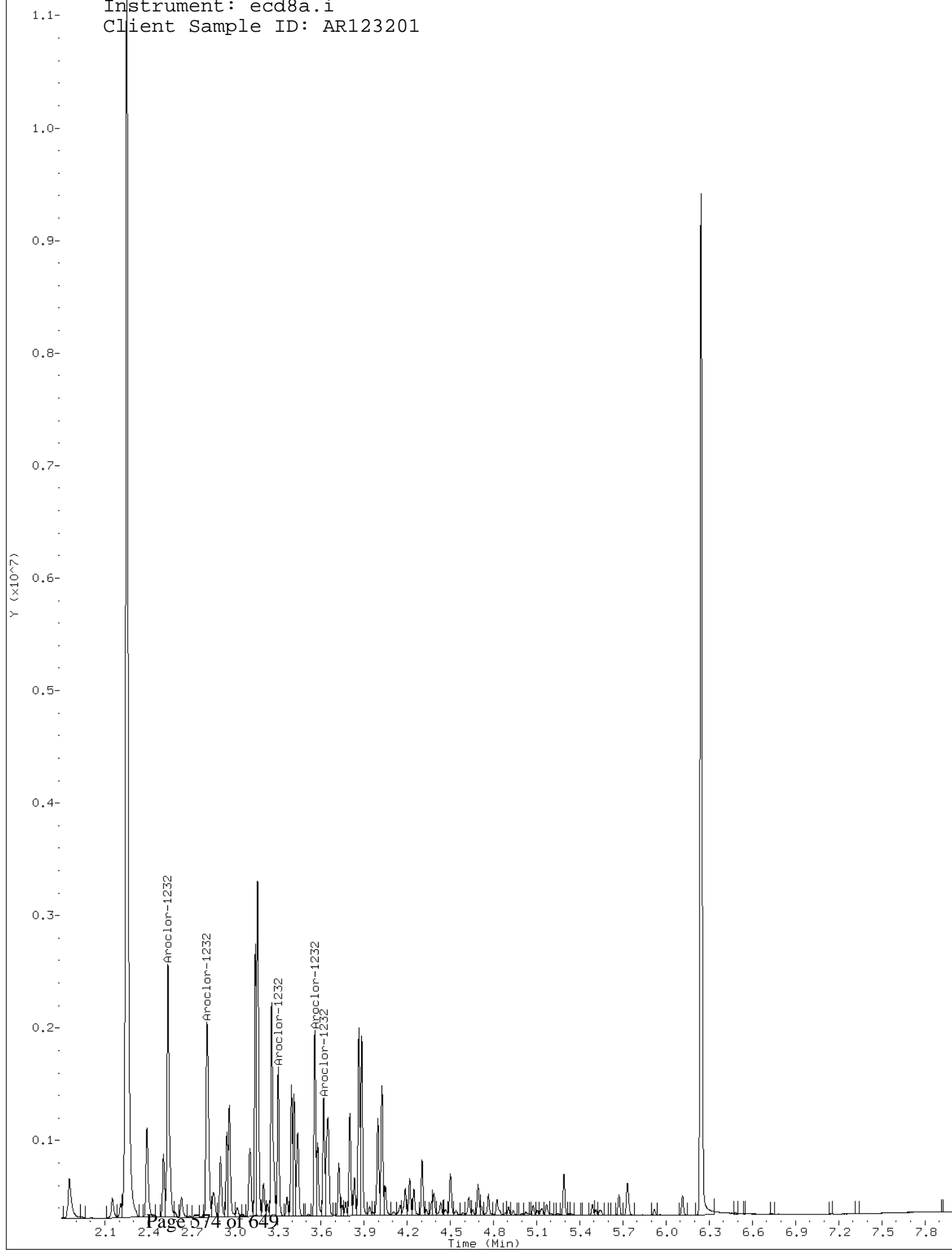
Data File: /chem/ecd8a.i/022610.b/006f0601.d
 Date : 26-FEB-2010 06:34
 Client ID: AR123201
 Sample Info: IMR100104-32
 Column phase: CLP1
 Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecd8a.i/022610.b/006f0601.d
Operator: JAOC
Injection Date: 26-FEB-2010 06:34
Instrument: ecd8a.i
Client Sample ID: AR123201



Comment: Before manual integration
Data File: /chem/ecd8a.i/022610.b/orig-006f0601.d
Operator: JAOC
Injection Date: 26-FEB-2010 06:34
Instrument: ecd8a.i
Client Sample ID: AR123201



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/006b0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 26-FEB-2010 06:34
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-32
Misc Info : |1232
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

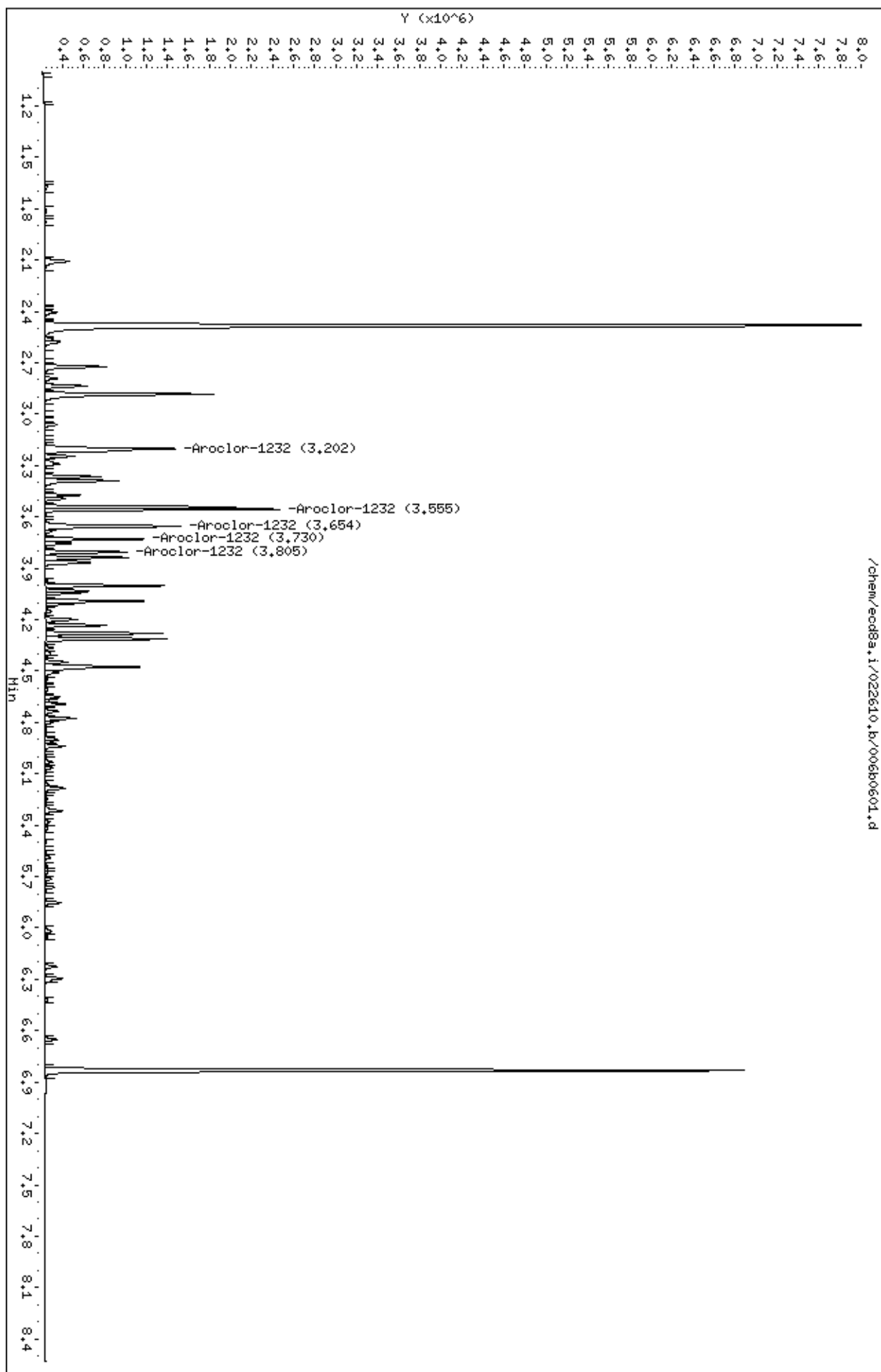
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

3 Aroclor-1232			CAS #: 11141-16-5			
3.202	3.202	0.000	1585588 1000.00	1050	80.00- 120.00	100.00
3.555	3.555	0.000	1775214 1000.00	1020	91.96- 131.96	111.96
3.654	3.654	0.000	1232297 1000.00	1050	57.72- 97.72	77.72
3.730	3.730	0.000	726461 1000.00	1020	25.82- 65.82	45.82
3.805	3.805	0.000	634572 1000.00	1030	20.02- 60.02	40.02

Average of Peak Amounts = 1.03e+03

Data File: /chem/ecod8a.i/022610.b/006b0601.d
Date : 26-FEB-2010 06:34
Client ID: AR123201
Sample Info: IMR100104-32
Column phase: CLP2

Instrument: ecod8a.i
Operator: JAOC
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/007f0701.d
Report Date: 26-Feb-2010 12:05

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/007f0701.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 26-FEB-2010 06:46
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-21
Misc Info : |1221
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 10:03 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

2	Aroclor-1221				CAS #: 11104-28-2	
2.393	2.393	0.000	1575511	1000.00	1000 80.00- 120.00	100.00
2.507	2.507	0.000	895097	1000.00	978 36.81- 76.81	56.81
2.538	2.538	0.000	3600978	1000.00	1010 208.56- 248.56	228.56
Average of Peak Amounts =				997		

Data File: /chem/ecd8a.i/022610.b/007f0701.d

Date : 26-FEB-2010 06:46

Client ID: AR122101

Sample Info: IMR100104-21

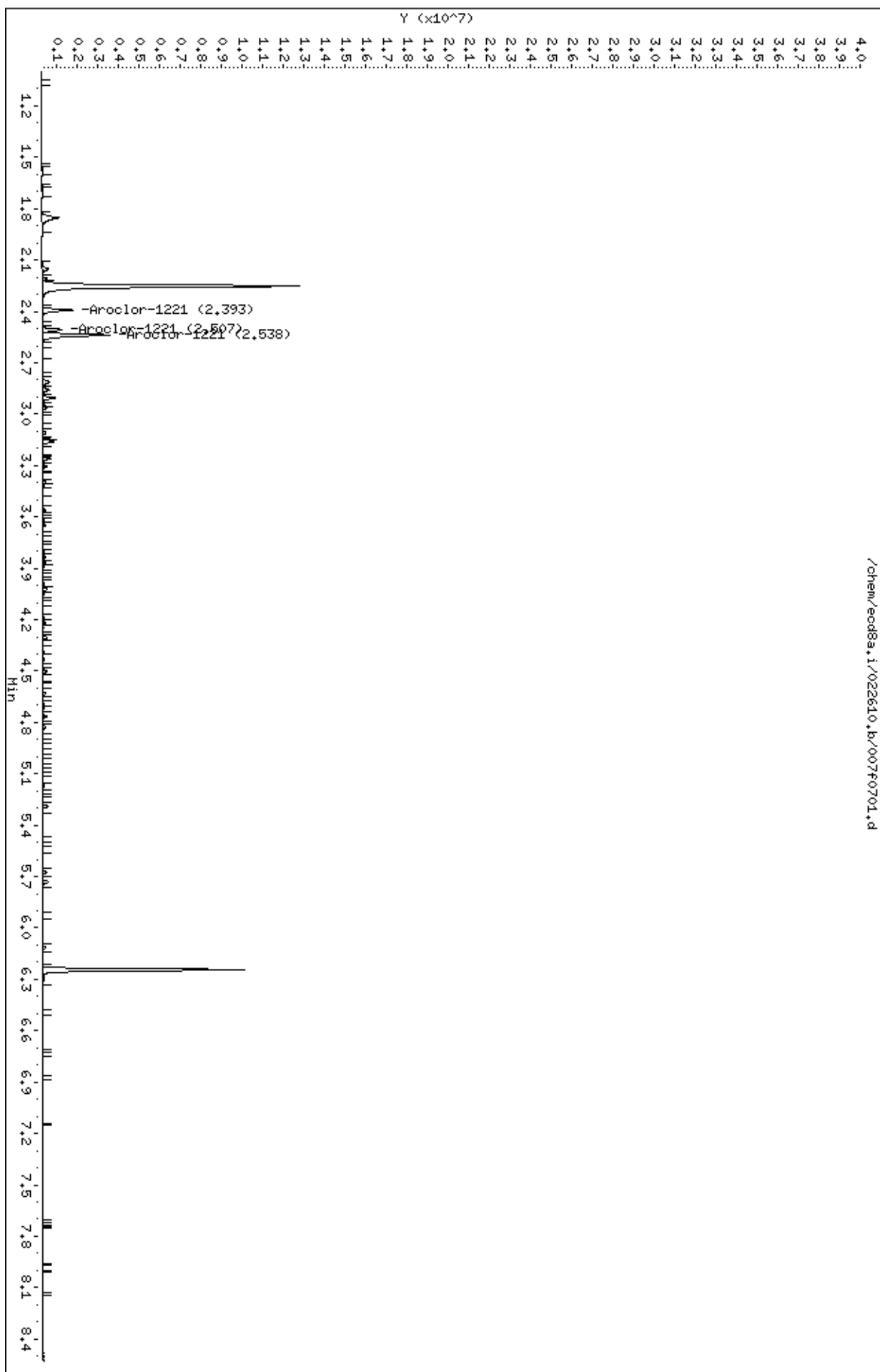
Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/022610.b/007b0701.d
Report Date: 26-Feb-2010 12:05

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/007b0701.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 26-FEB-2010 06:46
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100104-21
Misc Info : |1221
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

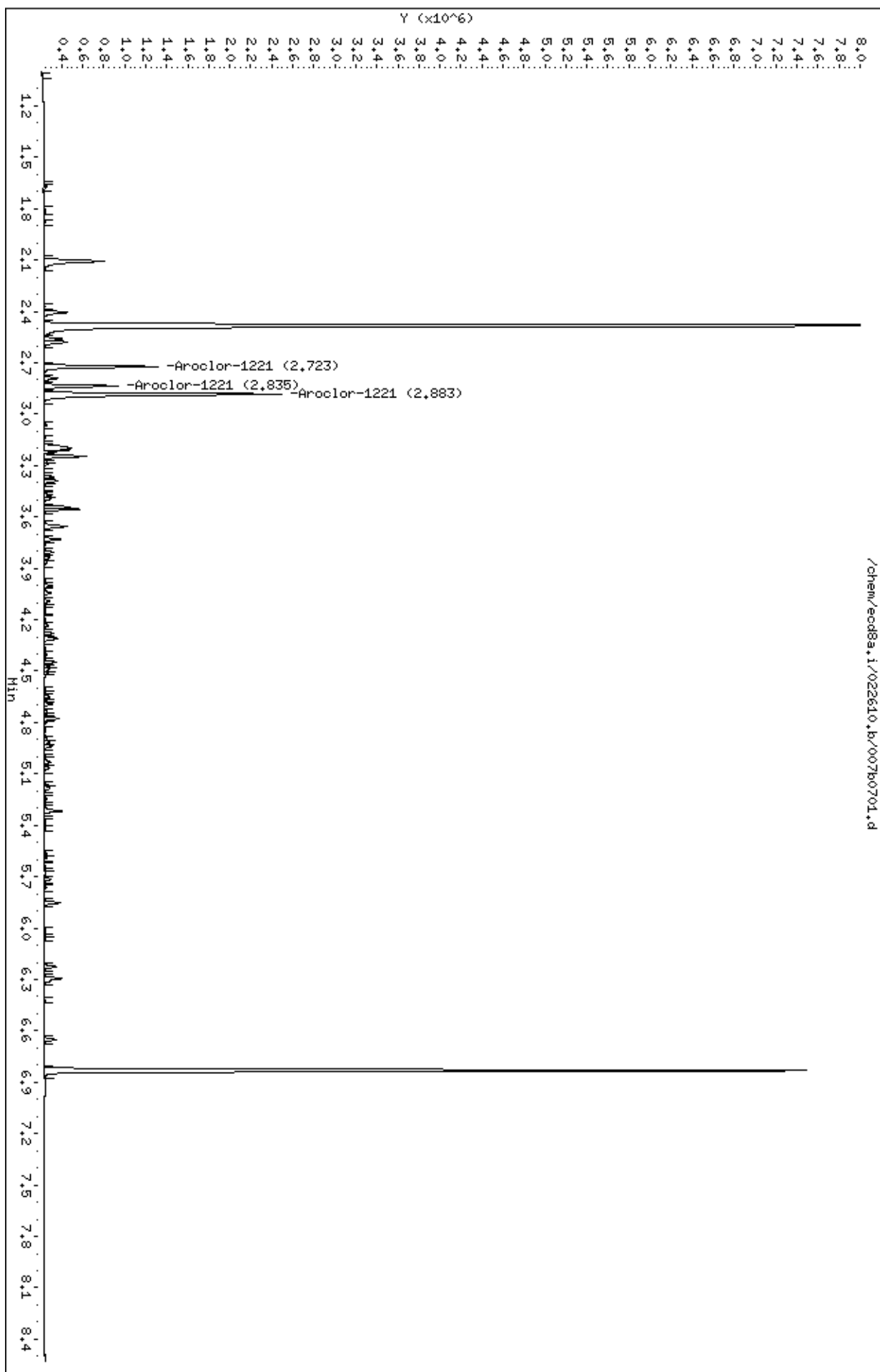
2 Aroclor-1221			CAS #: 11104-28-2			
2.723	2.723	0.000	979027 1000.00	1030	80.00- 120.00	100.00
2.835	2.835	0.000	611113 1000.00	1030	42.42- 82.42	62.42
2.883	2.883	0.000	2263116 1000.00	1040	211.16- 251.16	231.16

Average of Peak Amounts = 1.03e+03

Data File: /chem/ecod8a.i/022610.b/007b0701.d
Date : 26-FEB-2010 06:46
Client ID: AR122101
Sample Info: IMR100104-21
Column phase: CLP2

Instrument: ecod8a.i
Operator: JAOC
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/020f2001.d
Lab Smp Id: WAR100225-60 02 Client Smp ID: AR166002
Inj Date : 26-FEB-2010 09:46
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 02
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 10:03 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.250	2.251	-0.001	12746140	100.000	101	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.241	6.245	-0.004	8480799	100.000	93.9	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.807	2.810	-0.003	4376930	1000.00	962	80.00-	120.00	100.00
3.159	3.161	-0.002	5308815	1000.00	946	101.29-	141.29	121.29
3.302	3.305	-0.003	2269304	1000.00	948	31.85-	71.85	51.85
3.395	3.397	-0.002	2003889	1000.00	936	25.78-	65.78	45.78
3.557	3.560	-0.003	2934807	1000.00	947	47.05-	87.05	67.05
Average of Peak Amounts =					948			

7 Aroclor-1260					CAS #: 11096-82-5			
4.430	4.434	-0.004	5939494	1000.00	917	80.00-	120.00	100.00
4.627	4.630	-0.003	8985182	1000.00	941	131.28-	171.28	151.28
4.902	4.905	-0.003	5274578	1000.00	931	68.81-	108.81	88.81
5.075	5.077	-0.002	5536757	1000.00	938	73.22-	113.22	93.22
5.485	5.488	-0.003	5855405	1000.00	940	78.58-	118.58	98.58
Average of Peak Amounts =					933			

Data File: /chem/ecd8a.i/022610.b/020f2001.d

Date : 26-FEB-2010 09:46

Client ID: AR166002

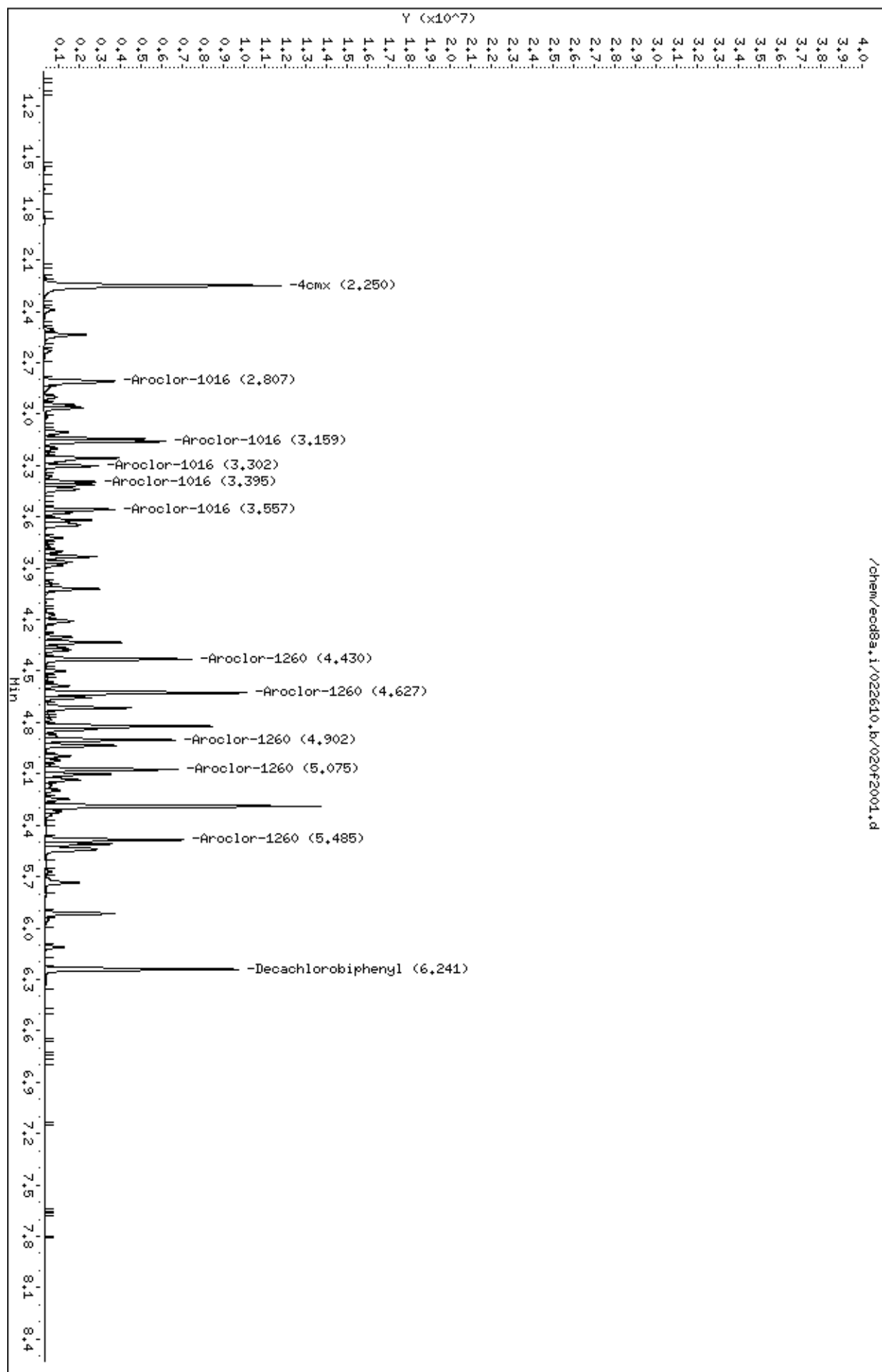
Sample Info: IMR100225-60 02

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/020b2001.d
Lab Smp Id: WAR100225-60 02 Client Smp ID: AR166002
Inj Date : 26-FEB-2010 09:46
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 02
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====		=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.481	2.482	-0.001		8694101 100.000	105	80.00- 120.00	100.00	

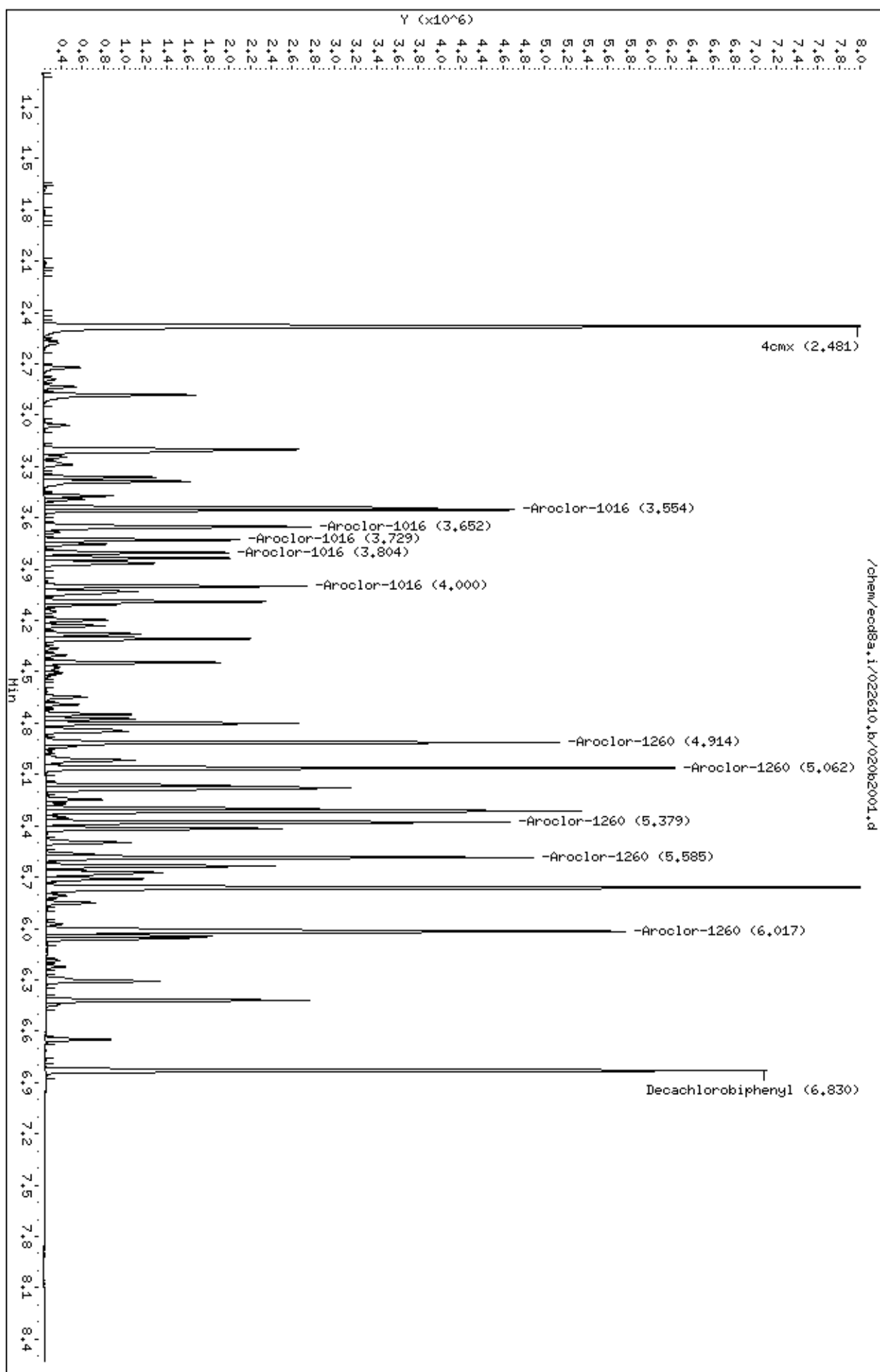
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.830	6.832	-0.002		6048633 100.000	98.1	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
3.554	3.555	-0.001		3546726 1000.00	980	80.00- 120.00	100.00	
3.652	3.654	-0.002		2453926 1000.00	1020	49.19- 89.19	69.19	
3.729	3.730	-0.001		1435155 1000.00	988	20.46- 60.46	40.46	
3.804	3.805	-0.001		1396297 1000.00	974	19.37- 59.37	39.37	
4.000	4.002	-0.002		1959471 1000.00	1000	35.25- 75.25	55.25	
Average of Peak Amounts =					992			

7 Aroclor-1260					CAS #: 11096-82-5			
4.914	4.915	-0.001		4014450 1000.00	1010	80.00- 120.00	100.00	
5.062	5.064	-0.002		4847910 1000.00	1010	100.76- 140.76	120.76	
5.379	5.381	-0.002		3722794 1000.00	1010	72.73- 112.73	92.73	
5.585	5.588	-0.003		3874644 1000.00	1010	76.52- 116.52	96.52	
6.017	6.019	-0.002		6022159 1000.00	1000	130.01- 170.01	150.01	
Average of Peak Amounts =					1.01e+03			

Data File: /chem/ecd8a.i/022610.b/020b2001.d
 Date : 26-FEB-2010 09:46
 Client ID: AR166002
 Sample Info: IHR100225-60 02
 Column phase: CLP2

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/032f3201.d
Lab Smp Id: WAR100225-60 03 Client Smp ID: AR166003
Inj Date : 26-FEB-2010 12:14
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 03
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.251	2.251	0.000	13272395	100.000	105	80.00-	120.00	100.00

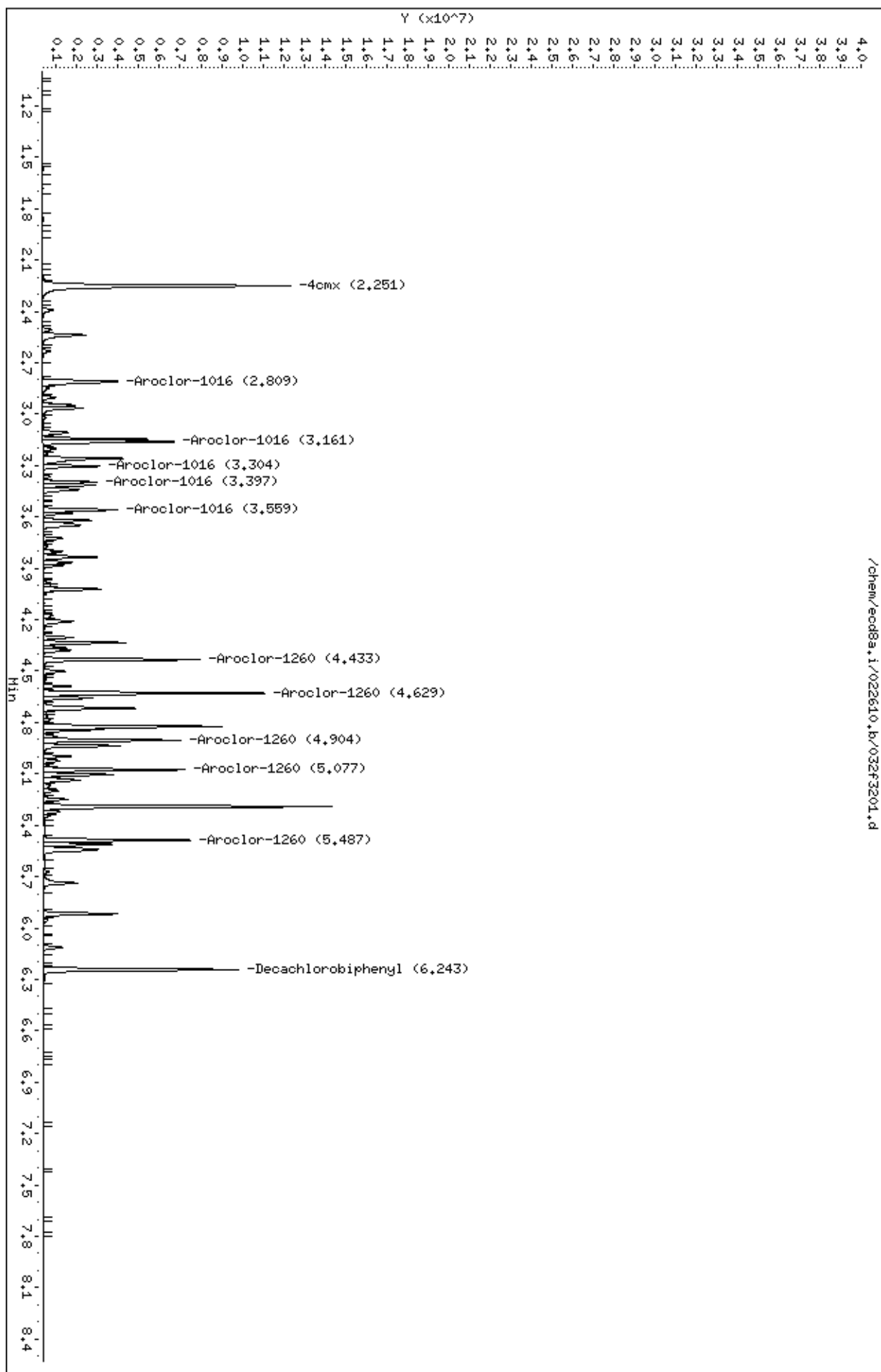
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.243	6.245	-0.002	8621204	100.000	95.4	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.809	2.810	-0.001	4581042	1000.00	1010	80.00-	120.00	100.00
3.161	3.161	0.000	5623769	1000.00	1000	102.76-	142.76	122.76
3.304	3.305	-0.001	2387191	1000.00	998	32.11-	72.11	52.11
3.397	3.397	0.000	2100567	1000.00	981	25.85-	65.85	45.85
3.559	3.560	-0.001	3139667	1000.00	1010	48.54-	88.54	68.54
Average of Peak Amounts =					1e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.433	4.434	-0.001	6437027	1000.00	994	80.00-	120.00	100.00
4.629	4.630	-0.001	9742545	1000.00	1020	131.35-	171.35	151.35
4.904	4.905	-0.001	5657860	1000.00	999	67.90-	107.90	87.90
5.077	5.077	0.000	5861915	1000.00	993	71.07-	111.07	91.07
5.487	5.488	-0.001	6138746	1000.00	986	75.37-	115.37	95.37
Average of Peak Amounts =					998			

Data File: /chem/ecod8a.i/022610.b/032f3201.d
Date : 26-FEB-2010 12:14
Client ID: AR166003
Sample Info: IMR100225-60 03
Column phase: CLP1

Instrument: ecod8a.i
Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/032b3201.d
Lab Smp Id: WAR100225-60 03 Client Smp ID: AR166003
Inj Date : 26-FEB-2010 12:14
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 03
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.482	2.482	0.000	8740851	100.000	106	80.00-	120.00	100.00

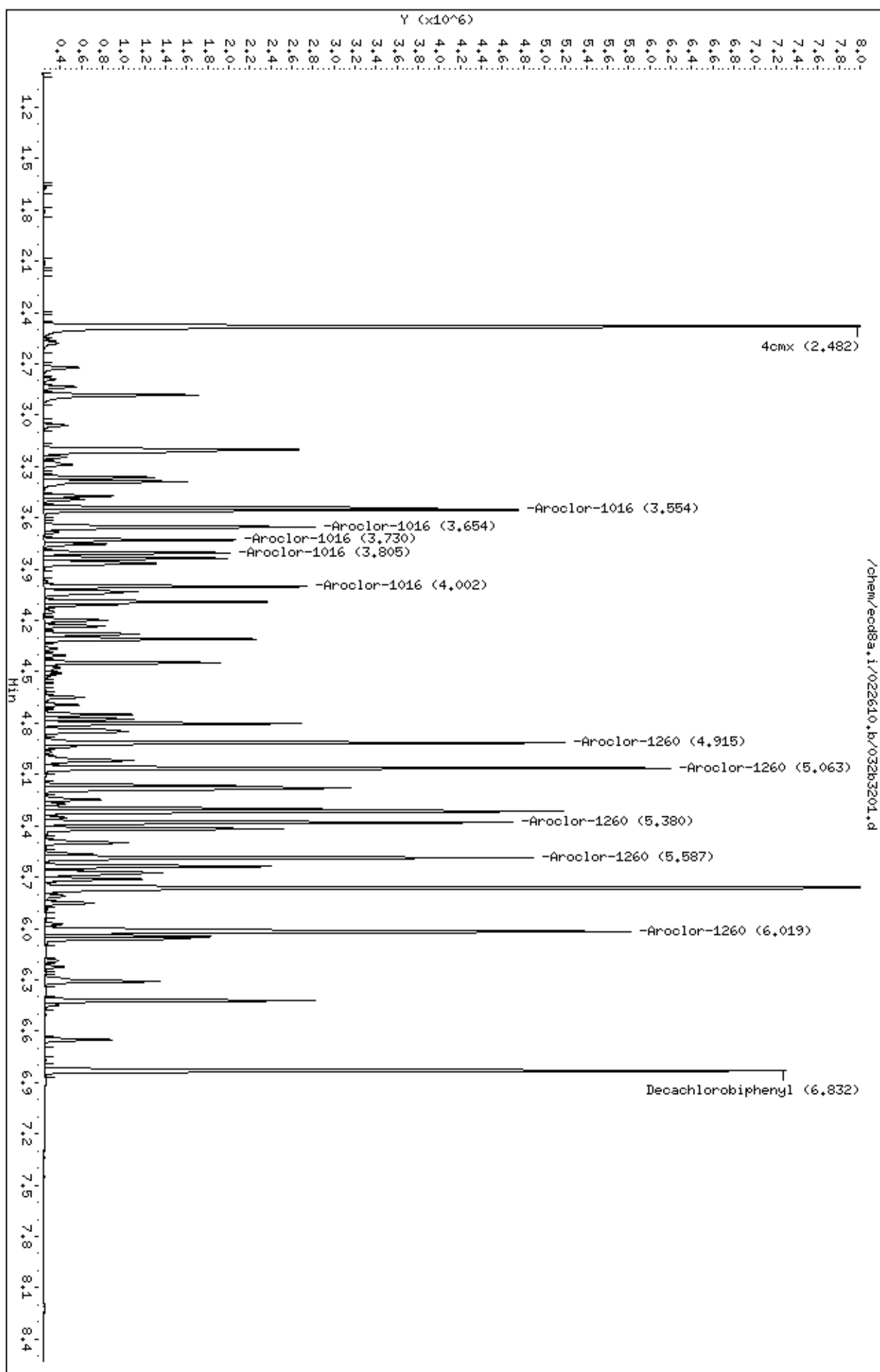
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.832	6.832	0.000	6094545	100.000	98.9	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.554	3.555	-0.001	3569149	1000.00	986	80.00-	120.00	100.00
3.654	3.654	0.000	2471877	1000.00	1020	49.26-	89.26	69.26
3.730	3.730	0.000	1443549	1000.00	993	20.45-	60.45	40.45
3.805	3.805	0.000	1409557	1000.00	983	19.49-	59.49	39.49
4.002	4.002	0.000	1975691	1000.00	1010	35.35-	75.35	55.35
Average of Peak Amounts =					999			

7 Aroclor-1260					CAS #: 11096-82-5			
4.915	4.915	0.000	4026293	1000.00	1020	80.00-	120.00	100.00
5.063	5.064	-0.001	4862334	1000.00	1010	100.76-	140.76	120.76
5.380	5.381	-0.001	3715523	1000.00	1010	72.28-	112.28	92.28
5.587	5.588	-0.001	3862868	1000.00	1010	75.94-	115.94	95.94
6.019	6.019	0.000	6034066	1000.00	1010	129.87-	169.87	149.87
Average of Peak Amounts =					1.01e+03			

Data File: /chem/ecd8a.i/022610.b/032b3201.d
Date: 26-FEB-2010 12:14
Client ID: AR166003
Sample Info: IWR100225-60 03
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/044f4401.d
Lab Smp Id: WAR100225-60 04 Client Smp ID: AR166004
Inj Date : 26-FEB-2010 14:43
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 04
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 44 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	

\$ 11 4cmx					CAS #: 877-09-8			
2.251	2.251	0.000	13233538	100.000	105	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.244	6.245	-0.001	8704517	100.000	96.4	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.809	2.810	-0.001	4541077	1000.00	998	80.00- 120.00	100.00	
3.161	3.161	0.000	5823408	1000.00	1040	104.84- 144.84	128.24	
3.304	3.305	-0.001	2433859	1000.00	1020	33.07- 73.07	53.60	
3.396	3.397	-0.001	2072037	1000.00	968	26.78- 66.78	45.63	
3.559	3.560	-0.001	3105421	1000.00	1000	48.31- 88.31	68.39	
Average of Peak Amounts =					1e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.433	4.434	-0.001	6251870	1000.00	965	80.00- 120.00	100.00	
4.629	4.630	-0.001	9416695	1000.00	986	131.74- 171.74	150.62	
4.904	4.905	-0.001	5516477	1000.00	974	69.00- 109.00	88.24	
5.076	5.077	-0.001	5745470	1000.00	973	72.38- 112.38	91.90	
5.488	5.488	0.000	6132995	1000.00	985	77.14- 117.14	98.10	
Average of Peak Amounts =					977			

Data File: /chem/ecd8a.i/022610.b/044f4401.d

Date : 26-FEB-2010 14:43

Client ID: AR166004

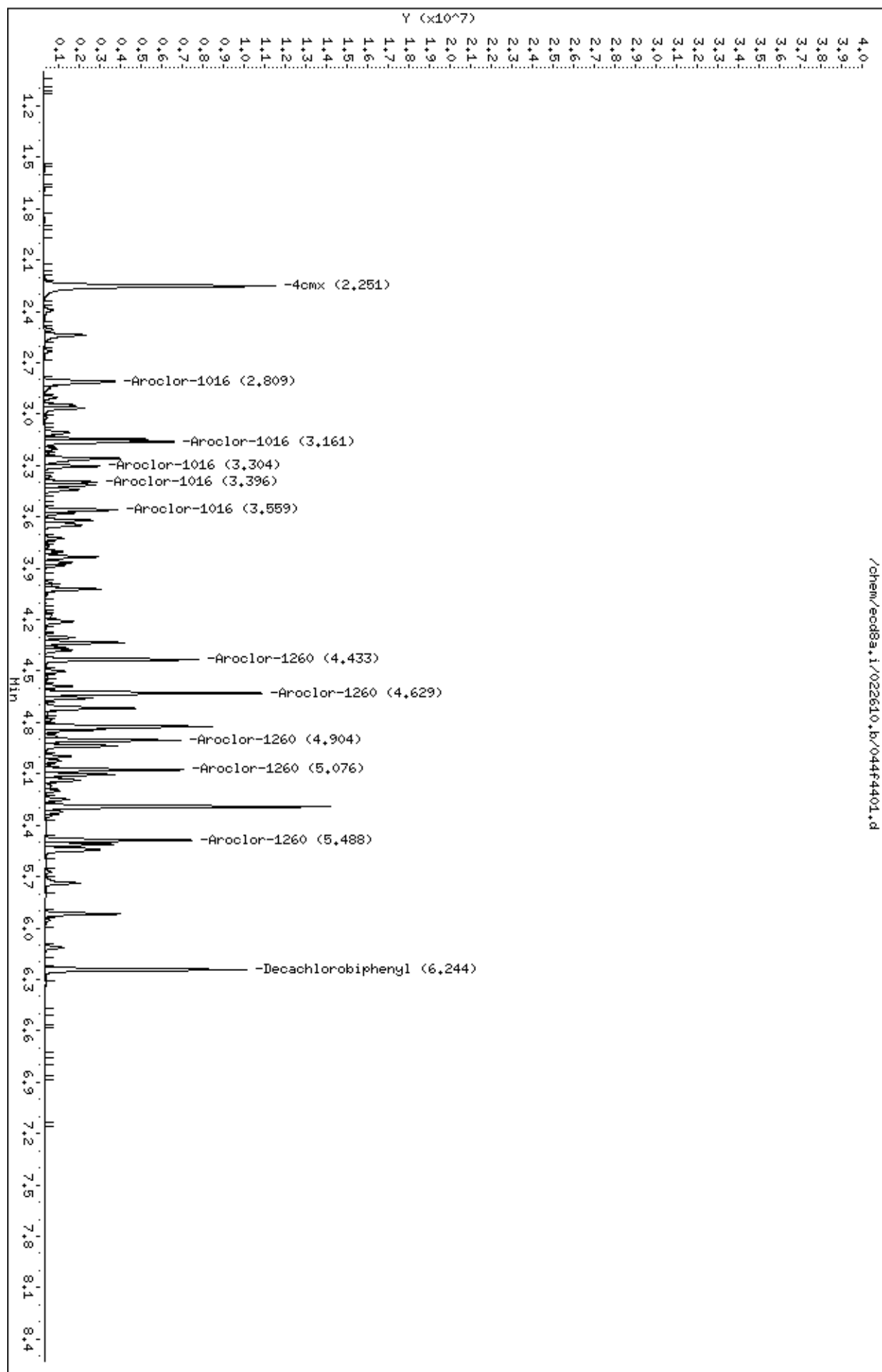
Sample Info: IMR100225-60 04

Column phase: CLP1

Instrument: ecd8a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/044b4401.d
Lab Smp Id: WAR100225-60 04 Client Smp ID: AR166004
Inj Date : 26-FEB-2010 14:43
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 04
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 44 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.482	2.482	0.000	9010431	100.000	109	80.00-	120.00	100.00

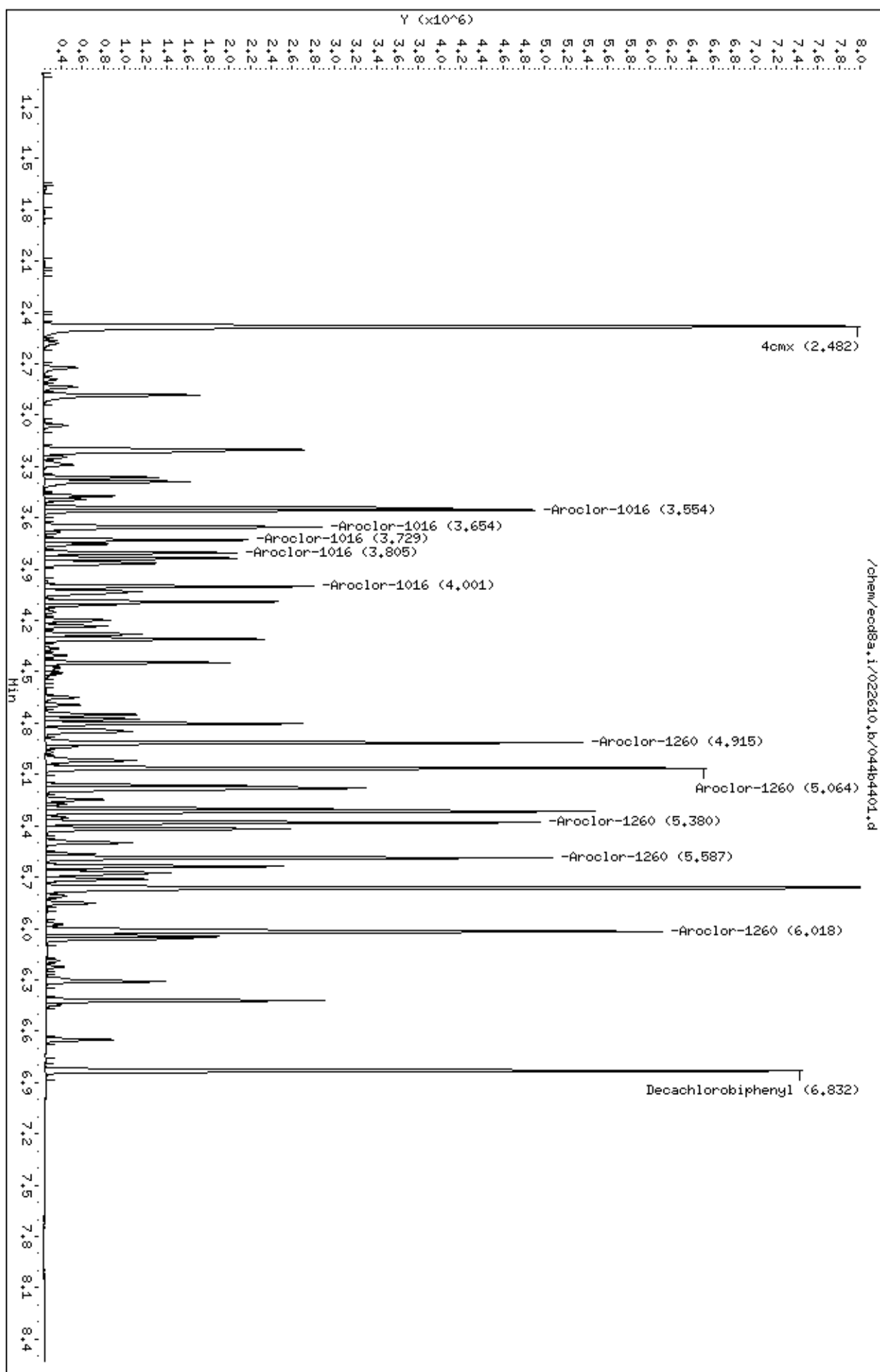
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.832	6.832	0.000	6292898	100.000	102	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.554	3.555	-0.001	3880770	1000.00	1070	80.00-	120.00	100.00
3.654	3.654	0.000	2552859	1000.00	1060	45.66-	85.66	65.78
3.729	3.730	-0.001	1518342	1000.00	1040	19.41-	59.41	39.12
3.805	3.805	0.000	1475125	1000.00	1030	18.16-	58.16	38.01
4.001	4.002	-0.001	2071200	1000.00	1060	33.55-	73.55	53.37
Average of Peak Amounts =					1.05e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.915	4.915	0.000	4204078	1000.00	1060	80.00-	120.00	100.00
5.064	5.064	0.000	5071797	1000.00	1050	100.35-	140.35	120.64
5.380	5.381	-0.001	3870314	1000.00	1050	71.55-	111.55	92.06
5.587	5.588	-0.001	4037143	1000.00	1060	75.81-	115.81	96.03
6.018	6.019	-0.001	6271605	1000.00	1050	128.72-	168.72	149.18
Average of Peak Amounts =					1.05e+03			

Data File: /chem/ecd8a.i/022610.b/044b4401.d
 Date : 26-FEB-2010 14:43
 Client ID: AR166004
 Sample Info: IMR100225-60 04
 Column phase: CLP2

Instrument: ecd8a.i
 Operator: JAOC
 Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/051f5101.d
Lab Smp Id: WAR100225-60 05 Client Smp ID: AR166005
Inj Date : 26-FEB-2010 16:10
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 05
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 51 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====		=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
2.252	2.251	0.001	13301521	100.000	106	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.243	6.245	-0.002	8636599	100.000	95.6	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.810	2.810	0.000	4570986	1000.00	1000	80.00- 120.00	100.00	
3.161	3.161	0.000	5706378	1000.00	1020	104.84- 144.84	124.84	
3.305	3.305	0.000	2426020	1000.00	1010	33.07- 73.07	53.07	
3.396	3.397	-0.001	2138449	1000.00	999	26.78- 66.78	46.78	
3.559	3.560	-0.001	3122520	1000.00	1010	48.31- 88.31	68.31	
Average of Peak Amounts =					1.01e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.433	4.434	-0.001	6422067	1000.00	992	80.00- 120.00	100.00	
4.628	4.630	-0.002	9744598	1000.00	1020	131.74- 171.74	151.74	
4.904	4.905	-0.001	5715953	1000.00	1010	69.00- 109.00	89.00	
5.076	5.077	-0.001	5932930	1000.00	1000	72.38- 112.38	92.38	
5.487	5.488	-0.001	6238193	1000.00	1000	77.14- 117.14	97.14	
Average of Peak Amounts =					1.01e+03			

Data File: /chem/ecd8a.i/022610.b/051f5101.d

Date : 26-FEB-2010 16:10

Client ID: AR166005

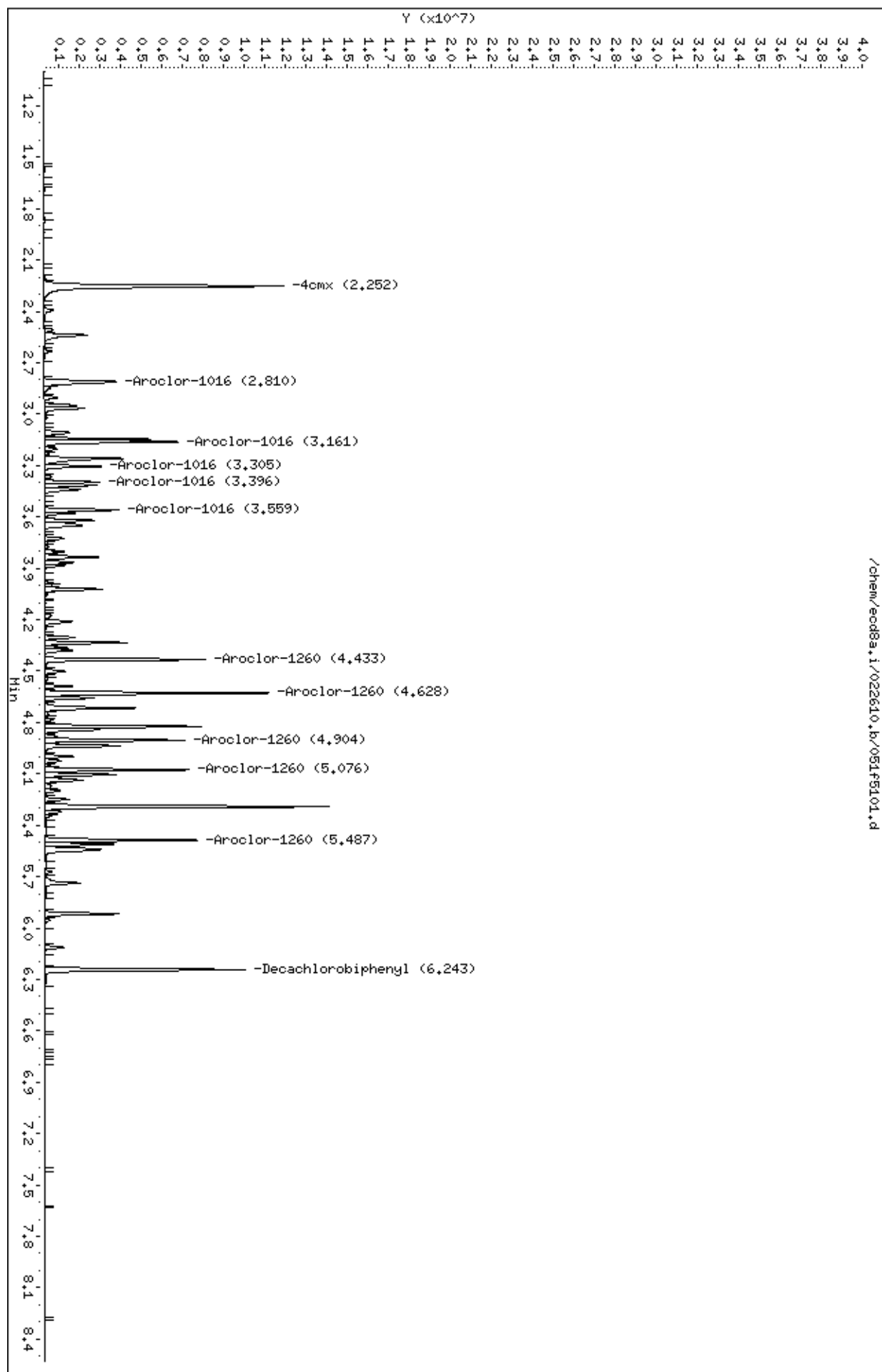
Sample Info: IMR100225-60 05

Instrument: ecd8a.i

Column phase: CLP1

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/051b5101.d
Lab Smp Id: WAR100225-60 05 Client Smp ID: AR166005
Inj Date : 26-FEB-2010 16:10
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR100225-60 05
Misc Info : |1660
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 51 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.483	2.482	0.001	8959668	100.000	109	80.00-	120.00	100.00

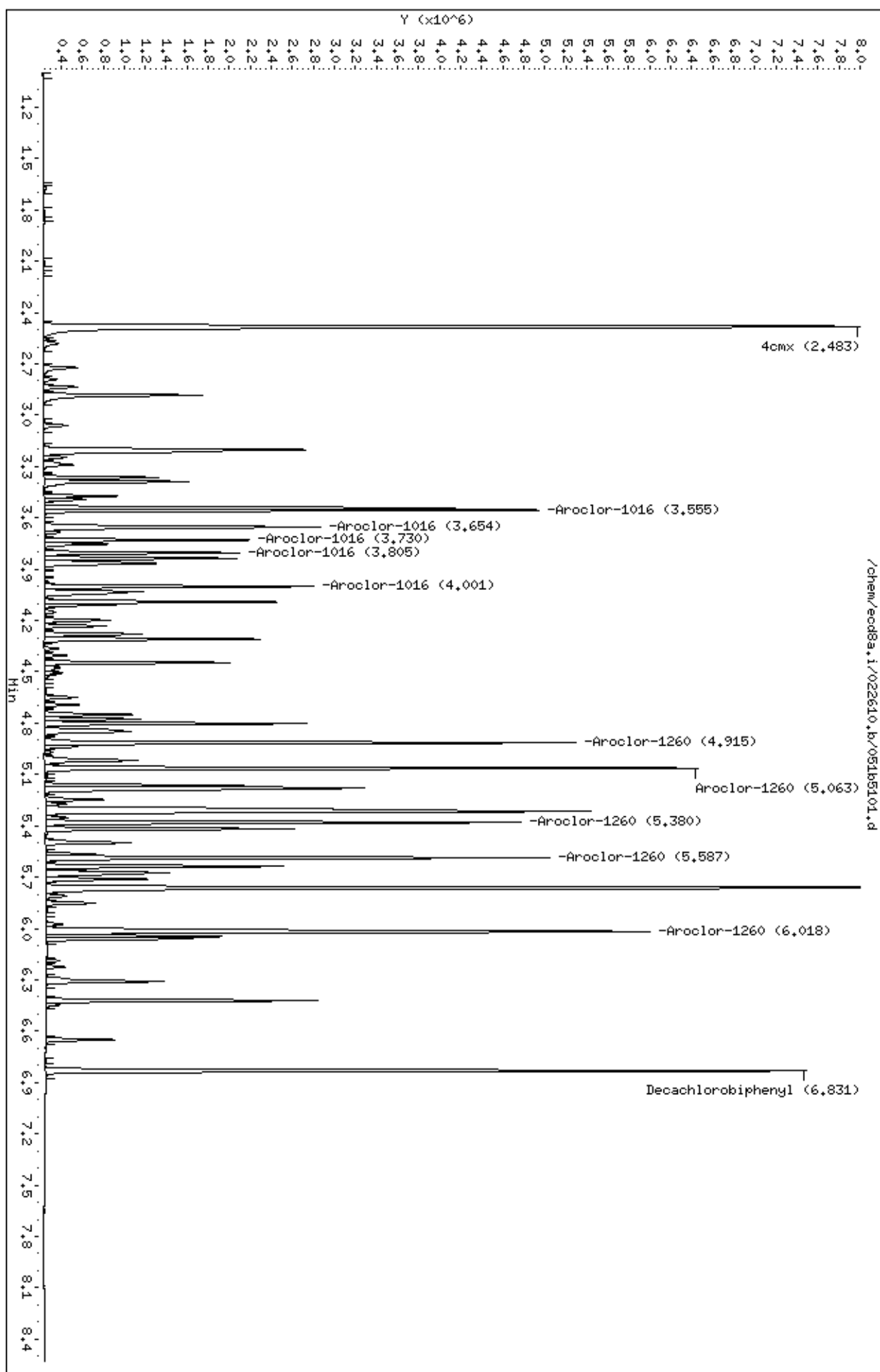
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.831	6.832	-0.001	6181595	100.000	100	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.555	3.555	0.000	3877172	1000.00	1070	80.00-	120.00	100.00
3.654	3.654	0.000	2545911	1000.00	1060	45.66-	85.66	65.66
3.730	3.730	0.000	1528092	1000.00	1050	19.41-	59.41	39.41
3.805	3.805	0.000	1479573	1000.00	1030	18.16-	58.16	38.16
4.001	4.002	-0.001	2076071	1000.00	1060	33.55-	73.55	53.55
Average of Peak Amounts =					1.05e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.915	4.915	0.000	4210375	1000.00	1060	80.00-	120.00	100.00
5.063	5.064	-0.001	5067331	1000.00	1050	100.35-	140.35	120.35
5.380	5.381	-0.001	3854495	1000.00	1050	71.55-	111.55	91.55
5.587	5.588	-0.001	4033972	1000.00	1050	75.81-	115.81	95.81
6.018	6.019	-0.001	6261693	1000.00	1040	128.72-	168.72	148.72
Average of Peak Amounts =					1.05e+03			

Data File: /chem/ecd8a.i/022610.b/051b5101.d
Date : 26-FEB-2010 16:10
Client ID: AR166005
Sample Info: IMR100225-60 05
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.26		DCB: 6.25			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01	PIBLK01	WAR091130-99	02/03/10	1012	2.25 6.24
02	AR166001	WAR100203-01	02/03/10	1024	2.26 6.25
03	AR166002	WAR100203-02	02/03/10	1037	2.26 6.25
04	AR166003	WAR100203-03	02/03/10	1049	2.26 6.25
05	AR166004	WAR100203-04	02/03/10	1101	2.26 6.25
06	AR166005	IAR100104-01	02/03/10	1114	2.26 6.25
07	AR166001	WAR100203-60	02/03/10	1126	2.26 6.25
08	AR125401	WAR100203-05	02/03/10	1139	
09	AR125402	WAR100203-06	02/03/10	1151	
10	AR125403	WAR100203-07	02/03/10	1203	
11	AR125404	WAR100203-08	02/03/10	1216	
12	AR125405	IAR091027-01	02/03/10	1228	
13	AR125401	WAR091216-54	02/03/10	1240	
14	AR124201	WAR100203-09	02/03/10	1253	
15	AR124202	WAR100203-10	02/03/10	1305	
16	AR124203	WAR100203-11	02/03/10	1318	
17	AR124204	WAR100203-12	02/03/10	1330	
18	AR124205	IAR091111-01	02/03/10	1342	
19	AR124201	WAR091217-42	02/03/10	1355	
20	AR124801	WAR100203-13	02/03/10	1407	
21	AR124802	WAR100203-14	02/03/10	1419	
22	AR124803	WAR100203-15	02/03/10	1432	
23	AR124804	WAR100203-16	02/03/10	1444	
24	AR124805	IAR091027-02	02/03/10	1457	
25	AR124801	WAR091217-48	02/03/10	1509	
26	AR123201	WAR100104-32	02/03/10	1521	
27	AR122101	WAR100104-21	02/03/10	1534	
28	AR126201	WAR100203-17	02/03/10	1546	
29	AR126202	WAR100203-18	02/03/10	1558	
30	AR126203	WAR100203-19	02/03/10	1611	
31	AR126204	WAR100203-20	02/03/10	1623	
32	AR126205	IAR100104-04	02/03/10	1636	

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.26		DCB: 6.25			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01	AR126201	WAR100104-62	02/03/10 1648		
02	AR126801	WAR091107-68	02/03/10 1700		
03	AR124801	WAR091217-48	02/03/10 1713		
04	DDTANALOGSTD	WAR091219-DD	02/03/10 1725		
05	PIBLK02	WAR091130-99	02/03/10 1738	2.26	6.25
06	ZZZZZ	ZZZZZ	02/03/10 1750	2.26	6.25
07	ZZZZZ	ZZZZZ	02/03/10 1802	2.26	6.25
08	ZZZZZ	ZZZZZ	02/03/10 1815	2.26	6.25
09	ZZZZZ	ZZZZZ	02/03/10 1827	2.26	6.25
10	ZZZZZ	ZZZZZ	02/03/10 1839	2.26	6.25
11	ZZZZZ	ZZZZZ	02/03/10 1852	2.26	6.25
12	ZZZZZ	ZZZZZ	02/03/10 1904	2.26	6.25
13	ZZZZZ	ZZZZZ	02/03/10 1916	2.26	6.25
14	ZZZZZ	ZZZZZ	02/03/10 1929	2.26	6.25
15	ZZZZZ	ZZZZZ	02/03/10 1941	2.26	6.25
16	AR166002	WAR100203-60	02/03/10 1954	2.26	6.25
17	PIBLK03	WAR091130-99	02/03/10 2006	2.26	6.25
18	ZZZZZ	ZZZZZ	02/03/10 2018	2.26	6.25
19	ZZZZZ	ZZZZZ	02/03/10 2031	2.26	6.25
20	ZZZZZ	ZZZZZ	02/03/10 2043	2.26	6.25
21	ZZZZZ	ZZZZZ	02/03/10 2055	2.26	6.25
22	AR166003	WAR100203-60	02/03/10 2108	2.26	6.25
23	PIBLK04	WAR091130-99	02/03/10 2120	2.26	6.25
24	ZZZZZ	ZZZZZ	02/03/10 2133	2.26	6.25
25	ZZZZZ	ZZZZZ	02/03/10 2145	2.26	6.25
26	ZZZZZ	ZZZZZ	02/03/10 2157	2.26	6.25
27	AR166004	WAR100203-60	02/03/10 2210	2.26	6.25
28	PIBLK05	WAR091130-99	02/03/10 2222	2.26	6.25
29	ZZZZZ	ZZZZZ	02/03/10 2234	2.26	6.25
30	ZZZZZ	ZZZZZ	02/03/10 2247	2.26	6.25
31	ZZZZZ	ZZZZZ	02/03/10 2259		
32	ZZZZZ	ZZZZZ	02/03/10 2312		

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.49		DCB: 6.84			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01	PIBLK01	WAR091130-99	02/03/10	1012	2.49 6.84
02	AR166001	WAR100203-01	02/03/10	1024	2.49 6.84
03	AR166002	WAR100203-02	02/03/10	1037	2.49 6.84
04	AR166003	WAR100203-03	02/03/10	1049	2.49 6.84
05	AR166004	WAR100203-04	02/03/10	1101	2.49 6.84
06	AR166005	IAR100104-01	02/03/10	1114	2.49 6.84
07	AR166001	WAR100203-60	02/03/10	1126	2.49 6.84
08	AR125401	WAR100203-05	02/03/10	1139	
09	AR125402	WAR100203-06	02/03/10	1151	
10	AR125403	WAR100203-07	02/03/10	1203	
11	AR125404	WAR100203-08	02/03/10	1216	
12	AR125405	IAR091027-01	02/03/10	1228	
13	AR125401	WAR091216-54	02/03/10	1240	
14	AR124201	WAR100203-09	02/03/10	1253	
15	AR124202	WAR100203-10	02/03/10	1305	
16	AR124203	WAR100203-11	02/03/10	1318	
17	AR124204	WAR100203-12	02/03/10	1330	
18	AR124205	IAR091111-01	02/03/10	1342	
19	AR124201	WAR091217-42	02/03/10	1355	
20	AR124801	WAR100203-13	02/03/10	1407	
21	AR124802	WAR100203-14	02/03/10	1419	
22	AR124803	WAR100203-15	02/03/10	1432	
23	AR124804	WAR100203-16	02/03/10	1444	
24	AR124805	IAR091027-02	02/03/10	1457	
25	AR124801	WAR091217-48	02/03/10	1509	
26	AR123201	WAR100104-32	02/03/10	1521	
27	AR122101	WAR100104-21	02/03/10	1534	
28	AR126201	WAR100203-17	02/03/10	1546	
29	AR126202	WAR100203-18	02/03/10	1558	
30	AR126203	WAR100203-19	02/03/10	1611	
31	AR126204	WAR100203-20	02/03/10	1623	
32	AR126205	IAR100104-04	02/03/10	1636	

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/03/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.49		DCB: 6.84			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01	AR126201	WAR100104-62	02/03/10 1648		
02	AR126801	WAR091107-68	02/03/10 1700		
03	AR124801	WAR091217-48	02/03/10 1713		
04	DDTANALOGSTD	WAR091219-DD	02/03/10 1725		
05	PIBLK02	WAR091130-99	02/03/10 1738	2.49	6.84
06	ZZZZZ	ZZZZZ	02/03/10 1750	2.49	6.84
07	ZZZZZ	ZZZZZ	02/03/10 1802	2.49	6.84
08	ZZZZZ	ZZZZZ	02/03/10 1815	2.49	6.84
09	ZZZZZ	ZZZZZ	02/03/10 1827	2.49	6.84
10	ZZZZZ	ZZZZZ	02/03/10 1839	2.49	6.84
11	ZZZZZ	ZZZZZ	02/03/10 1852	2.49	6.84
12	ZZZZZ	ZZZZZ	02/03/10 1904	2.49	6.84
13	ZZZZZ	ZZZZZ	02/03/10 1916	2.49	6.84
14	ZZZZZ	ZZZZZ	02/03/10 1929	2.49	6.84
15	ZZZZZ	ZZZZZ	02/03/10 1941	2.49	6.84
16	AR166002	WAR100203-60	02/03/10 1954	2.49	6.84
17	PIBLK03	WAR091130-99	02/03/10 2006	2.49	6.84
18	ZZZZZ	ZZZZZ	02/03/10 2018	2.49	6.84
19	ZZZZZ	ZZZZZ	02/03/10 2031	2.49	6.84
20	ZZZZZ	ZZZZZ	02/03/10 2043	2.49	6.84
21	ZZZZZ	ZZZZZ	02/03/10 2055	2.49	6.84
22	AR166003	WAR100203-60	02/03/10 2108	2.49	6.84
23	PIBLK04	WAR091130-99	02/03/10 2120	2.49	6.84
24	ZZZZZ	ZZZZZ	02/03/10 2133	2.49	6.84
25	ZZZZZ	ZZZZZ	02/03/10 2145	2.49	6.84
26	ZZZZZ	ZZZZZ	02/03/10 2157	2.49	6.84
27	AR166004	WAR100203-60	02/03/10 2210	2.49	6.84
28	PIBLK05	WAR091130-99	02/03/10 2222	2.49	6.84
29	ZZZZZ	ZZZZZ	02/03/10 2234	2.49	6.84
30	ZZZZZ	ZZZZZ	02/03/10 2247	2.49	6.84
31	ZZZZZ	ZZZZZ	02/03/10 2259		
32	ZZZZZ	ZZZZZ	02/03/10 2312		

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.25		DCB: 6.24			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01 PIBLK01	WAR100105-99	02/23/10	0814	2.25	6.24
02 ZZZZZ	ZZZZZ	02/23/10	0826	2.25	6.24
03 AR125401	WAR100201-54	02/23/10	0839		
04 AR124201	WAR091217-42	02/23/10	0851		
05 AR124801	WAR091217-48	02/23/10	0903		
06 AR123201	WAR100104-32	02/23/10	0916		
07 AR166001	WAR100223-01	02/23/10	0928	2.25	6.24
08 AR166002	WAR100223-02	02/23/10	0941	2.25	6.24
09 AR166003	WAR100223-03	02/23/10	0953	2.25	6.24
10 AR166004	WAR100223-04	02/23/10	1005	2.25	6.24
11 AR166005	IAR100223-01	02/23/10	1018	2.25	6.24
12 ZZZZZ	ZZZZZ	02/23/10	1030	2.25	6.24
13 AR122101	WAR100223-05	02/23/10	1043		
14 AR122102	WAR100223-06	02/23/10	1055		
15 AR122103	WAR100223-07	02/23/10	1107		
16 AR122104	WAR100223-08	02/23/10	1120		
17 AR122105	IAR100104-02	02/23/10	1132		
18 AR122101	WAR100104-21	02/23/10	1145		
19 AR166001	WAR100222-60	02/23/10	1157	2.25	6.24
20 AR126201	WAR100104-62	02/23/10	1209		
21 AR126801	WAR100107-68	02/23/10	1222		
22 DDTANALOGSTD	WAR091219-DD	02/23/10	1234		
23 PIBLK02	WAR100105-99	02/23/10	1246	2.25	6.24
24 ZZZZZ	ZZZZZ	02/23/10	1259	2.25	6.24
25 ZZZZZ	ZZZZZ	02/23/10	1311	2.25	6.24
26 ZZZZZ	ZZZZZ	02/23/10	1324	2.25	6.24
27 ZZZZZ	ZZZZZ	02/23/10	1336	2.25	6.24
28 ZZZZZ	ZZZZZ	02/23/10	1348	2.25	6.24
29 AR166002	WAR100222-60	02/23/10	1401	2.25	6.24
30 PIBLK03	WAR100105-99	02/23/10	1413	2.25	6.24
31 ZZZZZ	ZZZZZ	02/23/10	1426	2.25	6.24
32 ZZZZZ	ZZZZZ	02/23/10	1438	2.25	6.24

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.48		DCB: 6.83			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01 PIBLK01	WAR100105-99	02/23/10	0814	2.48	6.83
02 ZZZZZ	ZZZZZ	02/23/10	0826	2.48	6.83
03 AR125401	WAR100201-54	02/23/10	0839		
04 AR124201	WAR091217-42	02/23/10	0851		
05 AR124801	WAR091217-48	02/23/10	0903		
06 AR123201	WAR100104-32	02/23/10	0916		
07 AR166001	WAR100223-01	02/23/10	0928	2.48	6.83
08 AR166002	WAR100223-02	02/23/10	0941	2.48	6.83
09 AR166003	WAR100223-03	02/23/10	0953	2.48	6.83
10 AR166004	WAR100223-04	02/23/10	1005	2.48	6.83
11 AR166005	IAR100223-01	02/23/10	1018	2.48	6.83
12 ZZZZZ	ZZZZZ	02/23/10	1030	2.48	6.83
13 AR122101	WAR100223-05	02/23/10	1043		
14 AR122102	WAR100223-06	02/23/10	1055		
15 AR122103	WAR100223-07	02/23/10	1107		
16 AR122104	WAR100223-08	02/23/10	1120		
17 AR122105	IAR100104-02	02/23/10	1132		
18 AR122101	WAR100104-21	02/23/10	1145		
19 AR166001	WAR100222-60	02/23/10	1157	2.48	6.83
20 AR126201	WAR100104-62	02/23/10	1209		
21 AR126801	WAR100107-68	02/23/10	1222		
22 DDTANALOGSTD	WAR091219-DD	02/23/10	1234		
23 PIBLK02	WAR100105-99	02/23/10	1246	2.48	6.83
24 ZZZZZ	ZZZZZ	02/23/10	1259	2.48	6.83
25 ZZZZZ	ZZZZZ	02/23/10	1311	2.48	6.83
26 ZZZZZ	ZZZZZ	02/23/10	1324	2.48	6.83
27 ZZZZZ	ZZZZZ	02/23/10	1336	2.48	6.83
28 ZZZZZ	ZZZZZ	02/23/10	1348	2.48	6.83
29 AR166002	WAR100222-60	02/23/10	1401	2.48	6.83
30 PIBLK03	WAR100105-99	02/23/10	1413	2.48	6.83
31 ZZZZZ	ZZZZZ	02/23/10	1426	2.48	6.83
32 ZZZZZ	ZZZZZ	02/23/10	1438	2.48	6.83

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/23/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.25		DCB: 6.25			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01 PIBLK01	WAR100219-99	02/26/10	0532	2.25	6.24
02 AR166001	WAR100225-60	02/26/10	0545	2.25	6.24
03 AR125401	WAR100201-54	02/26/10	0557		
04 AR124201	WAR091217-42	02/26/10	0609		
05 AR124801	WAR091217-48	02/26/10	0622		
06 AR123201	WAR100104-32	02/26/10	0634		
07 AR122101	WAR100104-21	02/26/10	0646		
08 AR126201	WAR100104-62	02/26/10	0659		
09 AR126801	WAR100107-68	02/26/10	0711		
10 DDTANALOGSTD	WAR091219-DD	02/26/10	0723		
11 PIBLK02	WAR100219-99	02/26/10	0739	2.25	6.25
12 ZZZZZ	ZZZZZ	02/26/10	0751	2.25	6.24
13 ZZZZZ	ZZZZZ	02/26/10	0803	2.25	6.24
14 ZZZZZ	ZZZZZ	02/26/10	0816	2.25	6.24
15 ZZZZZ	ZZZZZ	02/26/10	0828	2.25	6.24
16 ZZZZZ	ZZZZZ	02/26/10	0840	2.25	6.24
17 ZZZZZ	ZZZZZ	02/26/10	0857	2.25	6.24
18 ZZZZZ	ZZZZZ	02/26/10	0913	2.25	6.24
19 ZZZZZ	ZZZZZ	02/26/10	0930	2.25	6.24
20 AR166002	WAR100225-60	02/26/10	0946	2.25	6.24
21 PIBLK03	WAR100219-99	02/26/10	0959	2.25	6.24
22 ZZZZZ	ZZZZZ	02/26/10	1011	2.25	6.24
23 ZZZZZ	ZZZZZ	02/26/10	1023	2.25	6.24
24 PBLK01	1202053317	02/26/10	1036	2.25	6.24
25 PBLK01LCS	1202053318	02/26/10	1048	2.25	6.24
26 ZZZZZ	ZZZZZ	02/26/10	1100	2.25	6.24
27 ZZZZZ	ZZZZZ	02/26/10	1113	2.25	6.24
28 ZZZZZ	ZZZZZ	02/26/10	1125	2.25	6.24
29 ZZZZZ	ZZZZZ	02/26/10	1137	2.25	6.24
30 ZZZZZ	ZZZZZ	02/26/10	1150	2.25	6.24
31 ZZZZZ	ZZZZZ	02/26/10	1202	2.25	6.24
32 AR166003	WAR100225-60	02/26/10	1214	2.25	6.24

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/23/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.25		DCB: 6.25			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01	PIBLK04	WAR100219-99	02/26/10	1227	2.25 6.24
02	ZZZZZ	ZZZZZ	02/26/10	1239	2.25 6.24
03	ZZZZZ	ZZZZZ	02/26/10	1252	2.25 6.24
04	ZZZZZ	ZZZZZ	02/26/10	1304	2.25 6.24
05	ZZZZZ	ZZZZZ	02/26/10	1316	2.25 6.24
06	ZZZZZ	ZZZZZ	02/26/10	1329	2.25 6.24
07	RE15-10-8246	247346001	02/26/10	1341	2.25 6.24
08	RE15-10-8246MS	1202053319	02/26/10	1353	2.25 6.24
09	RE15-10-8246MSD	1202053320	02/26/10	1406	2.25 6.24
10	RE15-10-8245	247346002	02/26/10	1418	2.25 6.24
11	RE15-10-8243	247346003	02/26/10	1431	2.25 6.24
12	AR166004	WAR100225-60	02/26/10	1443	2.25 6.24
13	PIBLK05	WAR100219-99	02/26/10	1455	2.25 6.24
14	RE15-10-8244	247346004	02/26/10	1508	2.25 6.24
15	RE15-10-8242	247346005	02/26/10	1520	2.25 6.24
16	RE15-10-8240	247346006	02/26/10	1532	2.25 6.24
17	RE15-10-8241	247346007	02/26/10	1545	2.25 6.24
18	RE15-10-8267	247346008	02/26/10	1557	2.25 6.24
19	AR166005	WAR100225-60	02/26/10	1610	2.25 6.24
20	PIBLK06	WAR100219-99	02/26/10	1622	2.25 6.24
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/23/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.48		DCB: 6.83			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01 PIBLK01	WAR100219-99	02/26/10	0532	2.48	6.83
02 AR166001	WAR100225-60	02/26/10	0545	2.48	6.83
03 AR125401	WAR100201-54	02/26/10	0557		
04 AR124201	WAR091217-42	02/26/10	0609		
05 AR124801	WAR091217-48	02/26/10	0622		
06 AR123201	WAR100104-32	02/26/10	0634		
07 AR122101	WAR100104-21	02/26/10	0646		
08 AR126201	WAR100104-62	02/26/10	0659		
09 AR126801	WAR100107-68	02/26/10	0711		
10 DDTANANLOGST	WAR091219-DD	02/26/10	0723		
11 PIBLK02	WAR100219-99	02/26/10	0739	2.48	6.83
12 ZZZZZ	ZZZZZ	02/26/10	0751	2.48	6.83
13 ZZZZZ	ZZZZZ	02/26/10	0803	2.48	6.83
14 ZZZZZ	ZZZZZ	02/26/10	0816	2.48	6.83
15 ZZZZZ	ZZZZZ	02/26/10	0828	2.48	6.83
16 ZZZZZ	ZZZZZ	02/26/10	0840	2.48	6.83
17 ZZZZZ	ZZZZZ	02/26/10	0857	2.48	6.83
18 ZZZZZ	ZZZZZ	02/26/10	0913	2.48	6.83
19 ZZZZZ	ZZZZZ	02/26/10	0930	2.48	6.83
20 AR166002	WAR100225-60	02/26/10	0946	2.48	6.83
21 PIBLK03	WAR100219-99	02/26/10	0959	2.48	6.83
22 ZZZZZ	ZZZZZ	02/26/10	1011	2.48	6.84
23 ZZZZZ	ZZZZZ	02/26/10	1023	2.48	6.83
24 PBLK01	1202053317	02/26/10	1036	2.48	6.83
25 PBLK01LCS	1202053318	02/26/10	1048	2.48	6.83
26 ZZZZZ	ZZZZZ	02/26/10	1100	2.48	6.83
27 ZZZZZ	ZZZZZ	02/26/10	1113	2.48	6.83
28 ZZZZZ	ZZZZZ	02/26/10	1125	2.48	6.83
29 ZZZZZ	ZZZZZ	02/26/10	1137	2.48	6.83
30 ZZZZZ	ZZZZZ	02/26/10	1150	2.48	6.83
31 ZZZZZ	ZZZZZ	02/26/10	1202	2.48	6.83
32 AR166003	WAR100225-60	02/26/10	1214	2.48	6.83

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1911

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/03/10 02/23/10

Instrument ID: ECD8A

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.48		DCB: 6.83			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01	PIBLK04	WAR100219-99	02/26/10	1227	2.48 6.83
02	ZZZZZ	ZZZZZ	02/26/10	1239	2.48 6.83
03	ZZZZZ	ZZZZZ	02/26/10	1252	2.48 6.83
04	ZZZZZ	ZZZZZ	02/26/10	1304	2.48 6.83
05	ZZZZZ	ZZZZZ	02/26/10	1316	2.48 6.83
06	ZZZZZ	ZZZZZ	02/26/10	1329	2.48 6.83
07	RE15-10-8246	247346001	02/26/10	1341	2.48 6.83
08	RE15-10-8246MS	1202053319	02/26/10	1353	2.48 6.83
09	RE15-10-8246MSD	1202053320	02/26/10	1406	2.48 6.83
10	RE15-10-8245	247346002	02/26/10	1418	2.48 6.83
11	RE15-10-8243	247346003	02/26/10	1431	2.48 6.83
12	AR166004	WAR100225-60	02/26/10	1443	2.48 6.83
13	PIBLK05	WAR100219-99	02/26/10	1455	2.48 6.83
14	RE15-10-8244	247346004	02/26/10	1508	2.48 6.83
15	RE15-10-8242	247346005	02/26/10	1520	2.48 6.83
16	RE15-10-8240	247346006	02/26/10	1532	2.48 6.83
17	RE15-10-8241	247346007	02/26/10	1545	2.48 6.83
18	RE15-10-8267	247346008	02/26/10	1557	2.48 6.83
19	AR166005	WAR100225-60	02/26/10	1610	2.48 6.83
20	PIBLK06	WAR100219-99	02/26/10	1622	2.48 6.83
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

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

Identification Summary

Page 1 of 1

SDG Number: 10-1911

Client ID: LCS for batch 957587

Lab Sample ID: 1202053318

Data File: 025f2501.d

Data File: 025b2501.d

Inst: ECD8A.I_1

Inst: ECD8A.I_2

Column: CLP1

Column: CLP2

Analyzed: 26-FEB-10 10:48

Analyzed: 26-FEB-10 10:48

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							11.6
Column 1	1	2.81	2.78 – 2.84	23.8		ug/kg	
	2	3.16	3.13 – 3.19	23.8		ug/kg	
	3	3.3	3.28 – 3.34	22.8		ug/kg	
	4	3.4	3.37 – 3.43	24.1		ug/kg	
	5	3.56	3.53 – 3.59	23		ug/kg	
					23.5		
Column 2	1	3.56	3.53 – 3.59	27		ug/kg	
	2	3.65	3.62 – 3.68	26.8		ug/kg	
	3	3.73	3.7 – 3.76	25.3		ug/kg	
	4	3.81	3.78 – 3.84	26.5		ug/kg	
	5	4	3.97 – 4.03	26.6		ug/kg	
					26.4		
Aroclor-1260							11.1
Column 1	1	4.43	4.4 – 4.46	27.5		ug/kg	
	2	4.63	4.6 – 4.66	28.2		ug/kg	
	3	4.9	4.87 – 4.93	28.4		ug/kg	
	4	5.08	5.05 – 5.11	28.4		ug/kg	
	5	5.49	5.46 – 5.52	29.7		ug/kg	
					28.4		
Column 2	1	4.91	4.89 – 4.95	31.1		ug/kg	
	2	5.06	5.03 – 5.09	32		ug/kg	
	3	5.38	5.35 – 5.41	32.2		ug/kg	
	4	5.59	5.56 – 5.62	31.7		ug/kg	
	5	6.02	5.99 – 6.05	32		ug/kg	
					31.8		

Identification Summary

Page 1 of 1

SDG Number: 10-1911

Client ID: RE15-10-8245

Lab Sample ID: 247346002

Data File: 042f4201.d

Data File: 042b4201.d

Inst: ECD8A.I_1

Inst: ECD8A.I_2

Column: CLP1

Column: CLP2

Analyzed: 26-FEB-10 14:18

Analyzed: 26-FEB-10 14:18

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1242							27.5
Column 1	1	2.81	2.78 – 2.84	2.67		ug/kg	
	2	3.16	3.13 – 3.19	2.54		ug/kg	
	3	3.4	3.37 – 3.43	4.37		ug/kg	
	4	3.41	3.38 – 3.44	3.12		ug/kg	
	5	3.56	3.53 – 3.59	3.29		ug/kg	
					3.2		
Column 2	1	3.2	3.17 – 3.23	2.24		ug/kg	
	2	3.55	3.53 – 3.59	2.21		ug/kg	
	3	3.65	3.62 – 3.68	2.55		ug/kg	
	4	4	3.97 – 4.03	2.74		ug/kg	
	5	4.09	4.06 – 4.12	2.38		ug/kg	
					2.42		
Aroclor-1254							10.3
Column 1	1	3.83	3.8 – 3.86	1.78		ug/kg	
	2	4.02	3.99 – 4.05	2.14		ug/kg	
	3	4.22	4.19 – 4.25	1.74		ug/kg	
	4	4.3	4.27 – 4.33	1.63		ug/kg	
	5	4.5	4.47 – 4.53	1.96		ug/kg	
					1.85		
Column 2	1	4.31	4.28 – 4.34	2.31		ug/kg	
	2	4.45	4.42 – 4.48	1.48		ug/kg	
	3	4.78	4.75 – 4.81	1.38		ug/kg	
	4	4.94	4.91 – 4.97	1.41		ug/kg	
	5	5.06	5.03 – 5.09	1.77		ug/kg	
					1.67		

Identification Summary

Page 1 of 1

SDG Number: 10-1911

Client ID: RE15-10-8246MS

Lab Sample ID: 1202053319

Data File: 040f4001.d

Data File: 040b4001.d

Inst: ECD8A.I_1

Inst: ECD8A.I_2

Column: CLP1

Column: CLP2

Analyzed: 26-FEB-10 13:53

Analyzed: 26-FEB-10 13:53

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.703
Column 1	1	2.81	2.78 – 2.84	26.7		ug/kg	
	2	3.16	3.13 – 3.19	27.7		ug/kg	
	3	3.3	3.28 – 3.34	26.7		ug/kg	
	4	3.4	3.37 – 3.43	28.4		ug/kg	
	5	3.56	3.53 – 3.59	27.5		ug/kg	
					27.4		
Column 2	1	3.56	3.53 – 3.59	27.7		ug/kg	
	2	3.65	3.62 – 3.68	27.3		ug/kg	
	3	3.73	3.7 – 3.76	26.1		ug/kg	
	4	3.81	3.78 – 3.84	27.6		ug/kg	
	5	4	3.97 – 4.03	27.4		ug/kg	
					27.2		
Aroclor-1260							2.31
Column 1	1	4.43	4.4 – 4.46	31.5		ug/kg	
	2	4.63	4.6 – 4.66	32.5		ug/kg	
	3	4.9	4.87 – 4.93	32.5		ug/kg	
	4	5.08	5.05 – 5.11	31.4		ug/kg	
	5	5.49	5.46 – 5.52	30.8		ug/kg	
					31.7		
Column 2	1	4.92	4.89 – 4.95	31.9		ug/kg	
	2	5.06	5.03 – 5.09	33.1		ug/kg	
	3	5.38	5.35 – 5.41	33		ug/kg	
	4	5.59	5.56 – 5.62	32.1		ug/kg	
	5	6.02	5.99 – 6.05	32.3		ug/kg	
					32.5		

Identification Summary

Page 1 of 1

SDG Number: 10-1911

Client ID: RE15-10-8246MSD

Lab Sample ID: 1202053320

Data File: 041f4101.d

Data File: 041b4101.d

Inst: ECD8A.I_1

Inst: ECD8A.I_2

Column: CLP1

Column: CLP2

Analyzed: 26-FEB-10 14:06

Analyzed: 26-FEB-10 14:06

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.649
Column 1	1	2.81	2.78 – 2.84	25.6		ug/kg	
	2	3.16	3.13 – 3.19	27		ug/kg	
	3	3.3	3.28 – 3.34	25.9		ug/kg	
	4	3.4	3.37 – 3.43	27.1		ug/kg	
	5	3.56	3.53 – 3.59	26.4		ug/kg	
					26.4		
Column 2	1	3.55	3.53 – 3.59	27.2		ug/kg	
	2	3.65	3.62 – 3.68	26.6		ug/kg	
	3	3.73	3.7 – 3.76	25.4		ug/kg	
	4	3.8	3.78 – 3.84	27		ug/kg	
	5	4	3.97 – 4.03	26.7		ug/kg	
					26.6		
Aroclor-1260							2.5
Column 1	1	4.43	4.4 – 4.46	30.9		ug/kg	
	2	4.63	4.6 – 4.66	31.7		ug/kg	
	3	4.9	4.87 – 4.93	31.8		ug/kg	
	4	5.08	5.05 – 5.11	30.8		ug/kg	
	5	5.49	5.46 – 5.52	30.7		ug/kg	
					31.2		
Column 2	1	4.92	4.89 – 4.95	31.4		ug/kg	
	2	5.06	5.03 – 5.09	32.5		ug/kg	
	3	5.38	5.35 – 5.41	32.5		ug/kg	
	4	5.59	5.56 – 5.62	31.6		ug/kg	
	5	6.02	5.99 – 6.05	31.8		ug/kg	
					32		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Matrix:	SOIL
Lab Sample ID:	1202053317		
Client Sample:	QC for batch 957587	Client:	LANL010
Client ID:	MB for batch 957587	Method:	SW846 8082
Batch ID:	957590	Inst:	ECD8A.I
Run Date:	02/26/2010 10:36	Analyst:	JAOC
Prep Date:	02/25/2010 21:15	Aliquot:	30 g
Data File:	024f2401-1.d	Column:	1 CLP1
	024b2401-1.d		2 CLP2
		Project:	QC
		SOP Ref:	GL-OA-E-040
		Dilution:	1
		Inj. Vol:	1 uL
		Final Volume:	1 mL
		Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

Data File: /chem/ecd8a.i/022610.b/024f2401-1.d
Report Date: 26-Feb-2010 14:14

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/024f2401-1.d
Lab Smp Id: 1202053317 Client Smp ID: PBLK01
Inj Date : 26-FEB-2010 10:36
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202053317|1|
Misc Info : |ECD82P_1S|957590|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 24 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

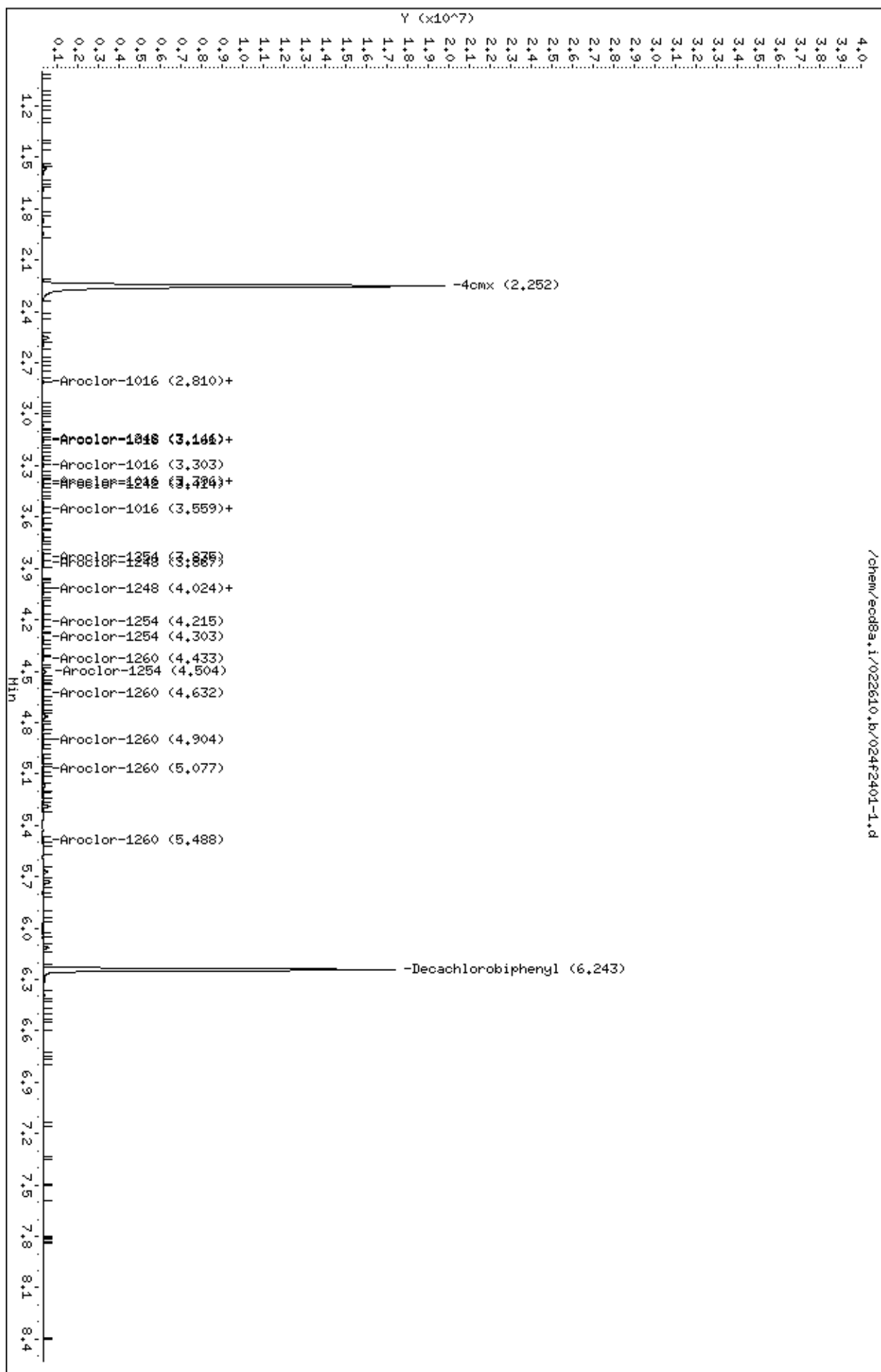
Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
2.252	2.251	0.001	21933608	174.063	5.8	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.243	6.245	-0.002	15478188	171.374	5.7	80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/022610.b/024f2401-1.d
 Date : 26-FEB-2010 10:36
 Client ID: PBLK01
 Sample Info: 1120205331711
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JAO
 Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/024b2401-1.d
Report Date: 26-Feb-2010 14:13

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/024b2401-1.d
Lab Smp Id: 1202053317 Client Smp ID: PBLK01
Inj Date : 26-FEB-2010 10:36
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202053317|1|
Misc Info : |ECD82P_1S|957590|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 24 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

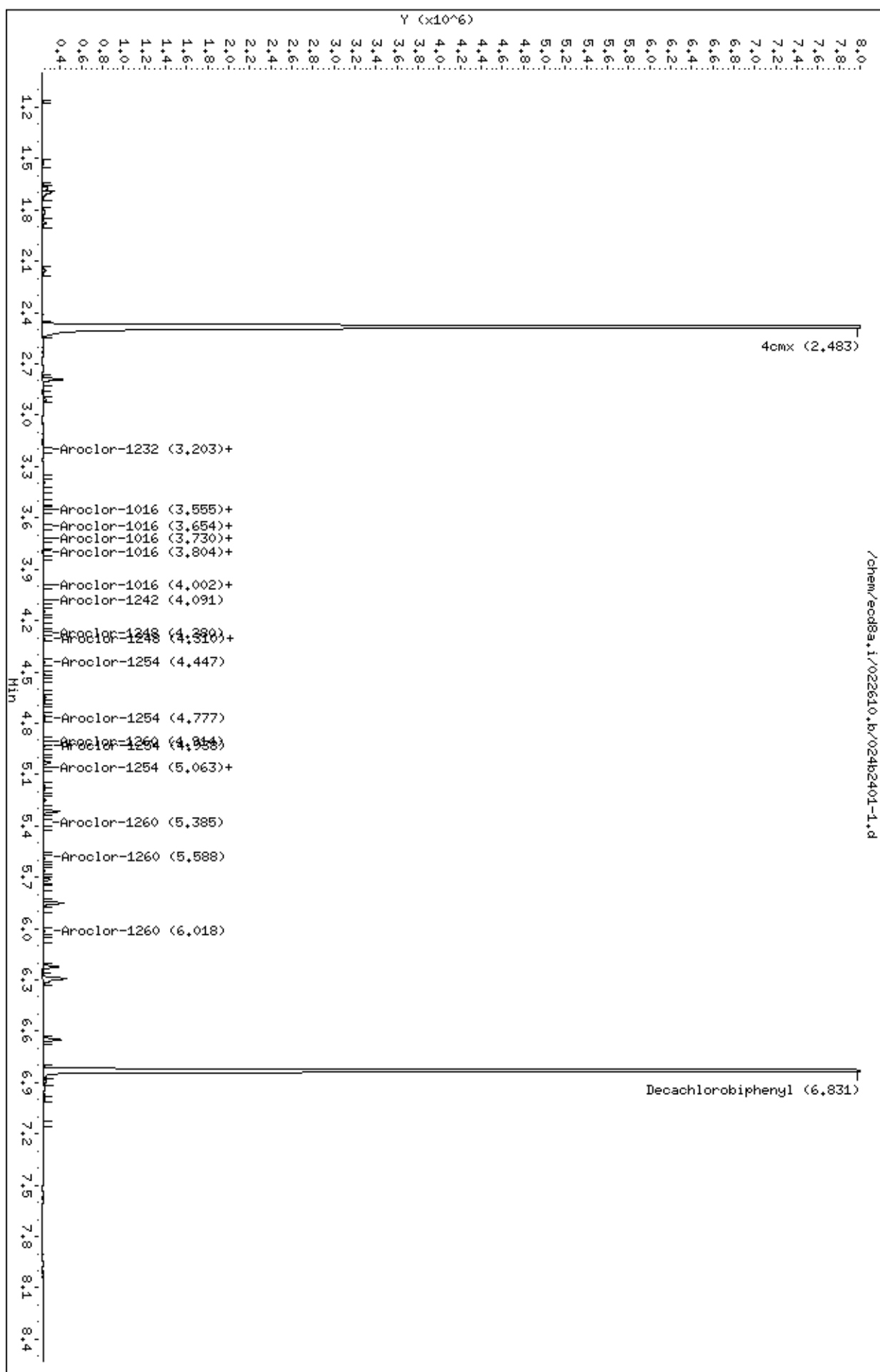
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8	
2.483	2.482	0.001	15204335 184.351	6.1	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.831	6.832	-0.001	11298475 183.305	6.1	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/022610.b/024b2401-1.d
 Date : 26-FEB-2010 10:36
 Client ID: PBLK01
 Sample Info: 1120205331714
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecd8a.i
 Operator: JAOO
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Matrix:	SOIL
Lab Sample ID:	1202053318		
Client Sample:	QC for batch 957587	Client:	LANL010
Client ID:	LCS for batch 957587	Method:	SW846 8082
Batch ID:	957590	Inst:	ECD8A.I
Run Date:	02/26/2010 10:48	Analyst:	JAOC
Prep Date:	02/25/2010 21:15	Aliquot:	30 g
Data File:	025f2501-1.d	Column:	1 CLP1
	025b2501-1.d		2 CLP2
		Project:	QC
		SOP Ref:	GL-OA-E-040
		Dilution:	1
		Inj. Vol:	1 uL
		Final Volume:	1 mL
		Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		26.4	ug/kg	1.11	3.33	2
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		31.8	ug/kg	1.11	3.33	2

Data File: /chem/ecd8a.i/022610.b/025f2501-1.d
Report Date: 26-Feb-2010 14:14

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/025f2501-1.d
Lab Smp Id: 1202053318 Client Smp ID: PBLK01LCS
Inj Date : 26-FEB-2010 10:48
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202053318|1|
Misc Info : |ECD82P_1S|957590|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 25 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

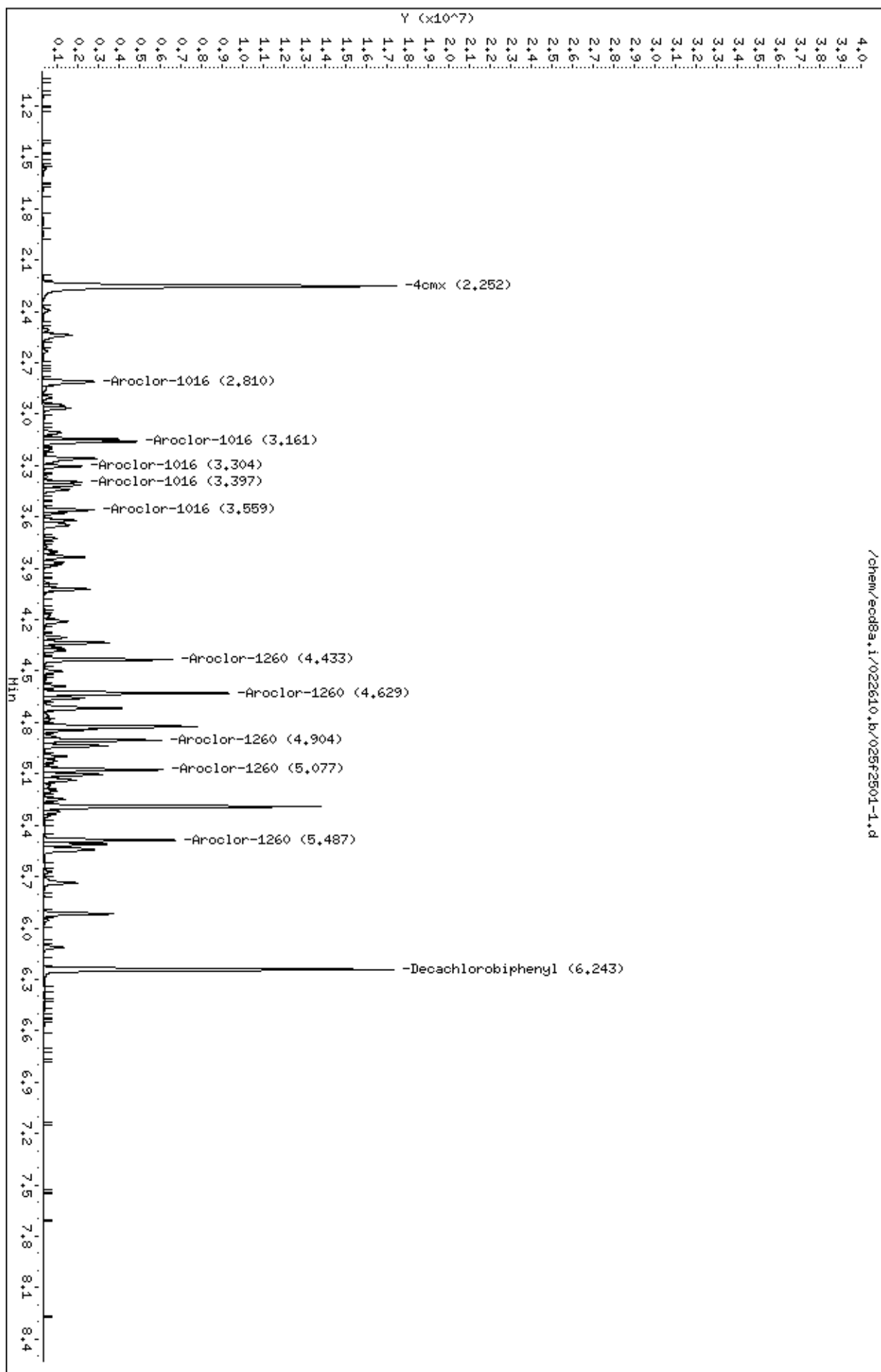
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx CAS #: 877-09-8								
2.252	2.251	0.001	19592168	155.482	5.2	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3								
6.243	6.245	-0.002	15185761	168.136	5.6	80.00- 120.00	100.00	
1 Aroclor-1016 CAS #: 12674-11-2								
2.810	2.810	0.000	3248209	713.692	23.8	80.00- 120.00	100.00	
3.161	3.161	0.000	4003962	713.711	23.8	102.76- 142.76	123.27	
3.304	3.305	-0.001	1640060	685.558	22.8	32.11- 72.11	50.49	
3.397	3.397	0.000	1548988	723.616	24.1	25.85- 65.85	47.69	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO
==	=====	=====		=====	=====	=====	=====		=====
1 Aroclor-1016 (continued)									
3.559	3.560	-0.001		2141447	690.976	23.0	48.54-	88.54	65.93
Average of Peak Concentrations =						23.5			

7 Aroclor-1260						CAS #: 11096-82-5			
4.433	4.434	-0.001		5352411	826.557	27.6	80.00-	120.00	100.00
4.629	4.630	-0.001		8071094	845.294	28.2	131.35-	171.35	150.79
4.904	4.905	-0.001		4833940	853.198	28.4	67.90-	107.90	90.31
5.077	5.077	0.000		5025587	851.213	28.4	71.07-	111.07	93.89
5.487	5.488	-0.001		5550333	891.073	29.7	75.37-	115.37	103.70
Average of Peak Concentrations =						28.5			

Data File: /chem/ecod8a.i/022610.b/025f2501-1.d
Date : 26-FEB-2010 10:48
Client ID: PBLK01LCS
Sample Info: 112020531811
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecod8a.i
Operator: JAOC
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/025b2501-1.d
 Report Date: 26-Feb-2010 14:14

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/025b2501-1.d
 Lab Smp Id: 1202053318 Client Smp ID: PBLK01LCS
 Inj Date : 26-FEB-2010 10:48
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202053318|1|
 Misc Info : |ECD82P_1S|957590|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
 Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 25 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1911.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	

\$ 11 4cmx				CAS #: 877-09-8			
2.482	2.482	0.000	14102198 170.988	5.7	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.832	6.832	0.000	10856427 176.133	5.9	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
3.555	3.555	0.000	2931014 809.794	27.0	80.00- 120.00	100.00	
3.653	3.654	-0.001	1934648 802.710	26.8	49.26- 89.26	66.01	
3.730	3.730	0.000	1102945 759.019	25.3	20.45- 60.45	37.63	
3.805	3.805	0.000	1138480 794.040	26.5	19.49- 59.49	38.84	

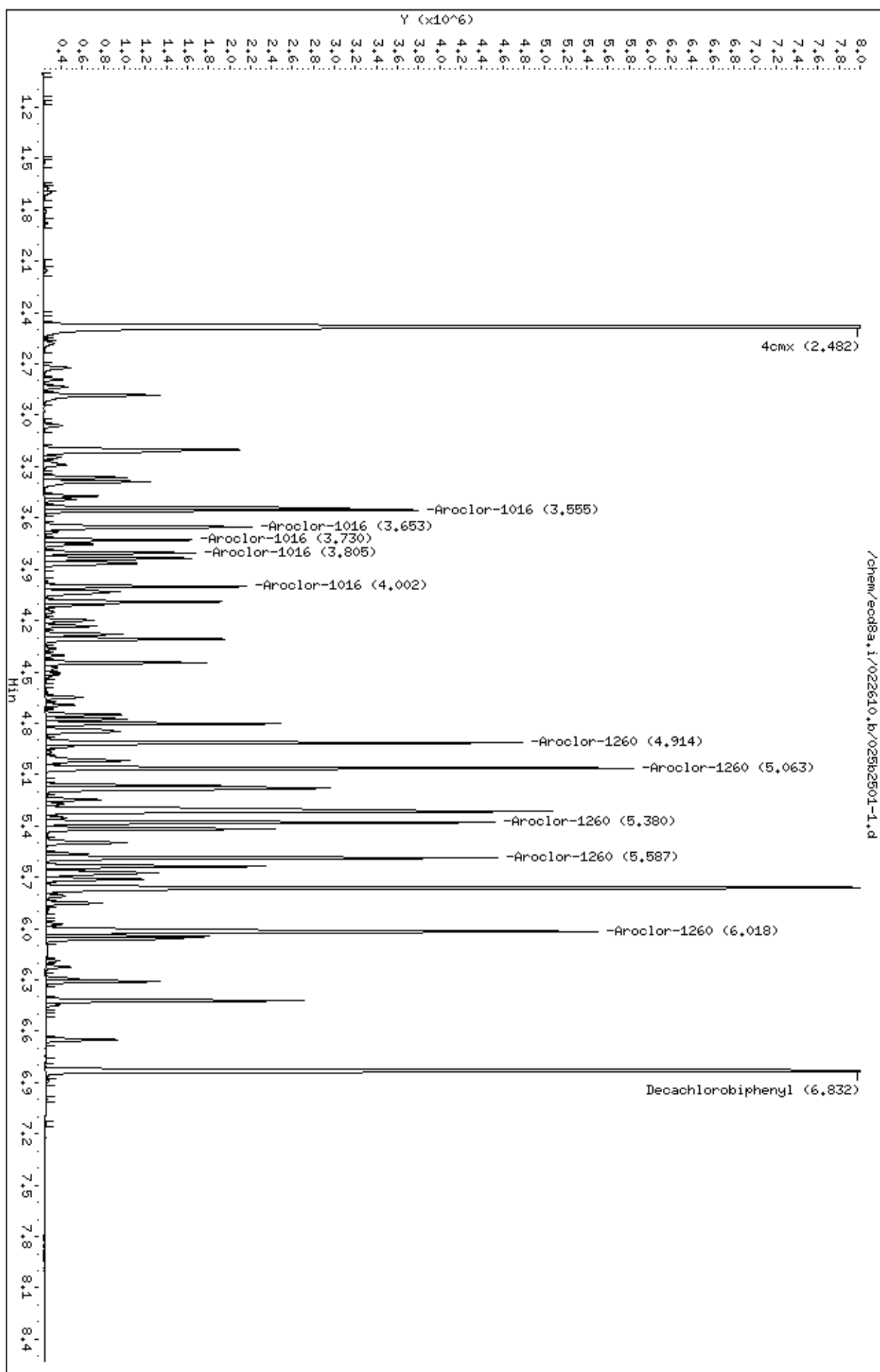
CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
4.002	4.002	0.000	1562491	797.884	26.6	35.35-	75.35	53.31	
Average of Peak Concentrations =					26.4				

7 Aroclor-1260					CAS #: 11096-82-5				
4.914	4.915	-0.001	3696028	931.788	31.0	80.00-	120.00	100.00	
5.063	5.064	-0.001	4613252	959.287	32.0	100.76-	140.76	124.82	
5.380	5.381	-0.001	3559563	967.327	32.2	72.28-	112.28	96.31	
5.587	5.588	-0.001	3637016	950.655	31.7	75.94-	115.94	98.40	
6.018	6.019	-0.001	5761063	961.170	32.0	129.87-	169.87	155.87	
Average of Peak Concentrations =					31.8				

Data File: /chem/ecd8a.i/022610.b/025b2501-1.d
Date : 26-FEB-2010 10:48
Client ID: PBLK01LCS
Sample Info: 112020531811
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	1202053319	Date Received:	02/18/2010 08:45	%Moisture:	1.6
Client Sample:	QC for batch 957587	Client:	LANL010	Project:	QC
Client ID:	RE15-10-8246MS	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	957590	Inst:	ECD8A.I	Dilution:	1
Run Date:	02/26/2010 13:53	Analyst:	JAOC	Inj. Vol:	1 uL
Prep Date:	02/25/2010 21:15	Aliquot:	30.14 g	Final Volume:	1 mL
Data File:	040f4001.d	Column:	1 CLP1	Level:	LOW
	040b4001.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		27.4	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260		31.7	ug/kg	1.12	3.37	1

Data File: /chem/ecd8a.i/022610.b/040f4001.d
Report Date: 26-Feb-2010 14:13

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/040f4001.d

Lab Smp Id: 1202053319

Client Smp ID: RE15-10-8246MS

Inj Date : 26-FEB-2010 13:53

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202053319|1|

Misc Info : |ECD82P_1S|957590|SVA|QC A|SOIL|MS| |

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 40

QC Sample: MS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1911.sub

Target Version: 3.50

Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	1.56610	% Moisture

Cpnd Variable

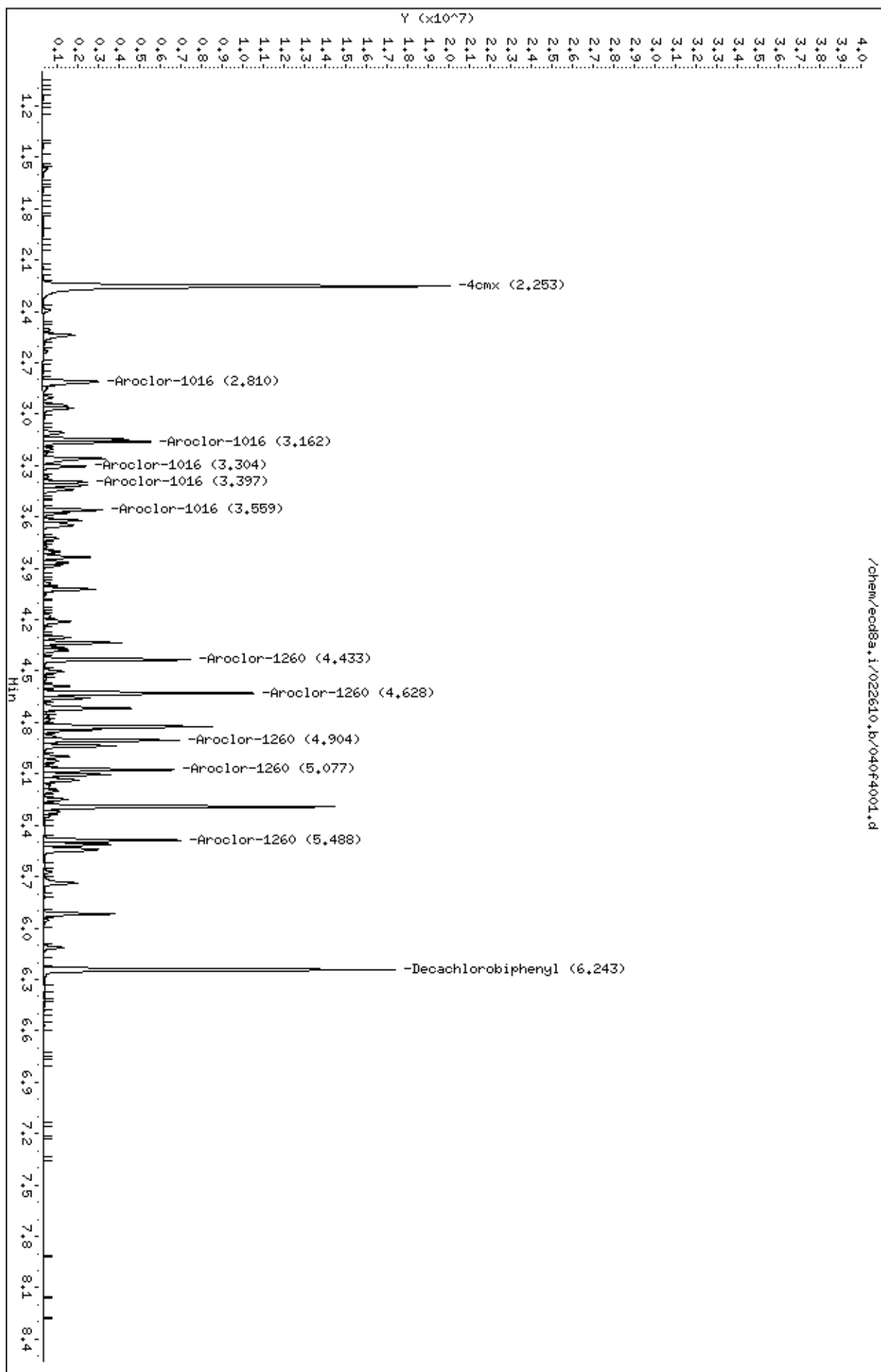
Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx								
			CAS #: 877-09-8					
2.253	2.251	0.002	22600479	179.356	6.0	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl								
			CAS #: 2051-24-3					
6.243	6.245	-0.002	15197704	168.269	5.7	80.00-	120.00	100.00
1 Aroclor-1016								
			CAS #: 12674-11-2					
2.810	2.810	0.000	3610815	793.364	26.7	80.00-	120.00	100.00
3.162	3.161	0.001	4607514	821.295	27.7	102.76-	142.76	127.60
3.304	3.305	-0.001	1894656	791.981	26.7	32.11-	72.11	52.47
3.397	3.397	0.000	1804795	843.118	28.4	25.85-	65.85	49.98
3.559	3.560	-0.001	2529729	816.262	27.5	48.54-	88.54	70.06
Average of Peak Concentrations =					27.4			

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====		=====	=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5				
4.433	4.434	-0.001		6042455	933.118	31.4	80.00- 120.00	100.00
4.628	4.630	-0.002		9203691	963.913	32.5	131.35- 171.35	152.32
4.904	4.905	-0.001		5454862	962.791	32.4	67.90- 107.90	90.28
5.077	5.077	0.000		5495658	930.832	31.4	71.07- 111.07	90.95
5.488	5.488	0.000		5698528	914.864	30.8	75.37- 115.37	94.31
Average of Peak Concentrations =				31.7				

Data File: /chem/ecd8a.i/022610.b/040f4001.d
Date : 26-FEB-2010 13:53
Client ID: RE15-10-8246HS
Sample Info: 112020531911
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/040b4001.d
Report Date: 26-Feb-2010 14:13

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/040b4001.d
Lab Smp Id: 1202053319 Client Smp ID: RE15-10-8246MS
Inj Date : 26-FEB-2010 13:53
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202053319|1|
Misc Info : |ECD82P_1S|957590|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 40 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	1.56610	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====

\$ 11 4cmx					CAS #: 877-09-8		
2.483	2.482	0.001	15127360 183.418	6.2	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.832	6.832	0.000	11053750 179.334	6.0	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2		
3.555	3.555	0.000	2974806 821.893	27.7	80.00- 120.00	100.00	
3.654	3.654	0.000	1951472 809.690	27.3	49.26- 89.26	65.60	
3.730	3.730	0.000	1124607 773.926	26.1	20.45- 60.45	37.80	
3.805	3.805	0.000	1175361 819.763	27.6	19.49- 59.49	39.51	
4.002	4.002	0.000	1590628 812.252	27.4	35.35- 75.35	53.47	
Average of Peak Concentrations =				27.2			

CONCENTRATIONS

ON-COL FINAL

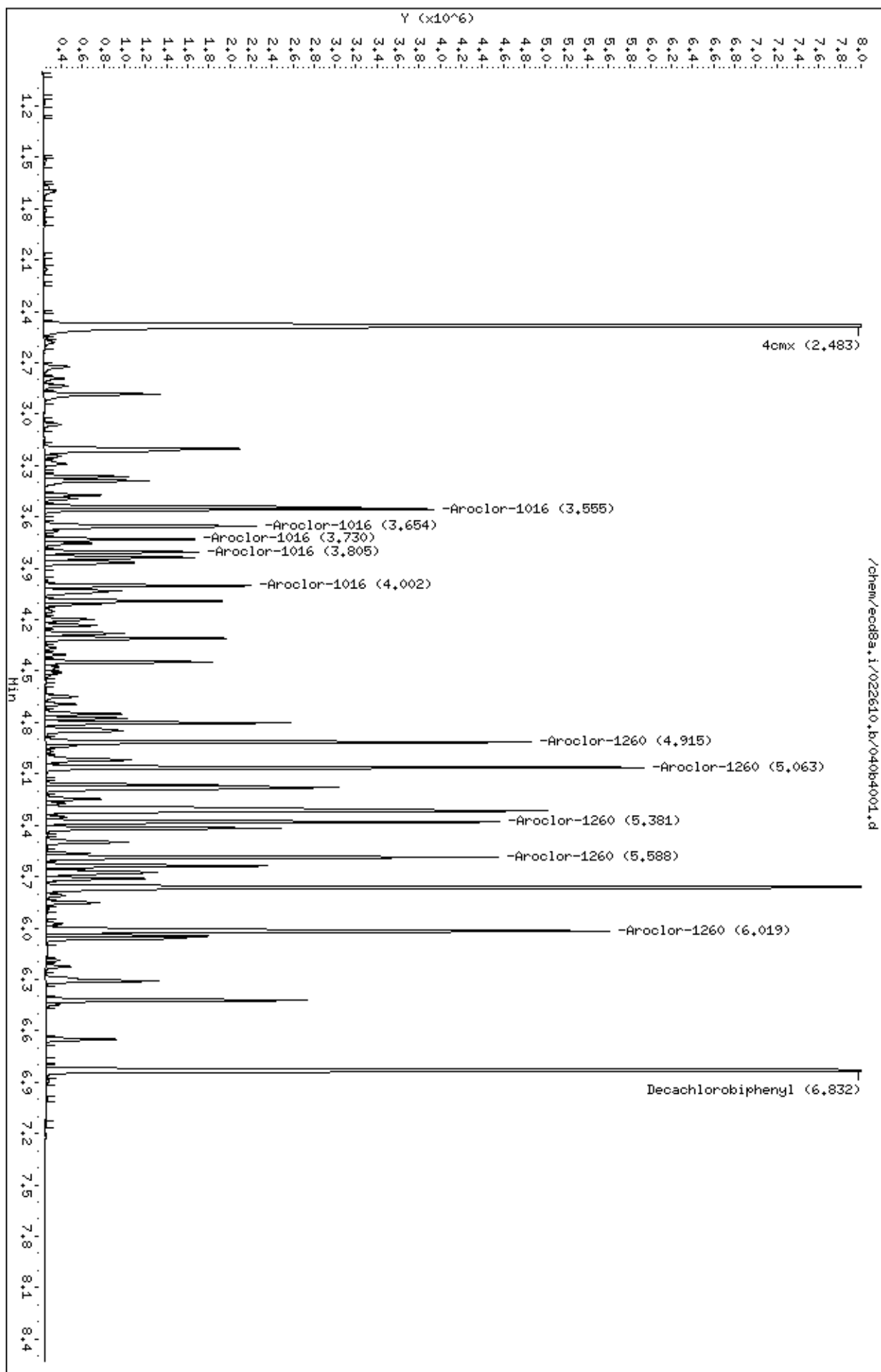
RT	EXP RT	DLT RT	RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====		=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5			
4.915	4.915	0.000		3755326 946.738	31.9	80.00- 120.00	100.00(H)
5.063	5.064	-0.001		4717697 981.005	33.1	100.76- 140.76	125.63
5.381	5.381	0.000		3601458 978.712	33.0	72.28- 112.28	95.90
5.588	5.588	0.000		3640385 951.535	32.1	75.94- 115.94	96.94
6.019	6.019	0.000		5738509 957.407	32.3	129.87- 169.87	152.81
Average of Peak Concentrations =				32.5			

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /chem/ecd8a.i/022610.b/040b4001.d
Date : 26-FEB-2010 13:53
Client ID: RE15-10-8246HS
Sample Info: 112020531911
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1911	Date Collected:	02/13/2010 12:00	Matrix:	R
Lab Sample ID:	1202053320	Date Received:	02/18/2010 08:45	%Moisture:	1.6
Client Sample:	QC for batch 957587	Client:	LANL010	Project:	QC
Client ID:	RE15-10-8246MSD	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	957590	Inst:	ECD8A.I	Dilution:	1
Run Date:	02/26/2010 14:06	Analyst:	JAOC	Inj. Vol:	1 uL
Prep Date:	02/25/2010 21:15	Aliquot:	30.13 g	Final Volume:	1 mL
Data File:	041f4101.d	Column:	1 CLP1	Level:	LOW
	041b4101.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		26.4	ug/kg	1.12	3.37	1
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	1
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	1
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	1
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	1
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	1
11096-82-5	Aroclor-1260		31.2	ug/kg	1.12	3.37	1

Data File: /chem/ecd8a.i/022610.b/041f4101.d
Report Date: 01-Mar-2010 09:47

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/041f4101.d
Lab Smp Id: 1202053320 Client Smp ID: RE15-10-8246MSD
Inj Date : 26-FEB-2010 14:06
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202053320|1|
Misc Info : |ECD82P_1S|957590|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 41 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1911.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.13000	Weight of sample extracted (g)
M	1.56610	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx CAS #: 877-09-8								
2.252	2.251	0.001	20706515	164.325	5.5	80.00- 120.00	100.00	

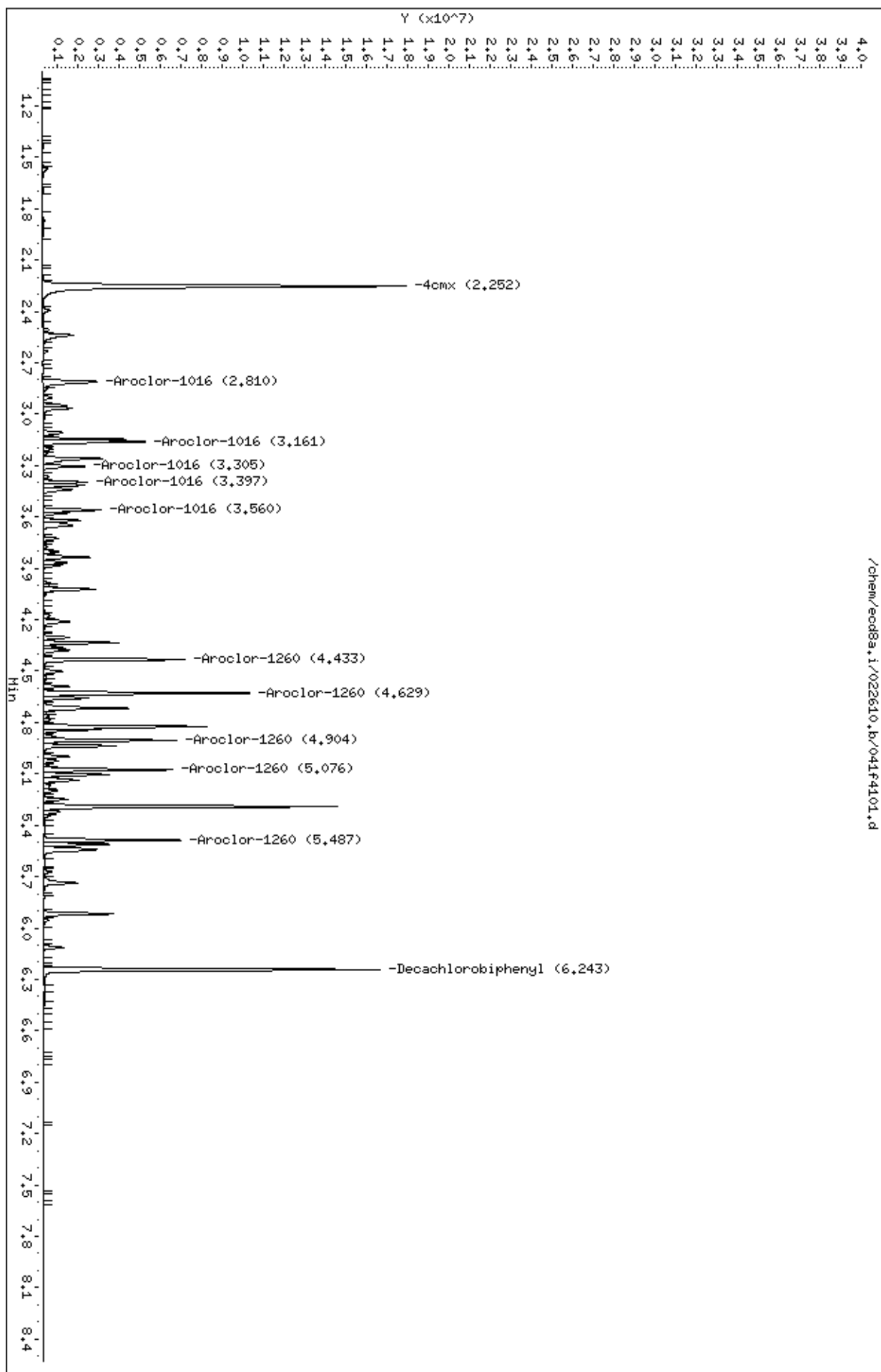
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3								
6.243	6.245	-0.002	14616738	161.836	5.4	80.00- 120.00	100.00	

1 Aroclor-1016 CAS #: 12674-11-2								
2.810	2.810	0.000	3451797	758.424	25.6	80.00- 120.00	100.00	
3.161	3.161	0.000	4496633	801.530	27.0	104.84- 144.84	130.27	
3.305	3.305	0.000	1837548	768.110	25.9	33.07- 73.07	53.23	
3.397	3.397	0.000	1719837	803.429	27.1	26.78- 66.78	49.82	
3.560	3.560	0.000	2429480	783.915	26.4	48.31- 88.31	70.38	
Average of Peak Concentrations =					26.4			

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====		=====	=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5				
4.433	4.434	-0.001		5941800	917.574	30.9	80.00- 120.00	100.00
4.629	4.630	-0.001		8981457	940.638	31.7	131.74- 171.74	151.16
4.904	4.905	-0.001		5340196	942.553	31.8	69.00- 109.00	89.88
5.076	5.077	-0.001		5389472	912.847	30.8	72.38- 112.38	90.70
5.487	5.488	-0.001		5673040	910.772	30.7	77.14- 117.14	95.48
Average of Peak Concentrations =				31.2				

Data File: /chem/ecd8a.i/022610.b/041f4101.d
Date : 26-FEB-2010 14:06
Client ID: RE15-10-8246HSD
Sample Info: 1120205320141
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/041b4101.d
 Report Date: 01-Mar-2010 09:47

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/041b4101.d
 Lab Smp Id: 1202053320 Client Smp ID: RE15-10-8246MSD
 Inj Date : 26-FEB-2010 14:06
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202053320|1|
 Misc Info : |ECD82P_1S|957590|SVA|QC A|SOIL|MSD|||
 Comment :
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m
 Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 41 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1911.sub
 Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.13000	Weight of sample extracted (g)
M	1.56610	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	

\$ 11 4cmx				CAS #: 877-09-8			
2.483	2.482	0.001	13979681 169.502	5.7	80.00- 120.00	100.00	

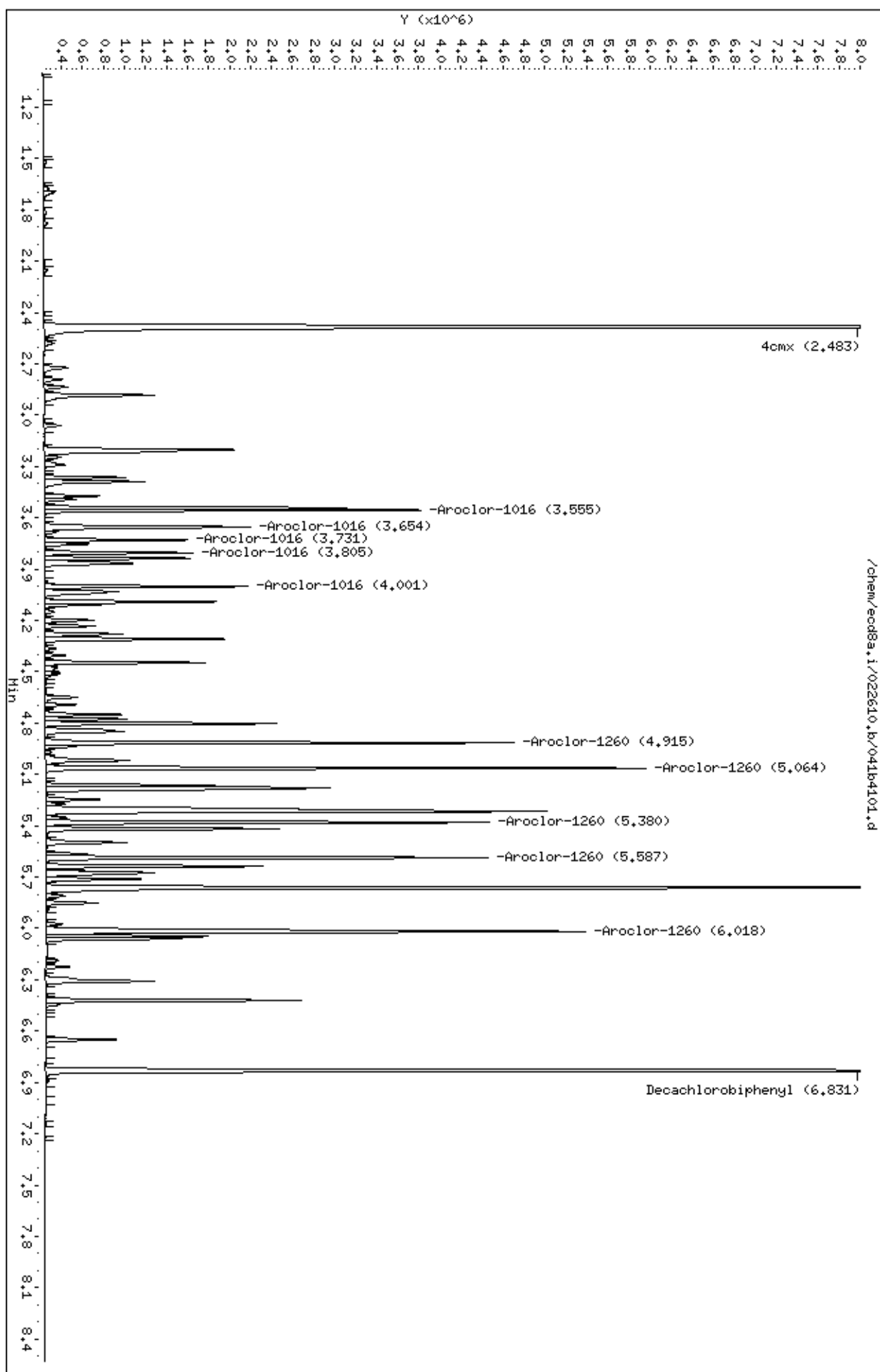
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.831	6.832	-0.001	10575382 171.573	5.8	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
3.555	3.555	0.000	2924717 808.054	27.2	80.00- 120.00	100.00	
3.654	3.654	0.000	1898371 787.658	26.6	45.66- 85.66	64.91	
3.731	3.730	0.001	1093881 752.781	25.4	19.41- 59.41	37.40	
3.805	3.805	0.000	1147159 800.094	27.0	18.16- 58.16	39.22	
4.001	4.002	-0.001	1551570 792.307	26.7	33.55- 73.55	53.05	
Average of Peak Concentrations =				26.6			

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====		=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5			
4.915	4.915	0.000		3694659 931.443	31.4	80.00- 120.00	100.00
5.064	5.064	0.000		4638574 964.552	32.5	100.35- 140.35	125.55
5.380	5.381	-0.001		3548485 964.317	32.5	71.55- 111.55	96.04
5.587	5.588	-0.001		3588856 938.067	31.6	75.81- 115.81	97.14
6.018	6.019	-0.001		5652858 943.117	31.8	128.72- 168.72	153.00
Average of Peak Concentrations =				32.0			

Data File: /chem/ecd8a.i/022610.b/041b4101.d
Date : 26-FEB-2010 14:06
Client ID: RE15-10-8246HSD
Sample Info: 1120205320141
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd8a.i
Operator: JAOC
Column diameter: 0.25



MISCELLANEOUS DATA

DATE: 02/04/2010

METHOD: ECD8-F-8082-020310a.m

OPERATOR:JAOC

REVIEWED BY: _____

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA699

ALUMINA LOT 1240553-A

COPPER LOT 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standards Log

Initial Calibration Std ID's: See Calibration History and Standards Log

GEL SOP GL-OA-E-040

EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography

Sequence Number: /chem/ecd8a.i/020310a.b

Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 01	JAOC	03-FEB-2010 10:12		020310a	1.0		CLEAN
002f0201.d	WAR100203-01 60	JAOC	03-FEB-2010 10:24		020310a	1.0		1660 LEVEL 1
003f0301.d	WAR100203-02 60	JAOC	03-FEB-2010 10:37		020310a	1.0		1660 LEVEL 2
004f0401.d	WAR100203-03 60	JAOC	03-FEB-2010 10:49		020310a	1.0		1660 LEVEL 3
005f0501.d	WAR100203-04 60	JAOC	03-FEB-2010 11:01		020310a	1.0		1660 LEVEL 4
006f0601.d	IAR100104-01 60	JAOC	03-FEB-2010 11:14		020310a	1.0		1660 LEVEL 5
007f0701.d	WAR100203-60 01	JAOC	03-FEB-2010 11:26		020310a	1.0		PASSES BOTH COLUMNS
008f0801.d	WAR100203-05 54	JAOC	03-FEB-2010 11:39		020310a	1.0		1254 LEVEL 1
009f0901.d	WAR100203-06 54	JAOC	03-FEB-2010 11:51		020310a	1.0		1254 LEVEL 2
010f1001.d	WAR100203-07 54	JAOC	03-FEB-2010 12:03		020310a	1.0		1254 LEVEL 3
011f1101.d	WAR100203-08 54	JAOC	03-FEB-2010 12:16		020310a	1.0		1254 LEVEL 4
012f1201.d	IAR091027-01 54	JAOC	03-FEB-2010 12:28		020310a	1.0		1254 LEVEL 5
013f1301.d	WAR100201-54	JAOC	03-FEB-2010 12:40		020310a	1.0		PASSES BOTH COLUMNS
014f1401.d	WAR100203-09 42	JAOC	03-FEB-2010 12:53		020310a	1.0		1242 LEVEL 1
015f1501.d	WAR100203-10 42	JAOC	03-FEB-2010 13:05		020310a	1.0		1242 LEVEL 2

Instrument Batch: /chem/ecd8a.i/020310a.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	WAR100203-11 42	JAOC	03-FEB-2010 13:18		020310a	1.0		1242 LEVEL 3
017f1701.d	WAR100203-12 42	JAOC	03-FEB-2010 13:30		020310a	1.0		1242 LEVEL 4

018f1801.d	IAR091111-01 42	JAOC	03-FEB-2010 13:42		020310a	1.0	1242 LEVEL 5
019f1901.d	WAR091217-42	JAOC	03-FEB-2010 13:55		020310a	1.0	PASSES BOTH COLUMNS
020f2001.d	WAR100203-13 48	JAOC	03-FEB-2010 14:07		020310a	1.0	1248 LEVEL 1
021f2101.d	WAR100203-14 48	JAOC	03-FEB-2010 14:19		020310a	1.0	1248 LEVEL 2
022f2201.d	WAR100203-15 48	JAOC	03-FEB-2010 14:32		020310a	1.0	1248 LEVEL 3
023f2301.d	WAR100203-16 48	JAOC	03-FEB-2010 14:44		020310a	1.0	1248 LEVEL 4
024f2401.d	IAR091027-02 48	JAOC	03-FEB-2010 14:57		020310a	1.0	1248 LEVEL 5
025f2501.d	WAR091217-48	JAOC	03-FEB-2010 15:09		020310a	1.0	DUSE RE-RUN
026f2601.d	WAR100104-32	JAOC	03-FEB-2010 15:21		020310a	1.0	PATTERN ONLY
027f2701.d	WAR100104-21	JAOC	03-FEB-2010 15:34		020310a	1.0	PATTERN ONLY
028f2801.d	WAR100203-17 62	JAOC	03-FEB-2010 15:46		020310a	1.0	1262 LEVEL 1
029f2901.d	WAR100203-18 62	JAOC	03-FEB-2010 15:58		020310a	1.0	1262 LEVEL 2
030f3001.d	WAR100203-19 62	JAOC	03-FEB-2010 16:11		020310a	1.0	1262 LEVEL 3
031f3101.d	WAR100203-20 62	JAOC	03-FEB-2010 16:23		020310a	1.0	1262 LEVEL 4
032f3201.d	IAR100104-04 62	JAOC	03-FEB-2010 16:36		020310a	1.0	1262 LEVEL 5
033f3301.d	WAR100104-62	JAOC	03-FEB-2010 16:48		020310a	1.0	PASSES BOTH COLUMNS
034f3401.d	WAR091107-68	JAOC	03-FEB-2010 17:00		020310a	1.0	PATTERN ONLY
035f3501.d	WAR091217-48	JAOC	03-FEB-2010 17:13		020310a	1.0	PASSES BOTH COLUMNS

Instrument Batch: /chem/ecd8a.i/020310a.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	WAR091219-DDT	JAOC	03-FEB-2010 17:25		020310a	1.0	DDT	
037f3701.d	WAR091130-99 02	JAOC	03-FEB-2010 17:38		020310a	1.0	CLEAN	
038f3801.d	1202026314	JAOC	03-FEB-2010 17:50	946047	2010AR1262MDL-L	1.0 QC A		UPLOAD BOTH, USE BOTH
039f3901.d	1202026315	JAOC	03-FEB-2010 18:02	946047	2010AR1262MDL-L	1.0 QC A		UPLOAD BOTH, USE BOTH
040f4001.d	243859001	JAOC	03-FEB-2010 18:15	946047	2010AR1262MDL-L	1.0 QCQA		UPLOAD BOTH, USE BOTH
041f4101.d	243859002	JAOC	03-FEB-2010 18:27	946047	2010AR1262MDL-L	1.0 QCQA		UPLOAD BOTH, USE BOTH

042f4201.d	243859003	JAOC	03-FEB-2010 18:39	946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
043f4301.d	243859004	JAOC	03-FEB-2010 18:52	946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
044f4401.d	243859005	JAOC	03-FEB-2010 19:04	946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
045f4501.d	243859006	JAOC	03-FEB-2010 19:16	946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
046f4601.d	243859007	JAOC	03-FEB-2010 19:29	946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
047f4701.d	243859008	JAOC	03-FEB-2010 19:41	946047	2010AR1262MDL-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
048f4801.d	WAR100203-60 02	JAOC	03-FEB-2010 19:54		020310a	1.0	PASSES BOTH COLUMNS
049f4901.d	WAR091130-99 03	JAOC	03-FEB-2010 20:06		020310a	1.0	CLEAN
050f5001.d	243865001	JAOC	03-FEB-2010 20:18	946047	2010MDLVECD81262-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
051f5101.d	243865002	JAOC	03-FEB-2010 20:31	946047	2010MDLVECD81262-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
052f5201.d	243865003	JAOC	03-FEB-2010 20:43	946047	2010MDLVECD81262-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
053f5301.d	243865004	JAOC	03-FEB-2010 20:55	946047	2010MDLVECD81262-L	1.0 QCQA	UPLOAD BOTH, USE BOTH
054f5401.d	WAR100203-60 03	JAOC	03-FEB-2010 21:08		020310a	1.0	PASSES BOTH COLUMNS
055f5501.d	WAR091130-99 04	JAOC	03-FEB-2010 21:20		020310a	1.0	CLEAN

Instrument Batch: /chem/ecd8a.i/020310a.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client		Comments
056f5601.d	245679008	JAOC	03-FEB-2010 21:33	947574	10-1449	5.0	LANL		UPLOAD BOTH, USE HIGHER
057f5701.d	245679011	JAOC	03-FEB-2010 21:45	947574	10-1449	10.0	LANL		UPLOAD BOTH, USE HIGHER
058f5801.d	245686001	JAOC	03-FEB-2010 21:57	947574	10-1432	1.0	LANL		UPLOAD BOTH, USE HIGHER
059f5901.d	WAR100203-60 04	JAOC	03-FEB-2010 22:10		020310a	1.0			PASSES BOTH COLUMNS
060f6001.d	WAR091130-99 05	JAOC	03-FEB-2010 22:22		020310a	1.0			CLEAN
061f6101.d	1202030643	JAOC	03-FEB-2010 22:34	947944	245873	1.0	QC A		UPLOAD BOTH, USE HIGHER
062f6201.d	1202030644	JAOC	03-FEB-2010 22:47	947944	245873	1.0	QC A		UPLOAD BOTH, USE HIGHER
063f6301.d	245873001	JAOC	03-FEB-2010 22:59	947944	245873	50.0	GEEL		UPLOAD BOTH, USE HIGHER
064f6401.d	1202030645	JAOC	03-FEB-2010 23:12	947944	245873	50.0	QC A		UPLOAD BOTH, USE HIGHER
065f6501.d	1202030646	JAOC	03-FEB-2010 23:24	947944	245873	50.0	QC A		UPLOAD BOTH, USE HIGHER
066f6601.d	245873002	JAOC	03-FEB-2010 23:36	947944	245873	1.0	GEEL		UPLOAD BOTH, USE HIGHER

+-----+									
067f6701.d	WAR100203-60 05	JAOC	03-FEB-2010 23:49		020310a		1.0		PASSES BOTH COLUMNS
+-----+									
068f6801.d	WAR091130-99 06	JAOC	04-FEB-2010 00:01		020310a		1.0		CLEAN
+-----+									

DATE: 02/24/2010

METHOD: ECD8-F-8082-020310a.m

OPERATOR:JAOC

REVIEWED BY: _____

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA699

ALUMINA LOT 1240553-A

COPPER LOT 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standards Log

Initial Calibration Std ID's: See Calibration History and Standards Log

GEL SOP GL-OA-E-040

EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography

Sequence Number: /chem/ecd8a.i/022310.b

Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100105-99 01	JAOC	23-FEB-2010 08:14		022310	1.0	CLEAN	
002f0201.d	WAR100203-60 01	JAOC	23-FEB-2010 08:26		022310	1.0	DUSE	
003f0301.d	WAR100201-54	JAOC	23-FEB-2010 08:39		022310	1.0	PASSES BOTH COLUMNS	
004f0401.d	WAR091217-42	JAOC	23-FEB-2010 08:51		022310	1.0	PASSES BOTH COLUMNS	
005f0501.d	WAR091217-48	JAOC	23-FEB-2010 09:03		022310	1.0	PASSES BOTH COLUMNS	
006f0601.d	WAR100104-32	JAOC	23-FEB-2010 09:16		022310	1.0	PATTERN ONLY	
007f0701.d	WAR100223-01 60	JAOC	23-FEB-2010 09:28		022310	1.0	1660 LEVEL 1	
008f0801.d	WAR100223-02 60	JAOC	23-FEB-2010 09:41		022310	1.0	1660 LEVEL 2	
009f0901.d	WAR100223-03 60	JAOC	23-FEB-2010 09:53		022310	1.0	1660 LEVEL 3	
010f1001.d	WAR100223-04 60	JAOC	23-FEB-2010 10:05		022310	1.0	1660 LEVEL 4	
011f1101.d	IAR100223-01 60	JAOC	23-FEB-2010 10:18		022310	1.0	1660 LEVEL 5	
012f1201.d	WAR100222-60 01	JAOC	23-FEB-2010 10:30		022310	1.0	DUSE	
013f1301.d	WAR100223-05 21	JAOC	23-FEB-2010 10:43		022310	1.0	1221 LEVEL 1	
014f1401.d	WAR100223-06 21	JAOC	23-FEB-2010 10:55		022310	1.0	1221 LEVEL 2	
015f1501.d	WAR100223-07 21	JAOC	23-FEB-2010 11:07		022310	1.0	1221 LEVEL 3	

Instrument Batch: /chem/ecd8a.i/022310.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	WAR100223-08 21	JAOC	23-FEB-2010 11:20		022310	1.0	1221 LEVEL 4	
017f1701.d	IAR100104-02 21	JAOC	23-FEB-2010 11:32		022310	1.0	1221 LEVEL 5	

018f1801.d	WAR100104-21	JAOC	23-FEB-2010 11:45		022310		1.0		PASSES BOTH COLUMNS
019f1901.d	WAR100222-60 01	JAOC	23-FEB-2010 11:57		022310		1.0		PASSES BOTH COLUMNS
020f2001.d	WAR100104-62	JAOC	23-FEB-2010 12:09		022310		1.0		PATTERN ONLY
021f2101.d	WAR100107-68	JAOC	23-FEB-2010 12:22		022310		1.0		PATTERN ONLY
022f2201.d	WAR091219-DDT	JAOC	23-FEB-2010 12:34		022310		1.0		DDT
023f2301.d	WAR100105-99 02	JAOC	23-FEB-2010 12:46		022310		1.0		CLEAN
024f2401.d	1202048644	JAOC	23-FEB-2010 12:59	955558	10-1781		1.0 QC A		UPLOAD BOTH, USE HIGHER
025f2501.d	1202048645	JAOC	23-FEB-2010 13:11	955558	10-1781		1.0 QC A		UPLOAD BOTH, USE HIGHER
026f2601.d	246863005	JAOC	23-FEB-2010 13:24	955558	10-1781		1.0 LANL		UPLOAD BOTH, USE HIGHER
027f2701.d	1202048646	JAOC	23-FEB-2010 13:36	955558	10-1781		1.0 QC A		UPLOAD BOTH, USE HIGHER
028f2801.d	1202048647	JAOC	23-FEB-2010 13:48	955558	10-1781		1.0 QC A		UPLOAD BOTH, USE HIGHER
029f2901.d	WAR100222-60 02	JAOC	23-FEB-2010 14:01		022310		1.0		PASSES BOTH COLUMNS
030f3001.d	WAR100105-99 03	JAOC	23-FEB-2010 14:13		022310		1.0		CLEAN
031f3101.d	1202047548	JAOC	23-FEB-2010 14:26	955074	022310		1.0 QC A		DUSE
032f3201.d	1202047549	JAOC	23-FEB-2010 14:38	955074			1.0 QC A		DUSE
033f3301.d	243880001	JAOC	23-FEB-2010 14:50	955074	2010AR1221MDL-L		1.0 QCQA		DUSE
034f3401.d	243880002	JAOC	23-FEB-2010 15:03	955074	2010AR1221MDL-L		1.0 QCQA		DUSE
035f3501.d	243880003	JAOC	23-FEB-2010 15:15	955074	2010AR1221MDL-L		1.0 QCQA		DUSE

Instrument Batch: /chem/ecd8a.i/022310.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client		Comments
036f3601.d	243880004	JAOC	23-FEB-2010 15:28	955074	2010AR1221MDL-L		1.0 QCQA		DUSE
037f3701.d	243880005	JAOC	23-FEB-2010 15:40	955074	2010AR1221MDL-L		1.0 QCQA		DUSE
038f3801.d	243880006	JAOC	23-FEB-2010 15:53	955074	2010AR1221MDL-L		1.0 QCQA		DUSE
039f3901.d	243880007	JAOC	23-FEB-2010 16:05	955074	2010AR1221MDL-L		1.0 QCQA		DUSE
040f4001.d	243880008	JAOC	23-FEB-2010 16:17	955074	2010AR1221MDL-L		1.0 QCQA		DUSE
041f4101.d	WAR100222-60 03	JAOC	23-FEB-2010 16:30		022310		1.0		PASSES BOTH COLUMNS

042f4201.d	WAR100105-99 04	JAOC	23-FEB-2010 16:42		022310		1.0		CLEAN
+-----+									
043f4301.d	243884001	JAOC	23-FEB-2010 16:55	955074	2010MDLVECD81221-L		1.0 QCQA		DUSE
+-----+									
044f4401.d	243884002	JAOC	23-FEB-2010 17:07	955074	2010MDLVECD81221-L		1.0 QCQA		DUSE
+-----+									
045f4501.d	243884003	JAOC	23-FEB-2010 17:19	955074	2010MDLVECD81221-L		1.0 QCQA		DUSE
+-----+									
046f4601.d	243884004	JAOC	23-FEB-2010 17:32	955074	2010MDLVECD81221-L		1.0 QCQA		DUSE
+-----+									

DATE: 03/01/2010

METHOD: ECD8-F-8082-020310a.m

OPERATOR:JAOC

REVIEWED BY: _____

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA936

ALUMINA LOT 1240553-A

COPPER LOT 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standards Log

Initial Calibration Std ID's: See Calibration History and Standards Log

GEL SOP GL-OA-E-040

EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography

Sequence Number: /chem/ecd8a.i/022610.b

Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100219-99 01	JAOC	26-FEB-2010 05:32		022610	1.0	CLEAN	
002f0201.d	WAR100225-60 01	JAOC	26-FEB-2010 05:45		022610	1.0	PASSES BOTH COLUMNS	
003f0301.d	WAR100201-54	JAOC	26-FEB-2010 05:57		022610	1.0	PASSES BOTH COLUMNS	
004f0401.d	WAR091217-42	JAOC	26-FEB-2010 06:09		022610	1.0	PASSES BOTH COLUMNS	
005f0501.d	WAR091217-48	JAOC	26-FEB-2010 06:22		022610	1.0	PASSES BOTH COLUMNS	
006f0601.d	WAR100104-32	JAOC	26-FEB-2010 06:34		022610	1.0	PATTERN ONLY	
007f0701.d	WAR100104-21	JAOC	26-FEB-2010 06:46		022610	1.0	PATTERN ONLY	
008f0801.d	WAR100104-62	JAOC	26-FEB-2010 06:59		022610	1.0	PASSES BOTH COLUMNS	
009f0901.d	WAR100107-68	JAOC	26-FEB-2010 07:11		022610	1.0	PATTERN ONLY	
010f1001.d	WAR091219-DDT	JAOC	26-FEB-2010 07:23		022610	1.0	DDT	
011f1101.d	WAR100219-99 02	JAOC	26-FEB-2010 07:39		022610	1.0	CLEAN	
012f1201.d	1202053311	JAOC	26-FEB-2010 07:51	957585	247104	1.0	QC A	UPLOAD BOTH, USE FRONT
013f1301.d	1202053312	JAOC	26-FEB-2010 08:03	957585	247104	1.0	QC A	UPLOAD BOTH, USE FRONT
014f1401.d	247104005	JAOC	26-FEB-2010 08:16	957585	247104	1.0	BY12	UPLOAD BOTH, USE FRONT
015f1501.d	247104011	JAOC	26-FEB-2010 08:28	957585	247104	10.0	BY12	UPLOAD BOTH, USE FRONT

Instrument Batch: /chem/ecd8a.i/022610.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	247104012	JAOC	26-FEB-2010 08:40	957585	247104	10.0	BY12	UPLOAD BOTH, USE FRONT
017f1701.d	1202053313	JAOC	26-FEB-2010 08:57	957585	247104	10.0	QC A	UPLOAD BOTH, USE FRONT

018f1801.d	1202053314	JAOC	26-FEB-2010 09:13	957585	247104		10.0 QC A		UPLOAD BOTH, USE FRONT
019f1901.d	247104019	JAOC	26-FEB-2010 09:30	957585	247104		1.0 BY12		UPLOAD BOTH, USE FRONT
020f2001.d	WAR100225-60 02	JAOC	26-FEB-2010 09:46		022610		1.0		PASSES BOTH COLUMNS
021f2101.d	WAR100219-99 03	JAOC	26-FEB-2010 09:59		022610		1.0		CLEAN
022f2201.d	247107010	JAOC	26-FEB-2010 10:11	956959	10-1836		10.0 LANL		DUSE, DILUTED WRONG SAMPLE
023f2301.d	247107011	JAOC	26-FEB-2010 10:23	956959	10-1836		10.0 LANL		UPLOAD BOTH, USE HIGHER
024f2401.d	1202053317	JAOC	26-FEB-2010 10:36	957590	10-1908		1.0 QC A		UPLOAD BOTH, USE HIGHER
025f2501.d	1202053318	JAOC	26-FEB-2010 10:48	957590	10-1908		1.0 QC A		UPLOAD BOTH, USE HIGHER
026f2601.d	247343001	JAOC	26-FEB-2010 11:00	957590	10-1908		1.0 LANL		UPLOAD BOTH, USE HIGHER
027f2701.d	247343002	JAOC	26-FEB-2010 11:13	957590	10-1908		1.0 LANL		UPLOAD BOTH, USE HIGHER
028f2801.d	247343003	JAOC	26-FEB-2010 11:25	957590	10-1908		1.0 LANL		UPLOAD BOTH, USE HIGHER
029f2901.d	247343004	JAOC	26-FEB-2010 11:37	957590	10-1908		1.0 LANL		UPLOAD BOTH, USE HIGHER
030f3001.d	247343005	JAOC	26-FEB-2010 11:50	957590	10-1908		1.0 LANL		UPLOAD BOTH, USE HIGHER
031f3101.d	247343006	JAOC	26-FEB-2010 12:02	957590	10-1908		1.0 LANL		UPLOAD BOTH, USE HIGHER
032f3201.d	WAR100225-60 03	JAOC	26-FEB-2010 12:14		022610		1.0		PASSES BOTH COLUMNS
033f3301.d	WAR100219-99 04	JAOC	26-FEB-2010 12:27		022610		1.0		CLEAN
034f3401.d	247343007	JAOC	26-FEB-2010 12:39	957590	10-1908		1.0 LANL		UPLOAD BOTH, USE HIGHER
035f3501.d	247343008	JAOC	26-FEB-2010 12:52	957590	10-1908		1.0 LANL		UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd8a.i/022610.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch		SDG	Dilution	Client		Comments
036f3601.d	247343009	JAOC	26-FEB-2010 13:04	957590	10-1908		1.0	LANL		UPLOAD BOTH, USE HIGHER
037f3701.d	247343010	JAOC	26-FEB-2010 13:16	957590	10-1908		1.0	LANL		UPLOAD BOTH, USE HIGHER
038f3801.d	247343011	JAOC	26-FEB-2010 13:29	957590	10-1908		1.0	LANL		UPLOAD BOTH, USE HIGHER
039f3901.d	247346001	JAOC	26-FEB-2010 13:41	957590	10-1911		1.0	LANL		UPLOAD BOTH, USE HIGHER
040f4001.d	1202053319	JAOC	26-FEB-2010 13:53	957590	10-1911		1.0	QC A		UPLOAD BOTH, USE HIGHER
041f4101.d	1202053320	JAOC	26-FEB-2010 14:06	957590	10-1911		1.0	QC A		UPLOAD BOTH, USE HIGHER

042f4201.d	247346002	JAOC	26-FEB-2010 14:18	957590	10-1911		1.0 LANL		UPLOAD BOTH, USE HIGHER
043f4301.d	247346003	JAOC	26-FEB-2010 14:31	957590	10-1911		1.0 LANL		UPLOAD BOTH, USE HIGHER
044f4401.d	WAR100225-60 04	JAOC	26-FEB-2010 14:43		022610		1.0		PASSES BOTH COLUMNS
045f4501.d	WAR100219-99 05	JAOC	26-FEB-2010 14:55		022610		1.0		CLEAN
046f4601.d	247346004	JAOC	26-FEB-2010 15:08	957590	10-1911		5.0 LANL		UPLOAD BOTH, USE HIGHER
047f4701.d	247346005	JAOC	26-FEB-2010 15:20	957590	10-1911		1.0 LANL		UPLOAD BOTH, USE HIGHER
048f4801.d	247346006	JAOC	26-FEB-2010 15:32	957590	10-1911		1.0 LANL		UPLOAD BOTH, USE HIGHER
049f4901.d	247346007	JAOC	26-FEB-2010 15:45	957590	10-1911		1.0 LANL		UPLOAD BOTH, USE HIGHER
050f5001.d	247346008	JAOC	26-FEB-2010 15:57	957590	10-1911		1.0 LANL		UPLOAD BOTH, USE HIGHER
051f5101.d	WAR100225-60 05	JAOC	26-FEB-2010 16:10		022610		1.0		PASSES BOTH COLUMNS
052f5201.d	WAR100219-99 06	JAOC	26-FEB-2010 16:22		022610		1.0		CLEAN

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 957587
Analyst: Andrew Schwemlin
Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202053317 MB	25-FEB-2010 21:15:00	30	H2SO4/KM2	2	9	1	0.03333	
1202053318 LCS	25-FEB-2010 21:15:00	30	H2SO4/KM2	2	9	1	0.03333	
247343001	25-FEB-2010 21:15:00	30.03	H2SO4/KM2	2	9	1	0.0333	
247343002	25-FEB-2010 21:15:00	30.15	H2SO4/KM2	2	9	1	0.03317	
247343003	25-FEB-2010 21:15:00	30.01	H2SO4/KM2	2	9	1	0.03332	
247343004	25-FEB-2010 21:15:00	30.19	H2SO4/KM2	2	9	1	0.03312	
247343005	25-FEB-2010 21:15:00	30.09	H2SO4/KM2	2	9	1	0.03323	
247343006	25-FEB-2010 21:15:00	30.09	H2SO4/KM2	2	9	1	0.03323	
247343007	25-FEB-2010 21:15:00	30.14	H2SO4/KM2	2	9	1	0.03318	
247343008	25-FEB-2010 21:15:00	30.07	H2SO4/KM2	2	9	1	0.03326	
247343009	25-FEB-2010 21:15:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247343010	25-FEB-2010 21:15:00	30.01	H2SO4/KM2	2	9	1	0.03332	
247343011	25-FEB-2010 21:15:00	30.19	H2SO4/KM2	2	9	1	0.03312	
247346001	25-FEB-2010 21:15:00	30.01	H2SO4/KM2	2	9	1	0.03332	
1202053319 MS (247346001)	25-FEB-2010 21:15:00	30.14	H2SO4/KM2	2	9	1	0.03318	
1202053320 MSD (247346001)	25-FEB-2010 21:15:00	30.13	H2SO4/KM2	2	9	1	0.03319	
247346002	25-FEB-2010 21:15:00	30.06	H2SO4/KM2	2	9	1	0.03327	
247346003	25-FEB-2010 21:15:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247346004	25-FEB-2010 21:15:00	30.04	H2SO4/KM2	2	9	1	0.03329	
247346005	25-FEB-2010 21:15:00	30.11	H2SO4/KM2	2	9	1	0.03321	
247346006	25-FEB-2010 21:15:00	30.07	H2SO4/KM2	2	9	1	0.03326	
247346007	25-FEB-2010 21:15:00	30.01	H2SO4/KM2	2	9	1	0.03332	
247346008	25-FEB-2010 21:15:00	30.02	H2SO4/KM2	2	9	1	0.03331	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202053318	PCB Laboratory Control	WEI00210-07	1	mL	Clean up Date: 2/25/10		
MMS	1202053319	PCB Laboratory Control	WEI00210-07	1	mL	Clean up Initials: AJS		
MSD	1202053320	PCB Laboratory Control	WEI00210-07	1	mL	Verified By: AV		
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE091217-15	1	mL	Final Solvent: Hexane		
REGNT	All	Hexane	1273340-B2	150	mL	Clean Up SOP: GL-OA-E-037		
REGNT	All	Acetone	1273823-B1	150	mL			
REGNT	All	5% Potassium Permanganate	B1275177-F	5	mL			
SOURC	All	SODIUM SULFATE	1274910	30	g			