Tuesday, February 09, 2010

REQUEST NUMBER: 10-1703

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number:10-1703

Per Agreement Number:126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 2/9/2010

TURNAROUND/REPORT DUE: 3/11/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8179	R	2/5/2010	
		1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	
	SW-846:8321A_MOD	1	RE15-10-8179	R	2/5/2010	

Tuesday, February 09, 2010

REQUEST NUMBER: 10-1703

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	

Final Page of REQUEST NUMBER 10-1703

Tuesday, February 09, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1703

REQUEST NUMBER: 10-1703

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

TURNAROUND/REPORT DUE: 3/11/2010

TURNAROUND REQ'D: 30

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8185	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8183	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8179	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8184	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8180	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8181	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8182	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8210	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:		Date	Time	Received By:		Date	Time
Jeey Wes		2/9/10	1400				
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			

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8179 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/05/2010	MEDIA:	QBT3	OK
TIME COLLECTED (HH:MM)		09:50	SUB-MEDIA:	TUFF 1	OK
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	15-610816	OK	FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	|
TOP DEPTH:	0	79.0 ft	SAMPLE USAGE:	INV	|
BOTTOM DEPTH:	0	80.0 ft	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	OK	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: -90° BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER JRM 2/5/10	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	~~8082~~+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	|	H3	500 ML POLY	Ice	|	
1	|	Metals+ClO4+CN	500 ML POLY	Ice	|	
1	|	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	|	

SAMPLE DESC:

Light gray, moderately to non-indurated, non welded, devitrified dry, ash flow tuff

SAMPLE COMMENTS:

N/A

LOCATION DESC:

7c-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 20 dpm
Beta/Gamma = 643 dpm

PID Ambient Reading 0/0 ppm

COLLECTED BY (PRINT) J. MARIN

REVIEWED BY (PRINT) Larry A Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) A. Goumas (Signature) [signature]	2.5.10 1625	(Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	2/5/10 1625
RELINQUISHED BY (Printed Name) (Signature)	**Date/Time**	**RECEIVED BY** (Printed Name) (Signature)	**Date/Time**

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8180 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/05/2010	MEDIA:	QBT3	OK
TIME COLLECTED (HH:MM)		10:20	SUB-MEDIA:	TUFF 1	OK
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	15-610816	OK	FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	
TOP DEPTH:	0	94.0 ft	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	95.0 ft	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	OK	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: -90° BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER JRM 2/5/10	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	~~8082+~~NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light gray, Non indurated, Non welded, devitrified, dry ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7c-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 23.1 **dpm**

Beta/Gamma = 1410 **dpm**

PID Ambient Reading 0 ppm

COLLECTED BY (PRINT) L. Lopez

REVIEWED BY (PRINT) Riley E.

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) A. Goumas	2.5.10 1625	(Printed Name) Sherri Sherwood	2/5/10 1625
(Signature)		(Signature)	
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8181 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/05/2010	MEDIA:	OBT3	OK
TIME COLLECTED (HH:MM)		10:50	SUB-MEDIA:	TUFF 1	OK
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	15-610816		FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0	109.0 ft	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	110.0 ft	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	OK	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / (NO) / NA

BOREHOLE: (YES) / NO / NA **BOREHOLE DECLINATION:** -90° **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER JRM 2/5/10	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	~~8082~~+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light gray, non-indurated, nonwelded, devitrified, dry, ash flow tuf

SAMPLE COMMENTS:

LOCATION DESC:

7c-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = ~~27~~ 10 dpm JRM 2/5/10

Beta/Gamma = 2700 dpm

PID Ambient 0 / Reading 0 = ppm

COLLECTED BY (PRINT) L. Lopez

REVIEWED BY (PRINT) Riley Evans

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) A. Gonzales (Signature)	2.5.10 1625	(Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	2/5/10 1625
RELINQUISHED BY (Printed Name) (Signature)	**Date/Time**	**RECEIVED BY** (Printed Name) (Signature)	**Date/Time**

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8182 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/05/2010	MEDIA:	QBT3	QBT 2
TIME COLLECTED (HH:MM)	JRM 2/5/10	11 12:50	SUB-MEDIA:	TUFF 1	OK
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	15-610816		FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	OK
TOP DEPTH:	0	124.0 ft	SAMPLE USAGE:	INV	OK
BOTTOM DEPTH:	0	125.0 ft	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	OK	EXCAVATED: YES NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES NO / NA

BOREHOLE: YES NO / NA BOREHOLE DECLINATION: -90° BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER JRM 2/5/10	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	~~8082~~+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light pinkish gray, moderately to strongly indurated, ~~slightly~~ moderately welded, devitrified, dry, ash flow tuff JRM 2/5/10

SAMPLE COMMENTS:

NA

LOCATION DESC:

7c-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 10 **dpm**
Beta/Gamma = 1053 **dpm**

PID Ambient Reading 0 = 0 **ppm**

COLLECTED BY (PRINT) L. Lopez

REVIEWED BY (PRINT) R. Ty Eaton

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) A. Gouvras	2.5.10 1625	(Printed Name) Sherri Sherwood	2/5/10 1625
(Signature) [signature]		(Signature) [signature]	
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8183 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/05/2010	MEDIA:	QBT3	1RM 2/5/10 OK QBT2
TIME COLLECTED (HH:MM)		12:45	SUB-MEDIA:	TUFF 1	OK
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	15-610816		FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0	139.0 ft	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	140.0 ft	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	OK	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: -90° BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light brownish gray moderately to strongly indurated, slightly welded, phenocryst-rich, devitrified, dry, ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

~~17~~ 1RM 2/5/10 7c-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 3 dpm
Beta/Gamma = 1680 dpm

PID Ambient Reading 0/0 ppm

COLLECTED BY (PRINT) L. Lopez

REVIEWED BY (PRINT) J. MAAIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) A. Goumas (Signature)	2.5.10 1625	(Printed Name) Henri Sherwood (Signature) Henri Sherwood	2/5/10 1625
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name) (Signature)		(Printed Name) (Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8184 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/05/2010	MEDIA:	QBT3	QBT 2
TIME COLLECTED (HH:MM)		13:30	SUB-MEDIA:	TUFF 1	OK
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	15-610816	|	FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC	|	FIELD PREP:	NA	|
TOP DEPTH:	0	154.0 ft	SAMPLE USAGE:	INV	|
BOTTOM DEPTH:	0	155.0 ft	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	OK	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / (NO) / NA

BOREHOLE: (YES) / NO / NA **BOREHOLE DECLINATION:** -90° **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER JRM 2/5/10	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	~~8082~~+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	|	H3	500 ML POLY	Ice	Y	
1	|	Metals+ClO4+CN	500 ML POLY	Ice	Y	
1	|	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light brownish gray, moderately indurated, nonwelded, devitrified dry, ash flow tuff

SAMPLE COMMENTS:

~~DHA~~ JRM 2/5/10 Sample contains 1 cm thick clay fracture fill

LOCATION DESC:

7c-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 24 **dpm**
Beta/Gamma = 1397 **dpm**

PID Ambient Reading 0 / 0 **ppm**

COLLECTED BY (PRINT) L. Lopez **REVIEWED BY (PRINT)** J. Marin

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) A. Gomas (Signature) [signature]	2.5.10 1625	(Printed Name) Sherri Sherwood (Signature) [signature]	2/5/10 1625
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name) (Signature)		(Printed Name) (Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8185 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/05/2010	MEDIA:	QBT3	QBT1
TIME COLLECTED (HH:MM)		14:14	SUB-MEDIA:	TUFF 1	OK
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA	OK 1RM 2/6/10 CBS
LOCATION ID:	15-610816		FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0	169.0 ft	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	170.0 ft	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	OK	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: -90° BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER 1RM 2/6/10	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	~~8082~~+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light/Brownish gray, moderately indurated, non welded, devitrified dry, ash flow tuff

SAMPLE COMMENTS:

Thin fractures and iron oxide stain in sample

LOCATION DESC:

7c-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 20 **dpm**
Beta/Gamma = 1397 **dpm**

PID Ambient Reading 0/0 **ppm**

COLLECTED BY (PRINT) L. Lopez

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) A. Gamas	2.5.10	(Printed Name) Sherri Sherwood	2/5/10
(Signature)	1625	(Signature)	1625
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8210 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/05/2010	MEDIA:	QBT3	QBT 1
TIME COLLECTED (HH:MM)		14:50	SUB-MEDIA:	TUFF 1	OK
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA	CBS
LOCATION ID:	UNK	15-610816	FIELD QC TYPE:	NA	OK
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	
TOP DEPTH:	0	181.5 ft	SAMPLE USAGE:	INV	
BOTTOM DEPTH:	0	182.5 ft	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	OK	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / (NO) / NA

BOREHOLE: (YES) / NO / NA **BOREHOLE DECLINATION:** -90° **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light brownish gray, slightly indurated, non welded, devitrified dry, ash flow tuff

SAMPLE COMMENTS:

~~HA~~ JRM 2/5/10 Sample contains 1.0 cm thick clay fracture fill.

LOCATION DESC:

7e-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 24 dpm

Beta/Gamma = 1397 dpm

PID Ambient Reading 0/0 ppm

COLLECTED BY (PRINT) L. Lopez

REVIEWED BY (PRINT) J. Marin

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) A. Gouvas	2.5.10	(Printed Name) Sherri Sherwood	2/5/10
(Signature) [signature]	1625	(Signature) [signature]	1625
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

Rad Screening Data Release Form

The Following samples were received at the Field Support Facility (FSF) without screening data (list sample number):

REIS - 10 -8179
8180
8181
8182
8183
8184
8185
8210

WSTIS 10 - 11621
11620

These samples will not be shipped until radiological screening data documentation arrives at the FSF. I understand that it is my responsibility to ensure this information arrives at the FSF in a timely manner. If holding times are missed because screening data does not arrive, I will pick up the samples.

The following samples do not require rad screening data for the reasons stated (list sample numbers):

WSTIS -10 - 11625
11626

Reason: QC of samples

Print Last Name Gouras Signature [signature] Date 2.5.10

Rad Screening Data Release Form

The Following samples were received at the Field Support Facility (FSF) without screening data (list sample number):

REIS - 10 -8179
8180
8181
8182
8183
8184
8185
8210

WSTIS 10 - 11621
11620

These samples will not be shipped until radiological screening data documentation arrives at the FSF. I understand that it is my responsibility to ensure this information arrives at the FSF in a timely manner. If holding times are missed because screening data does not arrive, I will pick up the samples.

The following samples do not require rad screening data for the reasons stated (list sample numbers):

WSTIS -10 - 11625
11626

Reason: QC of samples

Print Last Name Gounas Signature [signature] Date 2.5.10

ARS AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00052	Request or PO Number:	
Client Sample ID:	RE15-10-8179	ARS Sample ID:	ARS2-10-00052-001
Sample Collection Date:	02/05/10 09:50	Date Received:	02/08/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	02/09/10 11:42

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TMI	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	-1.40	10.20	32.50	10.20		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
GROSS BETA	16.82	12.00	18.18	12.17		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
K-40	29.29	8.96	1.59	9.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CO-60	0.00	10.38	0.11	10.38		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-134	0.10	0.10	0.08	0.10		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-137	0.00	-0.03	0.07	-0.03		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
EU-152	0.00	10.79	0.12	10.79		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
PB-212	1.39	0.50	0.16	0.51		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
RA-226	2.20	0.87	0.28	0.88		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-235	1.42	0.88	0.23	0.88		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-238	4.27	3.34	1.35	3.48		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
AM-241	0.02	0.15	0.09	0.15		pCi/g	EPA 901.1M	2/8/2010	NP	N/A

NOTES: % Moisture: 0.13

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00052	Request or PO Number:	
Client Sample ID:	RE15-10-8180	ARS Sample ID:	ARS2-10-00052-002
Sample Collection Date:	02/05/10 10:20	Date Received:	02/08/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	02/09/10 11:42

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	5.87	16.01	33.18	16.03		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
GROSS BETA	17.70	12.36	18.35	12.55		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
K-40	-1.85	2961.00	5.31	2961.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CO-60	0.00	12.04	0.12	12.04		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-134	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-137	0.04	0.09	0.08	0.09		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
EU-152	0.35	0.41	0.14	0.41		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
PB-212	1.33	0.53	0.17	0.53		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
RA-226	1.01	0.64	0.32	0.64		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-235	0.91	0.74	0.39	0.74		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-238	-0.84	-11.06	1.34	-11.06		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
AM-241	0.30	0.36	0.14	0.36		pCi/g	EPA 901.1M	2/8/2010	NP	N/A

NOTES: % Moisture: 0.15

Matthew J. Eder

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00052
Client Sample ID: RE15-10-8181
Sample Collection Date: 02/05/10 10:50
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00052-003
Date Received: 02/08/10 00:00
Report Date: 02/09/10 11:42

Analysis Description	Analysis Results	Analysis Error +/- 2 σ	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Cham Recovery
GROSS ALPHA	9.39	16.56	29.88	16.60		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
GROSS BETA	27.19	13.97	18.68	14.36		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
K-40	29.67	9.92	1.90	9.96		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CO-60	0.00	12.46	0.13	12.46		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-134	0.18	0.22	0.11	0.22		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-137	-0.01	16.30	0.08	16.30		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
EU-152	0.26	0.37	0.18	0.37		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
PB-212	1.28	0.49	0.12	0.49		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
RA-226	0.80	0.48	0.39	0.48		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-235	2.04	1.03	0.19	1.03		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-238	2.04	3.28	1.56	3.31		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
AM-241	0.13	0.25	0.11	0.25		pCi/g	EPA 901.1M	2/8/2010	NP	N/A

NOTES: % Moisture: 0.19

Matthew L. Eden
Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # 887558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00052
Client Sample ID: RE15-10-8182
Sample Collection Date: 02/05/10 11:50
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00052-004
Date Received: 02/08/10 00:00
Report Date: 02/09/10 11:43

Analysis Description	Analysis Results	Analysis Error +/- 2 σ	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	-2.32	9.52	31.64	9.53		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
GROSS BETA	35.89	14.31	18.11	14.96		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
NA-22	0.03	0.07	0.14	0.07		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
K-40	32.50	11.36	2.26	11.40		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CO-60	0.00	14.82	0.15	14.82		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-134	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-137	-0.01	19.39	0.09	19.39		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
EU-152	1.75	0.86	0.17	0.87		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
PB-212	2.16	0.69	0.17	0.70		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
RA-228	2.52	1.17	0.40	1.12		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-235	0.10	0.34	0.38	0.34		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-238	7.53	3.81	1.35	4.18		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
AM-241	0.00	0.05	0.09	0.05		pCi/g	EPA 901.1M	2/8/2010	NP	N/A

NOTES: % Moisture: 0.18

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # EB7558

ARS AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00052
Client Sample ID: RE15-10-8183
Sample Collection Date: 02/05/10 12:45
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00052-005
Date Received: 02/08/10 00:00
Report Date: 02/09/10 11:43

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	8.50	17.11	32.50	17.14		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
GROSS BETA	19.49	12.56	18.18	12.78		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
NA-22	0.08	0.16	0.13	0.16		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
K-40	36.82	11.30	2.02	11.36		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CO-60	0.00	13.23	0.12	13.23		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-134	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-137	-0.01	17.31	0.08	17.31		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
EU-152	0.40	0.41	0.15	0.41		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
PB-212	2.29	0.66	0.13	0.66		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
RA 228	3.39	1.23	0.35	1.23		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-235	0.25	0.60	0.33	0.60		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-238	2.70	3.31	1.56	3.37		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
AM-241	0.83	0.56	0.18	0.56		pCi/g	EPA 901.1M	2/8/2010	NP	N/A

NOTES: % Moisture: 0.34

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00052
Client Sample ID: RE15-10-8184
Sample Collection Date: 02/05/10 13:30
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00052-006
Date Received: 02/08/10 00:00
Report Date: 02/09/10 11:43

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	1.23	13.22	33.10	13.22		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
GROSS BETA	40.43	15.01	18.35	15.81		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
K-40	36.22	11.08	1.96	11.13		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CO-60	0.00	12.93	0.13	12.93		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-134	0.30	0.19	0.09	0.19		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-137	0.24	0.22	0.08	0.22		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
EU-152	0.00	67.84	0.15	67.84		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
PB-212	1.50	0.58	0.18	0.58		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
RA-226	1.94	0.70	0.34	0.79		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-235	0.94	0.98	0.44	0.98		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-238	3.91	3.85	1.74	3.95		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
AM-241	-0.01	35.56	0.08	35.56		pCi/g	EPA 901.1M	2/8/2010	NP	N/A

NOTES: % Moisture: 0.31

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00052	Request or PO Number:	
Client Sample ID:	RE15-10-8185	ARS Sample ID:	ARS2-10-00052-007
Sample Collection Date:	02/05/10 14:14	Date Received:	02/08/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	02/09/10 11:42

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	-0.24	9.83	29.97	9.83		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
GROSS BETA	41.44	15.57	18.85	16.38		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
NA-22	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
K-40	-0.55	-16.36	4.78	-16.36		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CO-60	0.00	12.97	0.13	12.97		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-134	0.18	0.15	0.10	0.15		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-137	0.01	0.04	0.08	0.04		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
EU-152	0.86	0.70	0.23	0.70		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
PB-212	1.96	0.60	0.11	0.60		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
RA-228	3.03	1.15	0.35	1.16		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-235	1.01	0.76	0.40	0.76		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-238	7.13	4.07	1.45	4.38		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
AM-241	0.01	0.11	0.10	0.11		pCi/g	EPA 901.1M	2/8/2010	NP	N/A

NOTES: % Moisture: 1.04

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00052	Request or PO Number:	
Client Sample ID:	RE15-10-8210	ARS Sample ID:	ARS2-10-00052-008
Sample Collection Date:	02/05/10 14:50	Date Received:	02/08/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	02/09/10 11:43

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	16.05	20.37	31.64	20.47		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
GROSS BETA	37.46	14.87	18.11	15.56		pCi/g	EPA 900.0M	2/8/2010	NP	N/A
NA-22	0.00	0.00	0.15	0.00		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
K-40	35.68	11.93	2.29	11.98		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CO-60	0.00	0.19	0.15	0.18		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-134	0.29	0.33	0.11	0.33		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
CS-137	0.05	0.11	0.09	0.11		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
EU-152	0.27	0.40	0.17	0.40		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
PB-212	1.62	0.68	0.24	0.69		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
RA 226	1.61	0.87	0.40	0.87		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-235	1.70	0.86	0.23	0.86		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
U-238	8.26	4.70	1.67	5.06		pCi/g	EPA 901.1M	2/8/2010	NP	N/A
AM-241	0.30	0.36	0.15	0.37		pCi/g	EPA 901.1M	2/8/2010	NP	N/A

NOTES: % Moisture: 0.88

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY

Section I.

REQUEST NUMBER: 10-1703 VALIDATION DATE: 03/23/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Susan Ball ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- ☐ TPH-GRO
- ☐ TPH-DRO
- ☐ GENERAL CHEMISTRY
- ☐ HIGH EXPLOSIVES
- ☐ METALS
- ☐ RADIOCHEMISTRY
- ☐ DIOXIN FURANS
- ☐ PCB CONGENERS
- ☒ LCMSMS HIGH EXPLOSIVES
- ☐ LCMSMS PERCHLORATES
- ☐ ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
- ☐ OTHER (DESCRIBE):

Section II. Completeness Check

YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
☒	☐	☐	1. CHAIN-OF-CUSTODY FORM(S)	☒	☐	☐	6. RAW/BSS DATA
☒	☐	☐	2. CASE NARRATIVE	☒	☐	☐	7. QUALITY CONTROL FORMS
☒	☐	☐	3. SAMPLE RESULT FORMS	☒	☐	☐	8. QUANTITATION REPORTS
☒	☐	☐	4. SAMPLE CHROMATOGRAMS	☐	☐	☒	9. TICS FORMS
☐	☐	☒	5. STANDARD CHROMATOGRAMS	☐	☐	☒	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):

1. 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.
2. In the ICV associated with samples RE15-10-8179 through -8181 and -8183 through -8185, the %Ds for RDX and 2,4,6-trinitrotoluene were >20% with positive bias. In the CCV associated with samples -8182 and -8210, the %Ds for HMX and PETN were > 20% with positive bias. All associated sample results were NDs and, thus, were not qualified.
3. The LCS %R for tetryl was ≥ 10% but < the laboratory LAL. The associated sample results were NDs and, thus, qualified UJ,HE12a.

Reviewed by: Monica Dymerski **Level I** **Date:** 03/24/10

VALIDATOR'S SIGNATURE: [signature] DATE: 03/23/10

DATA VALIDATION COVER SHEET	
5122-1 **Data Validation Cover Sheet**	Records Use only Los Alamos NATIONAL LABORATORY
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 Los Alamos NATIONAL LABORATORY EST. 1943

Yes	No	N/A		Assign Qualifier Listed Below if Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	1. The IS retention time has shifted by more than 30 seconds.	R, UJ, HE0	J, HE0
☐	☒	☐	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
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	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
☐	☒	☐	7. The surrogate is <10%R. Follow the external laboratory limits.	R, HE3	J-, HE3
☐	☒	☐	8. The surrogate is < the Lower Acceptance Limit but ≥10% recovery. Follow the external laboratory limits.	UJ, HE3a	J-, HE3a
☐	☒	☐	9. The surrogate %R value is > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE3b
☐	☐	☒	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

Records Use only

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below if Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	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
☐	☒	☐	12. The sample result is ≤5 times the concentration of the related analyte in the method blank.	U, HE4	N/A
☐	☒	☐	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
☐	☐	☒	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
☐	☒	☐	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
☐	☒	☐	16. The absence of sample carry-over must be determined and verified.	N/A	R, N, HE4f
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	19. The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
☒	☐	☐	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
☐	☒	☐	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
☐	☒	☐	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

Records Use only

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below if Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	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
☐	☒	☐	24. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, HE9	J-, HE9
☐	☒	☐	25. The holding time was >2 times the applicable holding time requirement.	R, HE9a	J-, HE9a
☐	☒	☐	26. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, HE12	J-, HE12
☒	☐	☐	27. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, HE12a	J-, HE12a
☐	☒	☐	28. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE12b
☐	☒	☐	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
☐	☒	☐	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
☐	☒	☐	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
☐	☒	☐	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
☐	☒	☐	33. The MS/MSD relative percent difference was >30%.	UJ, HE12g	J, HE12g
☐	☐	☒	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
☐	☐	☒	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**	Records Use only Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below if Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☐	☒	36. The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criteria.	UJ, R, HE16	J, HE16
☐	☐	☒	37. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, HE16c	R, HE16c
☐	☒	☐	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
☐	☒	☐	39. Duplicate, dilution, or reanalysis.	UJ, HE88	J, HE88

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8185

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677001

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311015a

Date Analyzed: 11-MAR-10 17:37

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8185

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677001

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010034.wiff

Date Analyzed: 01-MAR-10 17:42

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8183

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311018a

Date Analyzed: 11-MAR-10 19:05

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8183

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260216.wiff

Date Analyzed: 28-FEB-10 23:13

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8179

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311019a

Date Analyzed: 11-MAR-10 19:34

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8179

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260217.wiff

Date Analyzed: 28-FEB-10 23:29

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8184

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677004

Sample Amount 2

Moisture: 2.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311020a

Date Analyzed: 11-MAR-10 20:04

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8184

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677004

Sample Amount 2

Moisture: 2.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260218.wiff

Date Analyzed: 28-FEB-10 23:44

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8180

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677005

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311021a

Date Analyzed: 11-MAR-10 20:33

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8180

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677005

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260219.wiff

Date Analyzed: 01-MAR-10 00:00

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8181

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311022a

Date Analyzed: 11-MAR-10 21:03

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8181

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260220.wiff

Date Analyzed: 01-MAR-10 00:16

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8182

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677007

Sample Amount 2

Moisture: 2.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312013a

Date Analyzed: 12-MAR-10 21:59

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8182

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677007

Sample Amount 2

Moisture: 2.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260221.wiff

Date Analyzed: 01-MAR-10 00:31

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8210

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677008

Sample Amount 2

Moisture: 6.8

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312014a

Date Analyzed: 12-MAR-10 22:29

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8210

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677008

Sample Amount 2

Moisture: 6.8

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260222.wiff

Date Analyzed: 01-MAR-10 00:47

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

SEB
3/23/10

DATA VALIDATION COVER SHEET

5116-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY

Section I.

REQUEST NUMBER: 10-1703 VALIDATION DATE: 03/23/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Susan Ball ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- ☐ TPH-GRO
- ☐ TPH-DRO
- ☐ GENERAL CHEMISTRY
- ☐ HIGH EXPLOSIVES
- ☐ METALS
- ☐ RADIOCHEMISTRY
- ☐ DIOXIN FURANS
- ☐ PCB CONGENERS
- ☐ LCMSMS HIGH EXPLOSIVES
- ☐ LCMSMS PERCHLORATES
- ☒ ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
- ☐ OTHER (DESCRIBE): PCBs

Section II. Completeness Check

YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
☒	☐	☐	1. CHAIN-OF-CUSTODY FORM(S)	☒	☐	☐	6. RAW/BSS DATA
☒	☐	☐	2. CASE NARRATIVE	☒	☐	☐	7. QUALITY CONTROL FORMS
☒	☐	☐	3. SAMPLE RESULT FORMS	☒	☐	☐	8. QUANTITATION REPORTS
☒	☐	☐	4. SAMPLE CHROMATOGRAMS	☐	☐	☒	9. TICS FORMS
☐	☐	☒	5. STANDARD CHROMATOGRAMS	☐	☐	☒	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):

1. The parent QC sample was from another LANL RN, and the raw data for the parent QC sample was not included in the data package. Since the analysis of an MS/MSD pair was not a client requirement, no sample results were qualified.

Reviewed by: Monica Dymerski **Level I** **Date:** 03/24/10

VALIDATOR'S SIGNATURE: [signature] DATE: 03/23/10

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

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below if Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
☐	☒	☐	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
☐	☒	☐	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
☐	☒	☐	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
☐	☐	☒	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
☐	☒	☐	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
☐	☐	☒	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

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below if Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☐	☒	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
☐	☐	☒	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
☐	☒	☐	13. The sample result is ≤5X the concentration of the related analyte in the method blank.	U, P4	N/A
☐	☒	☐	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
☐	☐	☒	15. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	UJ, P4b	N/A
☐	☐	☒	16. The sample result is ≤5X the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, P4d	N/A
☐	☒	☐	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
☐	☒	☐	18. The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.	R, P0	J, P0
☐	☒	☐	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
☐	☒	☐	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 Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	21. The surrogate is < the Lower Acceptance Level (LAL) but ≥10%R. Follow the external laboratory limits located within the associated data package.	UJ, P3a	J-, P3a
☐	☒	☐	22. The surrogate %R value is > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P3b
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, P12	J-, P12
☐	☒	☐	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
☐	☒	☐	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P12b
☐	☒	☐	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
☐	☐	☒	29. The analyte was not confirmed on a second dissimilar column.	N/A	R, P8
☐	☐	☒	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
☐	☒	☐	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 Los Alamos NATIONAL LABORATORY EST. 1943

Yes	No	N/A		Assign Qualifier Listed Below if Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☐	☒	32. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytees identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, P15	R, P15
☒	☐	☐	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
☐	☒	☐	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:	10–1703	Date Collected:	02/05/2010 12:00	Matrix:	R
Lab Sample ID:	246677003	Date Received:	02/10/2010 08:50	%Moisture:	1.5
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15–10–8179	Method:	SW846 8082	SOP Ref:	GL–OA–E–040
Batch ID:	953776	Inst:	ECD2A.I	Dilution:	1
Run Date:	02/17/2010 11:04	Analyst:	JAOC	Inj. Vol:	1 uL
Prep Date:	02/16/2010 20:17	Aliquot:	30.03 g	Final Volume:	1 mL
Data File:	018f1801.d	Column:	1 CLP1	Level:	LOW
	018b1801.d		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

SEB
3/23/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677005	**Date Received:**	02/10/2010 08:50	**%Moisture:**	1.6
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15-10-8180	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:26	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.18 g	**Final Volume:**	1 mL
Data File:	020f2001.d	**Column:**	1 CLP1	**Level:**	LOW
	020b2001.d		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

SEB
3/23/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677006	**Date Received:**	02/10/2010 08:50	**%Moisture:**	1.9
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8181	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:38	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.15 g	**Final Volume:**	1 mL
Data File:	021f2101.d	**Column:**	1 CLP1	**Level:**	LOW
	021b2101.d		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

SEB
3/23/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677007	**Date Received:**	02/10/2010 08:50	**%Moisture:**	2.1
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15-10-8182	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:49	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.03 g	**Final Volume:**	1 mL
Data File:	022f2201.d	**Column:**	1 CLP1	**Level:**	LOW
	022b2201.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

SEB
3/23/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	Date Collected:	02/05/2010 12:00	Matrix:	R
Lab Sample ID:	246677002	Date Received:	02/10/2010 08:50	%Moisture:	3.1
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15–10–8183	Method:	SW846 8082	SOP Ref:	GL–OA–E–040
Batch ID:	953776	Inst:	ECD2A.I	Dilution:	1
Run Date:	02/17/2010 10:53	Analyst:	JAOC	Inj. Vol:	1 uL
Prep Date:	02/16/2010 20:17	Aliquot:	30.18 g	Final Volume:	1 mL
Data File:	017f1701.d	Column:	1 CLP1	Level:	LOW
	017b1701.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.42	ug/kg	1.14	3.42	1
11104–28–2	Aroclor–1221	U	3.42	ug/kg	1.14	3.42	1
11141–16–5	Aroclor–1232	U	3.42	ug/kg	1.14	3.42	1
53469–21–9	Aroclor–1242	U	3.42	ug/kg	1.14	3.42	1
12672–29–6	Aroclor–1248	U	3.42	ug/kg	1.14	3.42	1
11097–69–1	Aroclor–1254	U	3.42	ug/kg	1.14	3.42	1
11096–82–5	Aroclor–1260	U	3.42	ug/kg	1.14	3.42	1

SEB
3/23/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1703	Date Collected:	02/05/2010 12:00	Matrix:	R
Lab Sample ID:	246677004	Date Received:	02/10/2010 08:50	%Moisture:	2.9
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8184	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	953776	Inst:	ECD2A.I	Dilution:	1
Run Date:	02/17/2010 11:15	Analyst:	JAOC	Inj. Vol:	1 uL
Prep Date:	02/16/2010 20:17	Aliquot:	30.04 g	Final Volume:	1 mL
Data File:	019f1901.d	Column:	1 CLP1	Level:	LOW
	019b1901.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.43	ug/kg	1.14	3.43	1
11104-28-2	Aroclor-1221	U	3.43	ug/kg	1.14	3.43	1
11141-16-5	Aroclor-1232	U	3.43	ug/kg	1.14	3.43	1
53469-21-9	Aroclor-1242	U	3.43	ug/kg	1.14	3.43	1
12672-29-6	Aroclor-1248	U	3.43	ug/kg	1.14	3.43	1
11097-69-1	Aroclor-1254	U	3.43	ug/kg	1.14	3.43	1
11096-82-5	Aroclor-1260	U	3.43	ug/kg	1.14	3.43	1

SEB
3/23/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1703	Date Collected:	02/05/2010 12:00	Matrix:	R
Lab Sample ID:	246677001	Date Received:	02/10/2010 08:50	%Moisture:	9
		Client:	LANL010	Project:	LANL01004
Client ID:	RE15-10-8185	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	953776	Inst:	ECD2A.I	Dilution:	1
Run Date:	02/17/2010 10:42	Analyst:	JAOC	Inj. Vol:	1 uL
Prep Date:	02/16/2010 20:17	Aliquot:	30.13 g	Final Volume:	1 mL
Data File:	016f1601.d	Column:	1 CLP1	Level:	LOW
	016b1601.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.65	ug/kg	1.22	3.65	1
11104-28-2	Aroclor-1221	U	3.65	ug/kg	1.22	3.65	1
11141-16-5	Aroclor-1232	U	3.65	ug/kg	1.22	3.65	1
53469-21-9	Aroclor-1242	U	3.65	ug/kg	1.22	3.65	1
12672-29-6	Aroclor-1248	U	3.65	ug/kg	1.22	3.65	1
11097-69-1	Aroclor-1254	U	3.65	ug/kg	1.22	3.65	1
11096-82-5	Aroclor-1260	U	3.65	ug/kg	1.22	3.65	1

SEB
3/23/10

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677008	**Date Received:**	02/10/2010 08:50	**%Moisture:**	6.8
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8210	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 12:00	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.18 g	**Final Volume:**	1 mL
Data File:	023f2301.d	**Column:**	1 CLP1	**Level:**	LOW
	023b2301.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.55	ug/kg	1.18	3.55	1
11104–28–2	Aroclor–1221	U	3.55	ug/kg	1.18	3.55	1
11141–16–5	Aroclor–1232	U	3.55	ug/kg	1.18	3.55	1
53469–21–9	Aroclor–1242	U	3.55	ug/kg	1.18	3.55	1
12672–29–6	Aroclor–1248	U	3.55	ug/kg	1.18	3.55	1
11097–69–1	Aroclor–1254	U	3.55	ug/kg	1.18	3.55	1
11096–82–5	Aroclor–1260	U	3.55	ug/kg	1.18	3.55	1

SEB
3/23/10

Tuesday, February 09, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1703

REQUEST NUMBER: 10-1703

LOS ALAMOS

NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

TURNAROUND/REPORT DUE: 3/11/2010

TURNAROUND REQ'D: 30

LAB REQUEST COMMENTS: 246677 2/.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8185	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8183	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8179	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8184	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8180	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8181	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8182	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8210	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:		Date	Time	Received By:		Date	Time
[illegible]	[illegible]	2/9/10	1400	Patricia Dover	Patricia Dover	2/10/10	08:50
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

Tuesday, February 09, 2010

REQUEST NUMBER: 10-1703

LOS ALAMOS
NATIONAL LABORATORY

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

These Samples are on:
LANL Request Number:10-1703
Per Agreement Number:126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/9/2010
TURNAROUND/REPORT DUE: 3/11/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8179	R	2/5/2010	
		1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	
	SW-846:8321A_MOD	1	RE15-10-8179	R	2/5/2010	

Tuesday, February 09, 2010

REQUEST NUMBER: 10-1703

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	~~SW-846:8321A_MOD~~	~~1~~	~~RE15-10-8180~~	~~R~~	~~2/5/2010~~	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	

Final Page of REQUEST NUMBER 10-1703

GEL Laboratories LLC

a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178

www.gel.com

February 16, 2010

Ms. Joylene Valdez
Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545

Re: LANL ER Project
Work Order: 246677
SDG: 10-1703

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 10, 2010, and analyzed for Explosives by LCMSMS and GC Semivolatile PCB. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4485.

Sincerely,

Valerie Davis

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-1703
Enclosures

problem solved

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 246677
SDG: 10-1703

TABLE OF CONTENTS

Case Narrative

Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 246677
SDG # : 10-1703

February 16, 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 10, 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:

Laboratory ID	Client ID
246677001	RE15-10-8185
246677002	RE15-10-8183
246677003	RE15-10-8179
246677004	RE15-10-8184
246677005	RE15-10-8180
246677006	RE15-10-8181
246677007	RE15-10-8182
246677008	RE15-10-8210

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

Valerie Davis
Project Manager

List of current GEL Certifications as of 16 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

Tuesday, February 09, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1703

REQUEST NUMBER: 10-1703

LOS ALAMOS

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/11/2010

TURNAROUND REQ'D: 30

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS: 246677 2/.

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Relinquished By:		Date	Time	Received By:		Date	Time
Jeff Wes		2/9/10	1400	Patricia Dover-Dent	Patricia Dover-Dent	2/10/10	08:50
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

Tuesday, February 09, 2010

REQUEST NUMBER: 10-1703

LOS ALAMOS
NATIONAL LABORATORY

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

These Samples are on:
LANL Request Number:10-1703
Per Agreement Number:126310011
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Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 2/9/2010
TURNAROUND/REPORT DUE: 3/11/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8179	R	2/5/2010	
		1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	
	SW-846:8321A_MOD	1	RE15-10-8179	R	2/5/2010	

Tuesday, February 09, 2010

REQUEST NUMBER: 10-1703

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	~~SW-846.8321A_MOD~~	~~1~~	~~RE15-10-8180~~	~~R~~	~~2/5/2010~~	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	

Final Page of REQUEST NUMBER 10-1703

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL	**SDG/ARCOC/Work Order: 10-1703**
Received By: Patricia Dover-Dent	**Date Received: February 10, 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*: **40 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 **1-3,5&6** **9-10,14C**
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 7849 9710 1C	**7209 7849 9753 5C**	**7209 7849 9694 10C**
7209 7849 9786 1C	**7209 7849 9812 5C**	**7209 7849 9650 10C**
7209 7849 9775 1C	**7209 7849 9823 6C**	**7209 7849 9640 14C**
7209 7849 9709 1C	**7209 7849 9731 5C**	
7209 7849 9742 2C	**7209 7849 9720 6C**	
7209 7849 9558 1C	**7209 7849 9661 6C**	
7209 7849 9683 3C	**7209 7849 9764 9C**	
7209 7849 9536 2C	**7209 7849 9672 6C**	

PM (or PMA) review: Initials PM Date 2/11/10

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
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Part # 156148-434 NRIT V3 09-09

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 64.0 LB MAN
CAD: 0014176/CAFE2449

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GENERAL ENGINEERING LAB
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Part # 156148-434 NRIT V3 09-09

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 64.0 LB MAN
CAD: 0014176/CAFE2449

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 64.0 LB MAN
CAD: 0014176/CAFE2449

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Part # 156148-434 NRIT V3 09-09

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

LOS ALAMOS, NM 87545
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MPS# 0263 7209 7849 9558
Mstr# 7209 7849 9547 0201
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Part # 156148-434 NRIT V3 09-09

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 08FEB10
ACTWGT: 61.0 LB MAN
CAD: 0014176/CAFE2449

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: [illegible]
CAD: 00[illegible]

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
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2 of 2
MPS# 0263 7209 7849 9753
MstrW 7209 7849 9742 0201

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PRIORITY OVERNIGHT

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 54.0 LB MAN
CAD: 0014176/CAFE2449

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 60.0 LB MAN
CAD: 0014176/CAFE2449

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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REF: 6B010AMR1A015AGWK0

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2 of 2
MPS# 0263 7209 7849 9823
MstrW 7209 7849 9812 0201

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PRIORITY OVERNIGHT

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 47.0 LB MAN
CAD: 0014176/CAFE2449

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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(843) 556-8171
REF: 6B010AMR[illegible]R0331TXH0

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PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2449

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A05529E00

6

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2 of 2
MPS# 0263 7209 7849 9720
Mstr# 7209 7849 9710 0201

WED - 10FEB A1
PRIORITY OVERNIGHT

29407
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XX CHSA

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
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6

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1 of 2
TRK# 0201 7209 7849 9661
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PRIORITY OVERNIGHT

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 58.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
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PRIORITY OVERNIGHT

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A0532VA00

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2 of 2
MPS# 0263 7209 7849 9672
Mstr# 7209 7849 9661 0201

WED - 10FEB
PRIORITY OVERNIGHT

29407
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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
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SHIP DATE: 09FEB10
ACTWGT: 60.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A0532VA00

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2 of 2
MPS# 0263 7209 7849 9694
Mstr# 7209 7849 9683 0201

WED - 10FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 09FEB10
ACTWGT: 60.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A0532VA00

10°

FedEx Express

3 of 3
MPS# 0263 7209 7849 9650
Mstr# 7209 7849 9639 0201

WED - 10FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

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

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(843) 556-8171
REF: 6B010AMR3A0532VA00

14°

FedEx Express

2 of 3
MPS# 0263 7209 7849 9640
Mstr# 7209 7849 9639 0201

WED - 10FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

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 10-1703

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:	952043
Prep Batch Number:	952041

Sample Analysis

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

Sample ID	Client ID
246677001	RE15-10-8185
246677002	RE15-10-8183
246677003	RE15-10-8179
246677004	RE15-10-8184
246677005	RE15-10-8180
246677006	RE15-10-8181
246677007	RE15-10-8182
246677008	RE15-10-8210
1202040457	Method Blank (MB)
1202040458	Laboratory Control Sample (LCS)
1202040459	246677001(RE15-10-8185) Matrix Spike (MS)
1202040460	246677001(RE15-10-8185) Matrix Spike Duplicate (MSD)

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 47.9%. The recovery limits are 51-112%. Since both the MS and MSD met acceptance limits for Tetryl, the data are reported. The Tetryl recovery met the DOD QSM marginal exceedance recovery limits of 41-122%. Please see data exception report 803719.

QC Sample Designation
Sample 246677001 (RE15-10-8185) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement
The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD spike recoveries 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.

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 246677007(RE15-10-8182) and 246677008(RE15-10-8210) 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.

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
Sample 246677001 (RE15-10-8185) 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 spike recoveries 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.

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
Samples 1202040457(MB), 1202040458(LCS), 246677001(RE15-10-8185), 1202040459(RE15-10-8185MS) and 1202040460(RE15-10-8185MSD) were re-analyzed due to bracketing CCV recoveries that did not meet acceptance criteria. The re-analysis passed acceptance criteria and is reported.

Miscellaneous Information

Data Exception (DER) Documentation
Data exception report 803719 was generated for this SDG.

The LCS recovered Tetryl at 47.9%. The recovery limits are 51-112%. Since both the MS and MSD met acceptance limits for Tetryl, the data are reported. The Tetryl recovery met the DOD QSM marginal exceedance recovery limits of 41-122%.

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 M. Maue **Date:** 03/15/10

SAMPLE DATA SUMMARY

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8185

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677001

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311015a

Date Analyzed: 11-MAR-10 17:37

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8185

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677001

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010034.wiff

Date Analyzed: 01-MAR-10 17:42

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8183

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311018a

Date Analyzed: 11-MAR-10 19:05

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8183

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260216.wiff

Date Analyzed: 28-FEB-10 23:13

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8179

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311019a

Date Analyzed: 11-MAR-10 19:34

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8179

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260217.wiff

Date Analyzed: 28-FEB-10 23:29

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8184

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677004

Sample Amount 2

Moisture: 2.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311020a

Date Analyzed: 11-MAR-10 20:04

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8184

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677004

Sample Amount 2

Moisture: 2.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260218.wiff

Date Analyzed: 28-FEB-10 23:44

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8180

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677005

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311021a

Date Analyzed: 11-MAR-10 20:33

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8180

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677005

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260219.wiff

Date Analyzed: 01-MAR-10 00:00

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8181

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311022a

Date Analyzed: 11-MAR-10 21:03

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8181

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260220.wiff

Date Analyzed: 01-MAR-10 00:16

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8182

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677007

Sample Amount 2

Moisture: 2.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312013a

Date Analyzed: 12-MAR-10 21:59

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8182

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677007

Sample Amount 2

Moisture: 2.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260221.wiff

Date Analyzed: 01-MAR-10 00:31

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8210

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677008

Sample Amount 2

Moisture: 6.8

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312014a

Date Analyzed: 12-MAR-10 22:29

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8210

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677008

Sample Amount 2

Moisture: 6.8

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260222.wiff

Date Analyzed: 01-MAR-10 00:47

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC **GEL Job No (SDG):** 10-1703

Lab Code: GEL **HPLC Column:** Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
246677001	RE15-10-8185	102	70 – 144	
246677001	RE15-10-8185	112	70 – 144	
246677002	RE15-10-8183	99.6	70 – 144	
246677002	RE15-10-8183	104	70 – 144	
246677003	RE15-10-8179	100	70 – 144	
246677003	RE15-10-8179	105	70 – 144	
246677004	RE15-10-8184	105	70 – 144	
246677004	RE15-10-8184	106	70 – 144	
246677005	RE15-10-8180	103	70 – 144	
246677005	RE15-10-8180	104	70 – 144	
246677006	RE15-10-8181	99.1	70 – 144	
246677006	RE15-10-8181	100	70 – 144	
246677007	RE15-10-8182	105	70 – 144	
246677007	RE15-10-8182	104	70 – 144	
246677008	RE15-10-8210	100	70 – 144	
246677008	RE15-10-8210	108	70 – 144	
1202040457	MB for batch 952041	102	70 – 144	
1202040457	MB for batch 952041	99.6	70 – 144	
1202040458	LCS for batch 952041	104	70 – 144	
1202040458	LCS for batch 952041	96.8	70 – 144	
1202040459	RE15-10-8185(246677001MS)	95	70 – 144	
1202040459	RE15-10-8185(246677001MS)	96.8	70 – 144	
1202040460	RE15-10-8185(246677001MSD)	101	70 – 144	
1202040460	RE15-10-8185(246677001MSD)	101	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) 10–1703

Extract Batch Code: 952041

Date Extracted: 18–FEB–10

GEL LCS ID: 1202040458

GEL LCSDUP ID:

Analysis Date/Time: 11–MAR–10 17:07

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–Amino–4,6–dinitrotoluene	5000	5440	109								90 – 130
4–Amino–2,6–dinitrotoluene	5000	5210	104								84 – 130
HMX	5000	4110	82.1								58 – 138
Nitrobenzene	5000	4820	96.4								71 – 122
2,6–Dinitrotoluene	5000	4900	98								89 – 120
2,4–Dinitrotoluene	5000	4660	93.2								87 – 137
2,4,6–Trinitrotoluene	5000	4920	98.4								73 – 149
1,3,5–Trinitrobenzene	5000	4120	82.3								69 – 126
PETN	5000	4370	87.4								64 – 137
RDX	5000	4400	87.9								81 – 137
Tetryl	5000	2390	47.9	*							51 – 112
m–Dinitrobenzene	5000	4530	90.6								83 – 122
m–Nitrotoluene	5000	4410	88.2								73 – 118
o–Nitrotoluene	5000	4500	90.1								72 – 119
p–Nitrotoluene	5000	4440	88.9								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) 10-1703

Extract Batch Code: 952041

Date Extracted: 18-FEB-10

GEL LCS ID: 1202040458

GEL LCSDUP ID:

Analysis Date/Time: 01-MAR-10 17:26

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	5500	110					52 – 114
2,6-Diamino-4-nitrotoluene	5000	5580	112					64 – 122
TATB	5000	5170	103					28 – 162
3,5-Dinitroaniline	5000	5000	100					70 – 127
tris(o-cresyl) phosphate	5000	4900	98					84 – 119

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

3

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8185

Lab Code: GEL

GEL Job No (SDG) 10-1703

Extract Batch Code: 952041

Date Extracted: 18-FEB-10

GEL Spike ID: 1202040459

GEL SpikeDup ID: 1202040460

Analysis Date/Time: 11-MAR-10 18:06

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	5090	102	4950	99.1	2.75	30	50 – 140
2,4,6-Trinitrotoluene	5000	0	4870	97.4	5010	100	2.82	30	76 – 144
2,4-Dinitrotoluene	5000	0	4740	94.8	5200	104	9.25	30	86 – 135
2,6-Dinitrotoluene	5000	0	4710	94.3	4830	96.5	2.33	30	90 – 118
2-Amino-4,6-dinitrotoluene	5000	0	5330	107	4920	98.5	7.84	30	85 – 137
4-Amino-2,6-dinitrotoluene	5000	0	4670	93.4	4700	94	.654	30	72 – 143
HMX	5000	0	4580	91.6	5490	110	18.1	30	51 – 144
Nitrobenzene	5000	0	4780	95.5	4520	90.4	5.45	30	70 – 122
PETN	5000	0	4770	95.4	5760	115	18.8	30	60 – 140
RDX	5000	0	4470	89.3	5170	103	14.6	30	59 – 152
Tetryl	5000	0	4040	80.8	3450	69	15.7	30	36 – 124
m-Dinitrobenzene	5000	0	4800	96.1	4810	96.1	.055	30	85 – 118
m-Nitrotoluene	5000	0	5000	100	5380	108	7.31	30	70 – 120
o-Nitrotoluene	5000	0	5080	102	4980	99.6	2.06	30	69 – 123
p-Nitrotoluene	5000	0	5260	105	5000	99.9	5.07	30	65 – 133

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

3

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8185

Lab Code: GEL

GEL Job No (SDG) 10-1703

Extract Batch Code: 952041

Date Extracted: 18-FEB-10

GEL Spike ID: 1202040459

GEL SpikeDup ID: 1202040460

Analysis Date/Time: 01-MAR-10 17:58

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
tris(o-cresyl) phosphate	5000	0	4950	99	5180	104	4.54	30	72 – 127
TATB	5000	0	5200	104	5480	110	5.24	30	29 – 155
2,4-Diamino-6-nitrotoluene	5000	0	4830	96.6	4940	98.8	2.25	26	34 – 135
3,5-Dinitroaniline	5000	0	4930	98.6	5130	103	3.98	30	73 – 129
2,6-Diamino-4-nitrotoluene	5000	0	5160	103	5220	104	1.16	30	55 – 130

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

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 11-MAR-10 10:41

GEL Data File: EXP0311001a

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	501.672
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	478.79
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

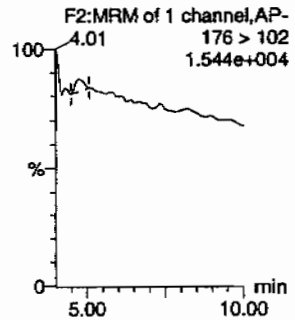
Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\031110expa.mdb, Time: Fri Mar 12 10:24:20 2010
Calibration: Untitled, Time: Fri Mar 12 13:25:17 2010

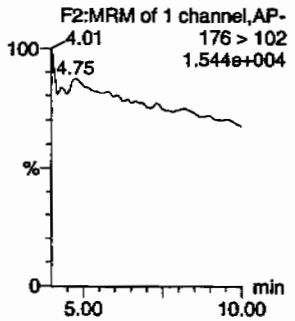
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311001a
Date: 11-Mar-2010
Time: 10:41:09
ID: XIBLK01
Vial: 1:1,A

MAP 3/12/10

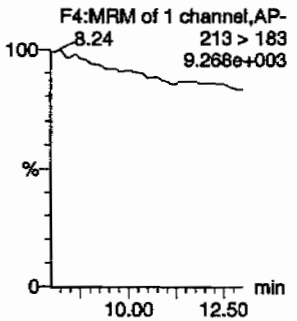
HMX



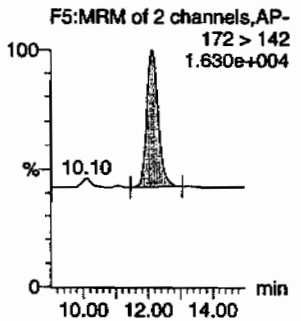
RDX



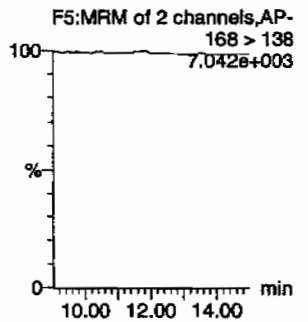
135-Trinitrobenzene



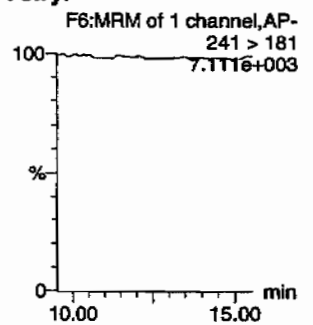
13-Dinitrobenzene-d4



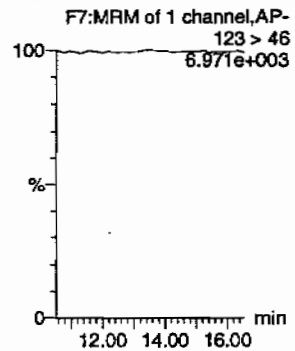
13-Dinitrobenzene



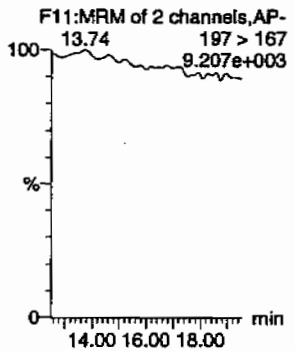
Tetryl



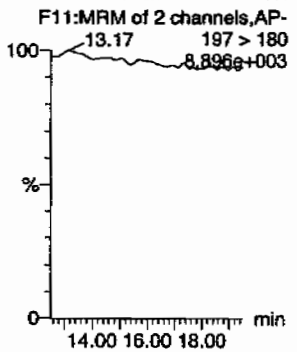
Nitrobenzene



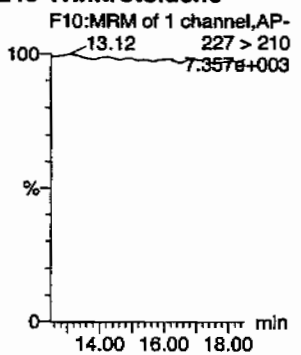
4-Amino-26-dinitrotoluene



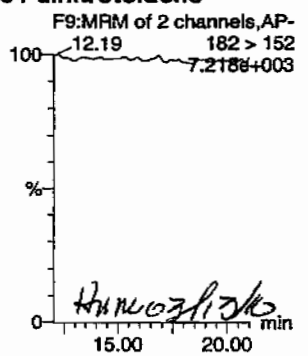
2-Amino-46-dinitrotoluene



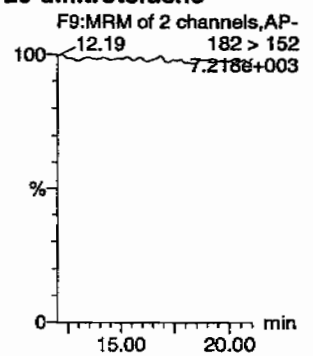
246-Trinitrotoluene



34-dinitrotoluene

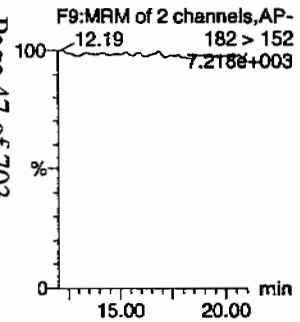


26-dinitrotoluene

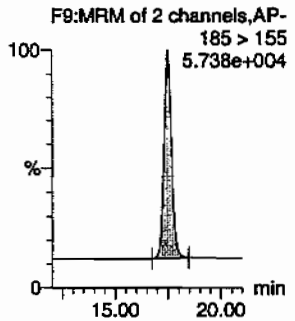


Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

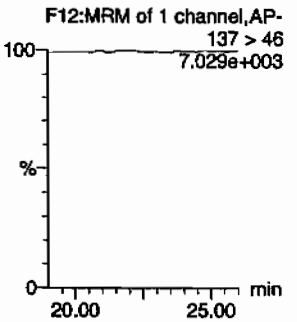
24-dinitrotoluene



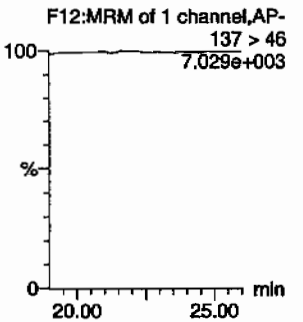
26-dinitrotoluene-d3



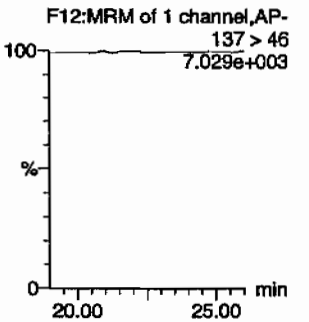
2-Nitrotoluene



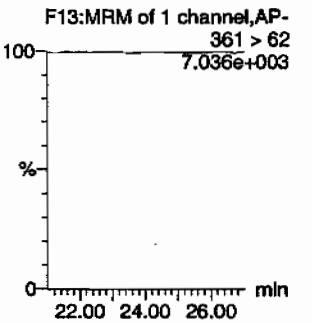
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK01	HMX	176 > 102			3873.036			MM-	12-Mar-10	13:15:06				
XIBLK01	RDX	176 > 102			3873.036									
XIBLK01	135-Trinitrobenzene	213 > 183			3873.036									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.14	3873.036		3873.036	3873.036	bb			501.6722	100.3	0.3	404.9
XIBLK01	13-Dinitrobenzene	168 > 138			3873.036									
XIBLK01	Tetryl	241 > 181			3873.036									
XIBLK01	Nitrobenzene	123 > 46			3873.036									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			21064.475									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			21064.475									
XIBLK01	246-Trinitrotoluene	227 > 210			21064.475									
XIBLK01	34-dinitrotoluene	182 > 152			21064.475									
XIBLK01	26-dinitrotoluene	182 > 152			21064.475									
XIBLK01	24-dinitrotoluene	182 > 152			21064.475									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.49	21064.475		21064.475	21064.475	bb			478.7902	95.8	-4.2	1839.3
XIBLK01	2-Nitrotoluene	137 > 46			21064.475									
XIBLK01	4-Nitrotoluene	137 > 46			21064.475									
XIBLK01	3-Nitrotoluene	137 > 46			21064.475									
XIBLK01	PETN	361 > 62			21064.475									

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 11–MAR–10 11:10

GEL Data File: EXP0311002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

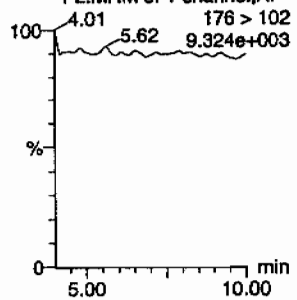
Compound	True	Found (ug/L)
2,6–Dinitrotoluene–d3	500	487.298
2–Amino–4,6–dinitrotoluene	0	0
4–Amino–2,6–dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m–Dinitrobenzene	0	0
m–Nitrotoluene	0	0
o–Nitrotoluene	0	0
p–Nitrotoluene	0	0
3,4–Dinitrotoluene	0	0
1,3,5–Trinitrobenzene	0	0
1,3–Dinitrobenzene–d4	500	470.344
2,4,6–Trinitrotoluene	0	0
2,4–Dinitrotoluene	0	0
2,6–Dinitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

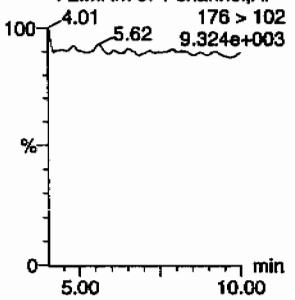
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311002a
Date: 11-Mar-2010
Time: 11:10:42
ID: XIBLK01
Vial: 1:1,A

MAP 3/12/10

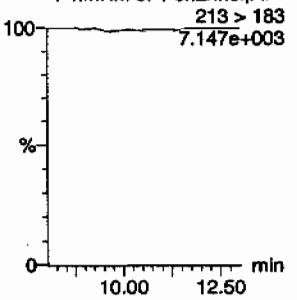
HMX
F2:MRM of 1 channel,AP-
176 > 102
4.01 5.62 9.324e+003



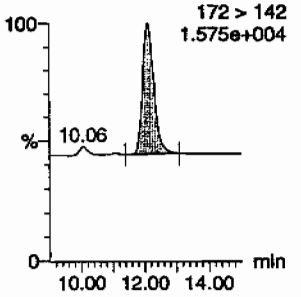
RDX
F2:MRM of 1 channel,AP-
176 > 102
4.01 5.62 9.324e+003



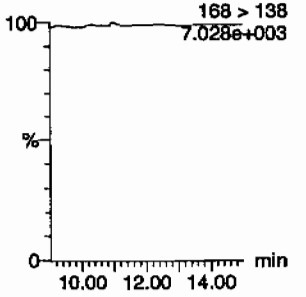
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
7.147e+003



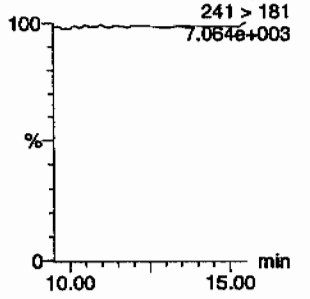
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.575e+004



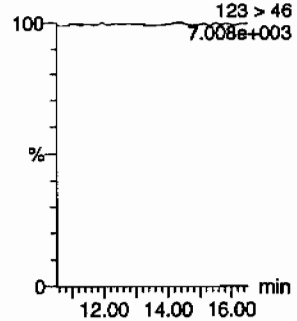
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
7.028e+003



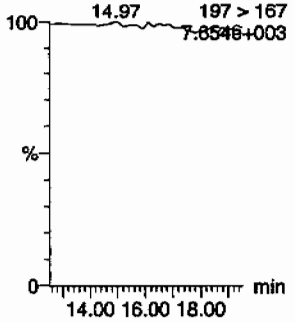
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
7.064e+003



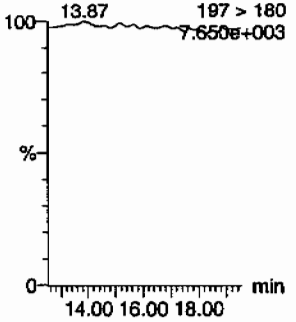
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
7.008e+003



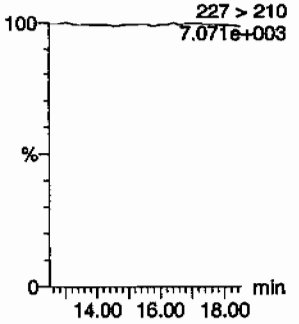
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
14.97
7.654e+003



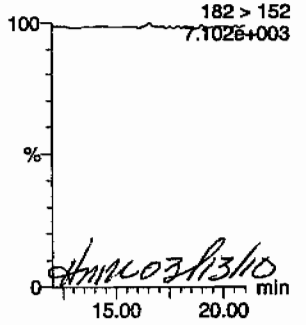
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
13.87
7.650e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
7.071e+003

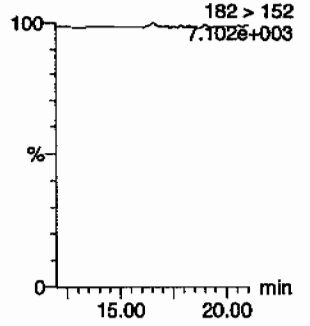


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.102e+003



Hmm 03/13/10

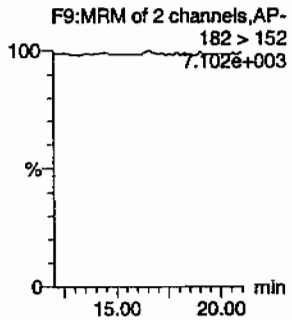
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.102e+003



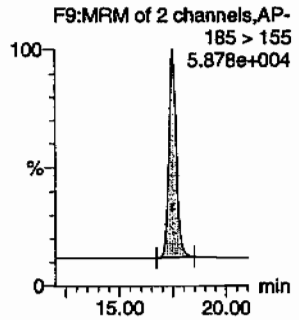
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

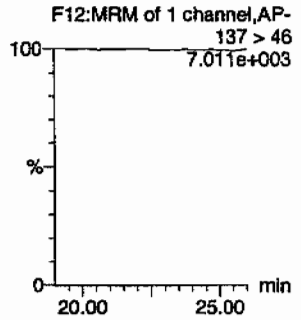
24-dinitrotoluene



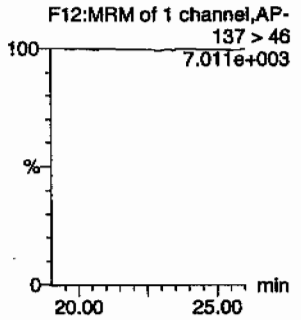
26-dinitrotoluene-d3



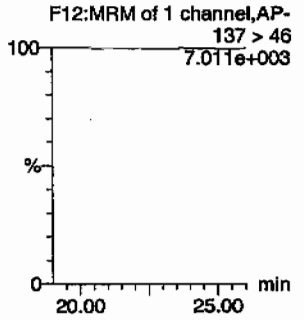
2-Nitrotoluene



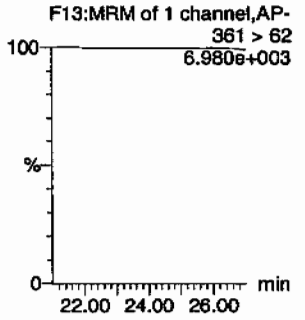
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK01	HMX	176 > 102			3631.178									
XIBLK01	RDX	176 > 102			3631.178									
XIBLK01	135-Trinitrobenzene	213 > 183			3631.178									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.10	3631.178		3631.178	3631.178	bb			470.3445	94.1	-5.9	253.8
XIBLK01	13-Dinitrobenzene	168 > 138			3631.178									
XIBLK01	Tetryl	241 > 181			3631.178									
XIBLK01	Nitrobenzene	123 > 46			3631.178									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			21438.793									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			21438.793									
XIBLK01	246-Trinitrotoluene	227 > 210			21438.793									
XIBLK01	34-dinitrotoluene	182 > 152			21438.793									
XIBLK01	26-dinitrotoluene	182 > 152			21438.793									
XIBLK01	24-dinitrotoluene	182 > 152			21438.793									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.49	21438.793		21438.793	21438.793	bb			487.2984	97.5	-2.5	2547.4
XIBLK01	2-Nitrotoluene	137 > 46			21438.793									
XIBLK01	4-Nitrotoluene	137 > 46			21438.793									
XIBLK01	3-Nitrotoluene	137 > 46			21438.793									
XIBLK01	PETN	361 > 62			21438.793									

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12-MAR-10 16:06

GEL Data File: EXP0312001a

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	450.899
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	404.27
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

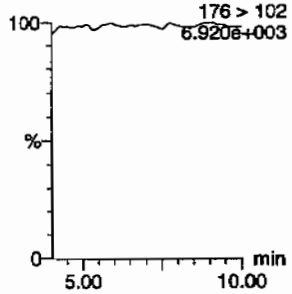
Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\031210expa.mdb, Time: Sat Mar 13 08:11:23 2010
Calibration: Untitled, Time: Sat Mar 13 08:42:21 2010

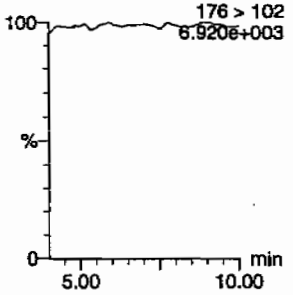
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312001a
Date: 12-Mar-2010
Time: 16:06:12
ID: XIBLK01
Vial: 1:1,A

MMT 3/13/10

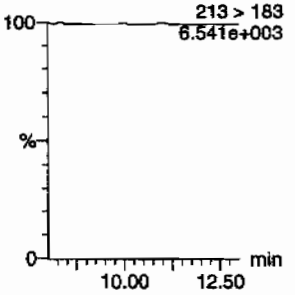
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.920e+003



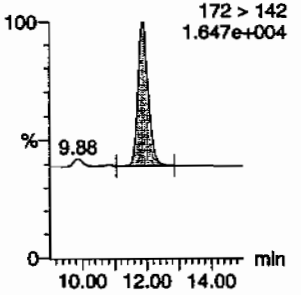
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.920e+003



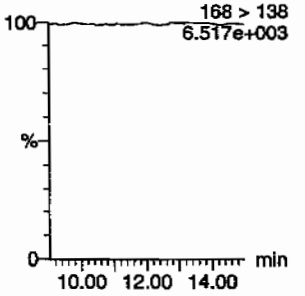
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.541e+003



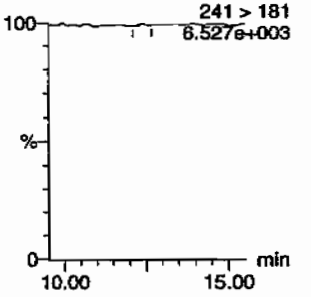
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.647e+004



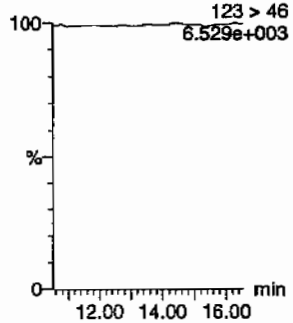
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.517e+003



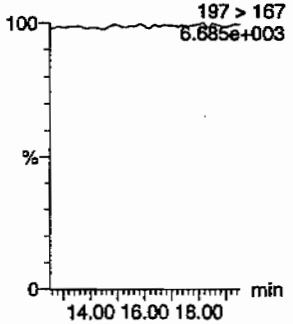
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.527e+003



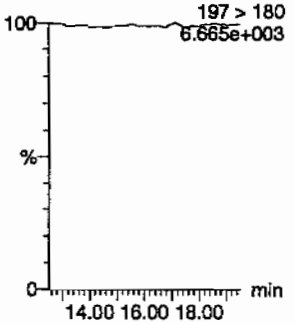
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.529e+003



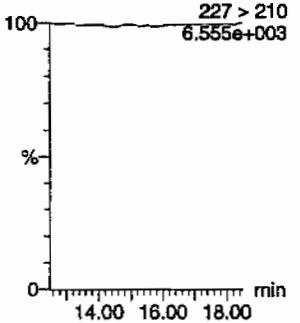
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.685e+003



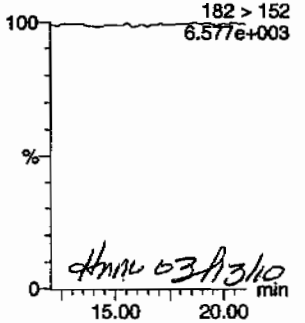
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.665e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.555e+003

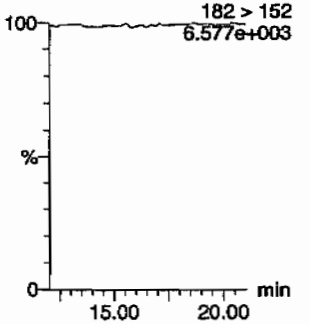


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.577e+003



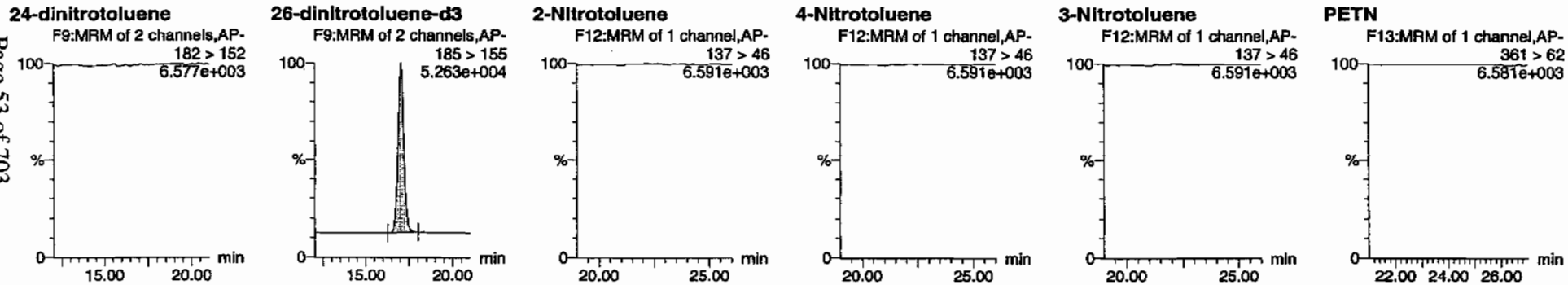
dhmc 03/13/10

26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.577e+003



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

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010



ID	Name	Trace	RT	Area	S Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N
XIBLK01	HMX	176 > 102			3676.434									
XIBLK01	RDX	176 > 102			3676.434									
XIBLK01	135-Trinitrobenzene	213 > 183			3676.434									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	11.89	3676.434		3676.434	3676.434	bb			450.8989	90.2	-9.8	331.7
XIBLK01	13-Dinitrobenzene	168 > 138			3676.434									
XIBLK01	Tetryl	241 > 181			3676.434			MM-	13-Mar-10	08:23:30				
XIBLK01	Nitrobenzene	123 > 46			3676.434									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			18423.105									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			18423.105									
XIBLK01	246-Trinitrotoluene	227 > 210			18423.105									
XIBLK01	34-dinitrotoluene	182 > 152			18423.105									
XIBLK01	26-dinitrotoluene	182 > 152			18423.105									
XIBLK01	24-dinitrotoluene	182 > 152			18423.105									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.05	18423.105		18423.105	18423.105	bb			404.2700	80.9	-19.1	1617.3
XIBLK01	2-Nitrotoluene	137 > 46			18423.105									
XIBLK01	4-Nitrotoluene	137 > 46			18423.105									
XIBLK01	3-Nitrotoluene	137 > 46			18423.105									
XIBLK01	PETN	361 > 62			18423.105									

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 12–MAR–10 16:35

GEL Data File: EXP0312002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

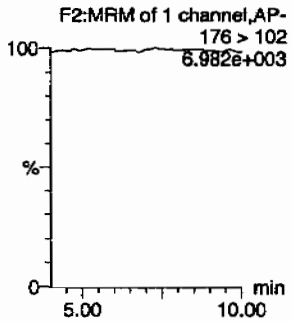
Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
1,3,5–Trinitrobenzene	0	0
1,3–Dinitrobenzene–d4	500	446.389
2,4,6–Trinitrotoluene	0	0
2,4–Dinitrotoluene	0	0
2,6–Dinitrotoluene	0	0
2,6–Dinitrotoluene–d3	500	431.326
2–Amino–4,6–dinitrotoluene	0	0
4–Amino–2,6–dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	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\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

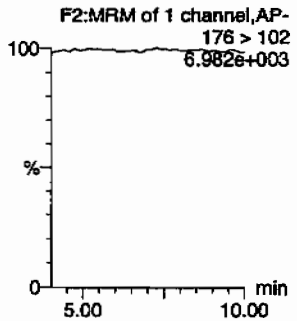
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312002a
Date: 12-Mar-2010
Time: 16:35:41
ID: XIBLK01
Vial: 1:1,A

MAP 3/13/10

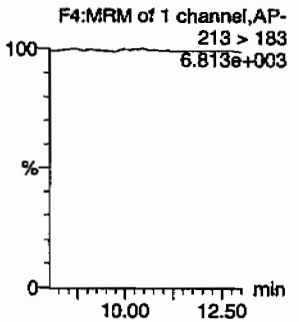
HMX



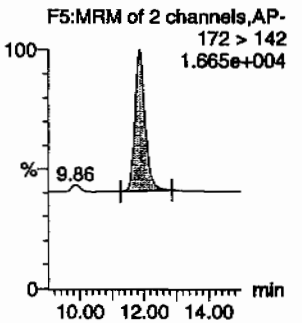
RDX



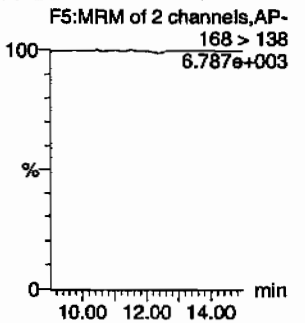
135-Trinitrobenzene



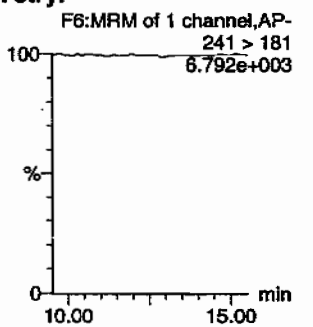
13-Dinitrobenzene-d4



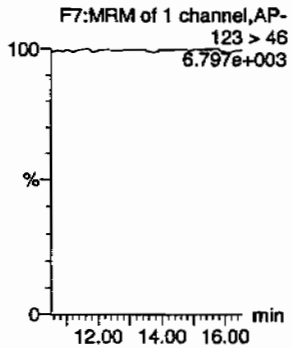
13-Dinitrobenzene



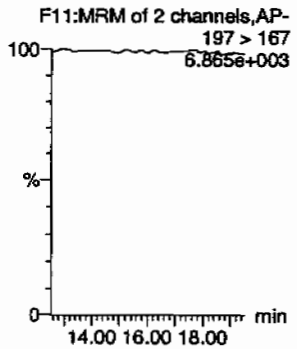
Tetryl



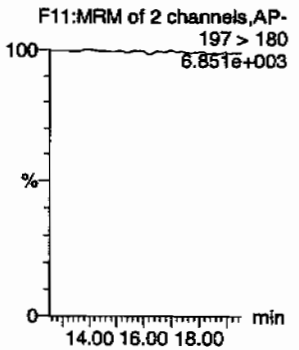
Nitrobenzene



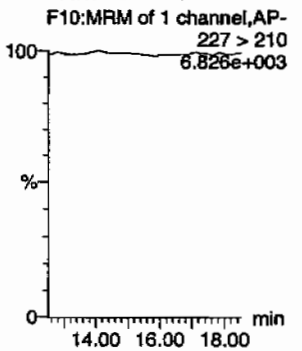
4-Amino-26-dinitrotoluene



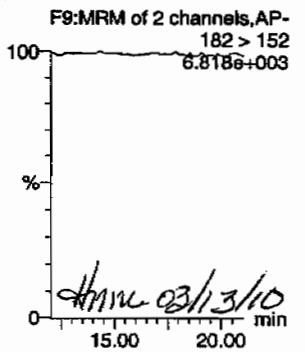
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

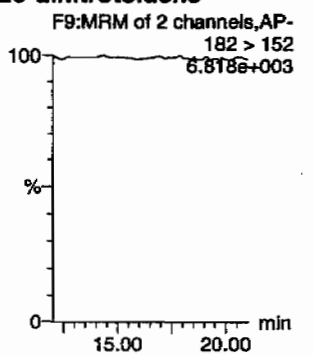


34-dinitrotoluene



HMM 03/13/10

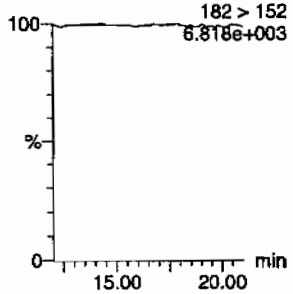
26-dinitrotoluene



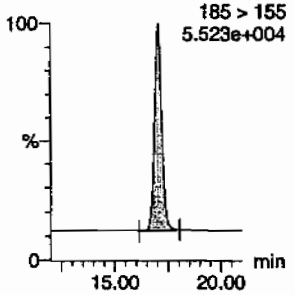
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

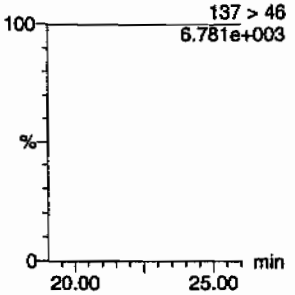
24-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.818e+003



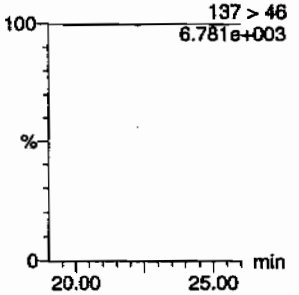
26-dinitrotoluene-d3
F9:MRM of 2 channels,AP-
185 > 155
5.523e+004



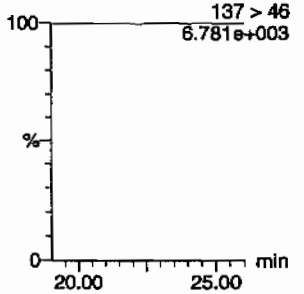
2-Nitrotoluene
F12:MRM of 1 channel,AP-
137 > 46
6.781e+003



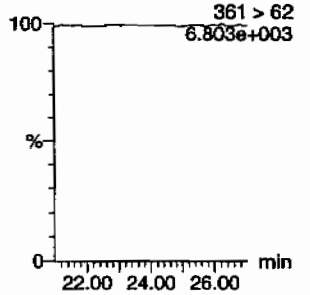
4-Nitrotoluene
F12:MRM of 1 channel,AP-
137 > 46
6.781e+003



3-Nitrotoluene
F12:MRM of 1 channel,AP-
137 > 46
6.781e+003



PETN
F13:MRM of 1 channel,AP-
361 > 62
6.803e+003



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			3639.665									
XIBLK01	RDX	176 > 102			3639.665									
XIBLK01	135-Trinitrobenzene	213 > 183			3639.665									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	11.87	3639.665		3639.665	3639.665	bb			446.3893	89.3	-10.7	312.5
XIBLK01	13-Dinitrobenzene	168 > 138			3639.665									
XIBLK01	Tetryl	241 > 181			3639.665									
XIBLK01	Nitrobenzene	123 > 46			3639.665									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			19656.084									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			19656.084									
XIBLK01	246-Trinitrotoluene	227 > 210			19656.084									
XIBLK01	34-dinitrotoluene	182 > 152			19656.084									
XIBLK01	26-dinitrotoluene	182 > 152			19656.084									
XIBLK01	24-dinitrotoluene	182 > 152			19656.084									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.05	19656.084		19656.084	19656.084	bb			431.3260	86.3	-13.7	1797.5
XIBLK01	2-Nitrotoluene	137 > 46			19656.084									
XIBLK01	4-Nitrotoluene	137 > 46			19656.084									
XIBLK01	3-Nitrotoluene	137 > 46			19656.084									
XIBLK01	PETN	361 > 62			19656.084									

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 26–FEB–10 14:53

GEL Data File: EXS02260001.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

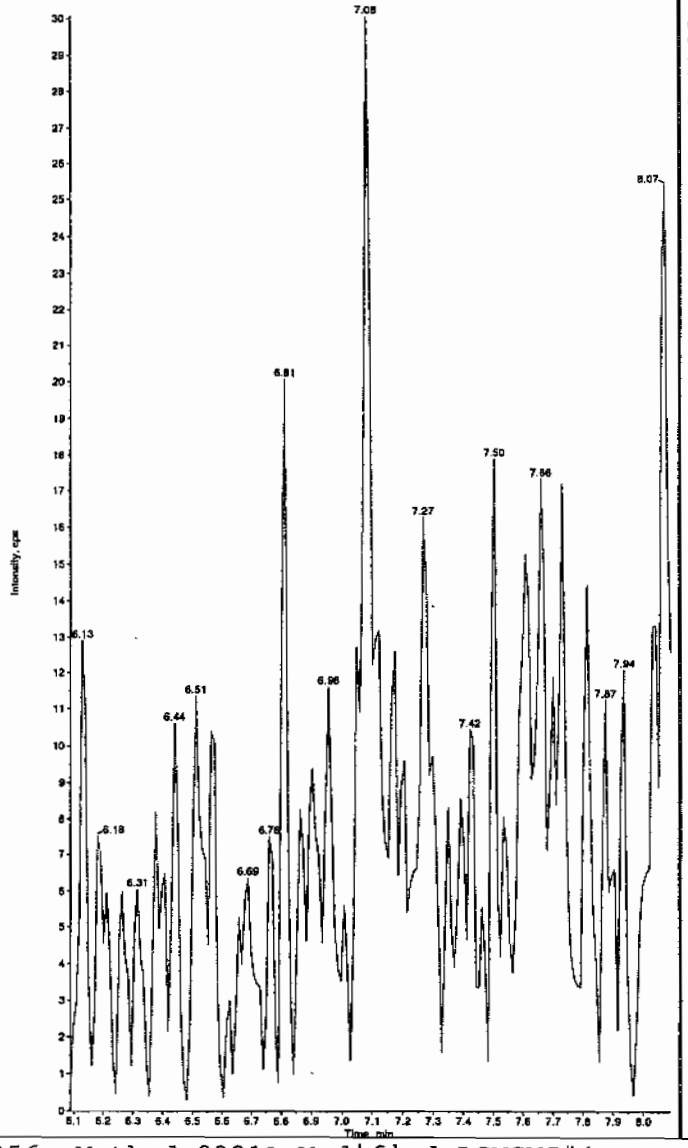
Compound	True	Found (ug/L)
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	0

Lar 3/1/10

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02260001.wiff"
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: 2/26/2010
Acq. Time: 2:53:58 PM

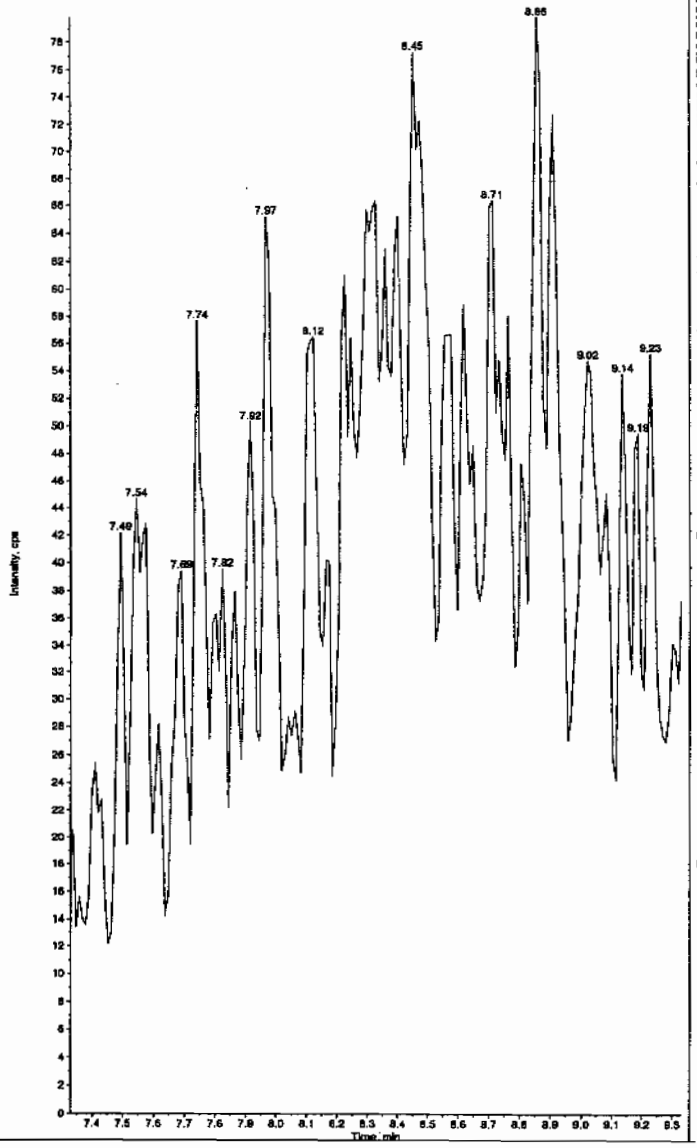
Modified: No



Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02260001.wiff"
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: 2/26/2010
Acq. Time: 2:53:58 PM

Modified: No



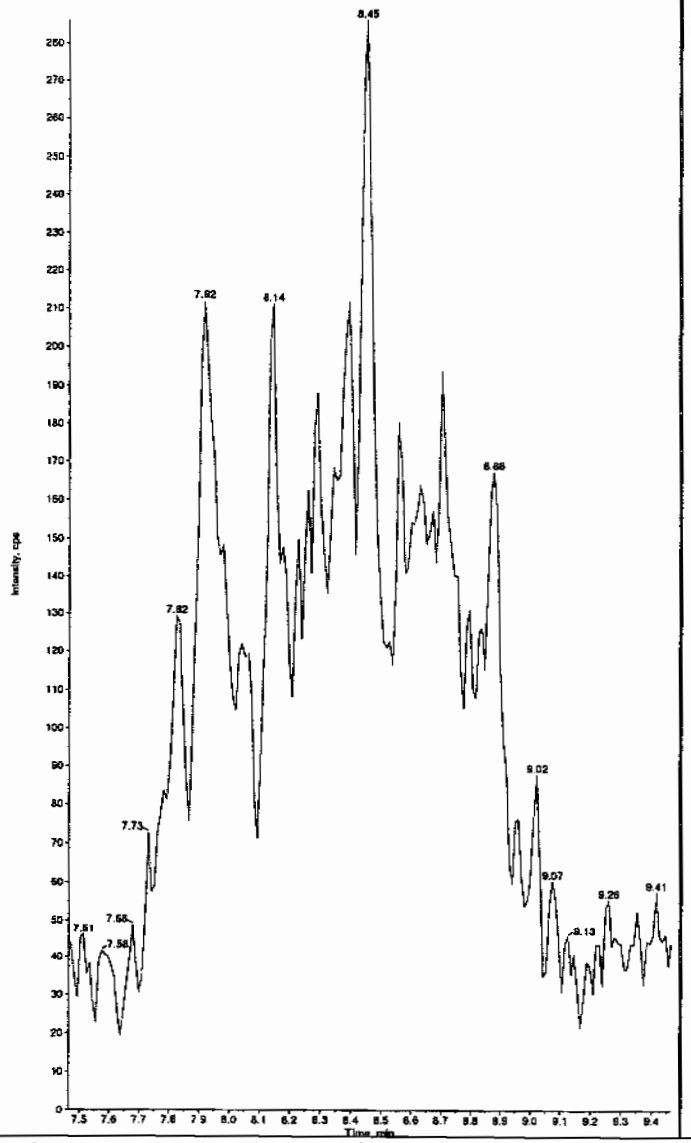
Hmm 03/01/10

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

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02260001.wiff"
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: 2/26/2010
Acq. Time: 2:53:58 PM

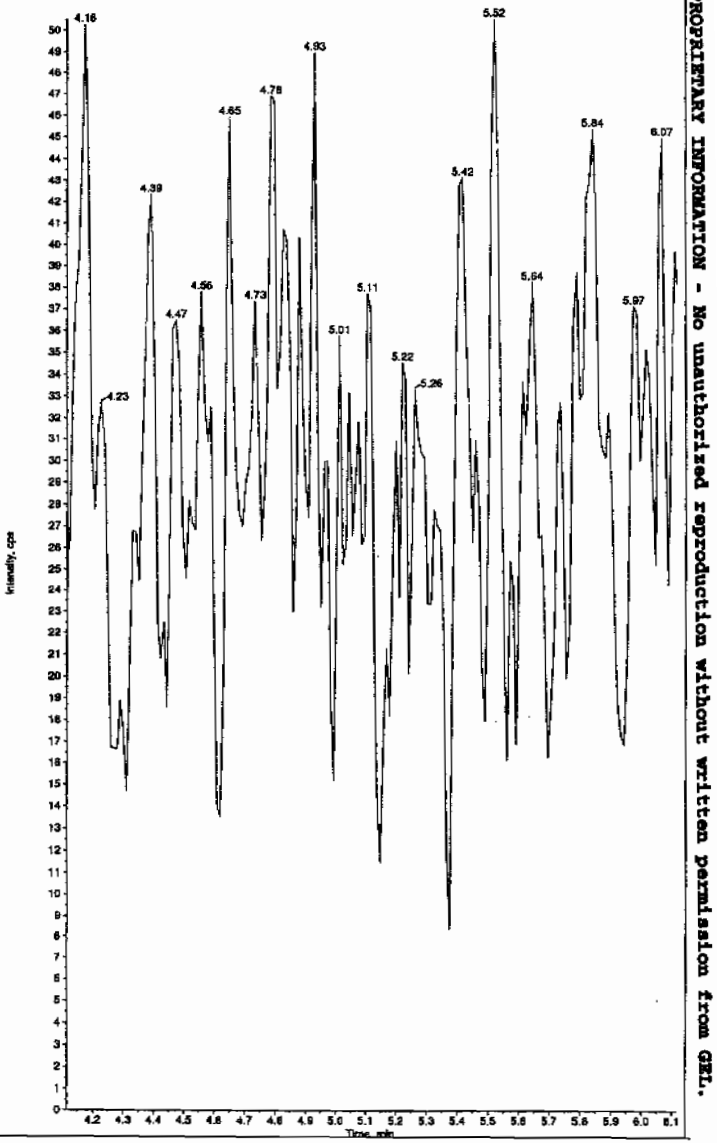
Modified: No



Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02260001.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 2:53:58 PM

Modified: No

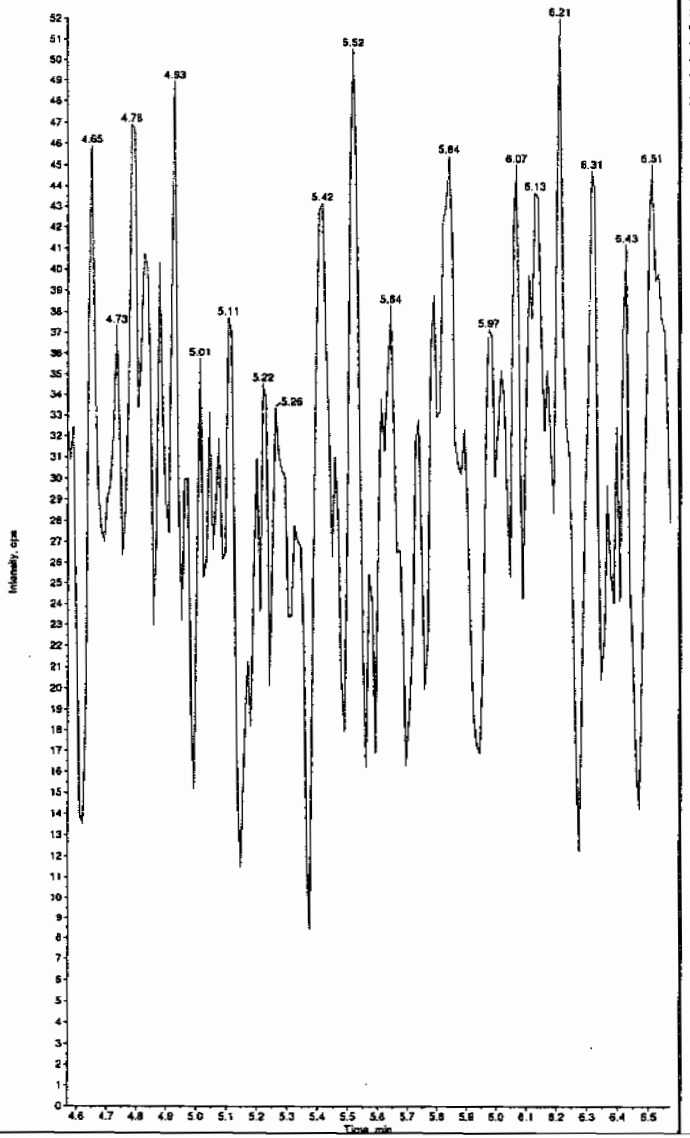


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02250001.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 2:53:58 PM

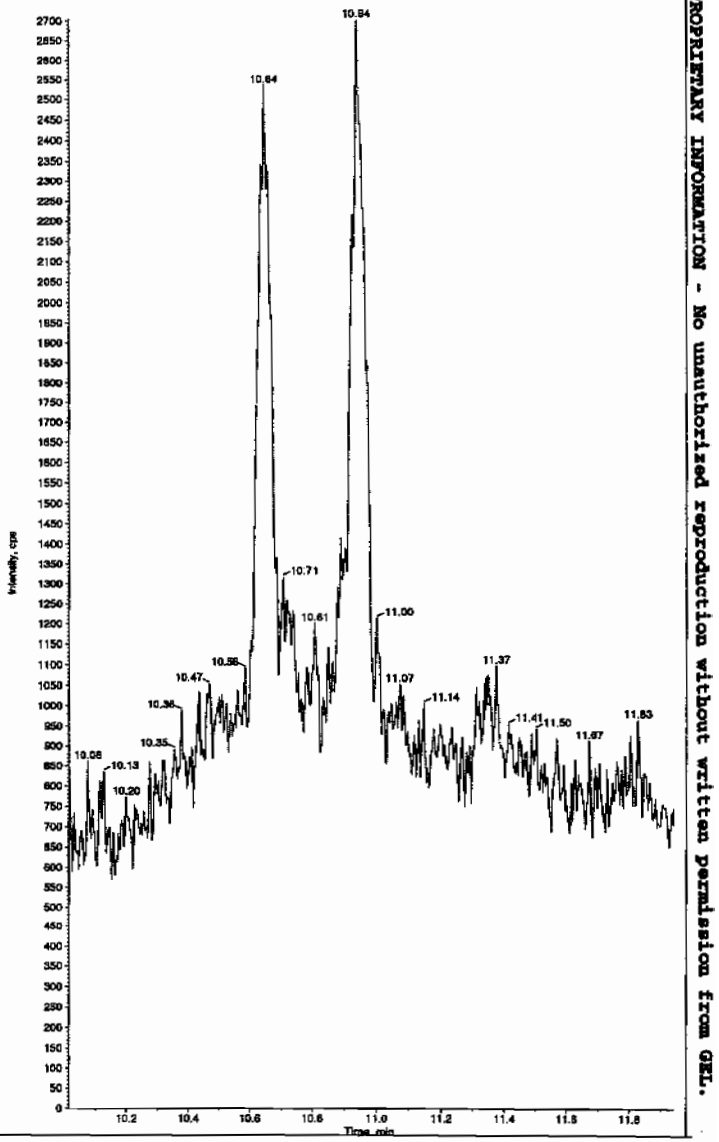
Modified: No



Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02250001.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 2:53:58 PM

Modified: No



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

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 26-FEB-10 15:09

GEL Data File: EXS02260002.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

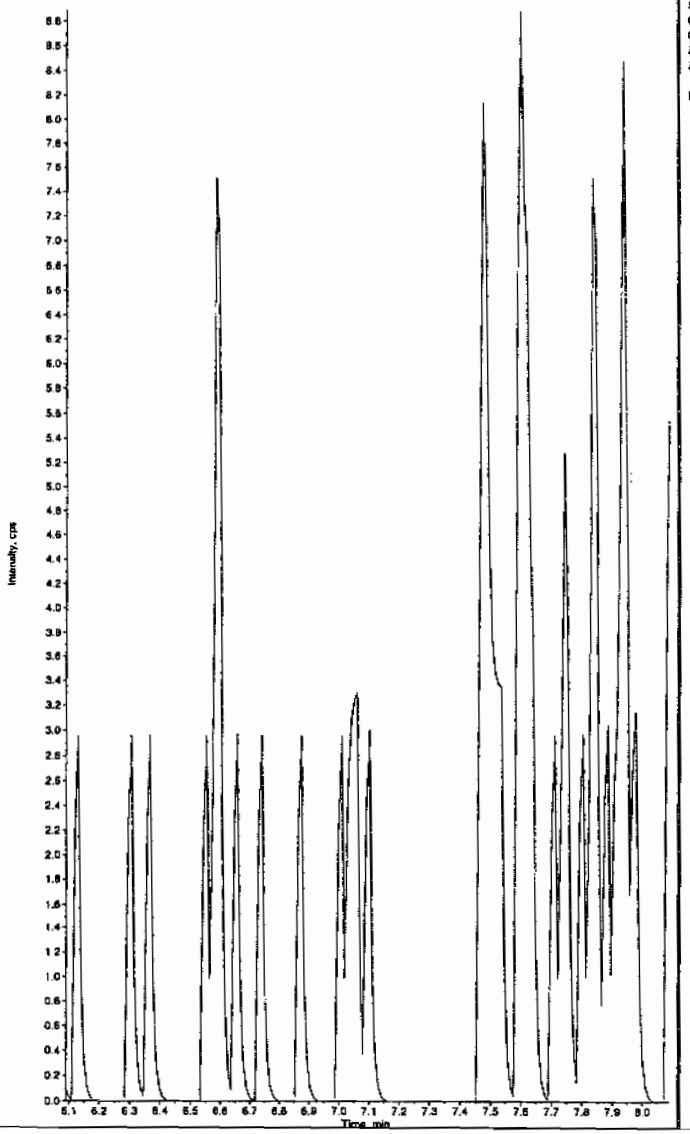
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Fran 3/1/10

Sample Name: "XIBLK01" Sample ID: "|1|LER" File: "EXS02260002.wiff"
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: 2/26/2010
Acq. Time: 3:09:45 PM

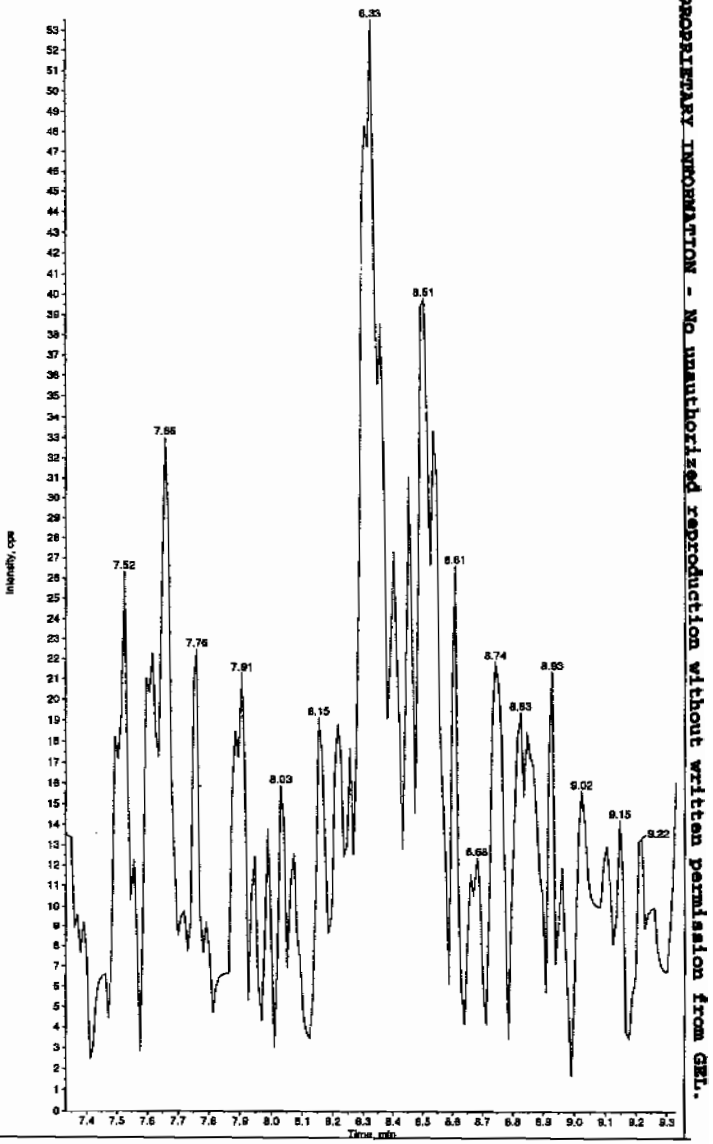
Modified: No



Sample Name: "XIBLK01" Sample ID: "|1|LER" File: "EXS02260002.wiff"
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: 2/26/2010
Acq. Time: 3:09:45 PM

Modified: No



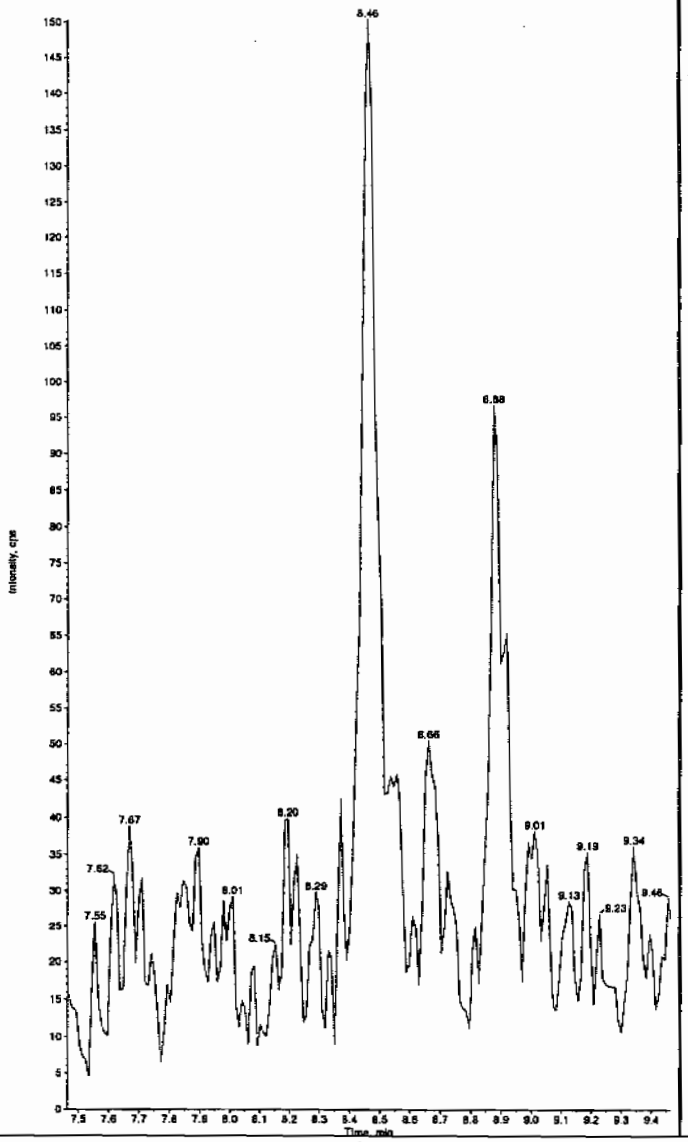
Hrm 03/01/10

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

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02260002.wiff"
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: 2/26/2010
Acq. Time: 3:09:45 PM

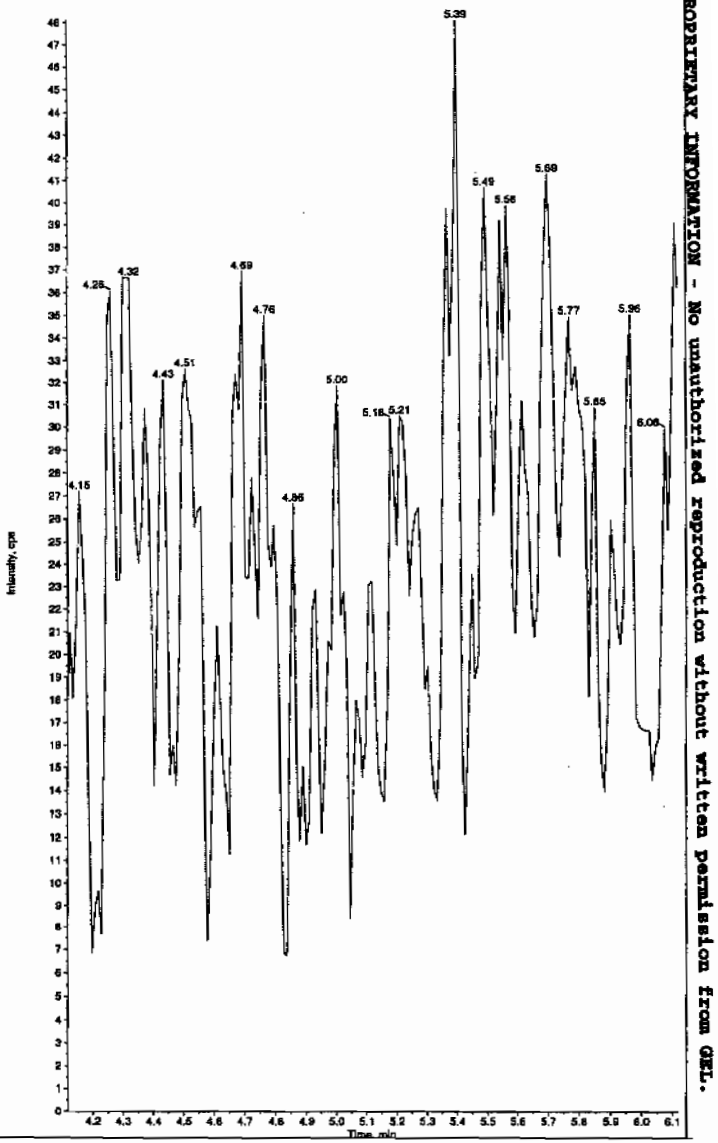
Modified: No



Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02260002.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 3:09:45 PM

Modified: No

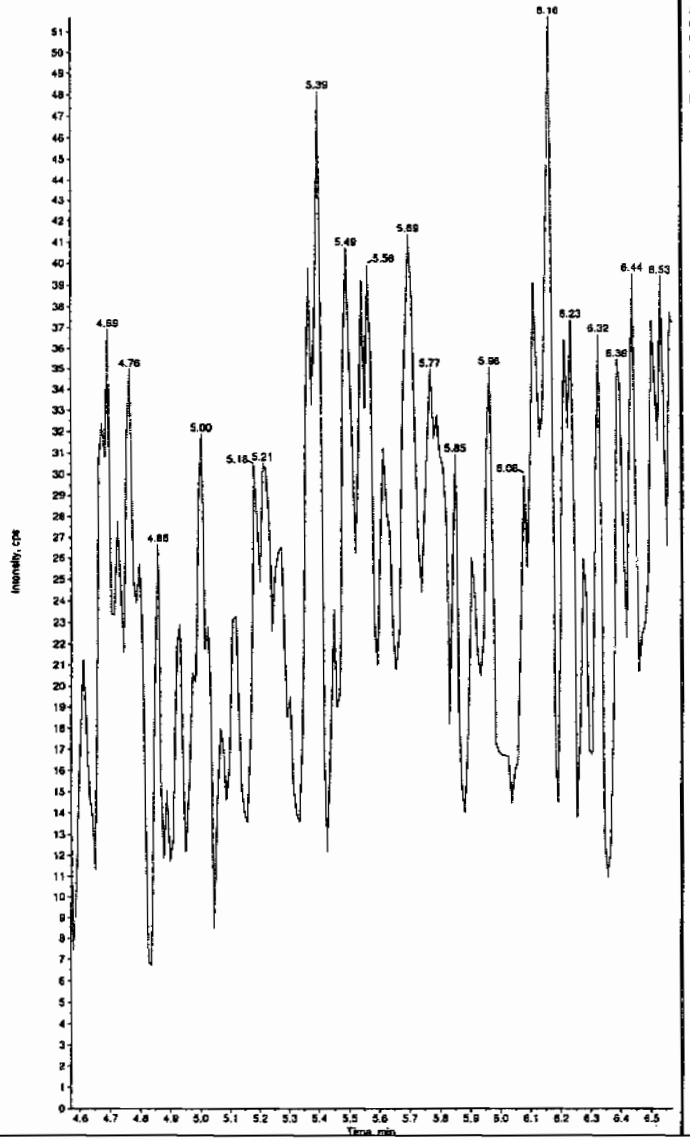


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02250002.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 3:09:45 PM

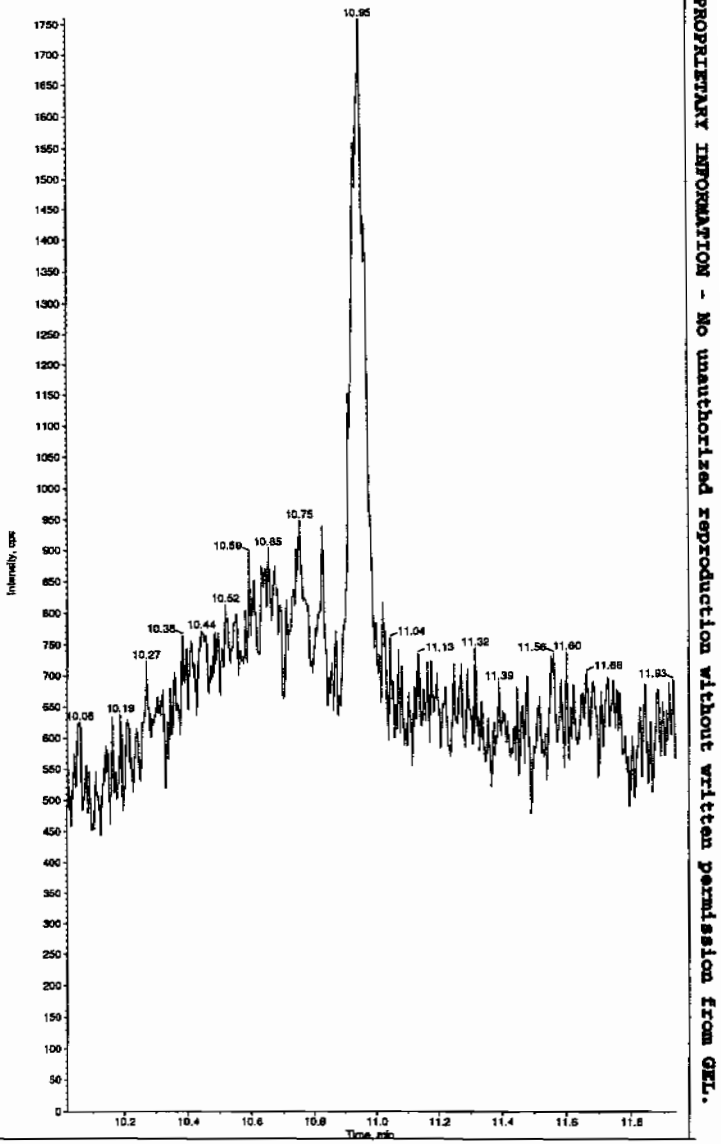
Modified: No



Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS02250002.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 3:09:45 PM

Modified: No



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

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 01-MAR-10 09:03

GEL Data File: EXS03010001.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

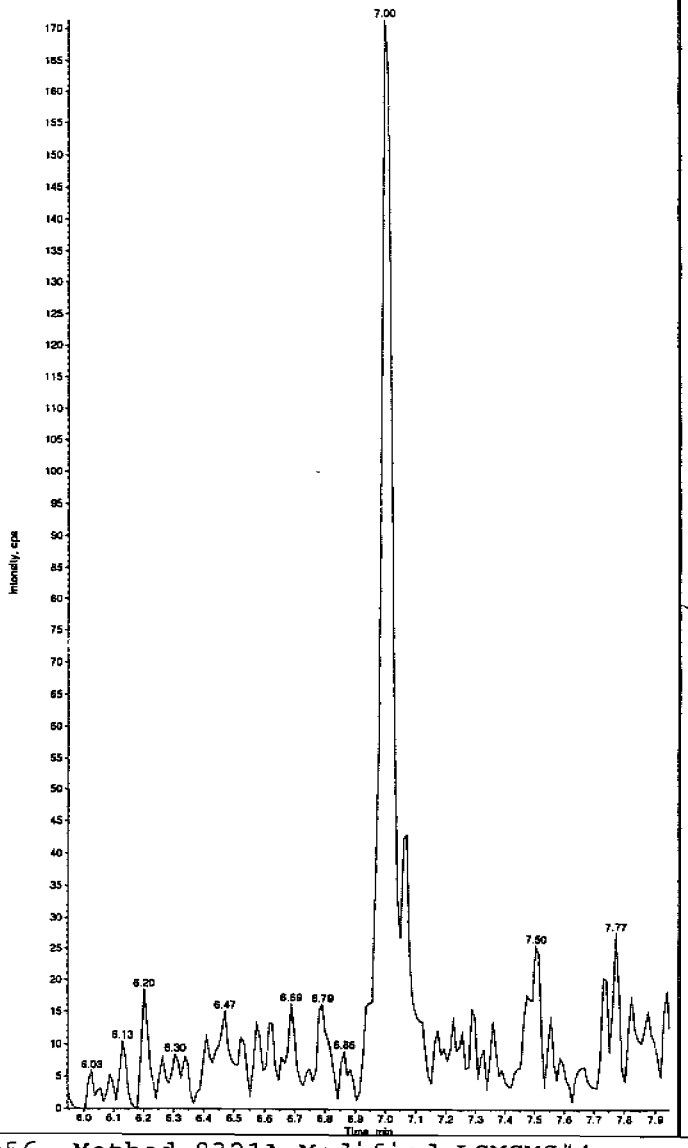
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Ler 3/3/10

Sample Name: "XIBLK01" Sample ID: "|1|LER" File: "EXS03010001.wiff"
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: 3/1/2010
Acq. Time: 9:03:19 AM

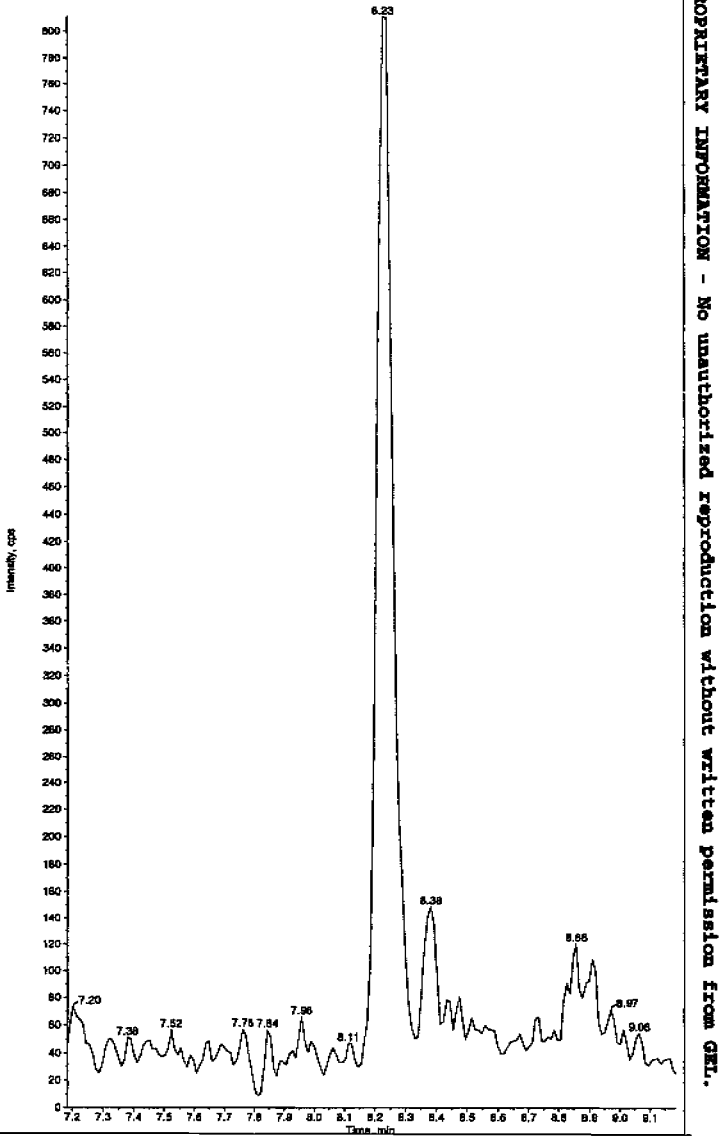
Modified: No



Sample Name: "XIBLK01" Sample ID: "|1|LER" File: "EXS03010001.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "162.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 9:03:19 AM

Modified: No



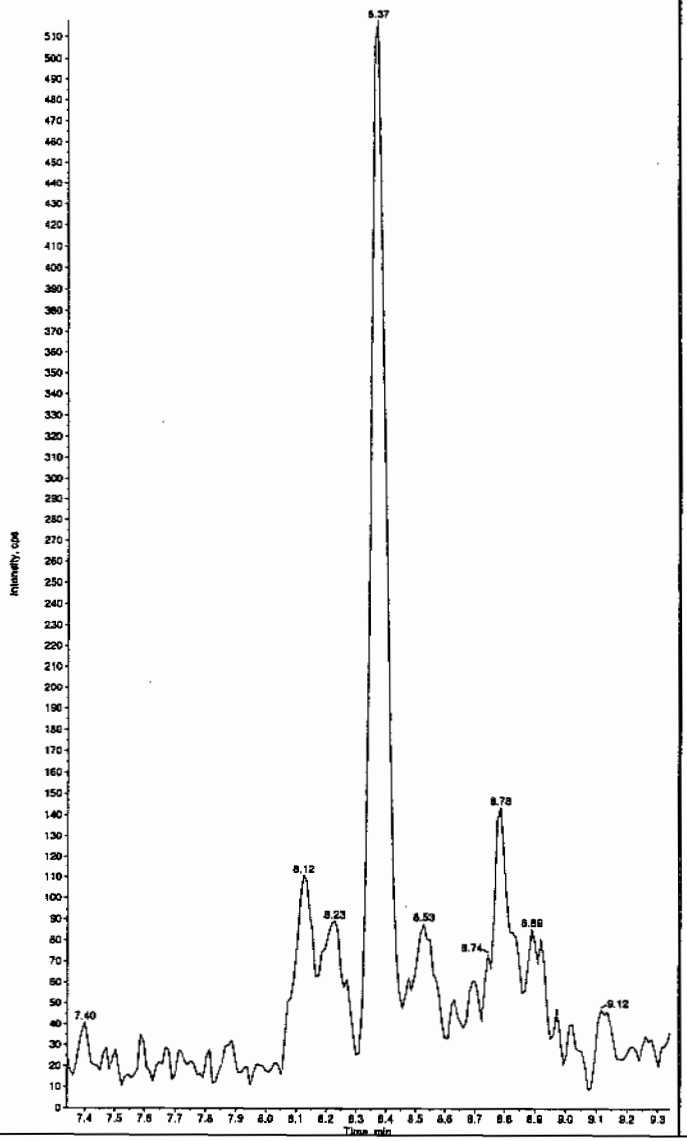
Anne 03/04/10

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

Sample Name: "XIBLK01" Sample ID: "|1|LER" File: "EXS03010001.wiff"
Peak Name: "34-Dinitrotoluene" Mass(as): "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: 3/1/2010
Acq. Time: 9:03:19 AM

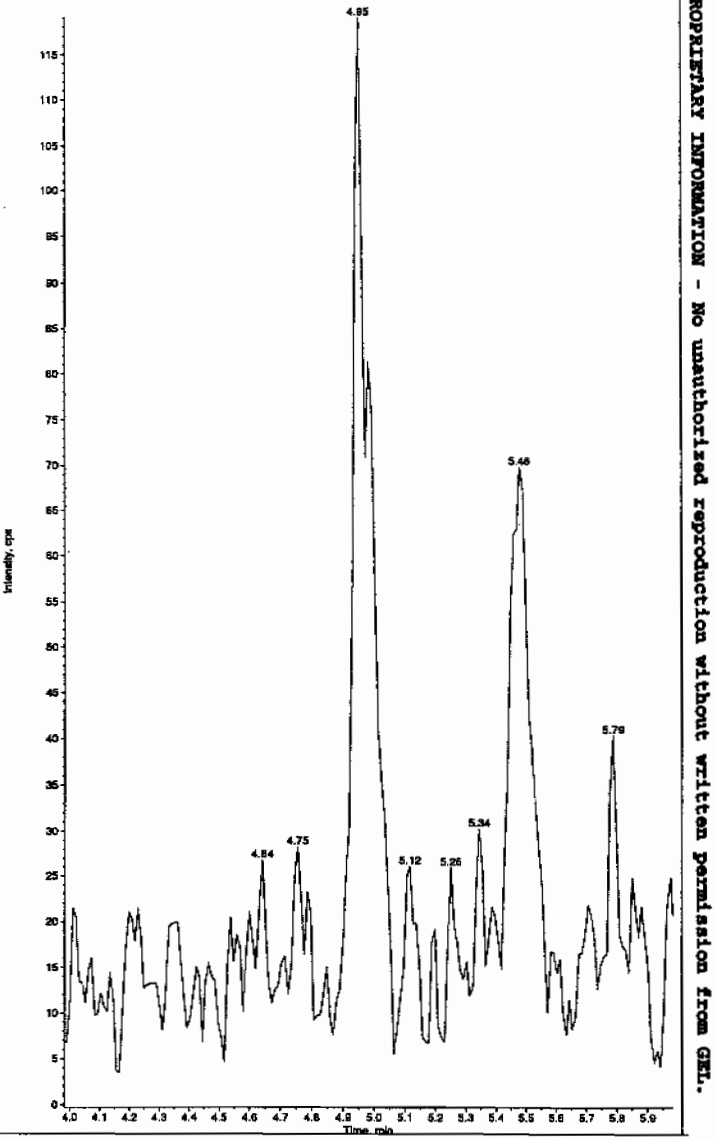
Modified: No



Sample Name: "XIBLK01" Sample ID: "|1|LER" File: "EXS03010001.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(as): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 9:03:19 AM

Modified: No

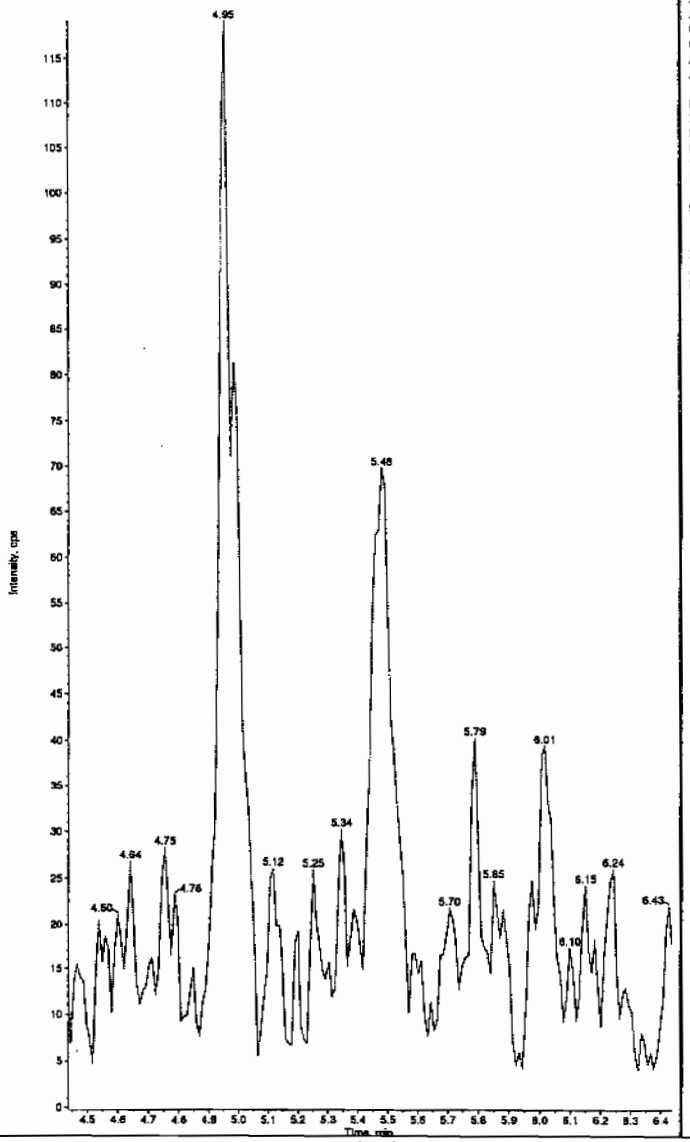


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS03010001.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 9:03:19 AM

Modified: No

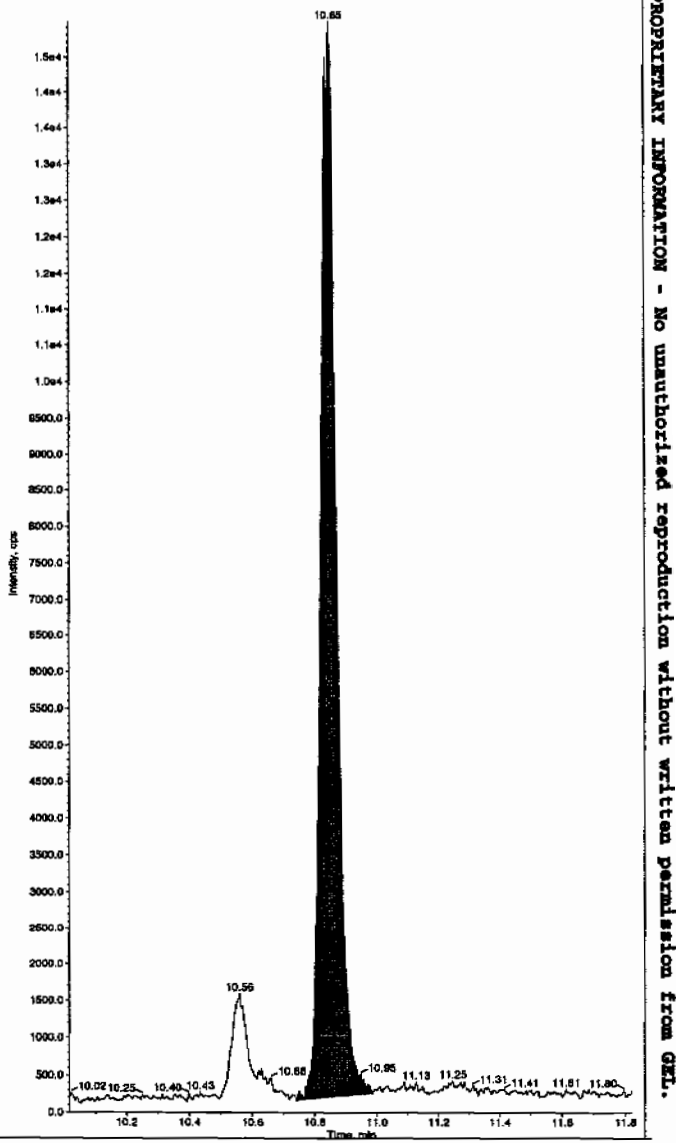


Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS03010001.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 3/1/2010
Acq. Time: 9:03:19 AM

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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.9 min
Area: 5.36e+004 counts
Height: 14777.323 cps
Start Time: 10.7 min
End Time: 11.0 min



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

4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 01-MAR-10 09:19

GEL Data File: EXS03010002.wiff

Instrument ID: LCMSMS

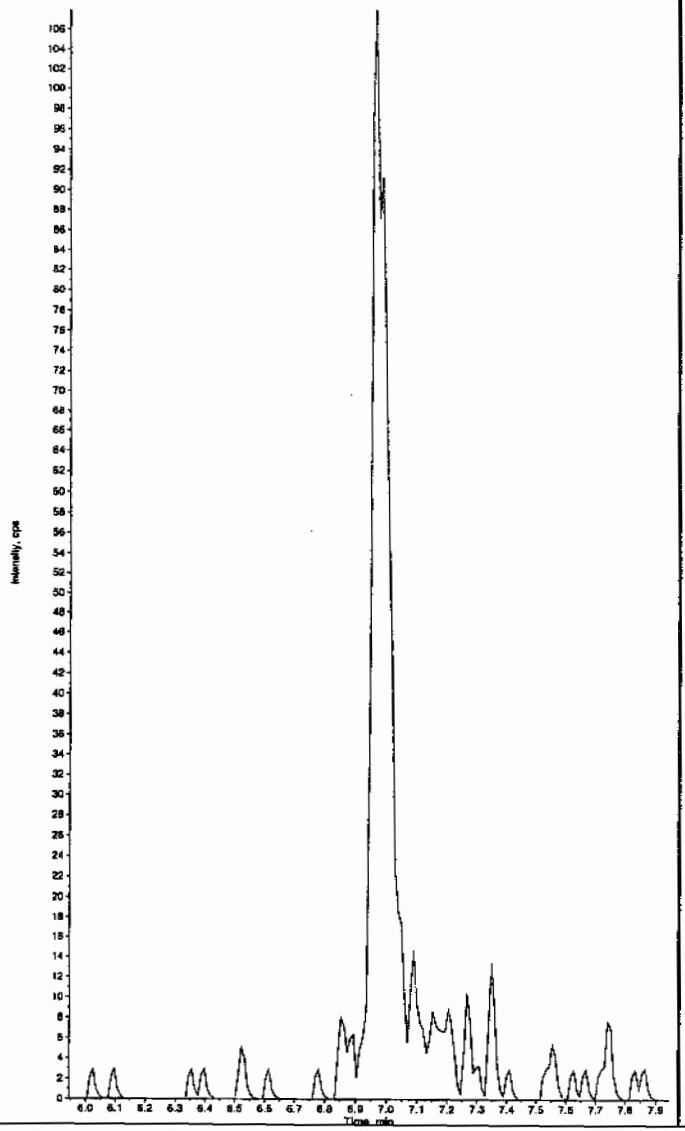
Column: Phenomenex Ultracarb 5u ODS(20)

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

fcer 3/3/10

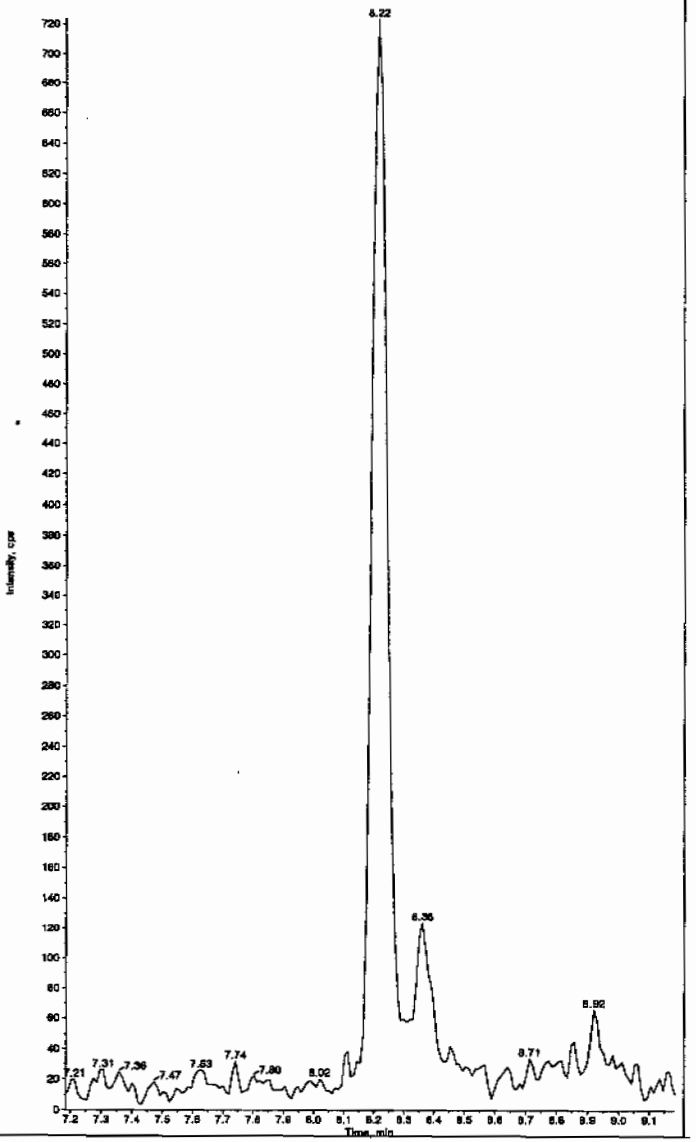
Sample Name: "XIBLK01" Sample ID: "1|LER" File: "EXS03010002.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 9:19:07 AM

Modified: No



Sample Name: "XIBLK01" Sample ID: "1|LER" File: "EXS03010002.wiff"
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: 3/1/2010
Acq. Time: 9:19:07 AM

Modified: No



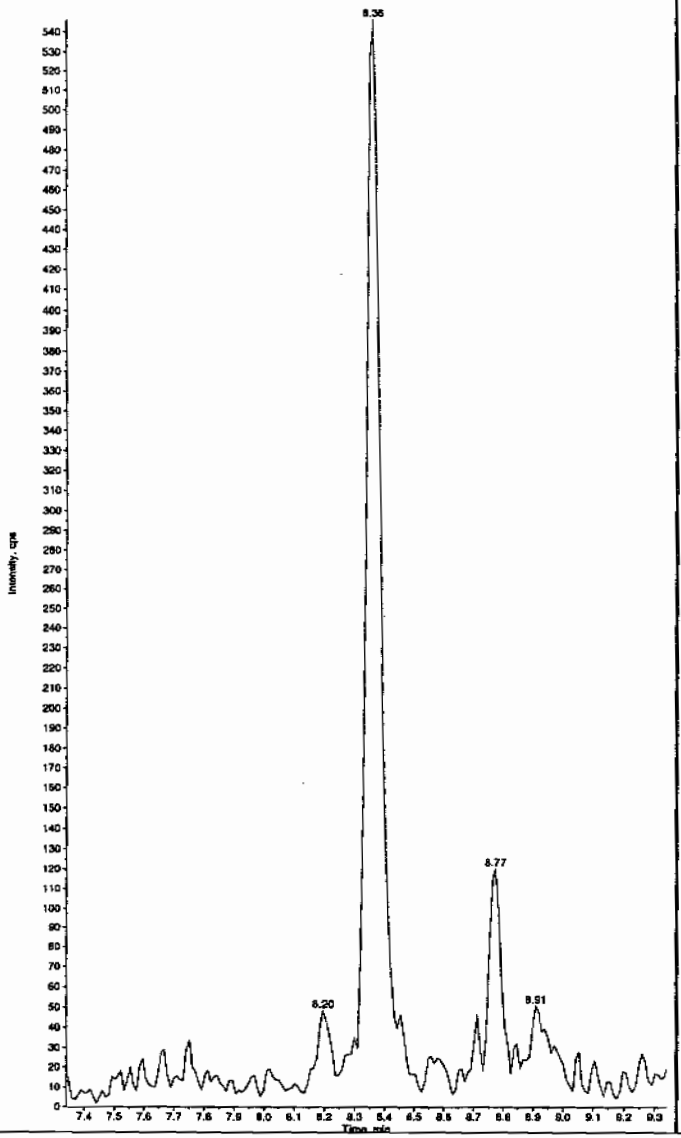
Hmm 03/04/10

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

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS03010002.wiff"
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: 3/1/2010
Acq. Time: 9:19:07 AM

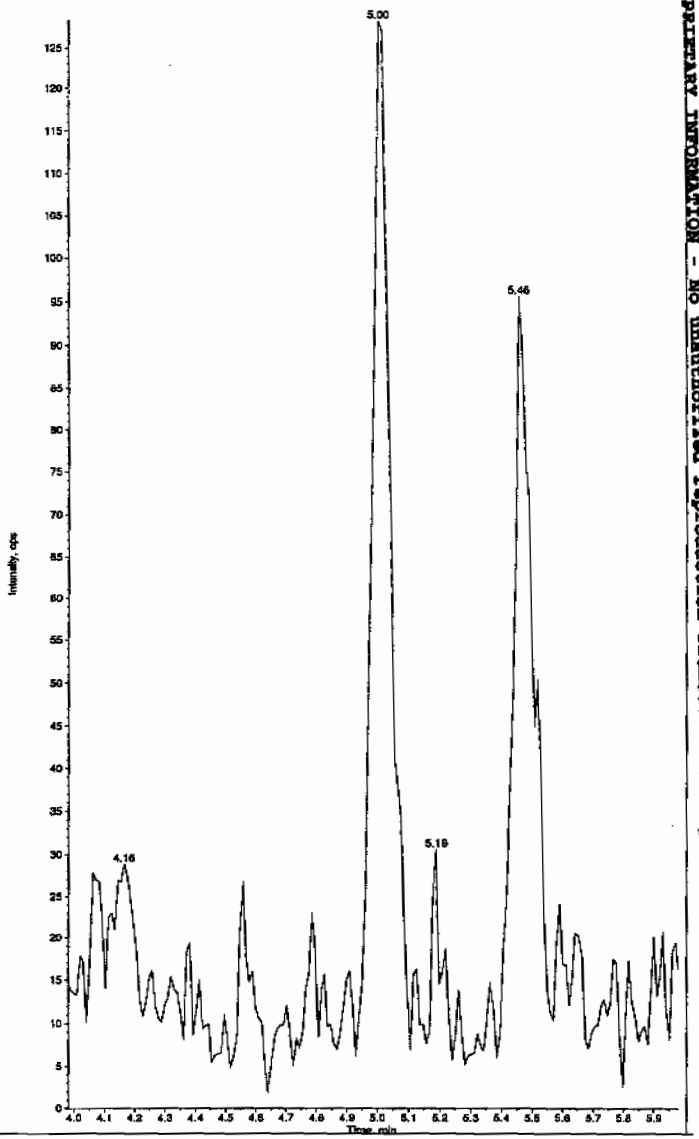
Modified: No



Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS03010002.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 9:19:07 AM

Modified: No

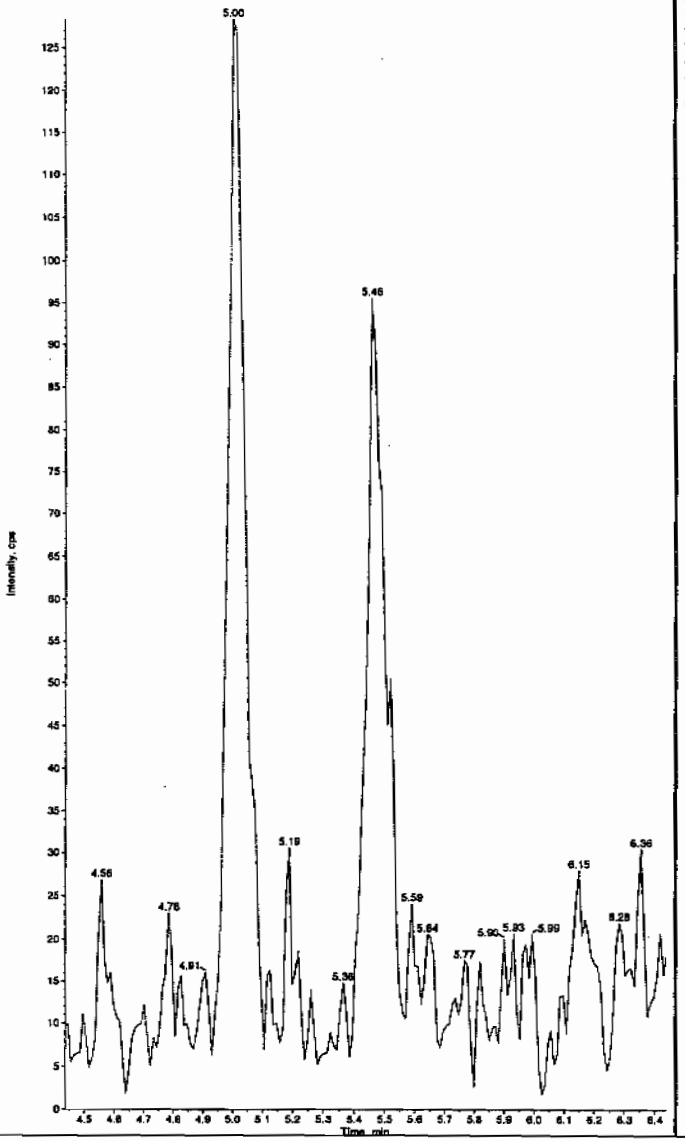


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS03010002.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 9:19:07 AM

Modified: No

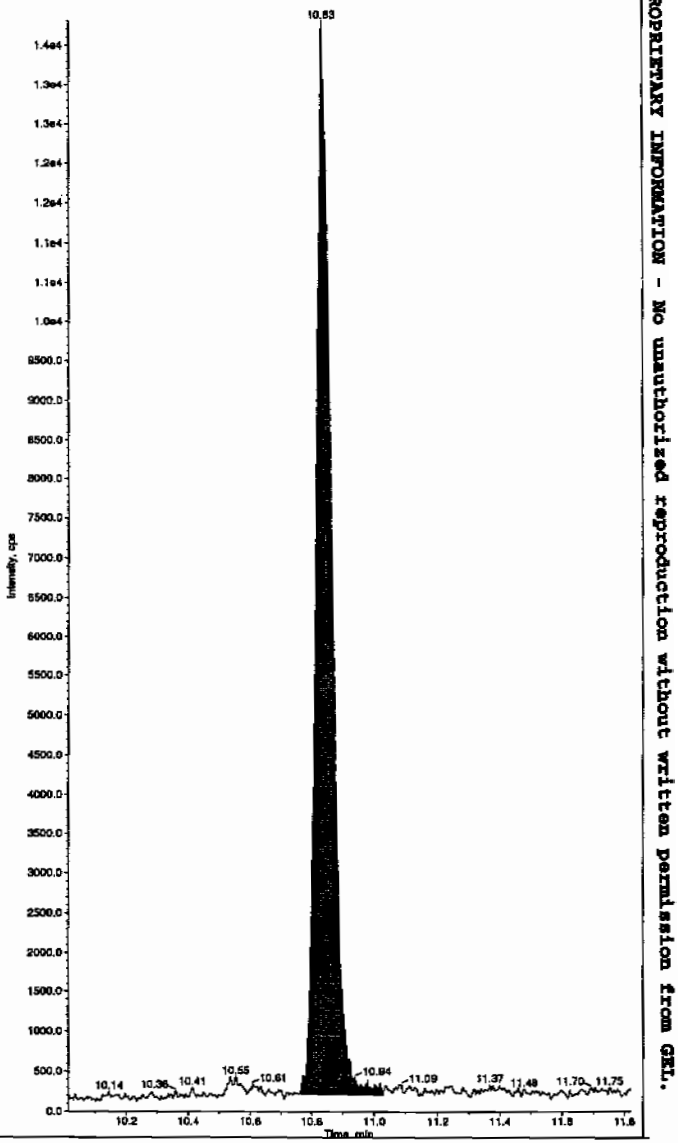


Sample Name: "XIBLK01" Sample ID: "[1]LER" File: "EXS03010002.wiff"
Peak Name: "Iris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 3/1/2010
Acq. Time: 9:19:07 AM

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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 4.80e+004 counts
Height: 13586.056 cps
Start Time: 10.8 min
End Time: 11.0 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 11-MAR-10 14:37

GEL Data File: EXP0311009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

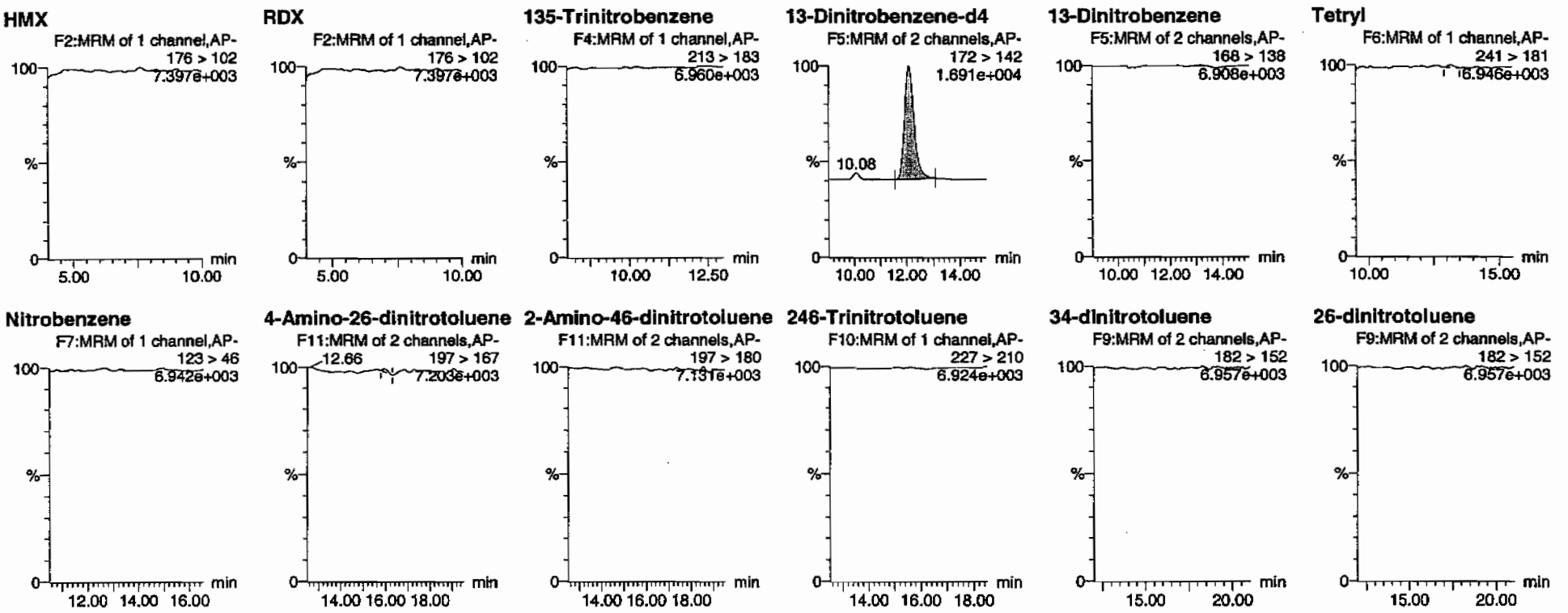
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	538.741
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	537.491
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	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\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311009a
Date: 11-Mar-2010
Time: 14:37:01
ID: XIBLK02
Vial: 1:1,A

MMT 3/12/10



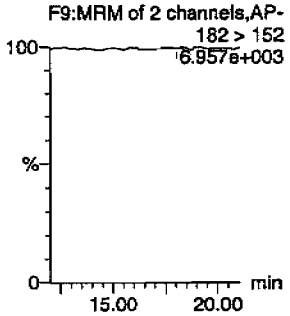
HMM 3/13/10

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

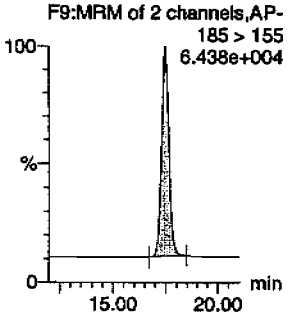
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

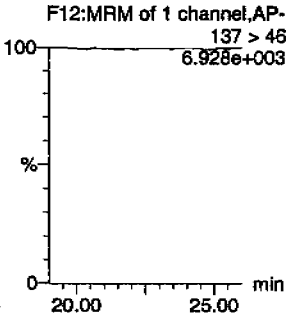
24-dinitrotoluene



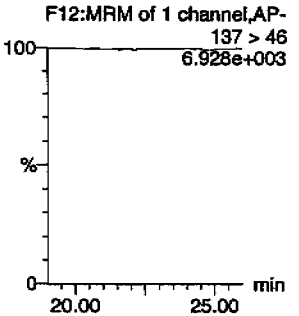
26-dinitrotoluene-d3



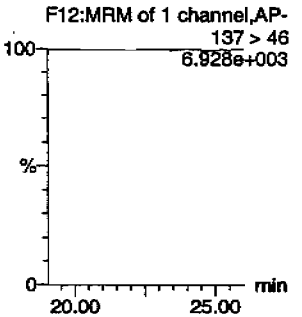
2-Nitrotoluene



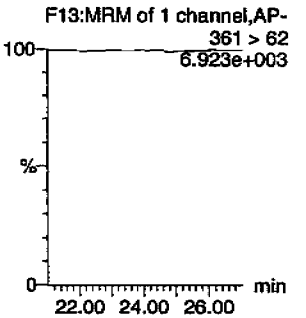
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
XIBLK02	HMX	176 > 102			4159.214									
XIBLK02	RDX	176 > 102			4159.214									
XIBLK02	135-Trinitrobenzene	213 > 183			4159.214									
XIBLK02	13-Dinitrobenzene-d4	172 > 142	12.10	4159.214		4159.214	4159.214	bb			538.7407	107.7	7.7	297.8
XIBLK02	13-Dinitrobenzene	168 > 138			4159.214									
XIBLK02	Tetryl	241 > 181			4159.214			MM-	12-Mar-10	11:29:50				
XIBLK02	Nitrobenzene	123 > 46			4159.214									
XIBLK02	4-Amino-26-dinitrotoluene	197 > 167			23647.045			MM-	12-Mar-10	13:16:12				
XIBLK02	2-Amino-46-dinitrotoluene	197 > 180			23647.045									
XIBLK02	246-Trinitrotoluene	227 > 210			23647.045									
XIBLK02	34-dinitrotoluene	182 > 152			23647.045									
XIBLK02	26-dinitrotoluene	182 > 152			23647.045									
XIBLK02	24-dinitrotoluene	182 > 152			23647.045			MM-	12-Mar-10	13:25:22				
XIBLK02	26-dinitrotoluene-d3	185 > 155	17.48	23647.045		23647.045	23647.045	bb			537.4914	107.5	7.5	1604.3
XIBLK02	2-Nitrotoluene	137 > 46			23647.045									
XIBLK02	4-Nitrotoluene	137 > 46			23647.045									
XIBLK02	3-Nitrotoluene	137 > 46			23647.045									
XIBLK02	PETN	361 > 62			23647.045									

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 11-MAR-10 15:35

GEL Data File: EXP0311011a

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	541.787
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	576.837
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

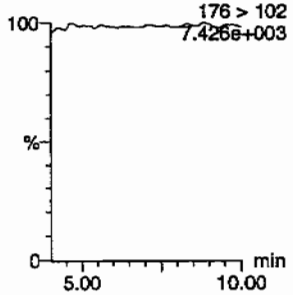
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

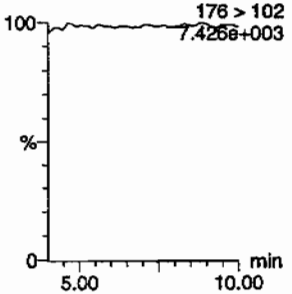
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311011a
Date: 11-Mar-2010
Time: 15:35:58
ID: XIBLK03
Vial: 1:1,A

MMP 3/12/10

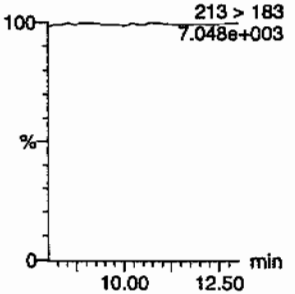
HMX
F2:MRM of 1 channel,AP-
176 > 102
7.426e+003



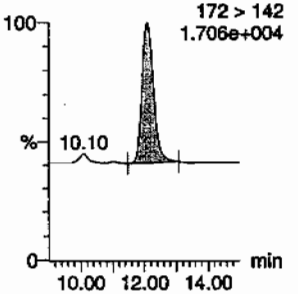
RDX
F2:MRM of 1 channel,AP-
176 > 102
7.426e+003



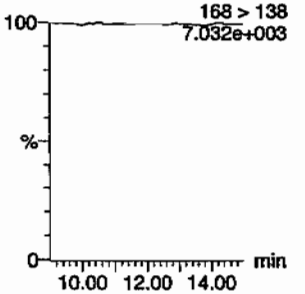
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
7.048e+003



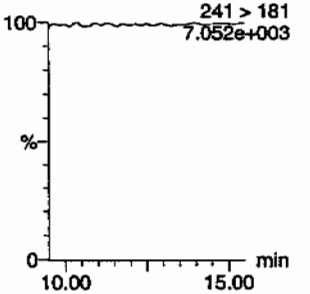
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.706e+004



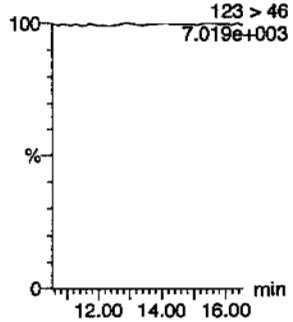
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
7.032e+003



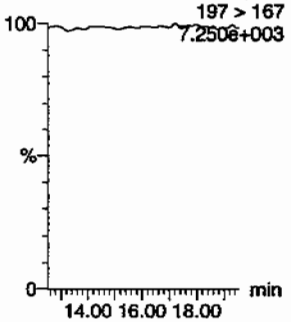
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
7.052e+003



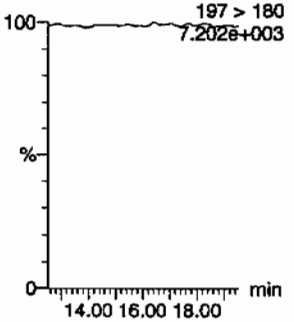
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
7.019e+003



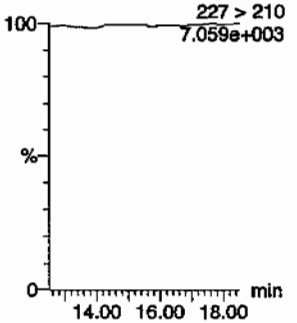
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
7.250e+003



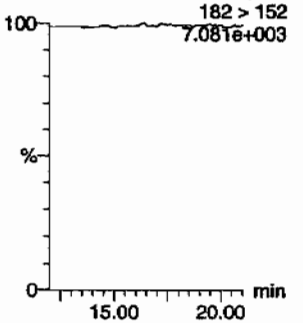
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
7.202e+003



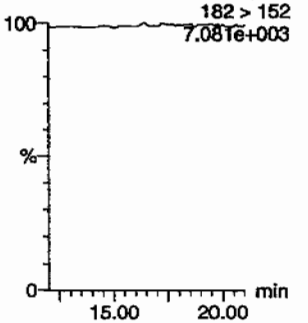
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
7.059e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.081e+003



26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.081e+003



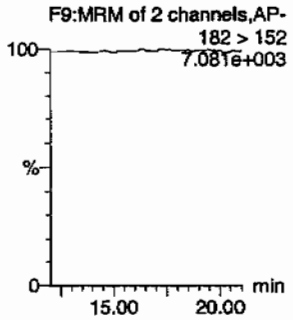
MM
03/13/10

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

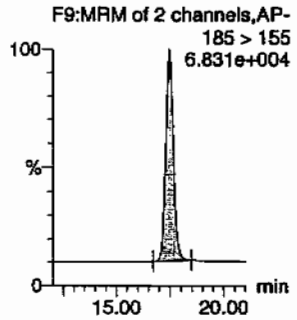
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

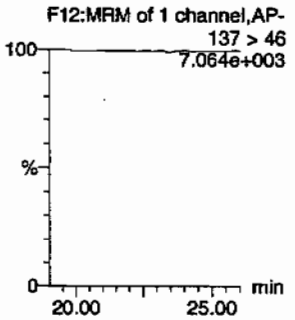
24-dinitrotoluene



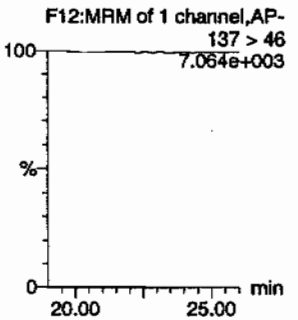
26-dinitrotoluene-d3



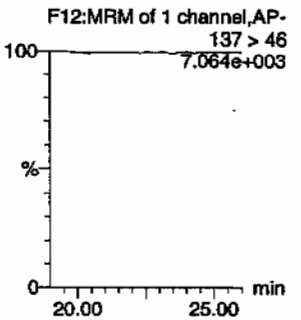
2-Nitrotoluene



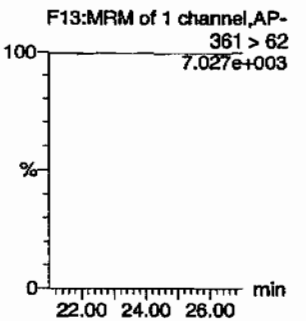
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Rel Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK03	HMX	176 > 102			4182.736									
XIBLK03	RDX	176 > 102			4182.736									
XIBLK03	135-Trinitrobenzene	213 > 183			4182.736									
XIBLK03	13-Dinitrobenzene-d4	172 > 142	12.10	4182.736		4182.736	4182.736	bb			541.7875	108.4	8.4	313.8
XIBLK03	13-Dinitrobenzene	168 > 138			4182.736									
XIBLK03	Tetryl	241 > 181			4182.736									
XIBLK03	Nitrobenzene	123 > 46			4182.736									
XIBLK03	4-Amino-26-dinitrotoluene	197 > 167			25378.086									
XIBLK03	2-Amino-46-dinitrotoluene	197 > 180			25378.086									
XIBLK03	246-Trinitrotoluene	227 > 210			25378.086									
XIBLK03	34-dinitrotoluene	182 > 152			25378.086									
XIBLK03	26-dinitrotoluene	182 > 152			25378.086									
XIBLK03	24-dinitrotoluene	182 > 152			25378.086									
XIBLK03	26-dinitrotoluene-d3	185 > 155	17.49	25378.086		25378.086	25378.086	bb			576.8375	115.4	15.4	1811.3
XIBLK03	2-Nitrotoluene	137 > 46			25378.086									
XIBLK03	4-Nitrotoluene	137 > 46			25378.086									
XIBLK03	3-Nitrotoluene	137 > 46			25378.086									
XIBLK03	PETN	361 > 62			25378.086									

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10–1703
Lab Code: GEL
Lab Sample ID: XIBLK04
Analysis Date: 11–MAR–10 22:02
GEL Data File: EXP0311024a
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	485.689
2,4,6–Trinitrotoluene	0	0
2,4–Dinitrotoluene	0	0
2,6–Dinitrotoluene	0	0
2,6–Dinitrotoluene–d3	500	532.214
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

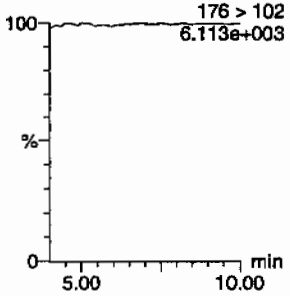
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

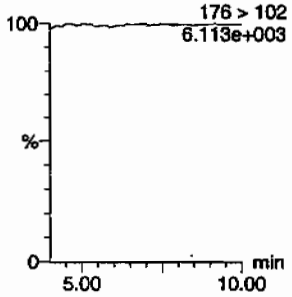
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311024a
Date: 11-Mar-2010
Time: 22:02:26
ID: XIBLK04
Vial: 1:1,A

MM 3/12/10

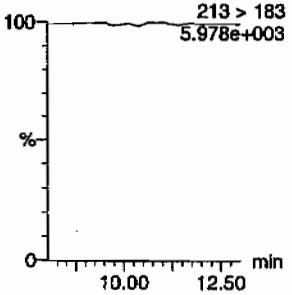
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.113e+003



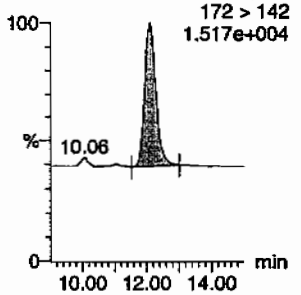
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.113e+003



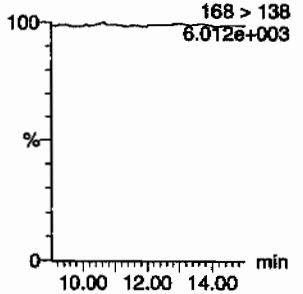
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
5.978e+003



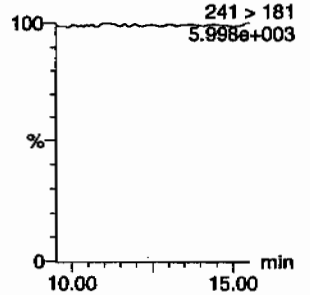
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.517e+004



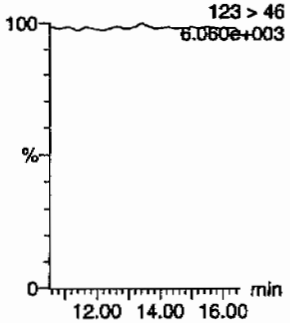
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.012e+003



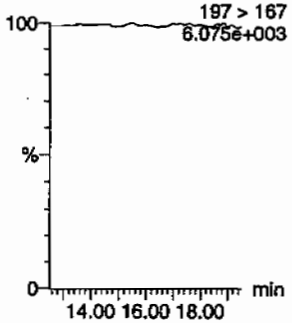
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
5.998e+003



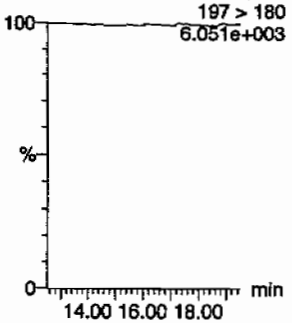
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.060e+003



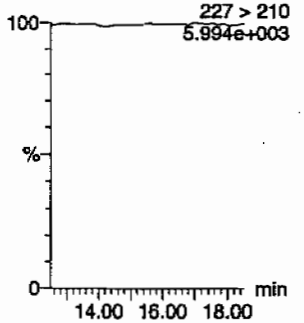
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.075e+003



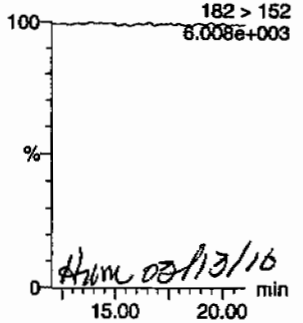
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.051e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
5.994e+003

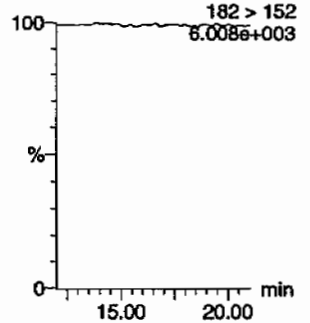


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.008e+003



HLM 03/13/10

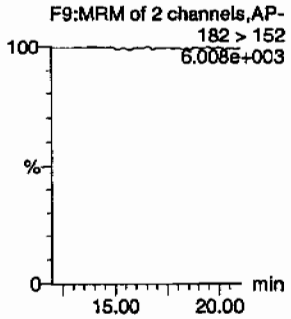
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.008e+003



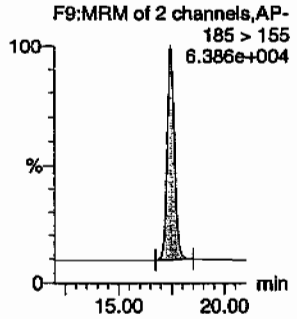
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

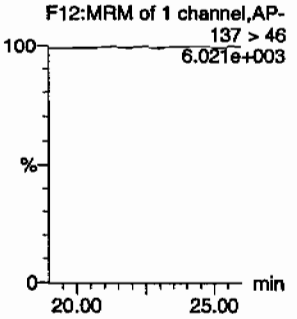
24-dinitrotoluene



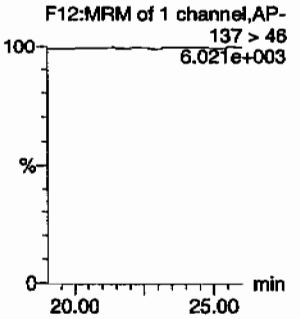
26-dinitrotoluene-d3



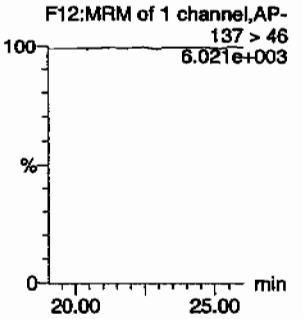
2-Nitrotoluene



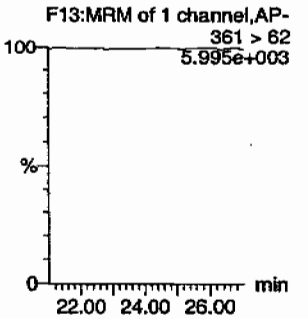
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S/Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK04	HMX	176 > 102			3749.640									
XIBLK04	RDX	176 > 102			3749.640									
XIBLK04	135-Trinitrobenzene	213 > 183			3749.640									
XIBLK04	13-Dinitrobenzene-d4	172 > 142	12.10	3749.640		3749.640	3749.640	bb			485.6888	97.1	-2.9	748.4
XIBLK04	13-Dinitrobenzene	168 > 138			3749.640									
XIBLK04	Tetryl	241 > 181			3749.640									
XIBLK04	Nitrobenzene	123 > 46			3749.640									
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167			23414.867									
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180			23414.867									
XIBLK04	246-Trinitrotoluene	227 > 210			23414.867									
XIBLK04	34-dinitrotoluene	182 > 152			23414.867									
XIBLK04	26-dinitrotoluene	182 > 152			23414.867									
XIBLK04	24-dinitrotoluene	182 > 152			23414.867									
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.46	23414.867		23414.867	23414.867	bb			532.2140	106.4	6.4	2180.2
XIBLK04	2-Nitrotoluene	137 > 46			23414.867									
XIBLK04	4-Nitrotoluene	137 > 46			23414.867									
XIBLK04	3-Nitrotoluene	137 > 46			23414.867									
XIBLK04	PETN	361 > 62			23414.867									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 12-MAR-10 20:01

GEL Data File: EXP0312009a

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	541.728
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	524.597
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

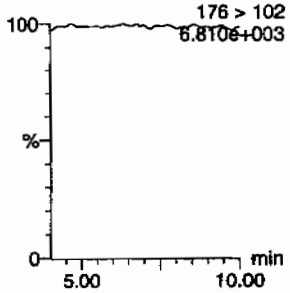
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

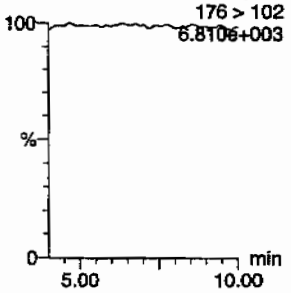
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312009a
Date: 12-Mar-2010
Time: 20:01:59
ID: XIBLK02
Vial: 1:1,A

MATT 3/13/10

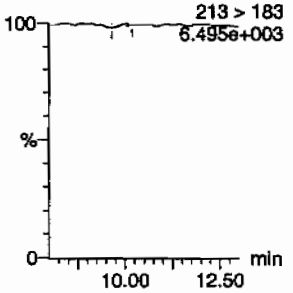
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.810e+003



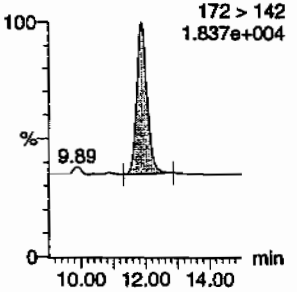
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.810e+003



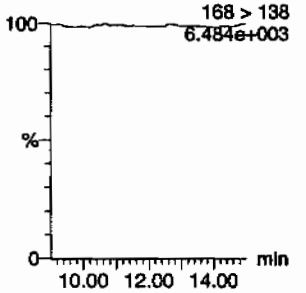
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.495e+003



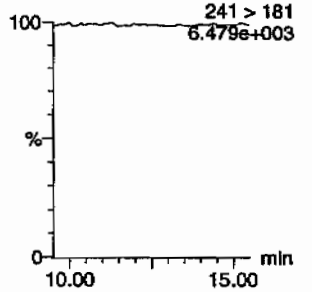
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.837e+004



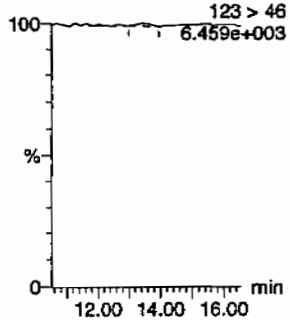
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.484e+003



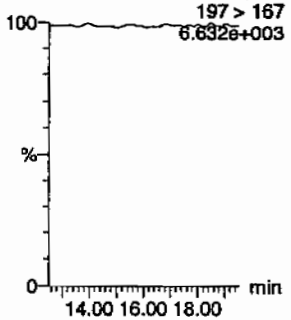
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.479e+003



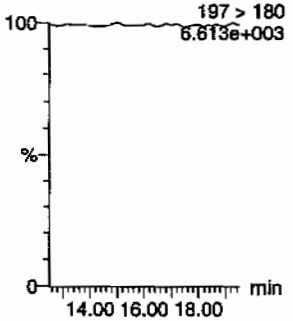
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.459e+003



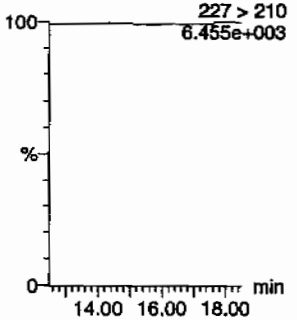
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.632e+003



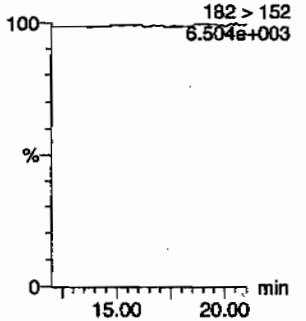
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.613e+003



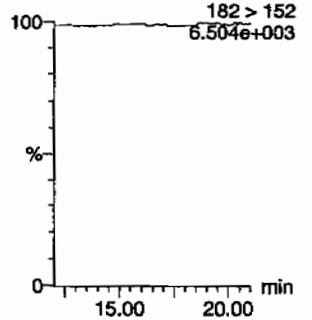
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.455e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.504e+003



26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.504e+003

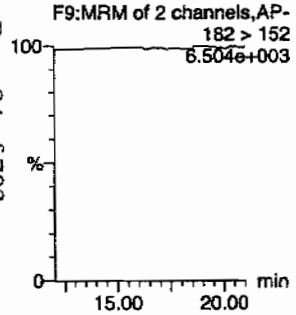


HMW 03/10/10

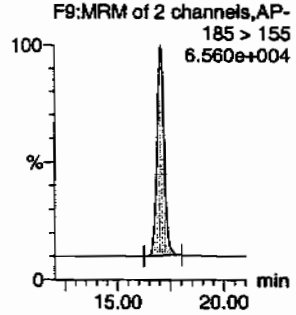
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

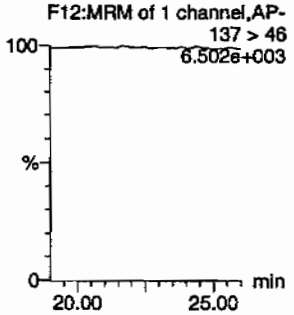
24-dinitrotoluene



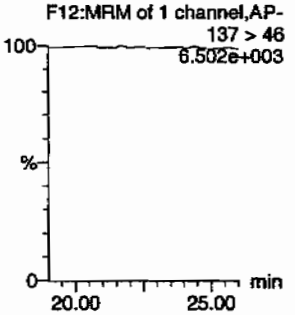
26-dinitrotoluene-d3



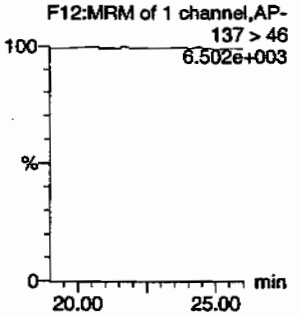
2-Nitrotoluene



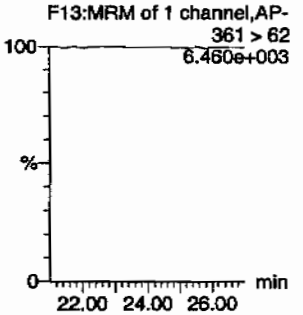
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
XIBLK02	HMX	176 > 102			4417.014									
XIBLK02	RDX	176 > 102			4417.014									
XIBLK02	135-Trinitrobenzene	213 > 183			4417.014			MM-	13-Mar-10	08:22:29				
XIBLK02	13-Dinitrobenzene-d4	172 > 142	11.87	4417.014		4417.014	4417.014	bb			541.7278	108.3	8.3	319.2
XIBLK02	13-Dinitrobenzene	168 > 138			4417.014									
XIBLK02	Tetryl	241 > 181			4417.014									
XIBLK02	Nitrobenzene	123 > 46			4417.014			MM-	13-Mar-10	08:23:35				
XIBLK02	4-Amino-26-dinitrotoluene	197 > 167			23906.547									
XIBLK02	2-Amino-46-dinitrotoluene	197 > 180			23906.547									
XIBLK02	246-Trinitrotoluene	227 > 210			23906.547									
XIBLK02	34-dinitrotoluene	182 > 152			23906.547									
XIBLK02	26-dinitrotoluene	182 > 152			23906.547									
XIBLK02	24-dinitrotoluene	182 > 152			23906.547									
XIBLK02	26-dinitrotoluene-d3	185 > 155	17.05	23906.547		23906.547	23906.547	bb			524.5966	104.9	4.9	2300.3
XIBLK02	2-Nitrotoluene	137 > 46			23906.547									
XIBLK02	4-Nitrotoluene	137 > 46			23906.547									
XIBLK02	3-Nitrotoluene	137 > 46			23906.547									
XIBLK02	PETN	361 > 62			23906.547									

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1703
Lab Code: GEL
Lab Sample ID: XIBLK03
Analysis Date: 12-MAR-10 21:00
GEL Data File: EXP0312011a
Instrument ID: LCMSMS
Column: Phenomenex Ultracarb 5u ODS(20)

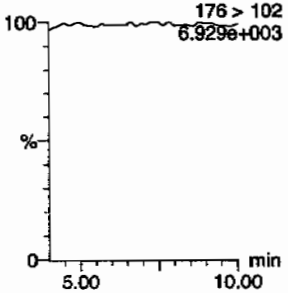
Compound	True	Found (ug/L)
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	595.003
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	521.803
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	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

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

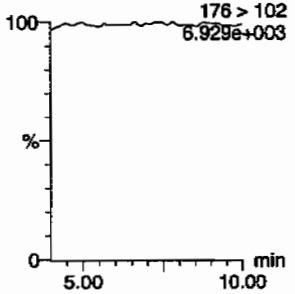
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312011a
Date: 12-Mar-2010
Time: 21:00:56
ID: XIBLK03
Vial: 1:1,A

MAT 3/13/10

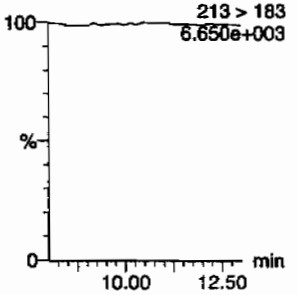
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.929e+003



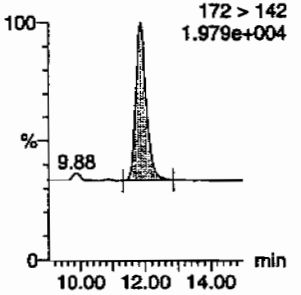
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.929e+003



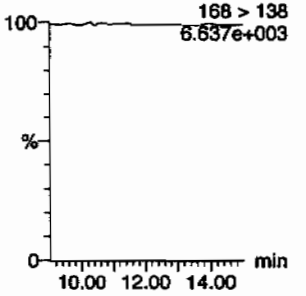
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.650e+003



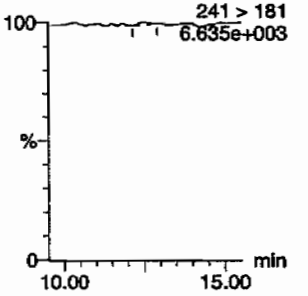
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.979e+004



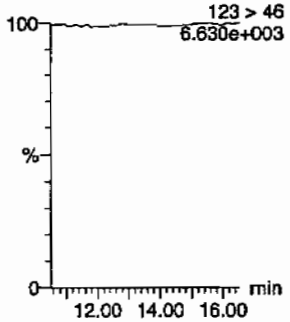
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.637e+003



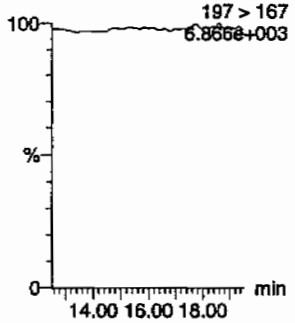
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.635e+003



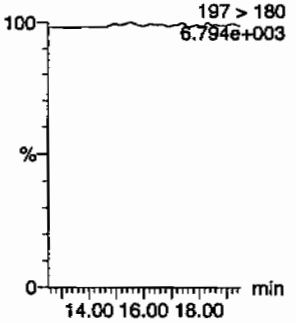
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.630e+003



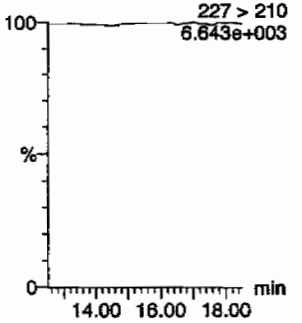
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.866e+003



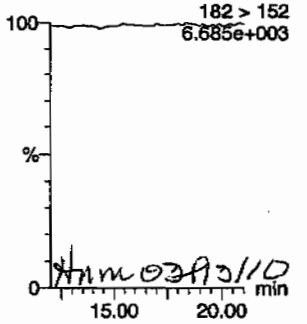
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.794e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.643e+003

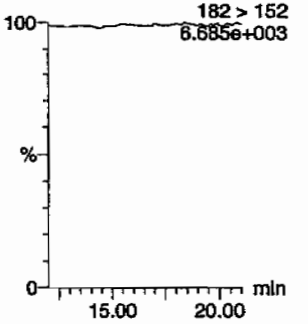


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.685e+003



Hmm 03/13/10

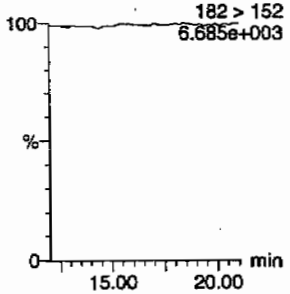
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.685e+003



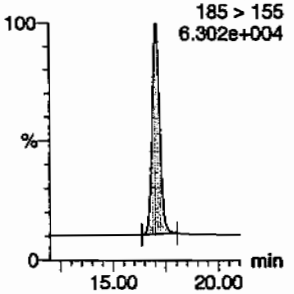
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

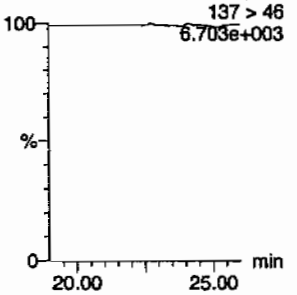
24-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.685e+003



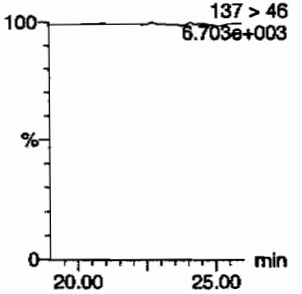
26-dinitrotoluene-d3
F9:MRM of 2 channels,AP-
185 > 155
6.302e+004



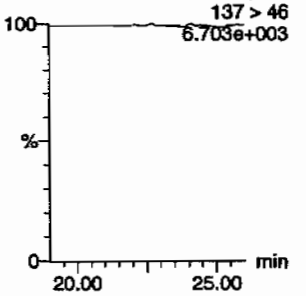
2-Nitrotoluene
F12:MRM of 1 channel,AP-
137 > 46
6.703e+003



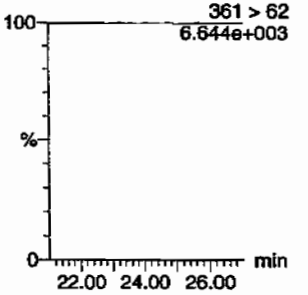
4-Nitrotoluene
F12:MRM of 1 channel,AP-
137 > 46
6.703e+003



3-Nitrotoluene
F12:MRM of 1 channel,AP-
137 > 46
6.703e+003



PETN
F13:MRM of 1 channel,AP-
361 > 62
6.644e+003



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK03	HMX	176 > 102			4851.398									
XIBLK03	RDX	176 > 102			4851.398									
XIBLK03	135-Trinitrobenzene	213 > 183			4851.398									
XIBLK03	13-Dinitrobenzene-d4	172 > 142	11.87	4851.398		4851.398	4851.398	bb			595.0031	119.0	19.0	490.7
XIBLK03	13-Dinitrobenzene	168 > 138			4851.398									
XIBLK03	Tetryl	241 > 181			4851.398			MM-	13-Mar-10	08:23:25				
XIBLK03	Nitrobenzene	123 > 46			4851.398									
XIBLK03	4-Amino-26-dinitrotoluene	197 > 167			23779.240									
XIBLK03	2-Amino-46-dinitrotoluene	197 > 180			23779.240									
XIBLK03	246-Trinitrotoluene	227 > 210			23779.240									
XIBLK03	34-dinitrotoluene	182 > 152			23779.240									
XIBLK03	26-dinitrotoluene	182 > 152			23779.240									
XIBLK03	24-dinitrotoluene	182 > 152			23779.240									
XIBLK03	26-dinitrotoluene-d3	185 > 155	17.07	23779.240		23779.240	23779.240	bb			521.8031	104.4	4.4	1208.0
XIBLK03	2-Nitrotoluene	137 > 46			23779.240									
XIBLK03	4-Nitrotoluene	137 > 46			23779.240									
XIBLK03	3-Nitrotoluene	137 > 46			23779.240									
XIBLK03	PETN	361 > 62			23779.240									

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 13-MAR-10 02:25

GEL Data File: EXP0312022a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

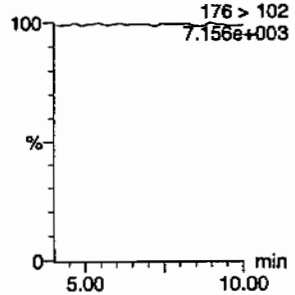
Compound	True	Found (ug/L)
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	434.951
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	436.591
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	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

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

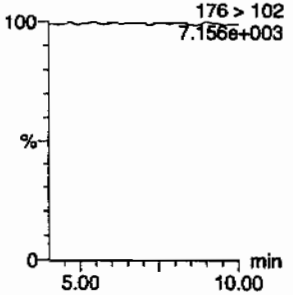
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312022a
Date: 13-Mar-2010
Time: 02:25:16
ID: XIBLK04
Vial: 1:1,A

MMP 3/13/10

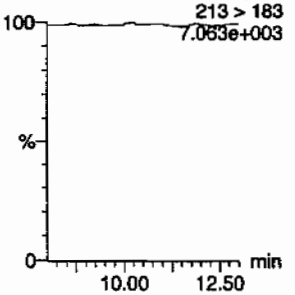
HMX
F2:MRM of 1 channel,AP-
176 > 102
7.156e+003



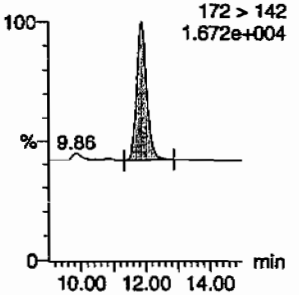
RDX
F2:MRM of 1 channel,AP-
176 > 102
7.156e+003



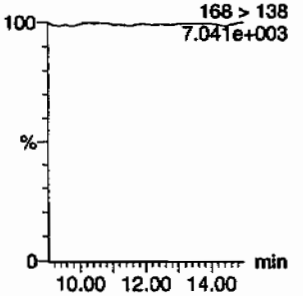
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
7.063e+003



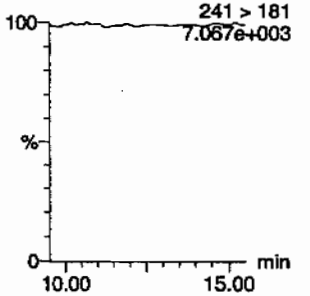
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.672e+004



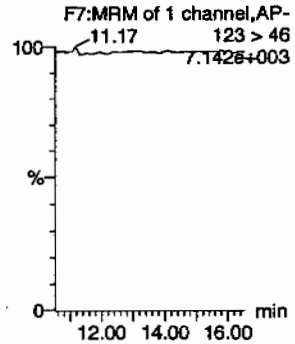
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
7.041e+003



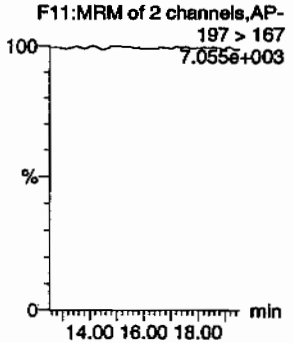
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
7.067e+003



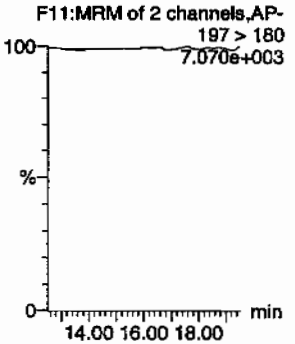
Nitrobenzene
F7:MRM of 1 channel,AP-
11.17
123 > 46
7.142e+003



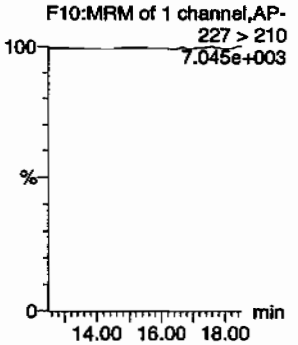
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
7.055e+003



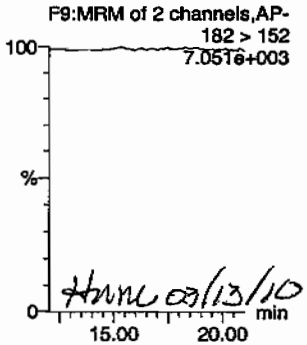
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
7.070e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
7.045e+003

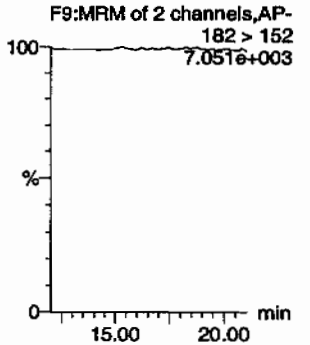


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.051e+003



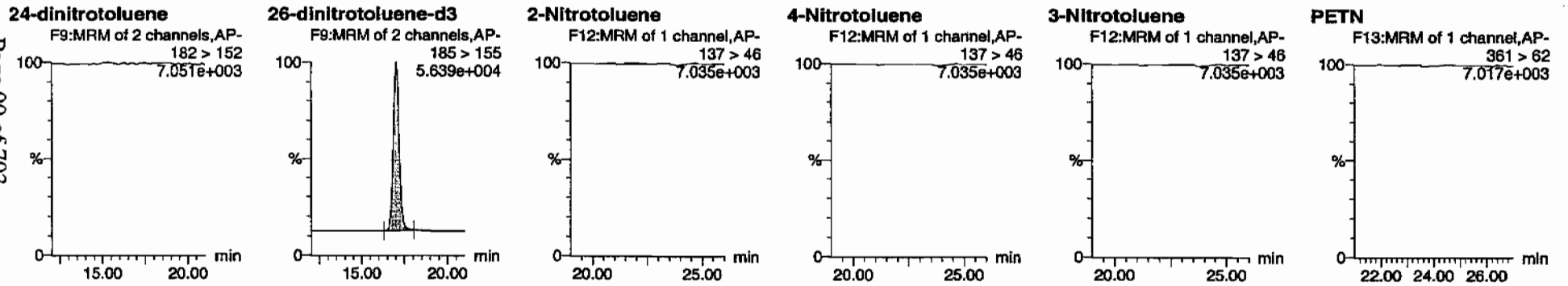
HMM 03/13/10

26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.051e+003



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

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
XIBLK04	HMX	176 > 102			3546.404									
XIBLK04	RDX	176 > 102			3546.404									
XIBLK04	135-Trinitrobenzene	213 > 183			3546.404									
XIBLK04	13-Dinitrobenzene-d4	172 > 142	11.87	3546.404		3546.404	3546.404	bb			434.9512	87.0	-13.0	268.7
XIBLK04	13-Dinitrobenzene	168 > 138			3546.404									
XIBLK04	Tetryl	241 > 181			3546.404									
XIBLK04	Nitrobenzene	123 > 46			3546.404									
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167			19896.029									
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180			19896.029									
XIBLK04	246-Trinitrotoluene	227 > 210			19896.029									
XIBLK04	34-dinitrotoluene	182 > 152			19896.029									
XIBLK04	26-dinitrotoluene	182 > 152			19896.029									
XIBLK04	24-dinitrotoluene	182 > 152			19896.029									
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.03	19896.029		19896.029	19896.029	bb			436.5913	87.3	-12.7	1968.6
XIBLK04	2-Nitrotoluene	137 > 46			19896.029									
XIBLK04	4-Nitrotoluene	137 > 46			19896.029									
XIBLK04	3-Nitrotoluene	137 > 46			19896.029									
XIBLK04	PETN	361 > 62			19896.029									

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC
GEL Job No(SDG): 10-1703
Lab Code: GEL
Lab Sample ID: XIBLK05
Analysis Date: 13-MAR-10 03:24
GEL Data File: EXP0312024a
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	421.171
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	421.041
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

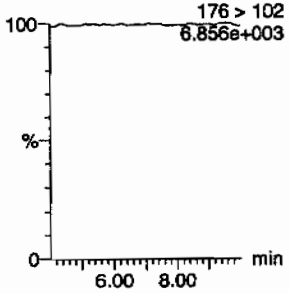
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

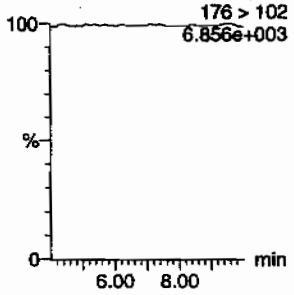
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312024a
Date: 13-Mar-2010
Time: 03:24:13
ID: XIBLK05
Vial: 1:1,A

MMT 3/13/10

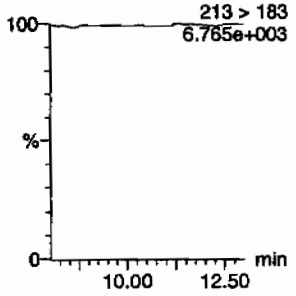
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.856e+003



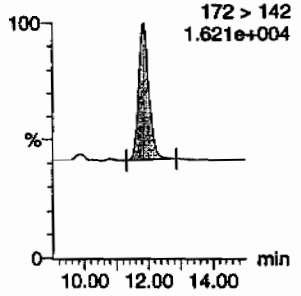
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.856e+003



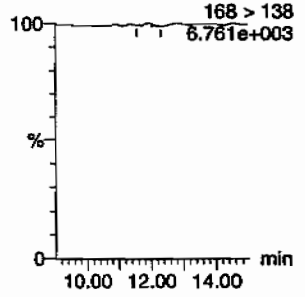
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.765e+003



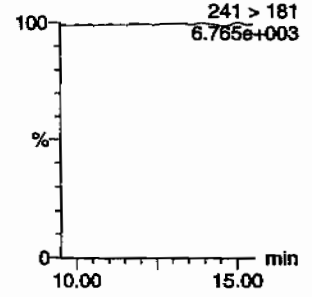
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.621e+004



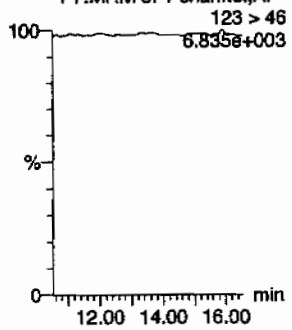
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.761e+003



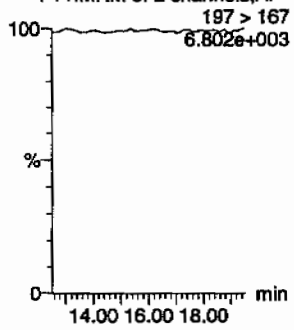
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.765e+003



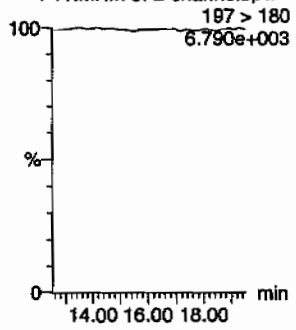
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.835e+003



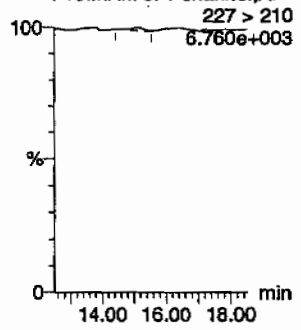
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.802e+003



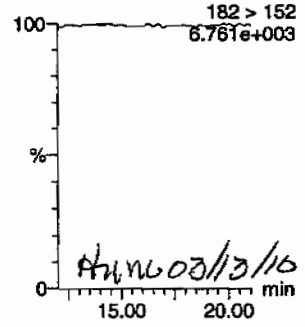
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.790e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.760e+003

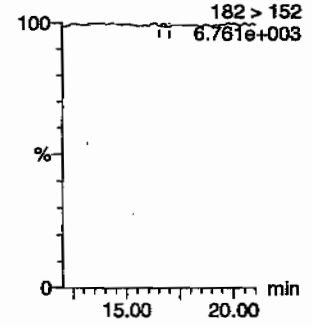


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.761e+003



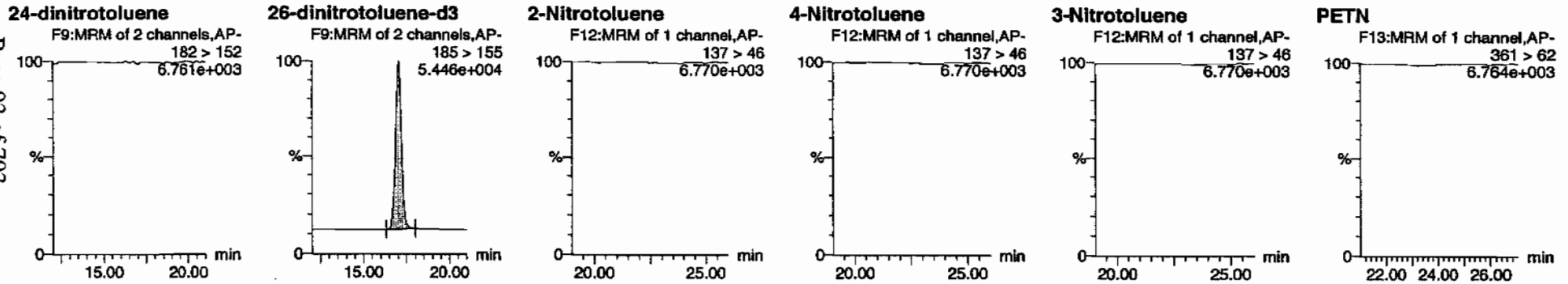
AHM 03/13/10

26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
6.761e+003



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

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010



ID	Name	Trace	RT	Area	S/Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
XIBLK05	HMX	176 > 102			3434.049									
XIBLK05	RDX	176 > 102			3434.049									
XIBLK05	135-Trinitrobenzene	213 > 183			3434.049									
XIBLK05	13-Dinitrobenzene-d4	172 > 142	11.87	3434.049		3434.049	3434.049	bb			421.1714	84.2	-15.8	269.1
XIBLK05	13-Dinitrobenzene	168 > 138			3434.049			MM-	13-Mar-10	08:23:14				
XIBLK05	Tetryl	241 > 181			3434.049									
XIBLK05	Nitrobenzene	123 > 46			3434.049									
XIBLK05	4-Amino-26-dinitrotoluene	197 > 167			19187.365									
XIBLK05	2-Amino-46-dinitrotoluene	197 > 180			19187.365									
XIBLK05	246-Trinitrotoluene	227 > 210			19187.365			MM-	13-Mar-10	08:24:16				
XIBLK05	34-dinitrotoluene	182 > 152			19187.365									
XIBLK05	26-dinitrotoluene	182 > 152			19187.365			MM-	13-Mar-10	08:37:16				
XIBLK05	24-dinitrotoluene	182 > 152			19187.365									
XIBLK05	26-dinitrotoluene-d3	185 > 155	17.05	19187.365		19187.365	19187.365	bb			421.0406	84.2	-15.8	1520.8
XIBLK05	2-Nitrotoluene	137 > 46			19187.365									
XIBLK05	4-Nitrotoluene	137 > 46			19187.365									
XIBLK05	3-Nitrotoluene	137 > 46			19187.365									
XIBLK05	PETN	361 > 62			19187.365									

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 26–FEB–10 17:15

GEL Data File: EXS02260010.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

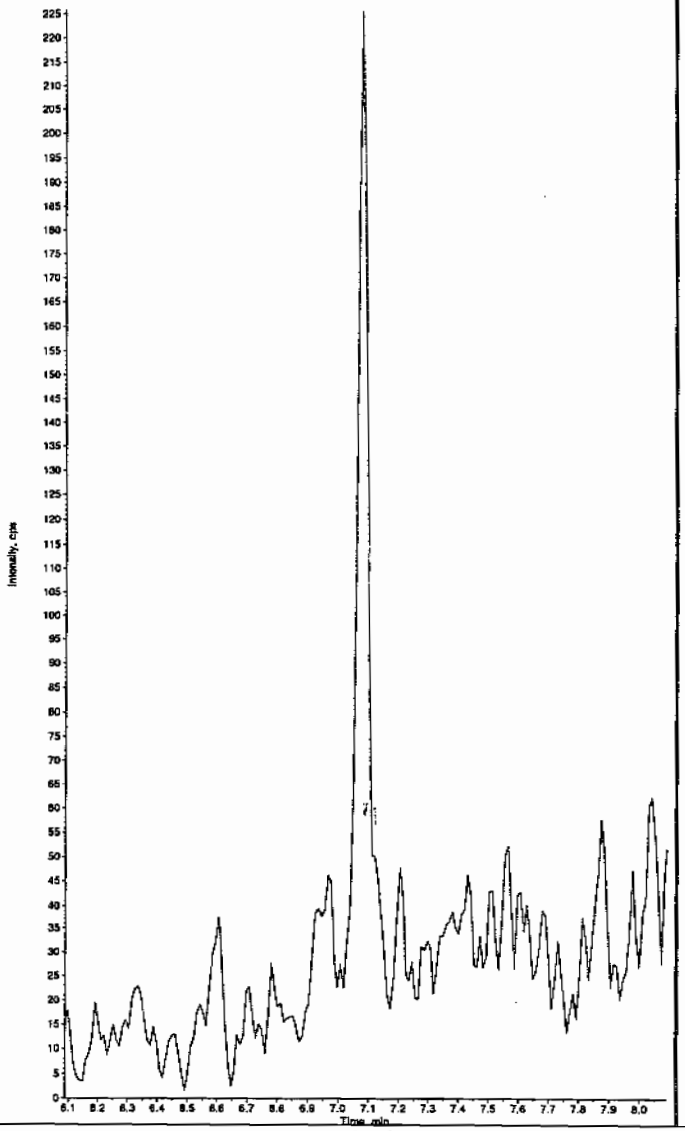
Compound	True	Found (ug/L)
tris(o–cresyl) phosphate	0	0
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0
3,4–Dinitrotoluene	0	0

Ran 3/1/10

Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS02260010.wiff"
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: 2/26/2010
Acq. Time: 5:15:22 PM

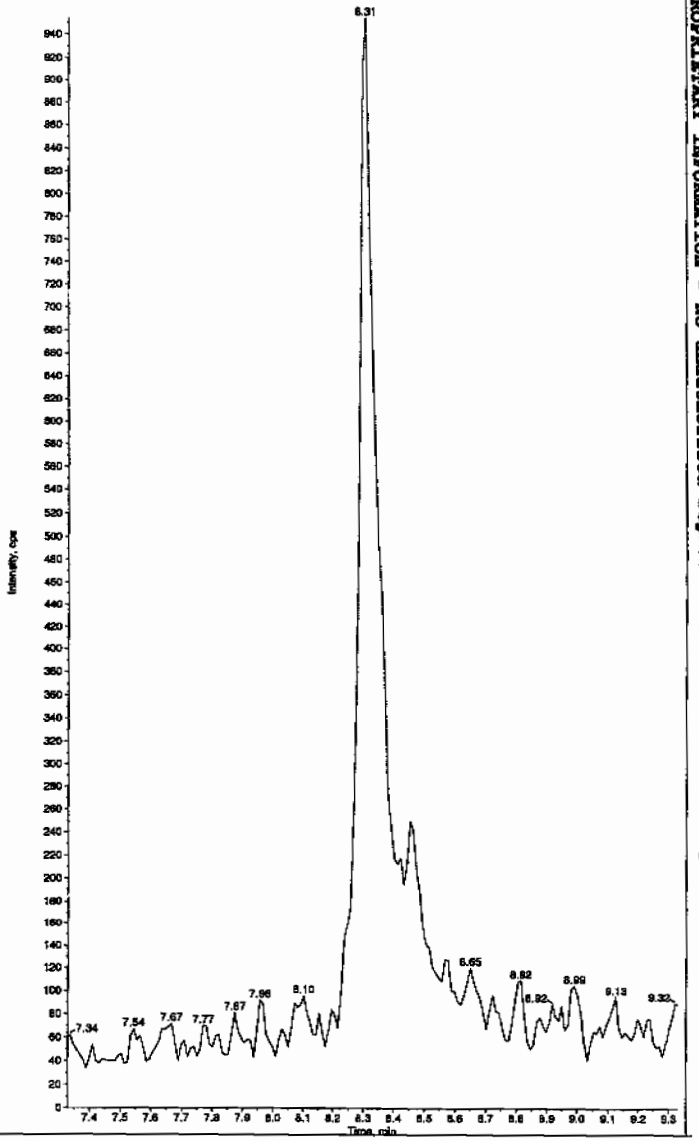
Modified: No



Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS02260010.wiff"
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: 2/26/2010
Acq. Time: 5:15:22 PM

Modified: No



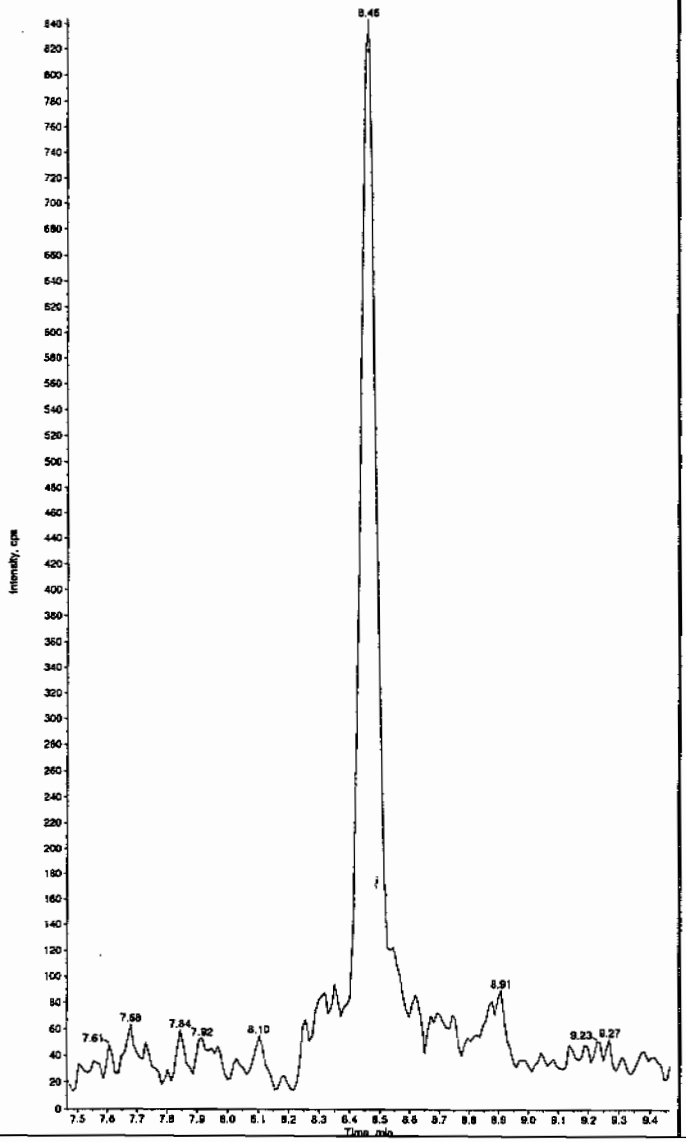
Hnm 03/01/10

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

Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS02260010.wiff"
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: 2/26/2010
Acq. Time: 5:15:22 PM

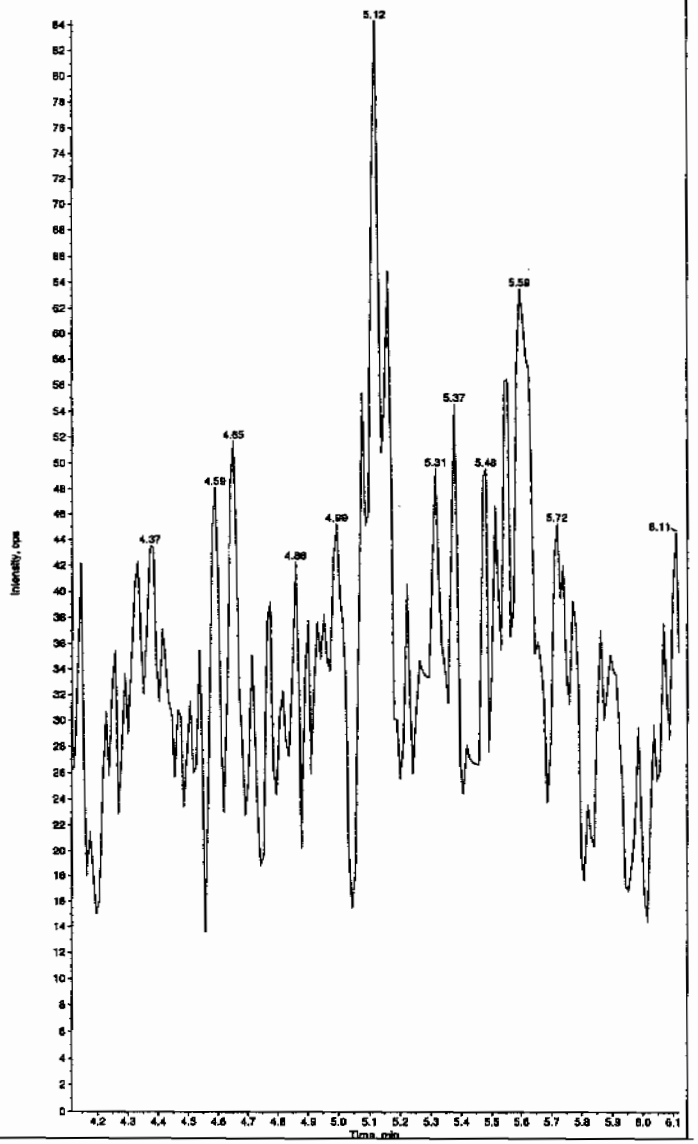
Modified: No



Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS02260010.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:15:22 PM

Modified: No

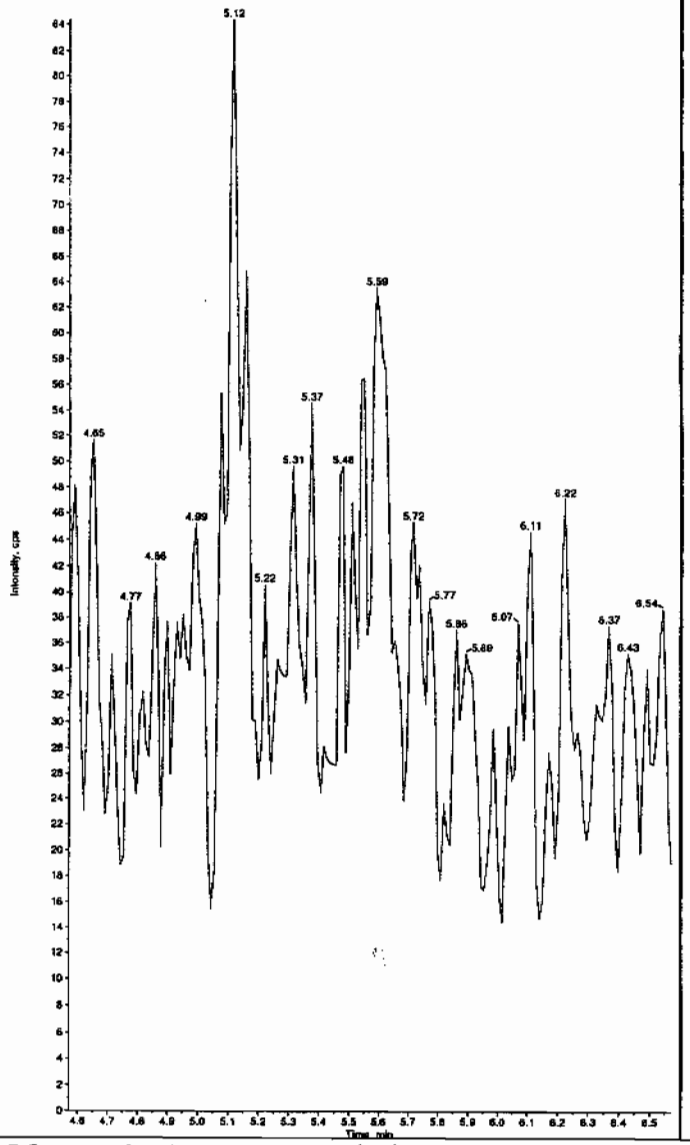


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS02260010.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:15:22 PM

Modified: No

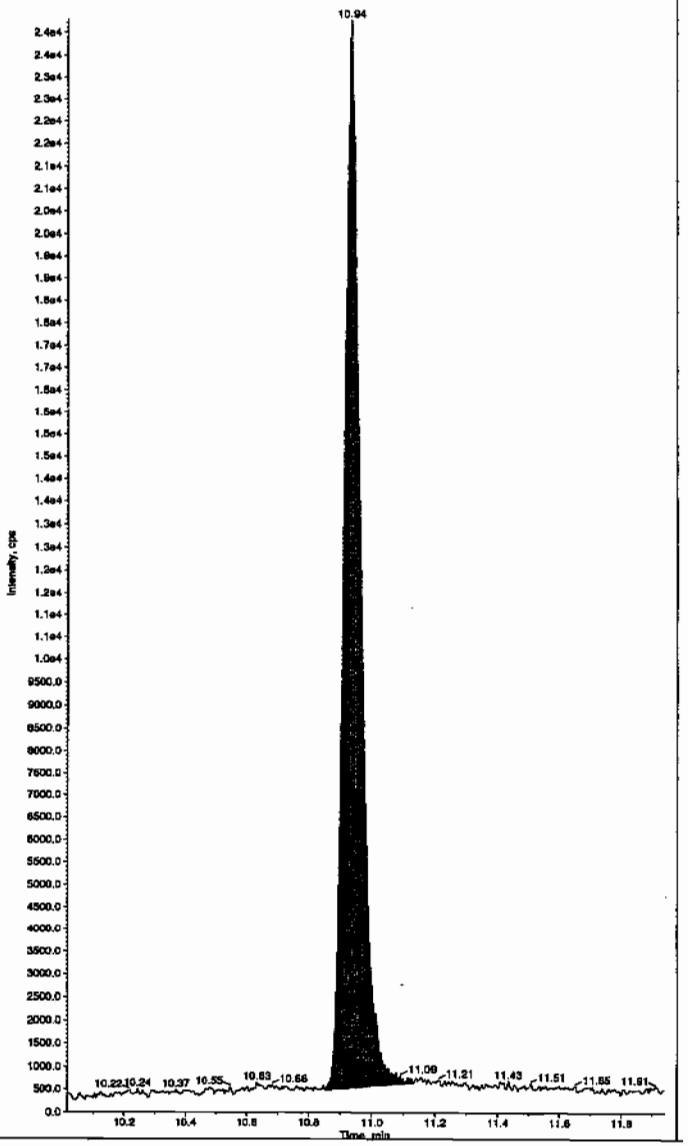


Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS02260010.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: < 0
Acq. Date: 2/26/2010
Acq. Time: 5:15:22 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: 8.88e+004 counts
Height: 23771.599 cps
Start Time: 10.9 min
End Time: 11.1 min



*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): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 26–FEB–10 17:46

GEL Data File: EXS02260012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

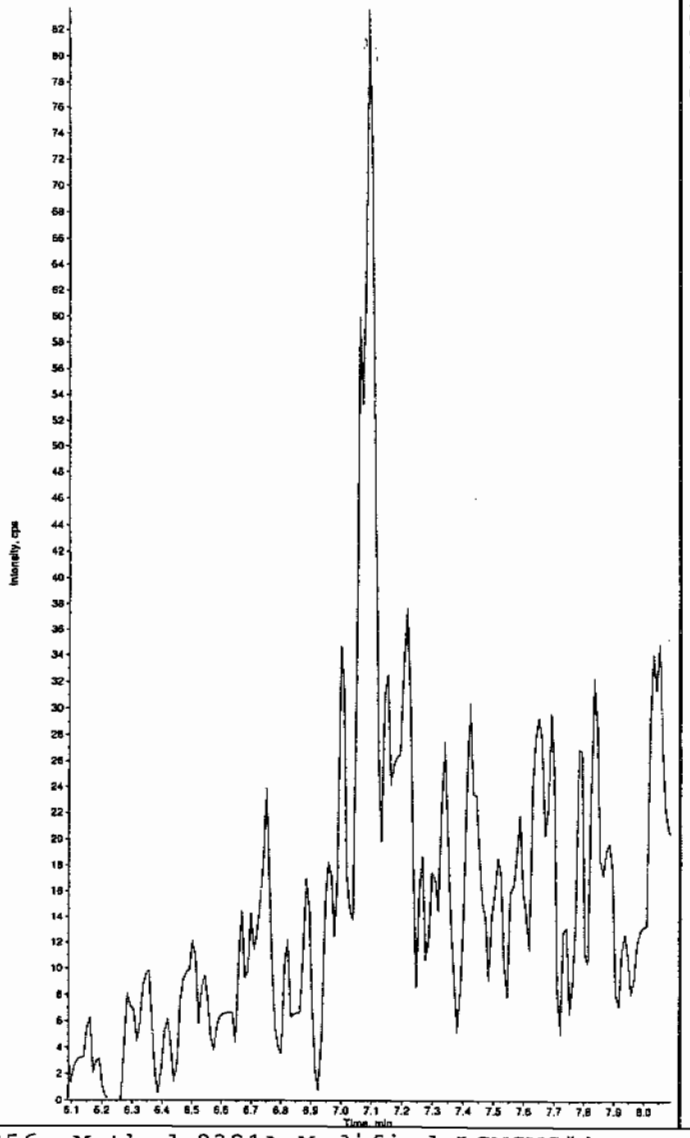
Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	0
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0

Lxm 3/1/10

Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS02260012.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_8" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:46:47 PM

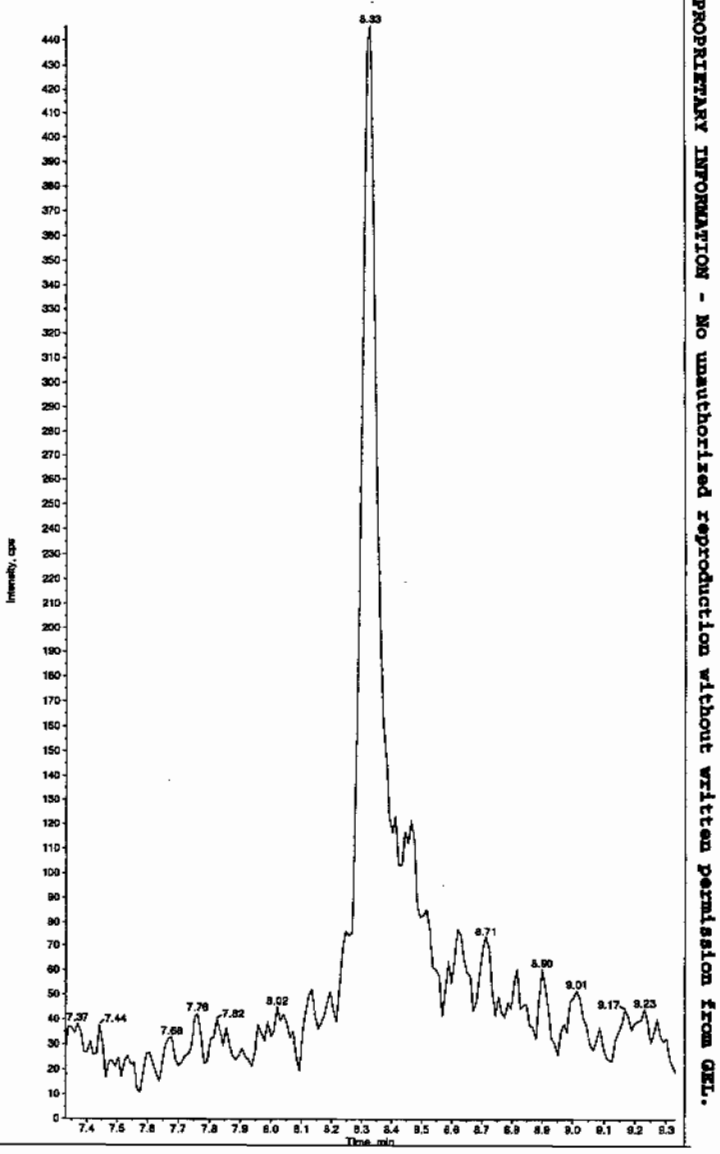
Modified: No



Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS02260012.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_8" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:46:47 PM

Modified: No



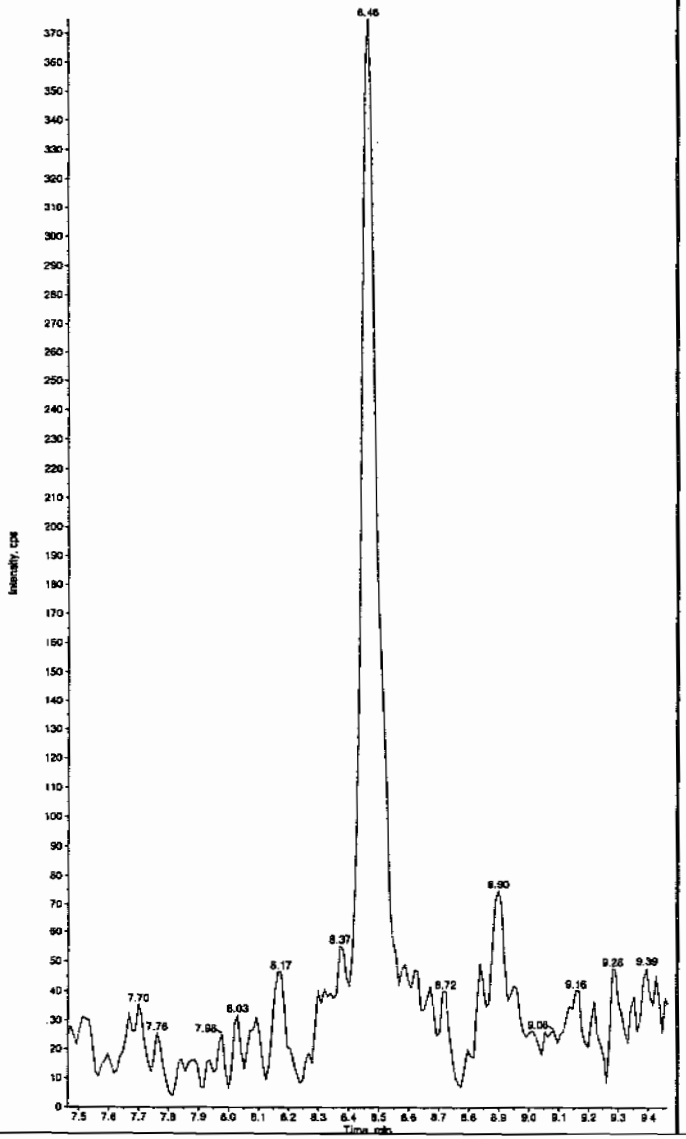
Hnm 03/01/10

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

Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS02260012.wiff"
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: 2/26/2010
Acq. Time: 5:46:47 PM

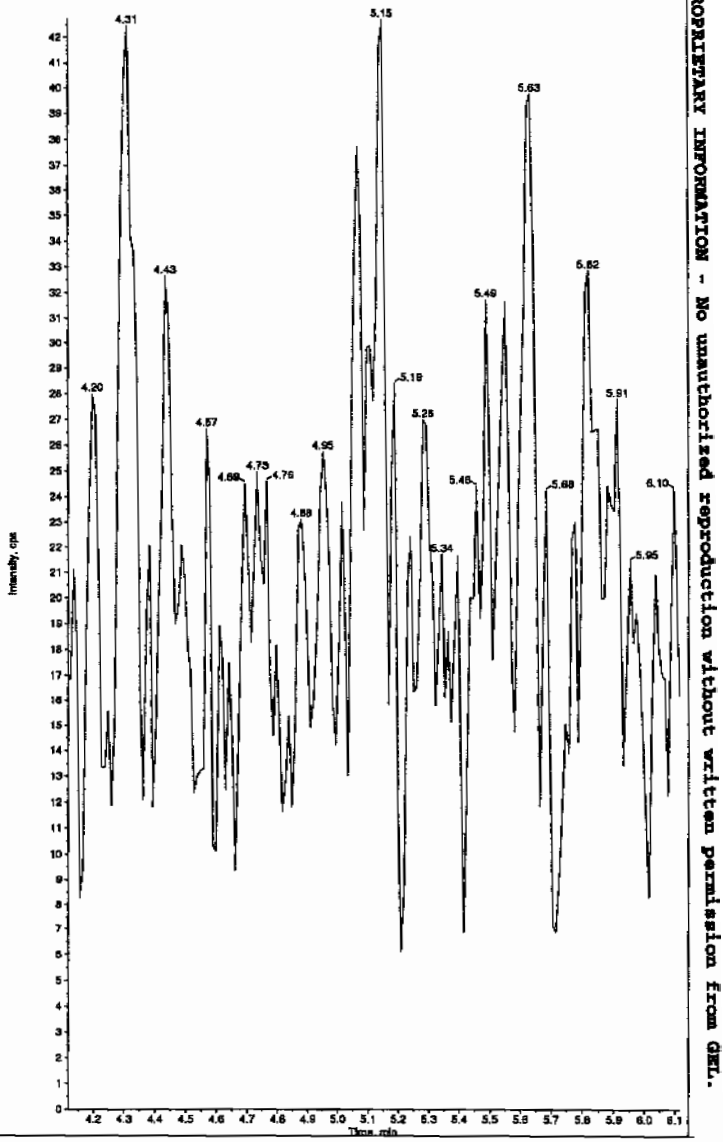
Modified: No



Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS02260012.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:46:47 PM

Modified: No

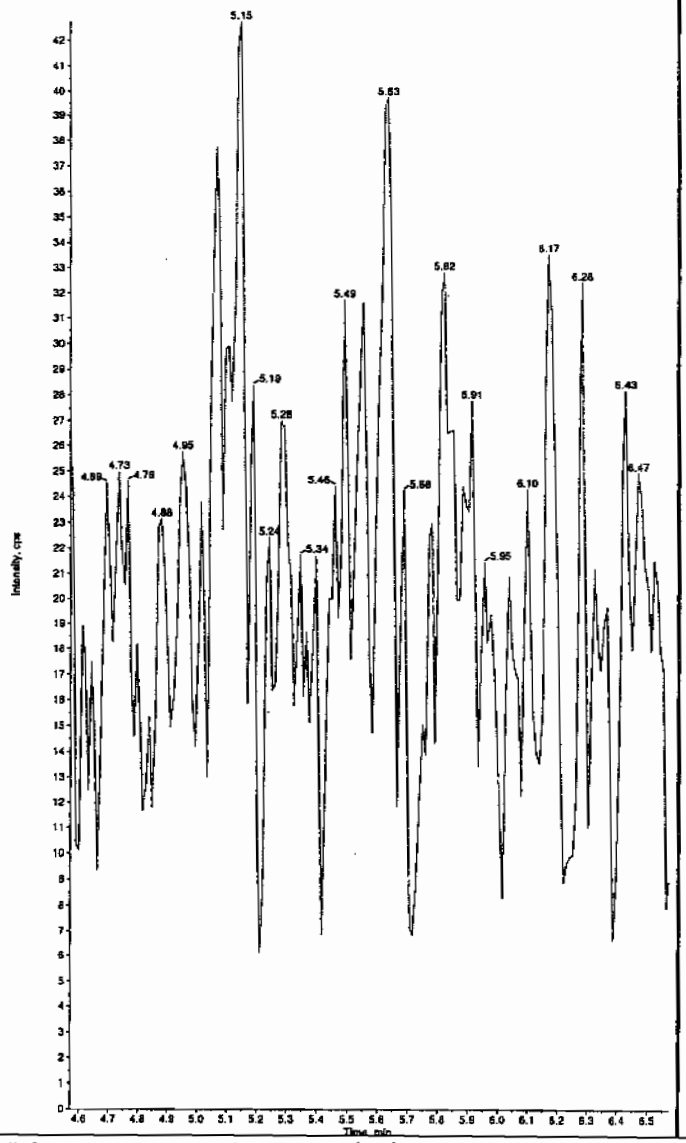


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS02260012.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:46:47 PM

Modified: No

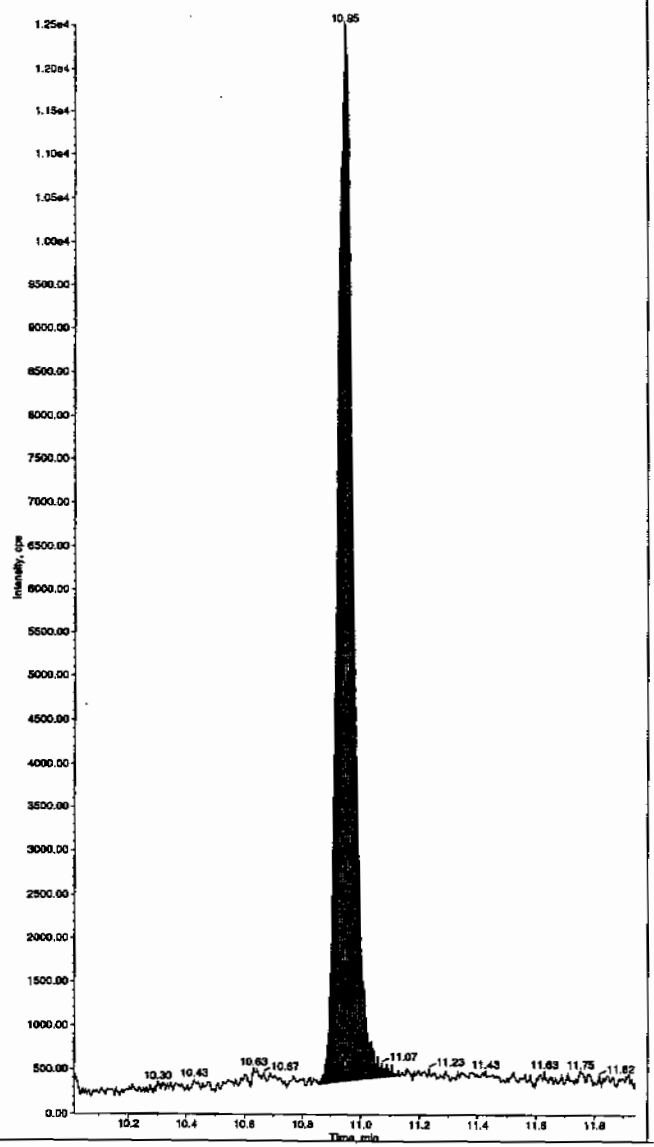


Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS02260012.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/26/2010
Acq. Time: 5:46:47 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: 4.68e+004 counts
Height: 12137.585 cps
Start Time: 10.9 min
End Time: 11.1 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 26-FEB-10 21:10

GEL Data File: EXS02260025.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

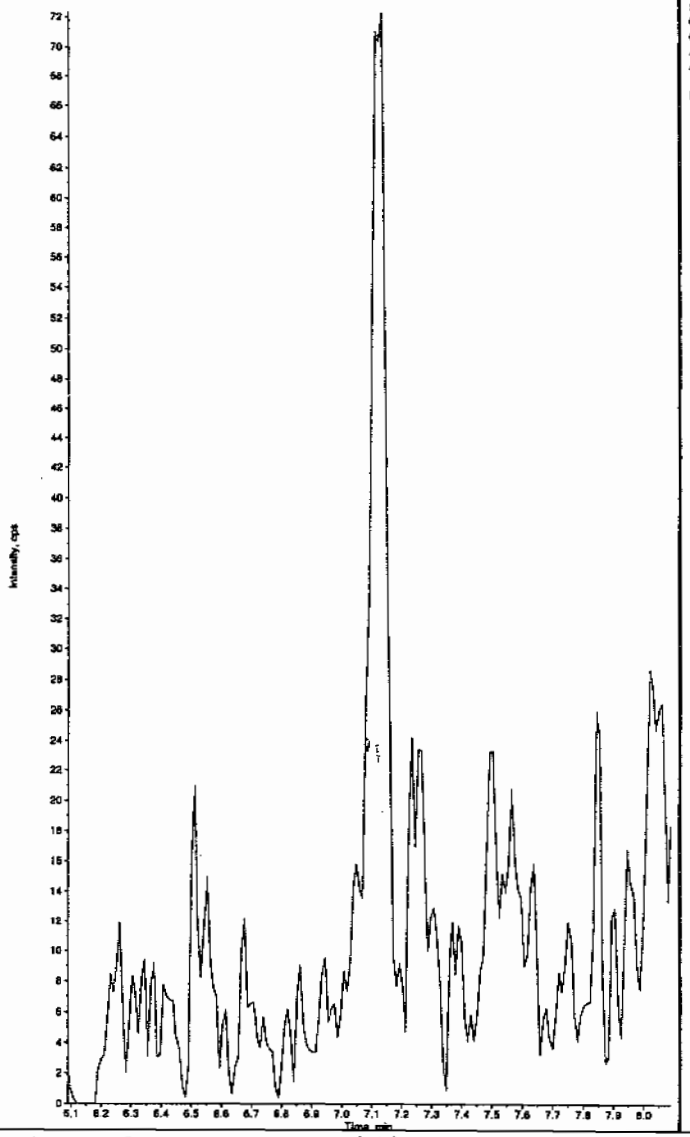
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Ker 3/1/10

Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS02260025.wiff"
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: 2/26/2010
Acq. Time: 9:10:59 PM

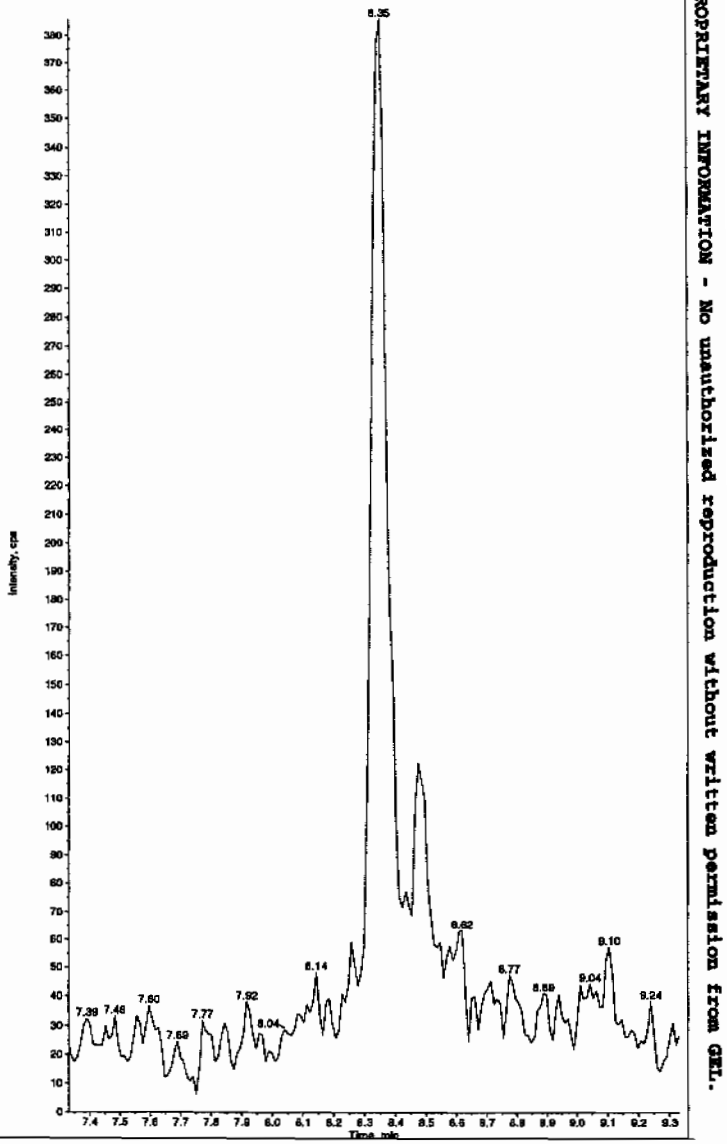
Modified: No



Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS02260025.wiff"
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: 2/26/2010
Acq. Time: 9:10:59 PM

Modified: No



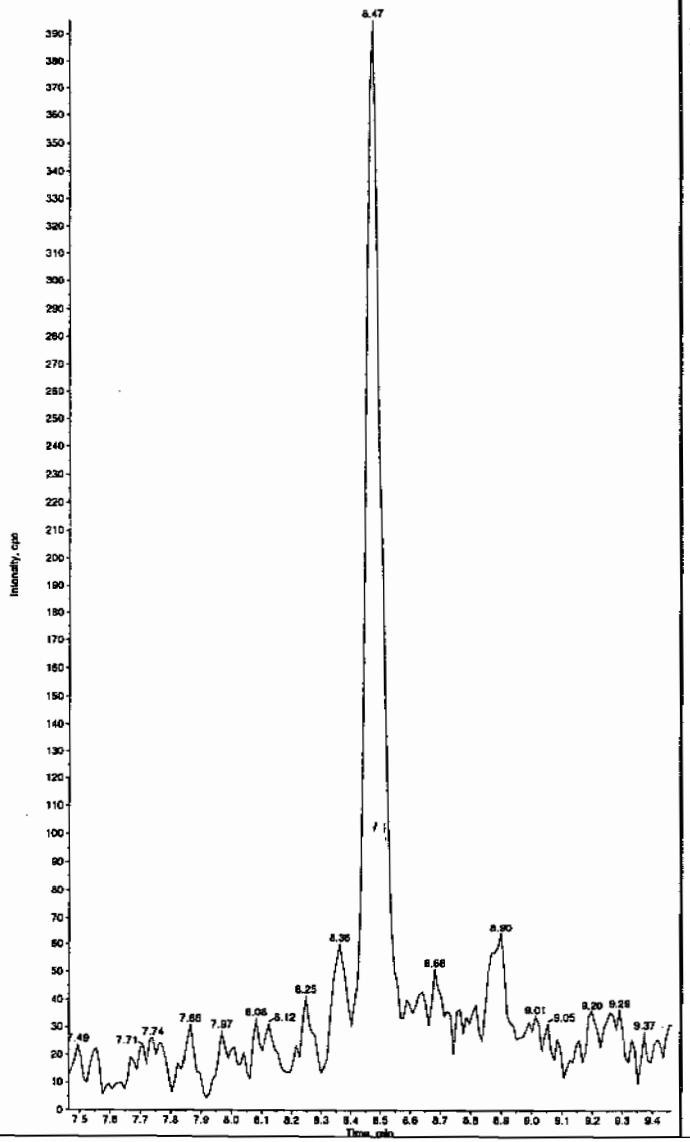
Hnm 03/01/10

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

Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS02260025.wiff"
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: 2/26/2010
Acq. Time: 9:10:59 PM

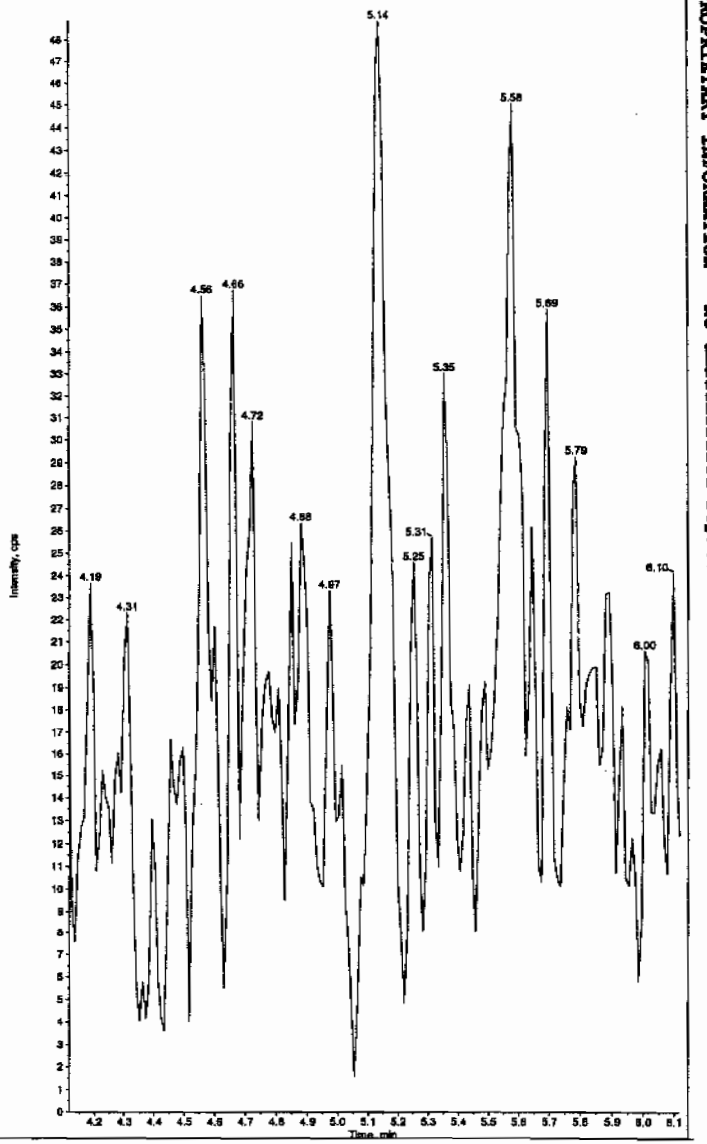
Modified: No



Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS02260025.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:10:59 PM

Modified: No

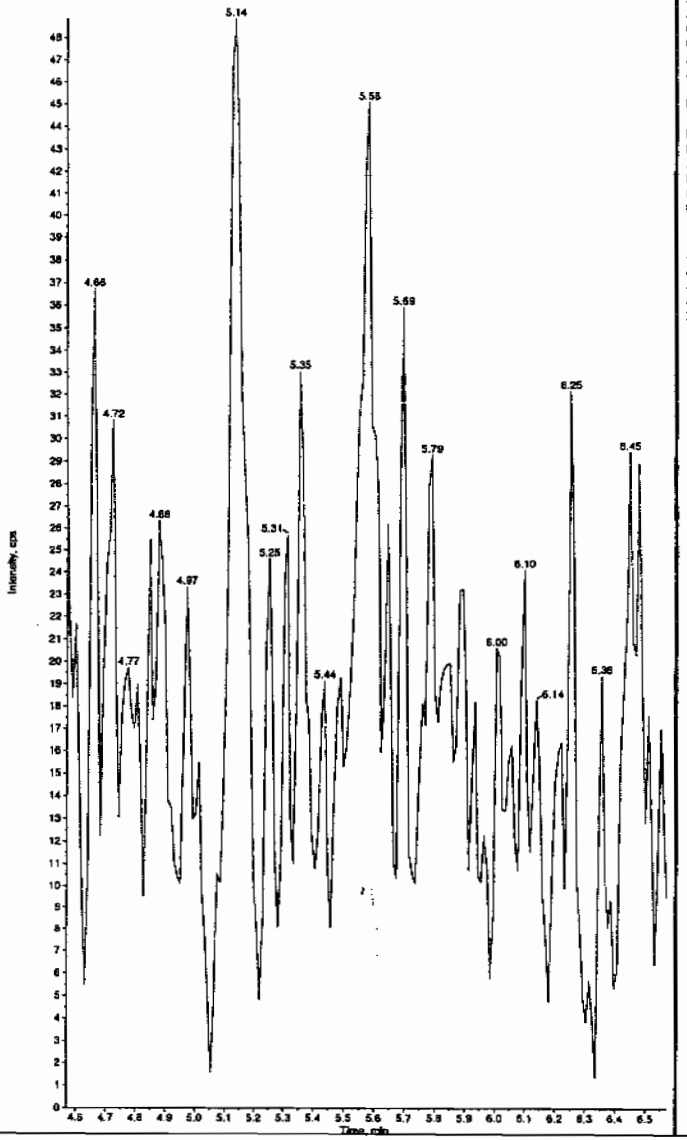


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS02260025.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:10:59 PM

Modified: No

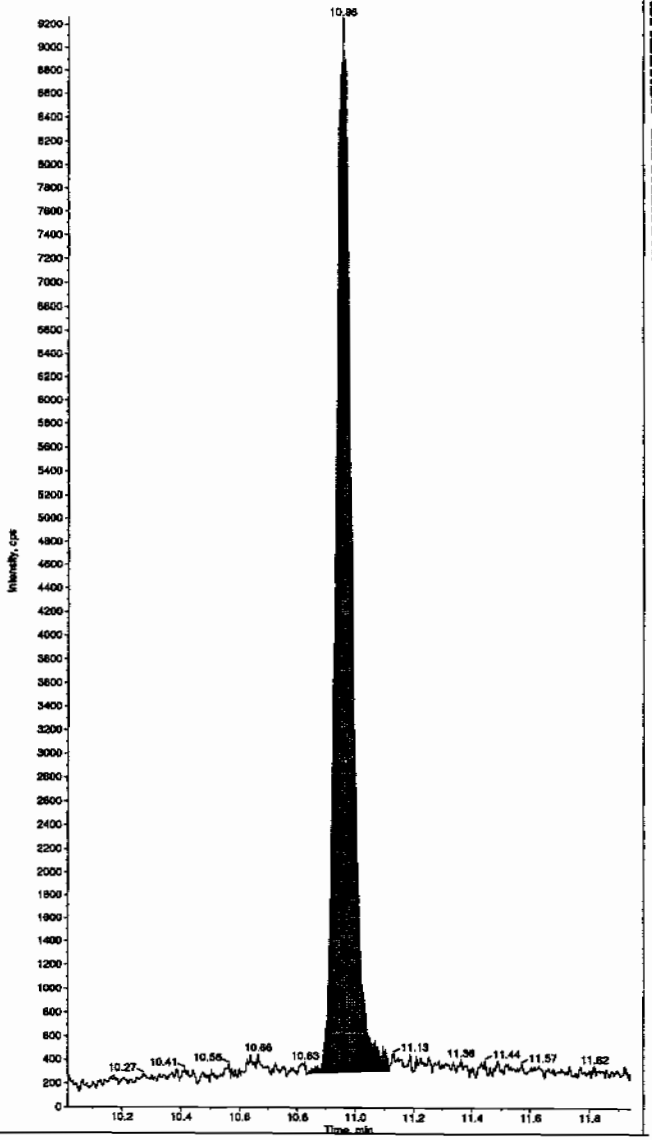


Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS02260025.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/26/2010
Acq. Time: 9:10:59 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: 11.0 min
Area: 3.47e+004 counts
Height: 8965.046 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 26-FEB-10 22:13

GEL Data File: EXS02260029.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

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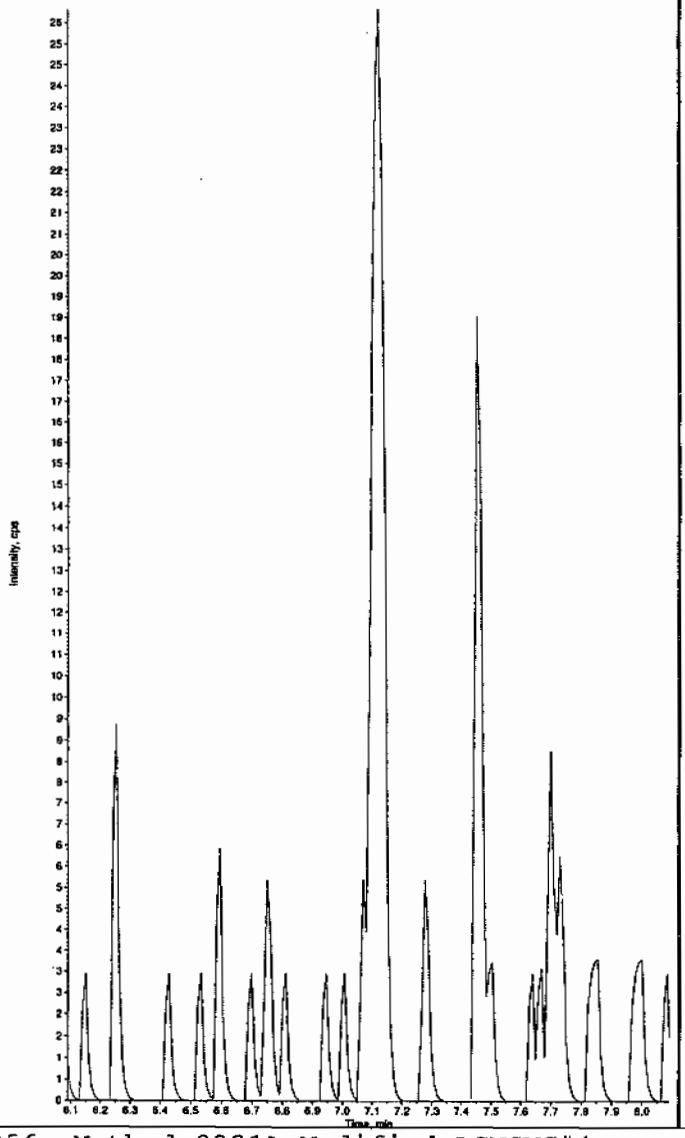
Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS02260029.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 10:13:52 PM

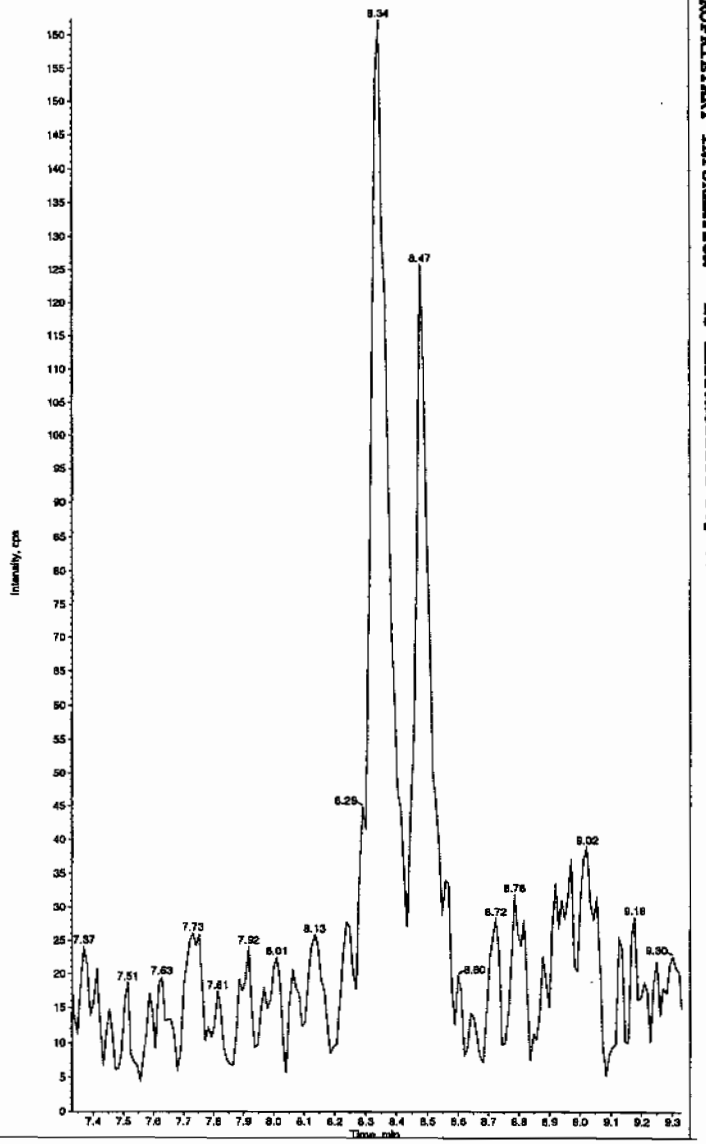
Modified: No



Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS02260029.wiff"
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: 2/26/2010
Acq. Time: 10:13:52 PM

Modified: No



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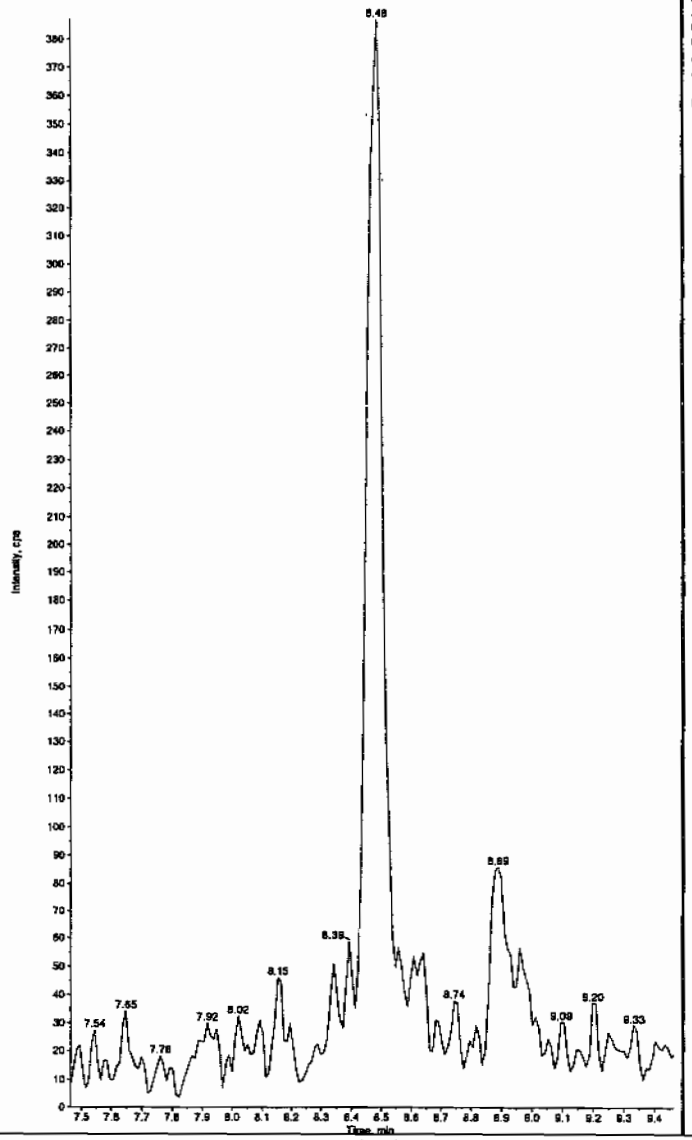
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS02260029.wiff"
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: 2/26/2010
Acq. Time: 10:13:52 PM

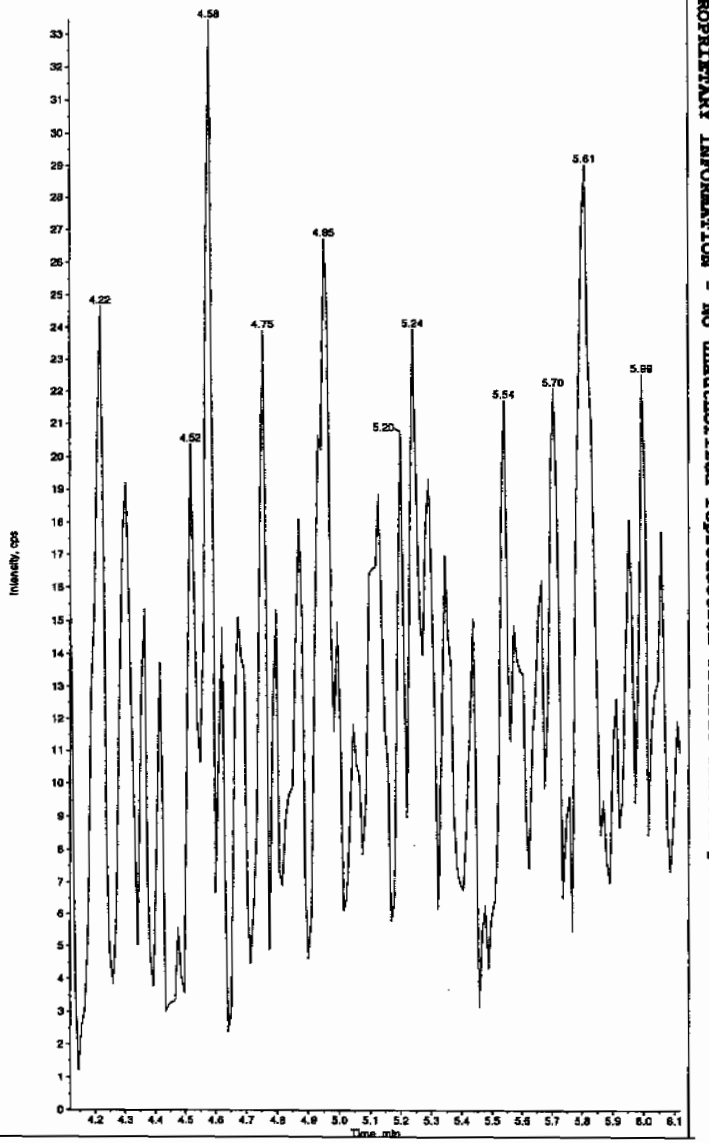
Modified: No



Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS02260029.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 10:13:52 PM

Modified: No

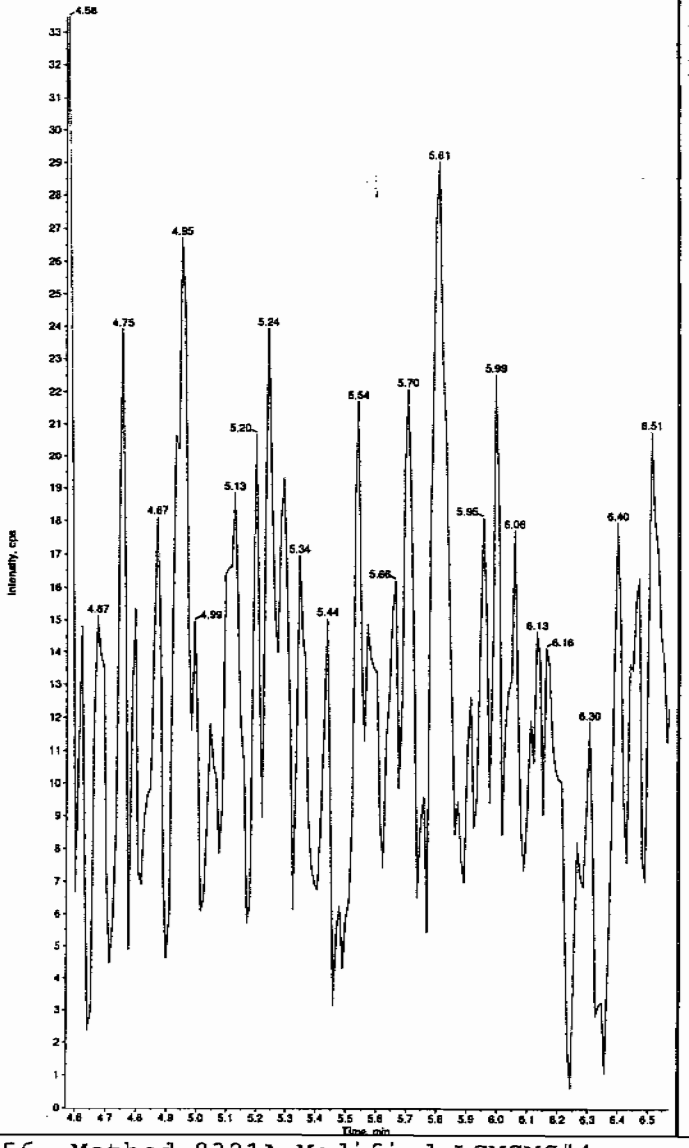


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS02260029.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 10:13:52 PM

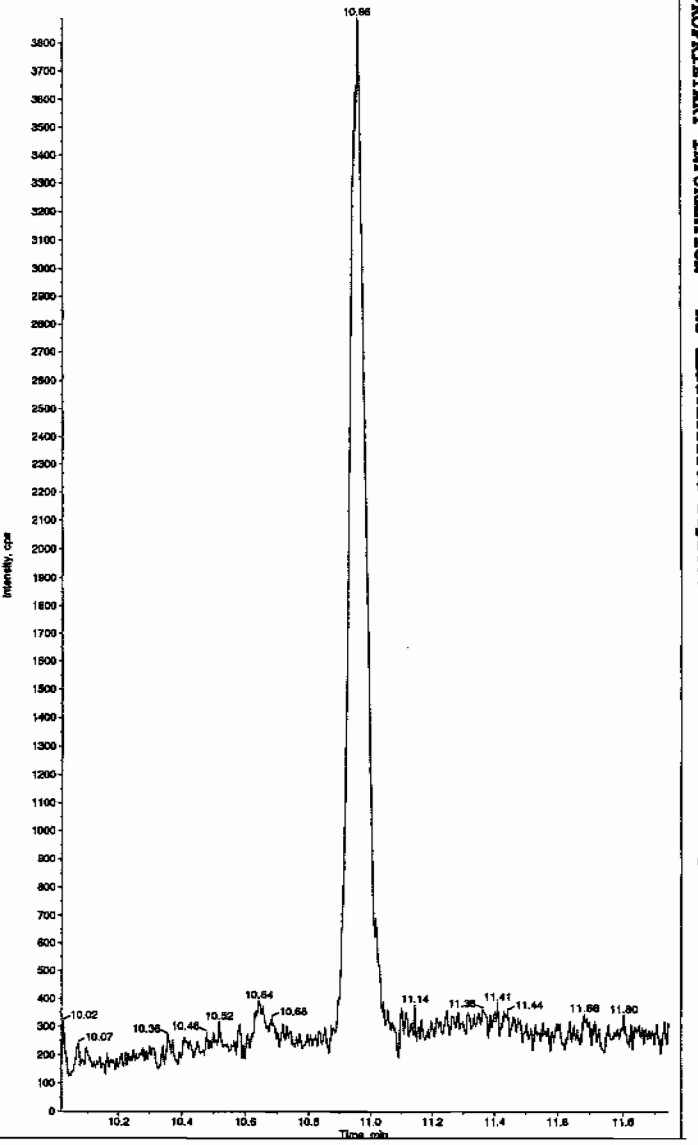
Modified: No



Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS02260029.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 10:13:52 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): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 01–MAR–10 18:45

GEL Data File: EXS03010038.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

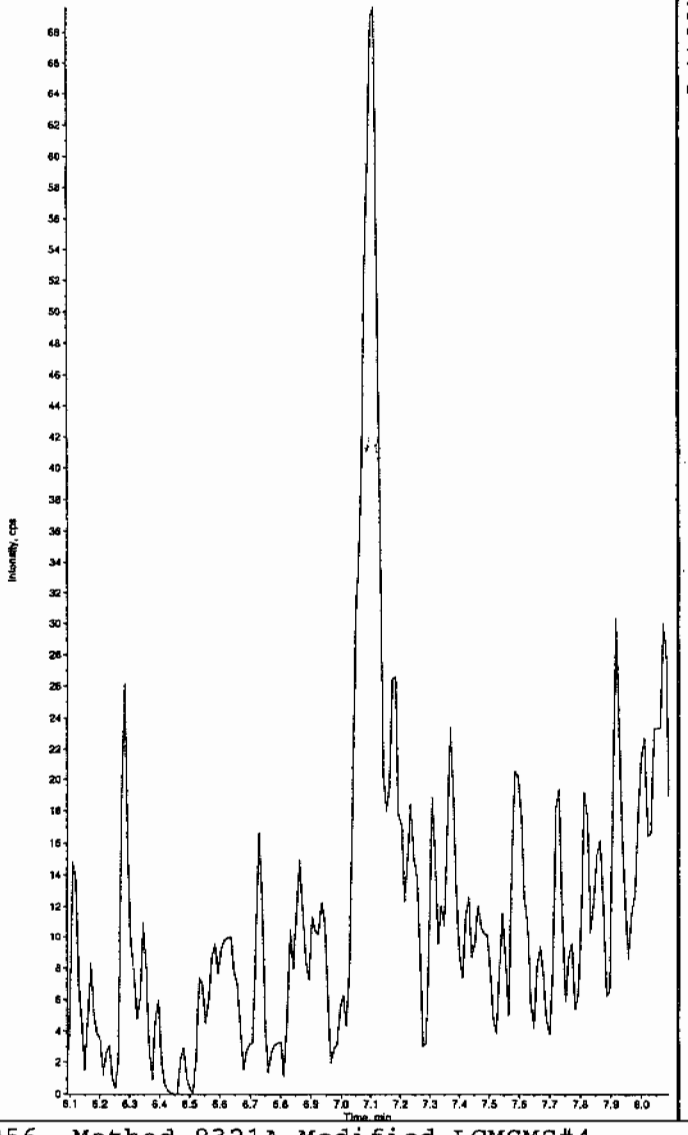
Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	0
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0

Rcu 3/1/10

Sample Name: "XIBLK06" Sample ID: "|1|LER" File: "EXS02260038.wiff"
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: 2/27/2010
Acq. Time: 12:35:18 AM

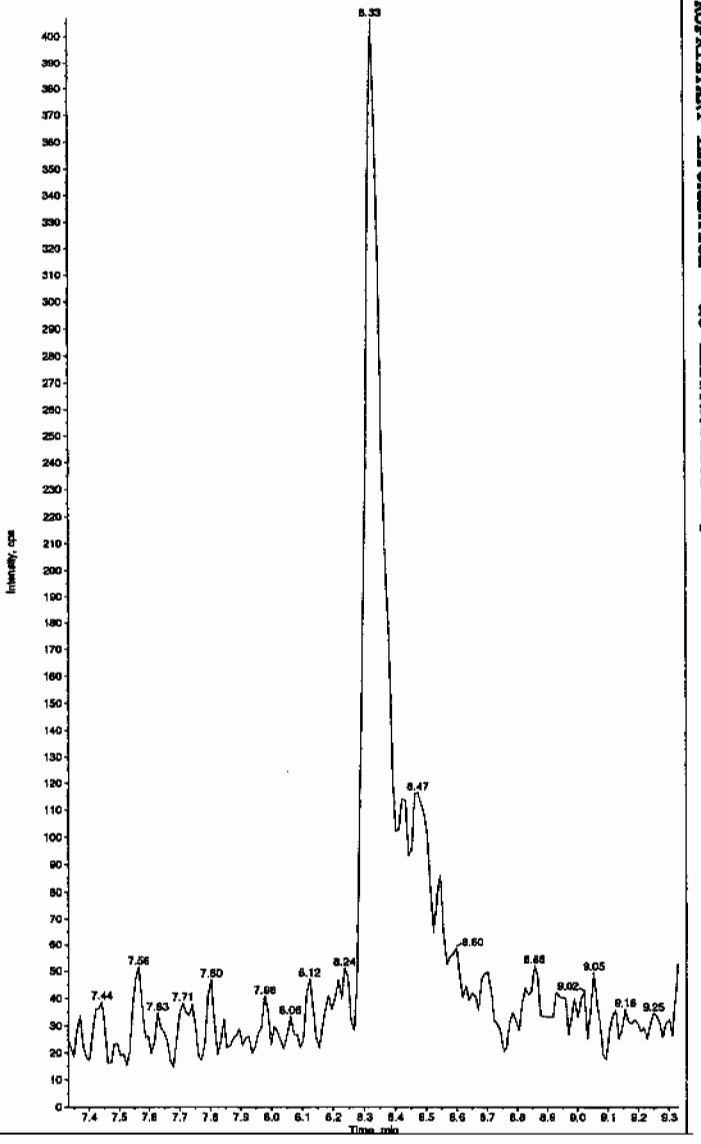
Modified: No



Sample Name: "XIBLK06" Sample ID: "|1|LER" File: "EXS02260038.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:35:18 AM

Modified: No



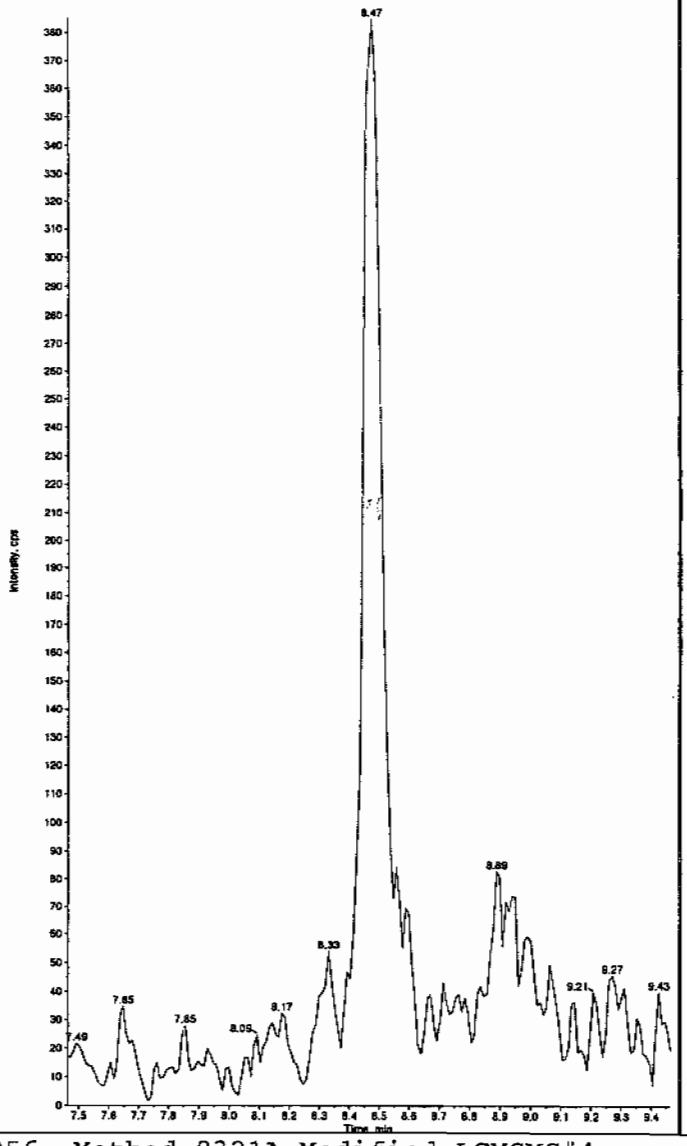
Hnm 03/01/10

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

Sample Name: "XIBLK06" Sample ID: "[1]LER" File: "EXS02260038.wiff"
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: 2/27/2010
Acq. Time: 12:35:18 AM

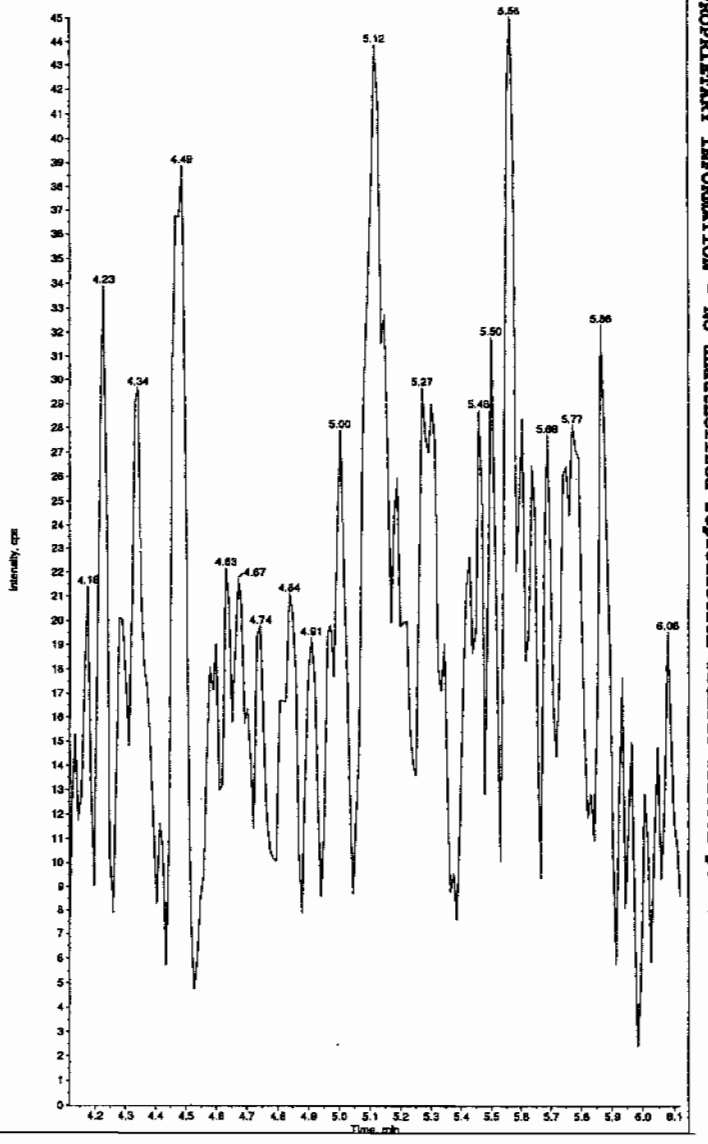
Modified: No



Sample Name: "XIBLK06" Sample ID: "[1]LER" File: "EXS02260038.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:35:18 AM

Modified: No

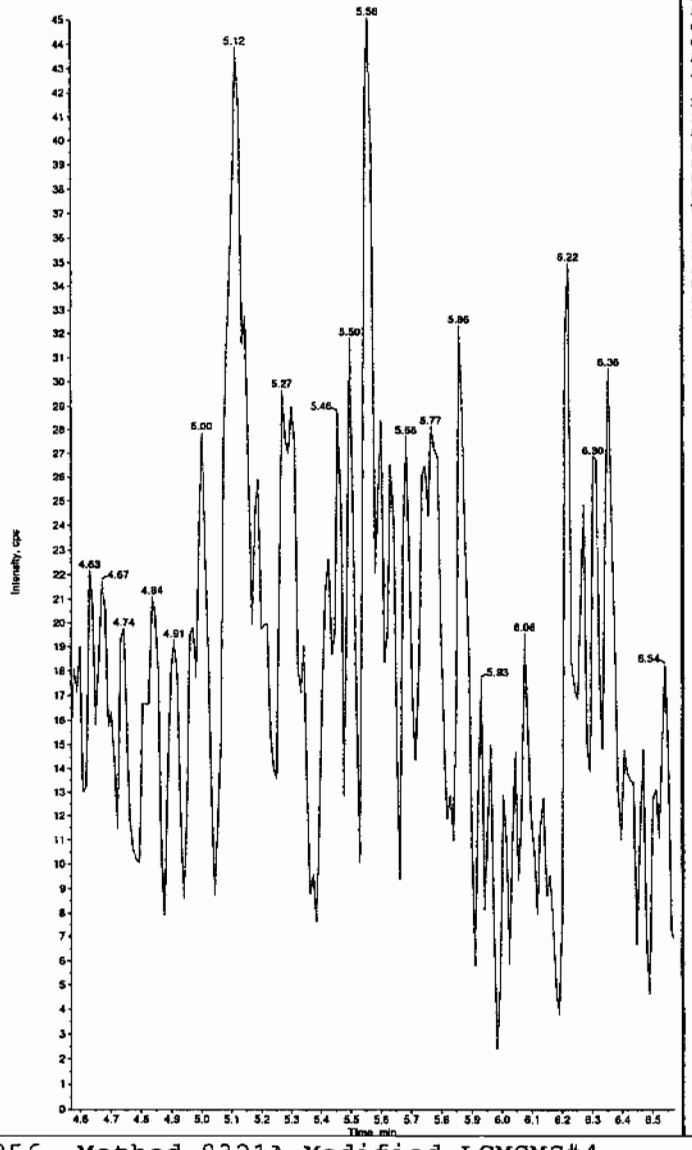


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS02260038.wiff"
Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:35:18 AM

Modified: No

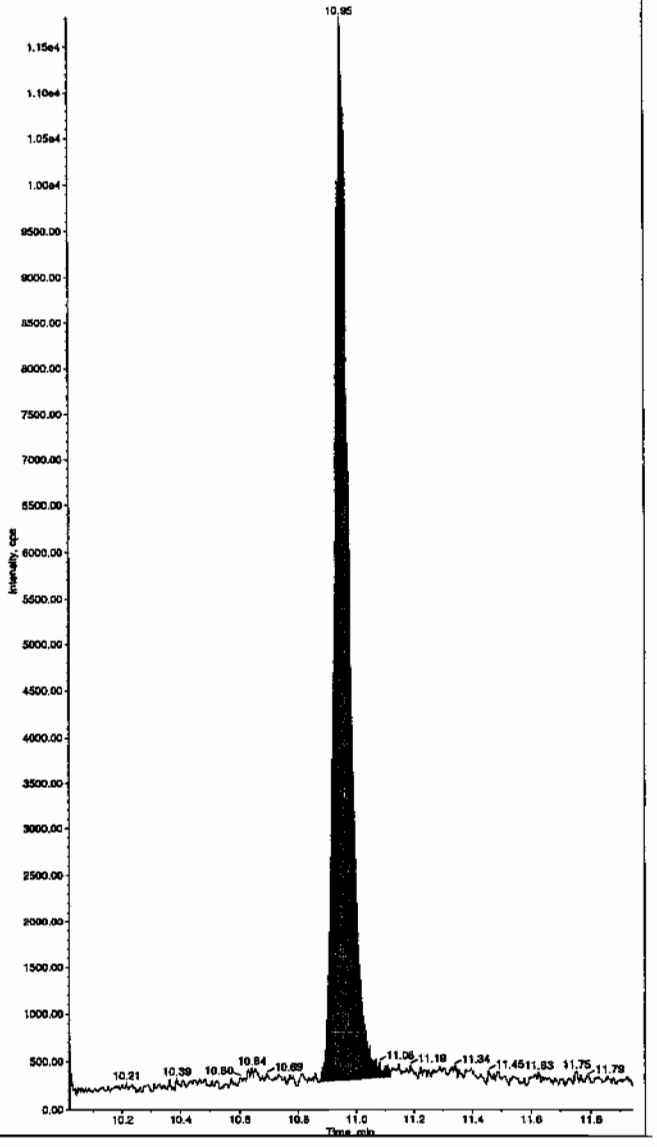


Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS02260038.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/27/2010
Acq. Time: 12:35:18 AM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 6000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 10.0 sec
Expected RT: 10.9 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.9 min
Area: 4.01e+004 counts
Height: 11519.382 cps
Start Time: 10.9 min
End Time: 11.1 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 27-FEB-10 03:59

GEL Data File: EXS02260051.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

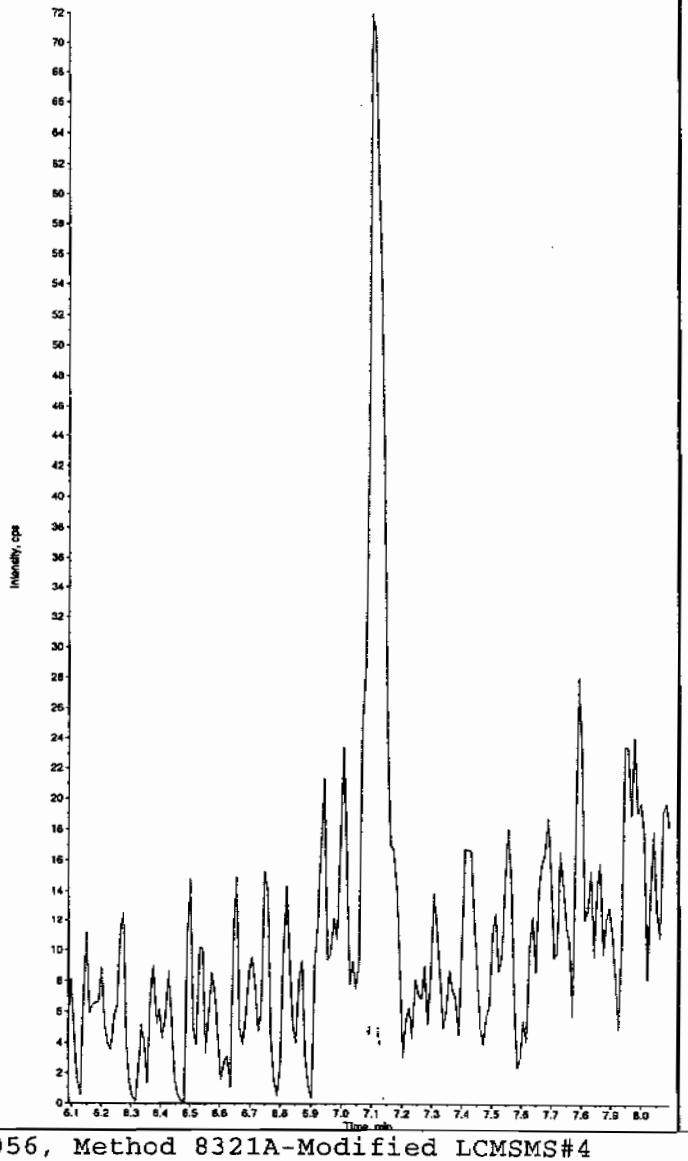
Compound	True	Found (ug/L)
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0

Lan 3/1/10

Sample Name: "XIBLK07" Sample ID: "[1]LER" File: "EXS02260051.wiff"
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: 2/27/2010
Acq. Time: 3:59:27 AM

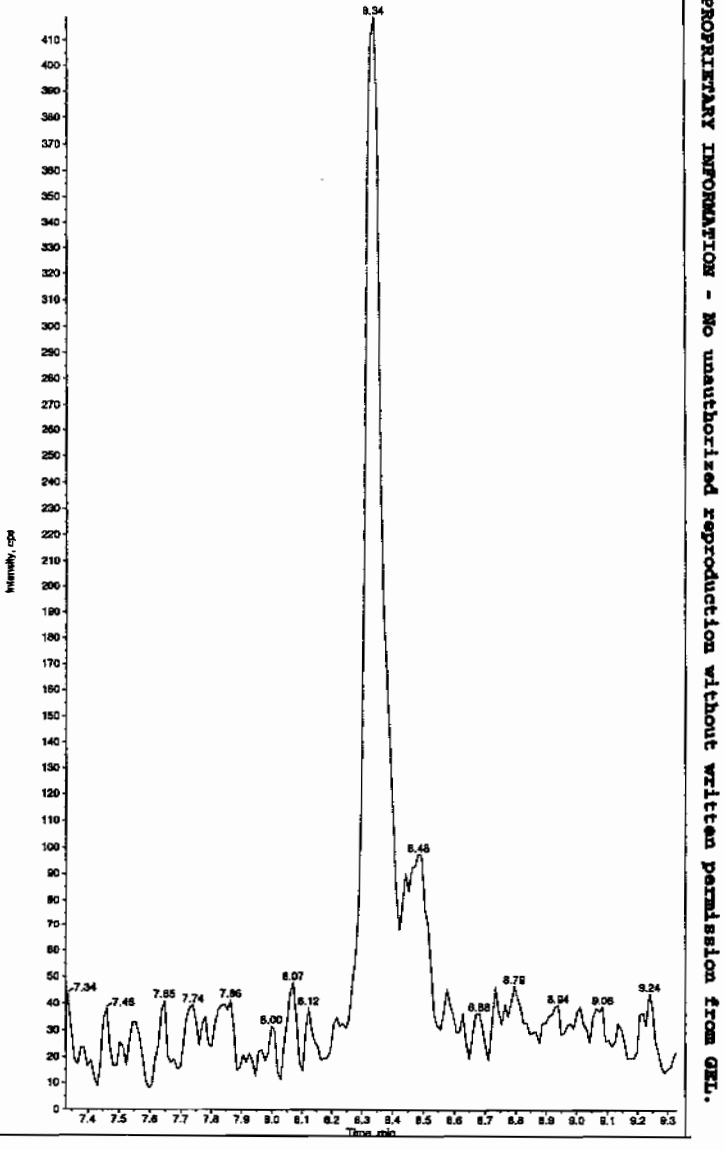
Modified: No



Sample Name: "XIBLK07" Sample ID: "[1]LER" File: "EXS02260051.wiff"
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: 2/27/2010
Acq. Time: 3:59:27 AM

Modified: No



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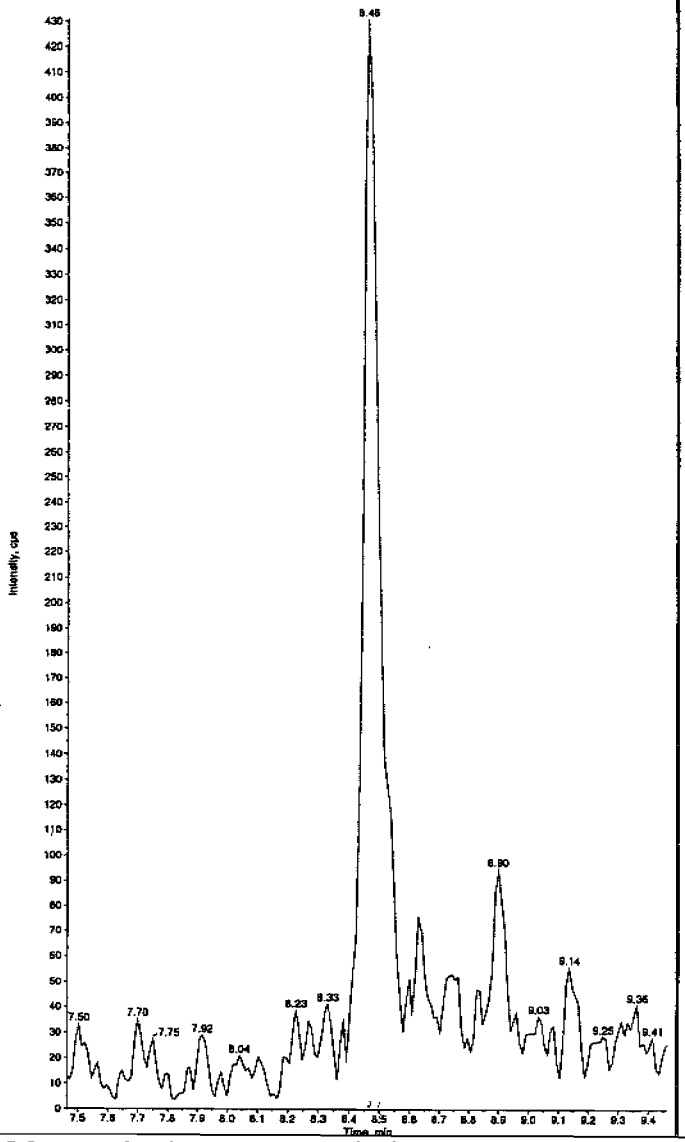
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK07" Sample ID: "[1]LER" File: "EXS02260051.wiff"
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: 2/27/2010
Acq. Time: 3:59:27 AM

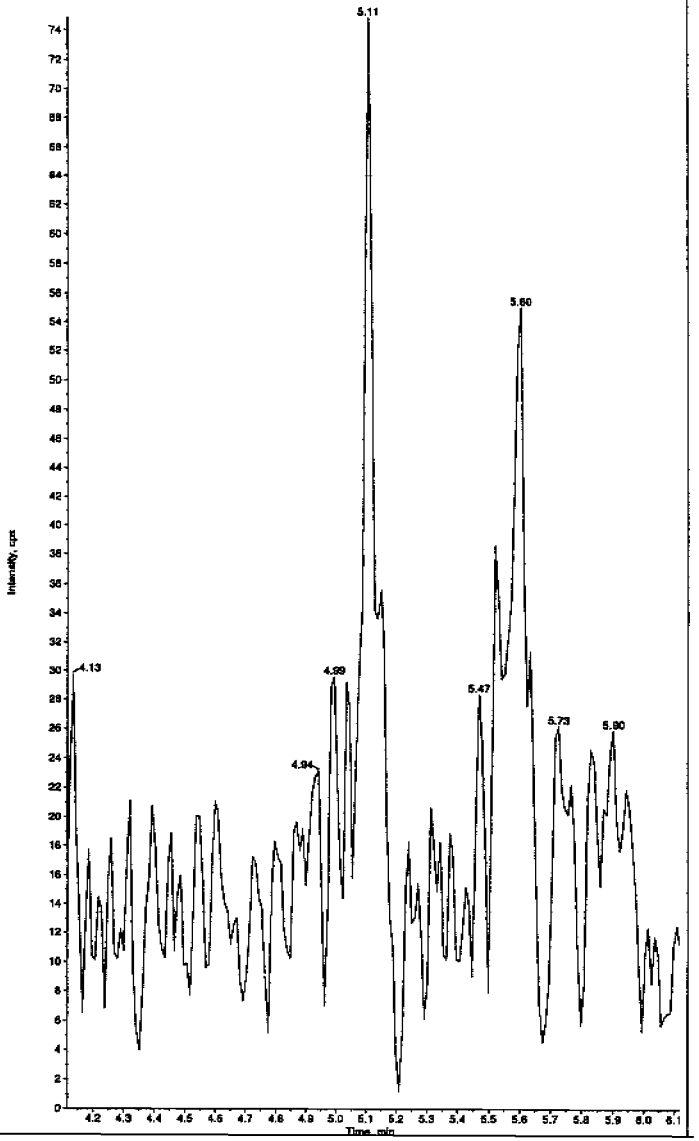
Modified: No



Sample Name: "XIBLK07" Sample ID: "[1]LER" File: "EXS02260051.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 3:59:27 AM

Modified: No

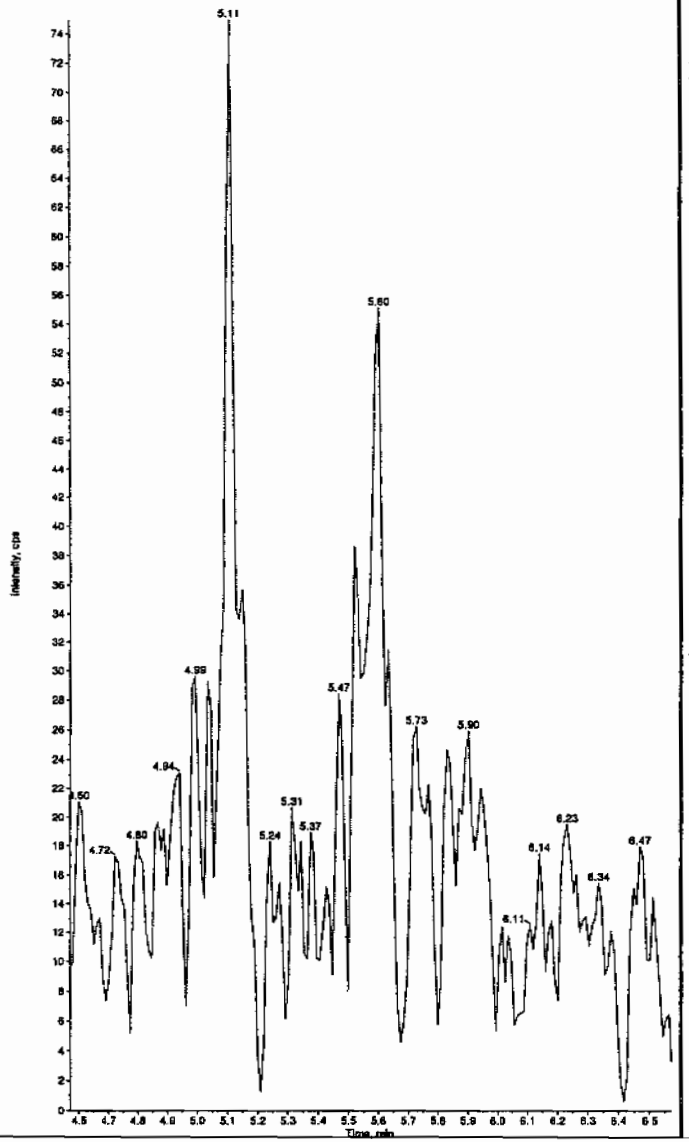


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK07" Sample ID: "[1]LER" File: "EXS02260051.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 3:59:27 AM

Modified: No

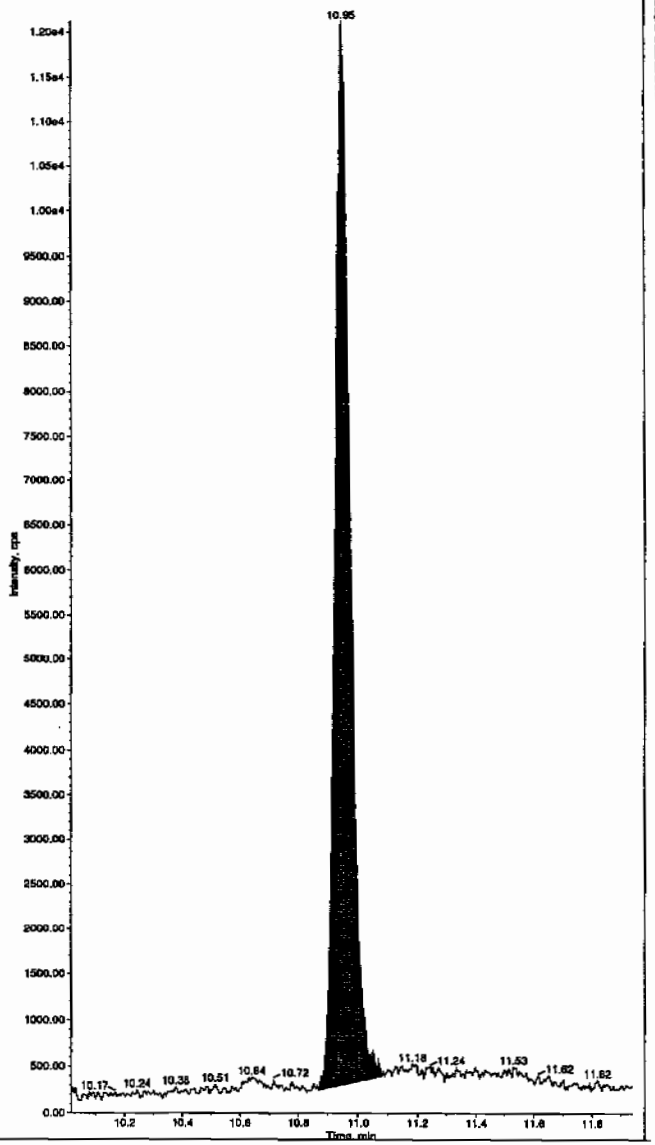


Sample Name: "XIBLK07" Sample ID: "[1]LER" File: "EXS02260051.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/27/2010
Acq. Time: 3:59:27 AM

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: 4.38e+004 counts
Height: 11821.117 cps
Start Time: 10.9 min
End Time: 11.1 min



*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): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 27–FEB–10 06:36

GEL Data File: EXS02260061.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

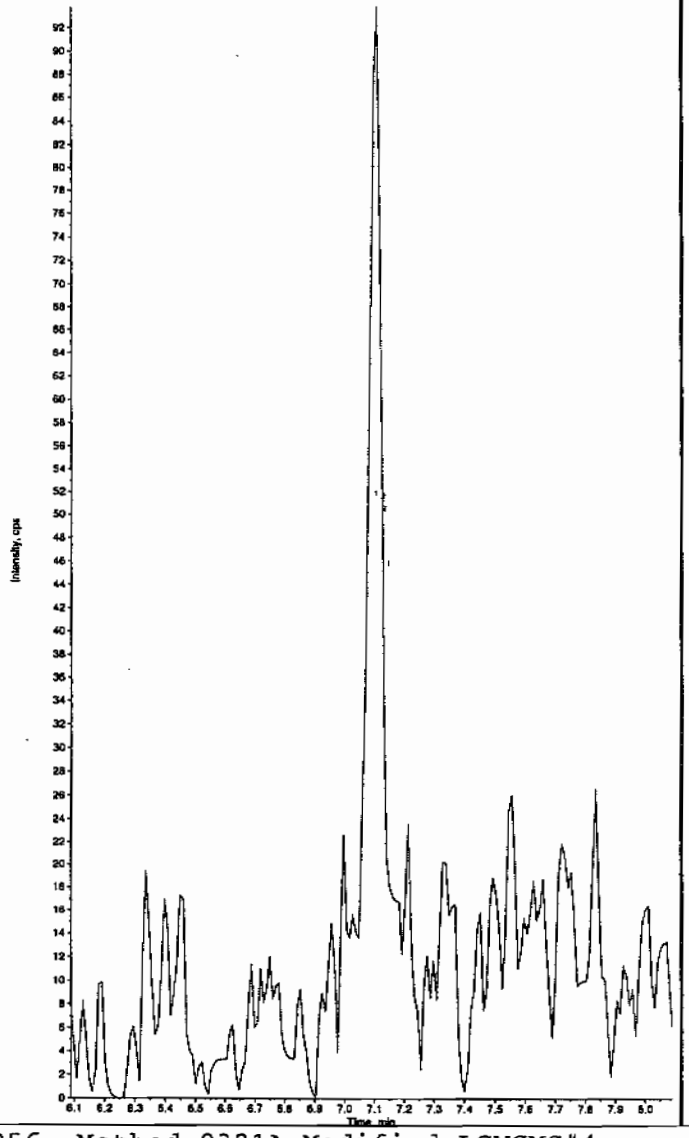
Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	0
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0

Kan 3/1/10

Sample Name: "XIBLK08" Sample ID: "[1]LER" File: "EXS02260061.wiff"
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: 2/27/2010
Acq. Time: 6:36:30 AM

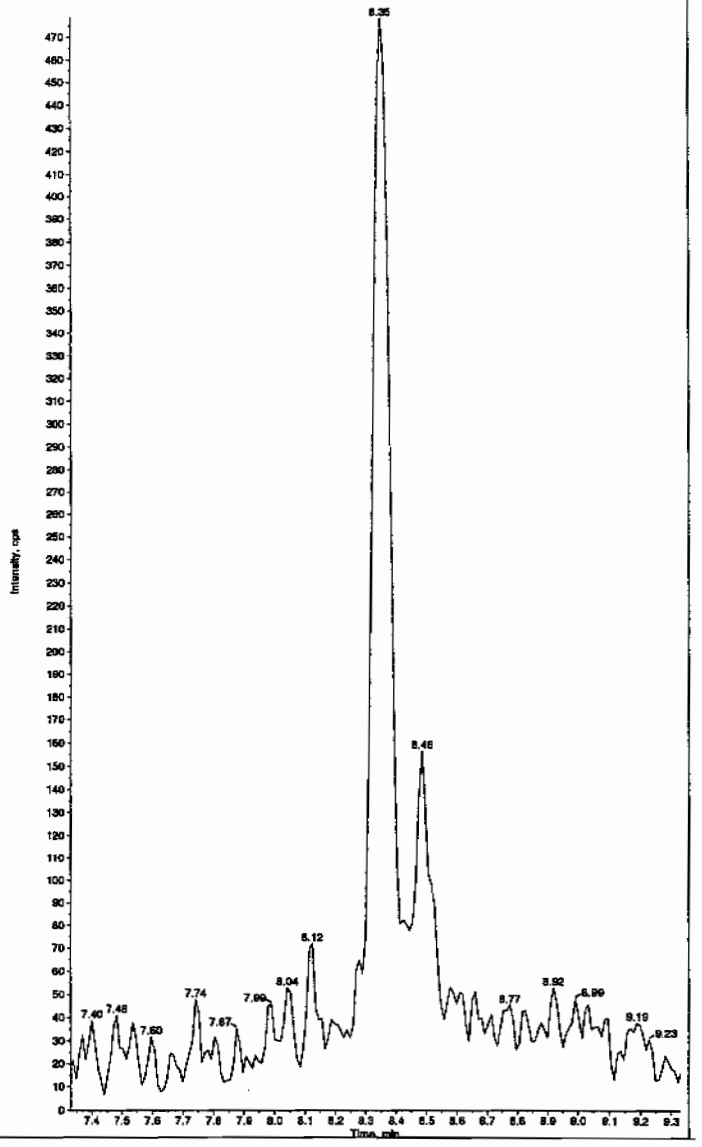
Modified: No



Sample Name: "XIBLK08" Sample ID: "[1]LER" File: "EXS02260061.wiff"
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: 2/27/2010
Acq. Time: 6:36:30 AM

Modified: No



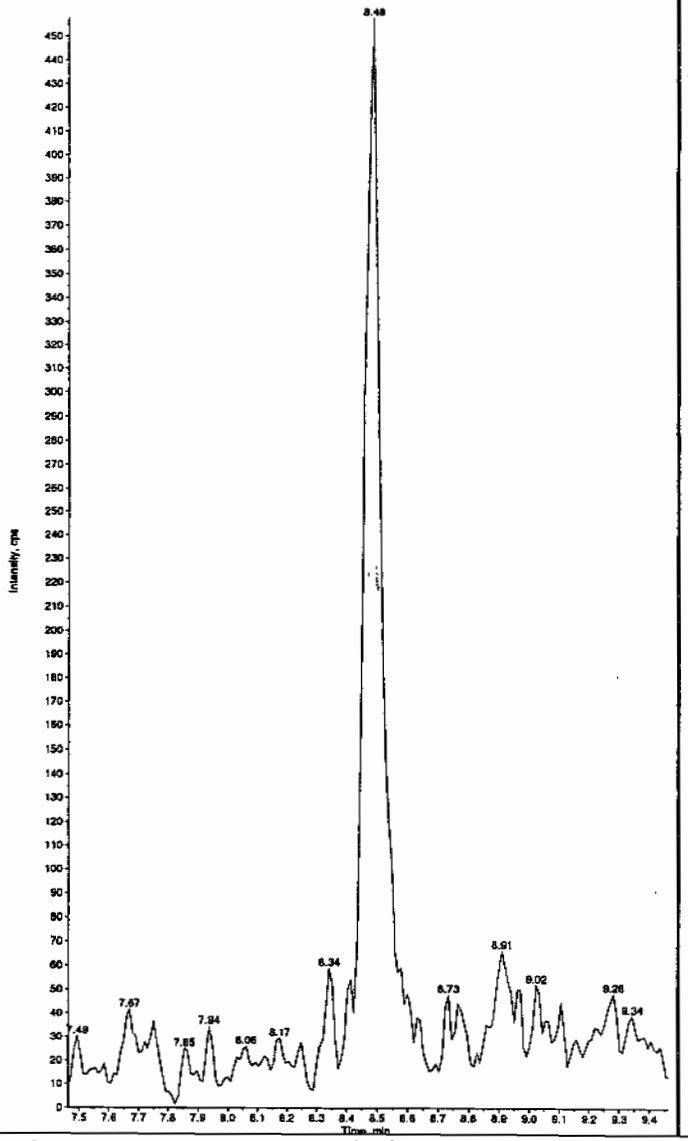
dhm 03/01/10

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

Sample Name: "XIBLK08" Sample ID: "[1]LER" File: "EXS02250061.wiff"
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: 2/27/2010
Acq. Time: 6:36:30 AM

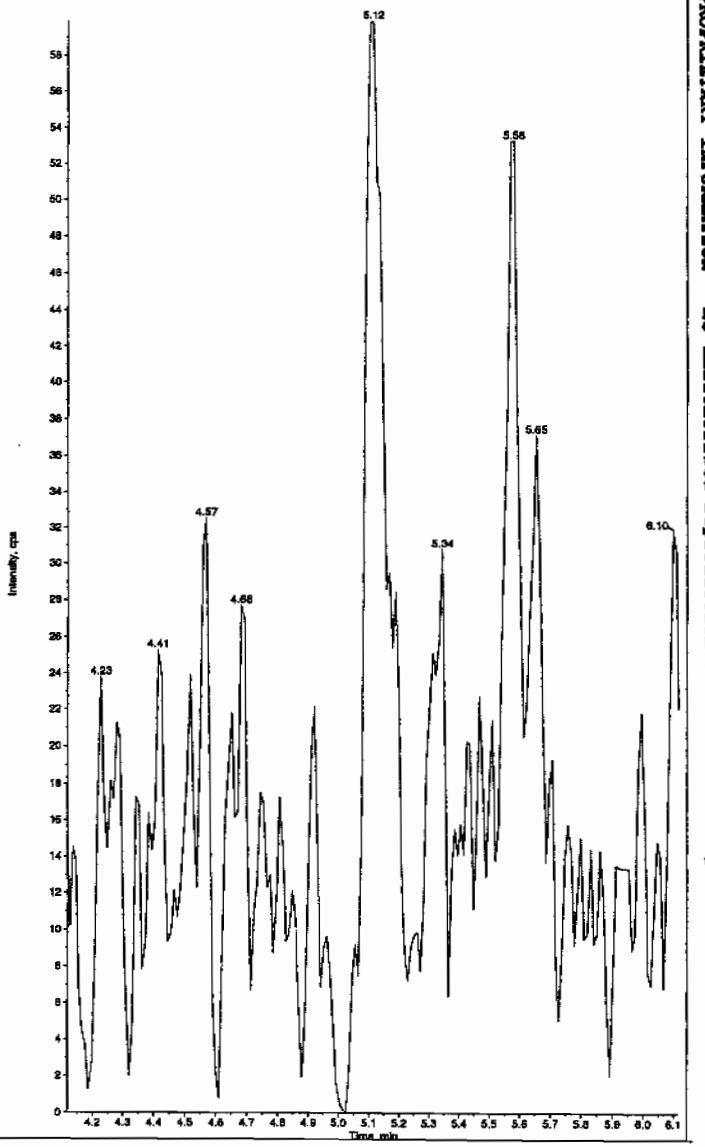
Modified: No



Sample Name: "XIBLK08" Sample ID: "[1]LER" File: "EXS02250061.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:36:30 AM

Modified: No

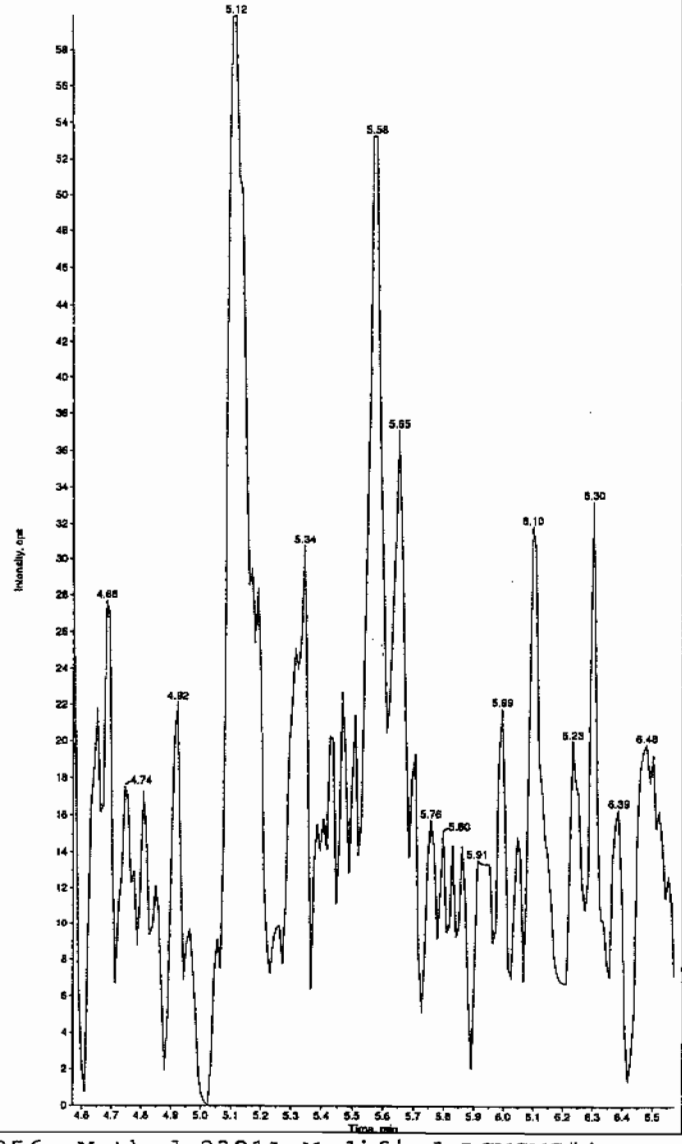


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK08" Sample ID: "[1]LER" File: "EXS02260061.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_6" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:36:30 AM

Modified: No

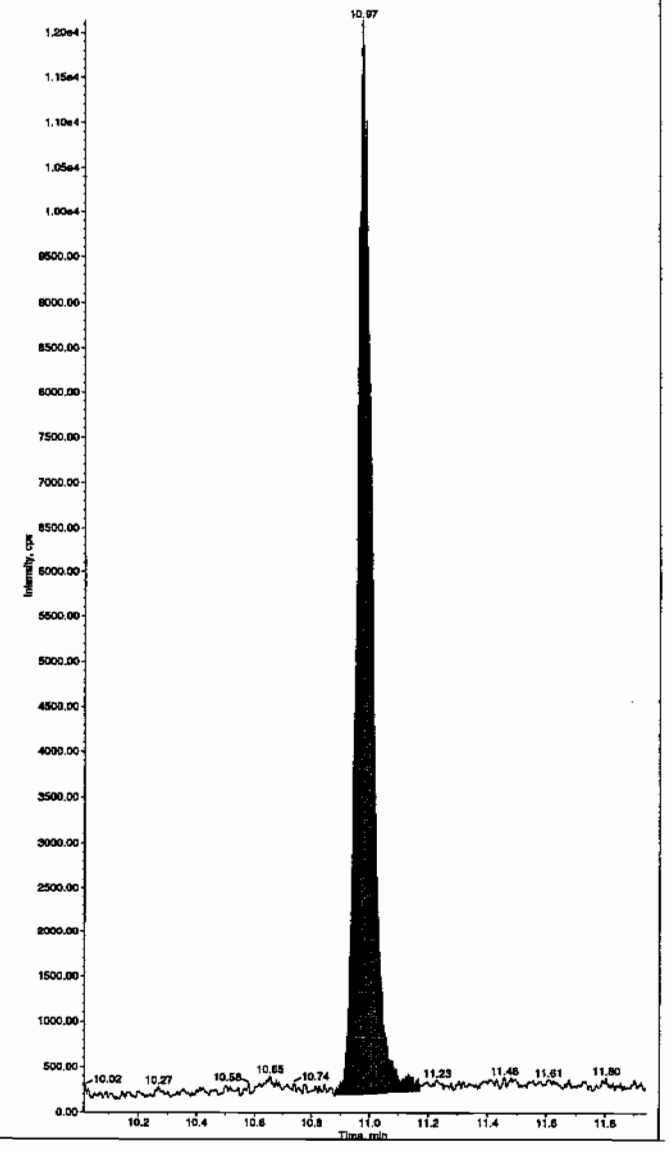


Sample Name: "XIBLK08" Sample ID: "[1]LER" File: "EXS02260061.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_6" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/27/2010
Acq. Time: 6:36:30 AM

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: 11.0 min
Area: 4.34e+004 counts
Height: 11941.468 cps
Start Time: 10.9 min
End Time: 11.2 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 27-FEB-10 10:00

GEL Data File: EXS02260074.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

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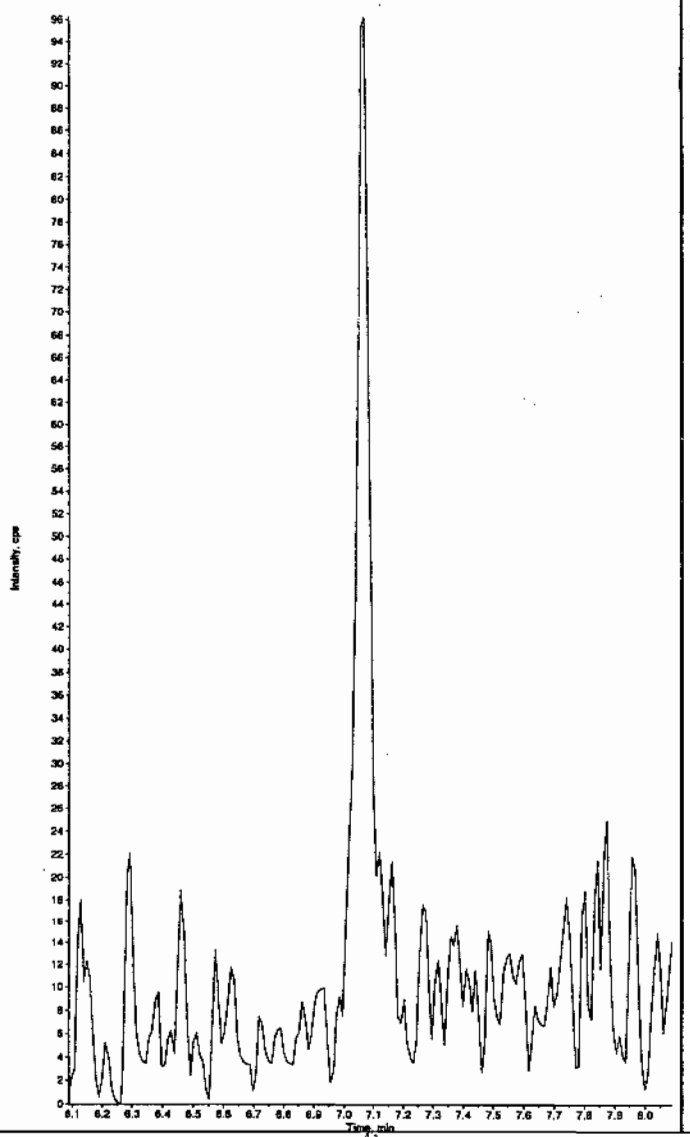
Sample Name: "XIBLK09" Sample ID: "1|LER" File: "EXS02260074.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:00:38 AM

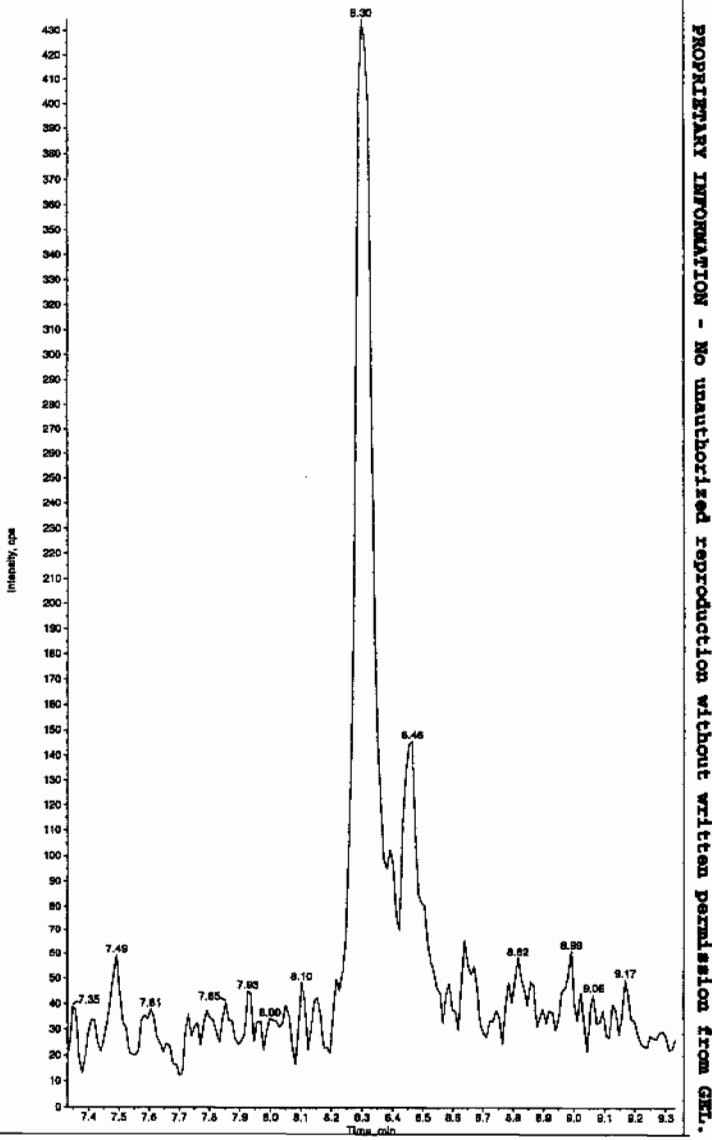
Modified: No



Sample Name: "XIBLK09" Sample ID: "1|LER" File: "EXS02260074.wiff"
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: 2/27/2010
Acq. Time: 10:00:38 AM

Modified: No



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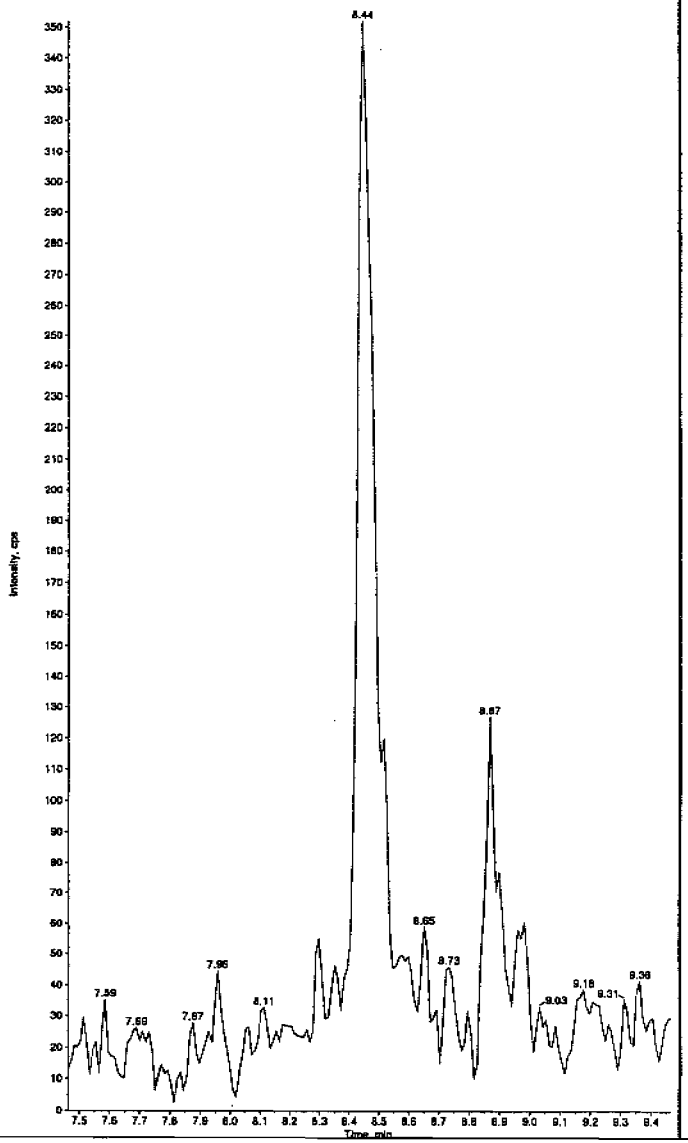
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK09" Sample ID: "[1]LER" File: "EXS02260074.wiff"
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: 2/27/2010
Acq. Time: 10:00:38 AM

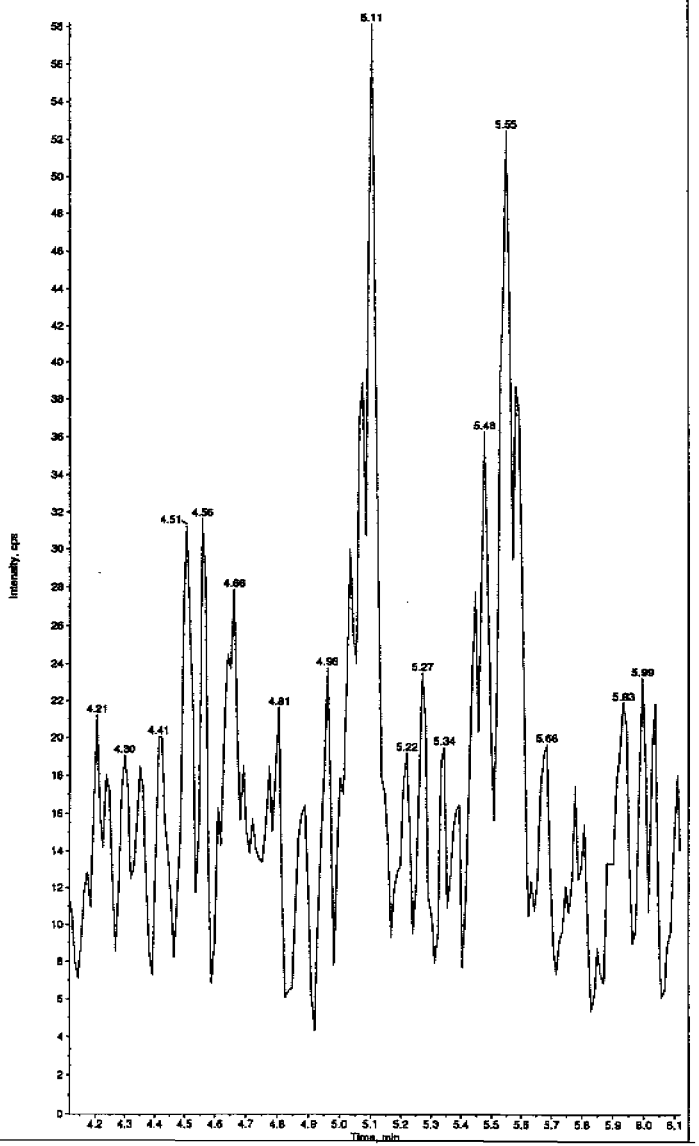
Modified: No



Sample Name: "XIBLK09" Sample ID: "[1]LER" File: "EXS02260074.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:00:38 AM

Modified: No

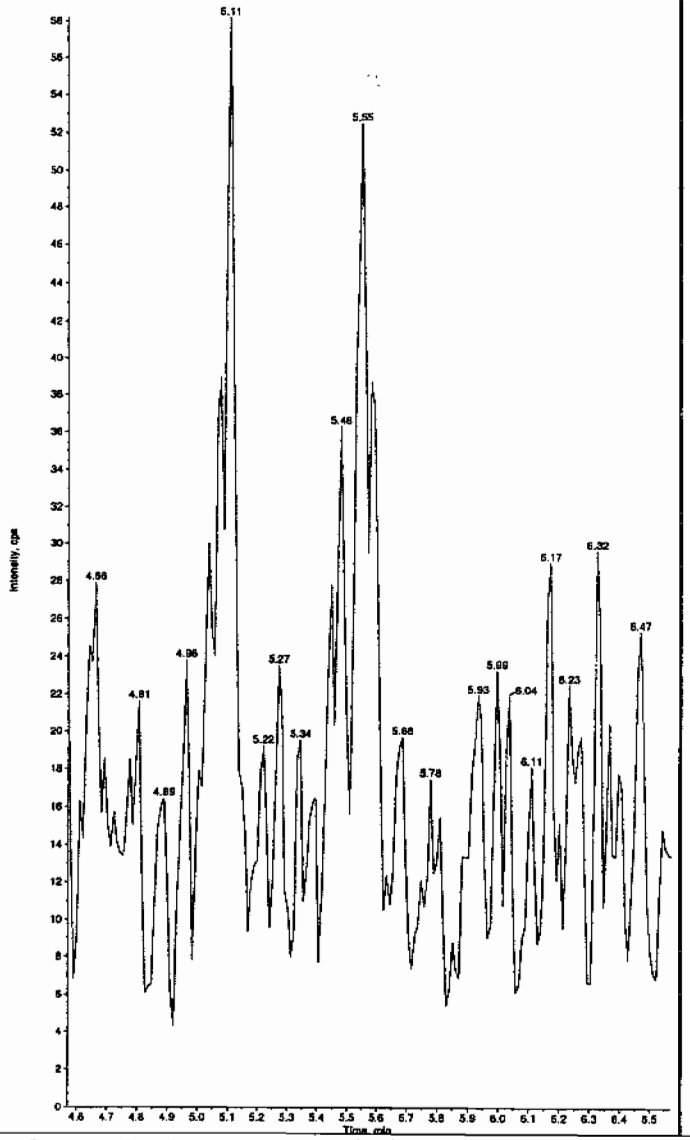


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK09" Sample ID: "[1]LER" File: "EXS02260074.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.0/45.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:00:38 AM

Modified: No

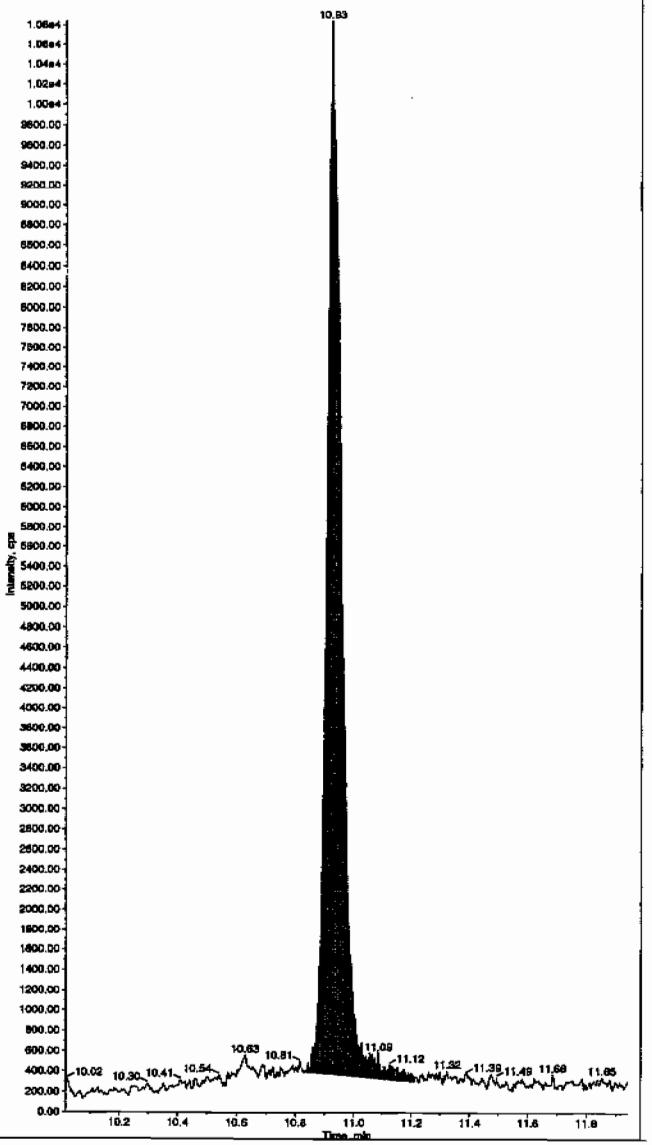


Sample Name: "XIBLK09" Sample ID: "[1]LER" File: "EXS02260074.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/27/2010
Acq. Time: 10:00:38 AM

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: 3.92e+004 counts
Height: 10472.759 cps
Start Time: 10.8 min
End Time: 11.2 min



*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): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 27–FEB–10 13:24

GEL Data File: EXS02260087.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

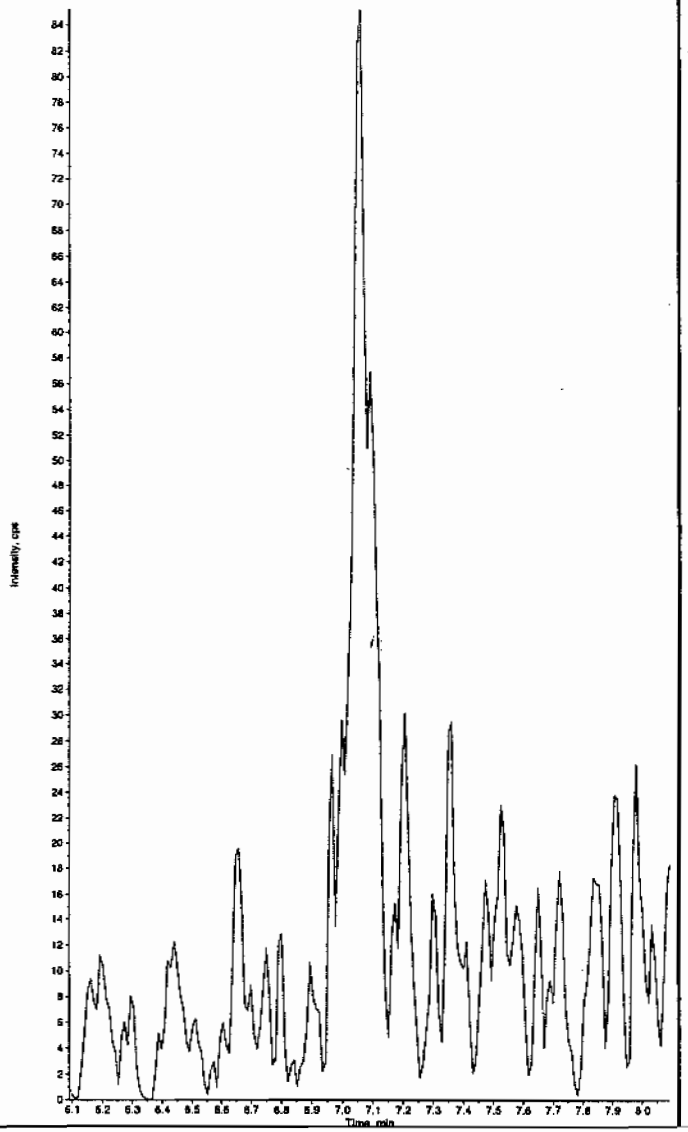
Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	0
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0

Ken 3/1/10

Sample Name: "XIBLK10" Sample ID: "|1|LER" File: "EXS02260087.wiff"
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: 2/27/2010
Acq. Time: 1:24:47 PM

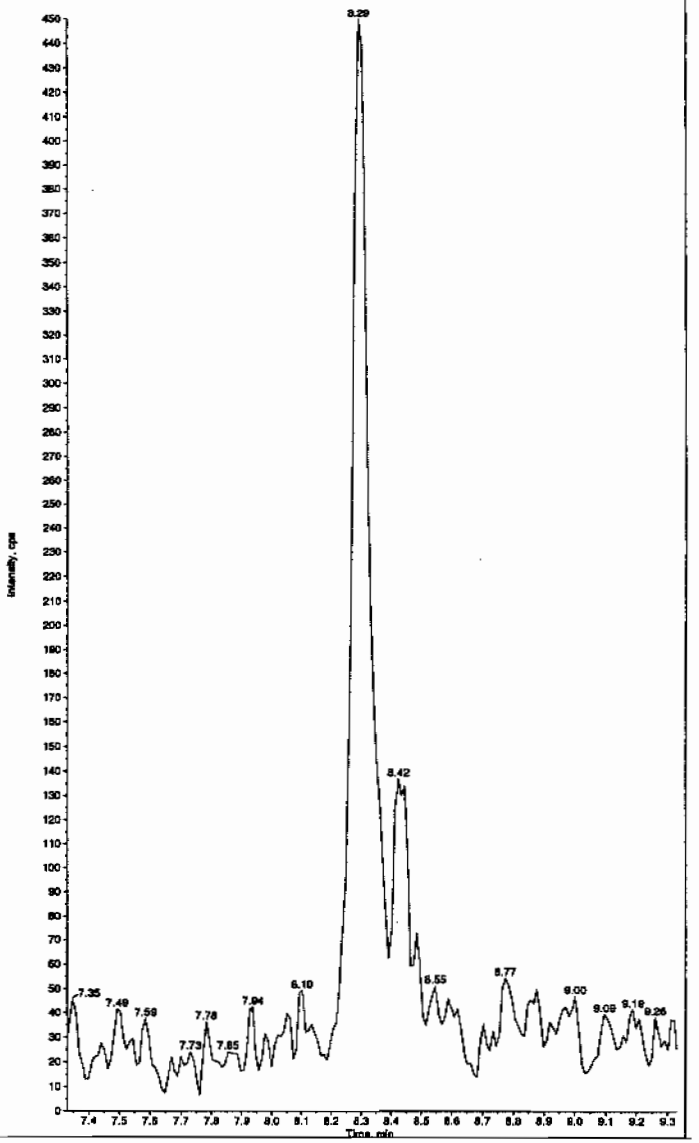
Modified: No



Sample Name: "XIBLK10" Sample ID: "|1|LER" File: "EXS02260087.wiff"
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: 2/27/2010
Acq. Time: 1:24:47 PM

Modified: No



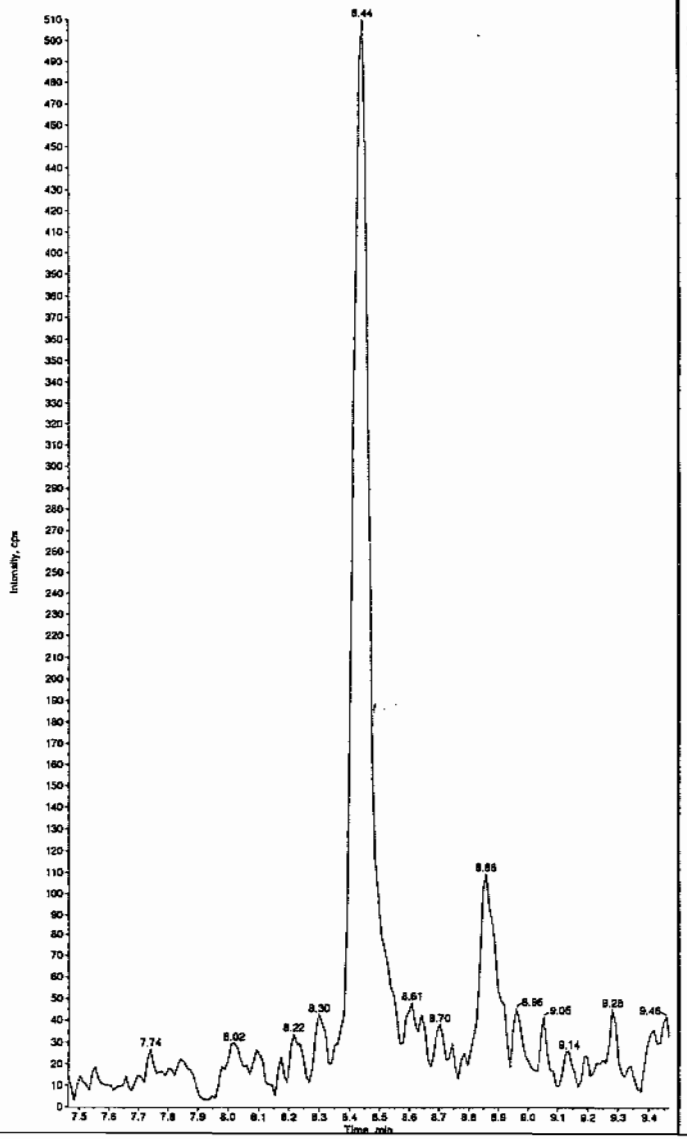
dhm 03/01/10

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

Sample Name: "XIBLK10" Sample ID: "1|1|LER" File: "EXS02260087.wiff"
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: 2/27/2010
Acq. Time: 1:24:47 PM

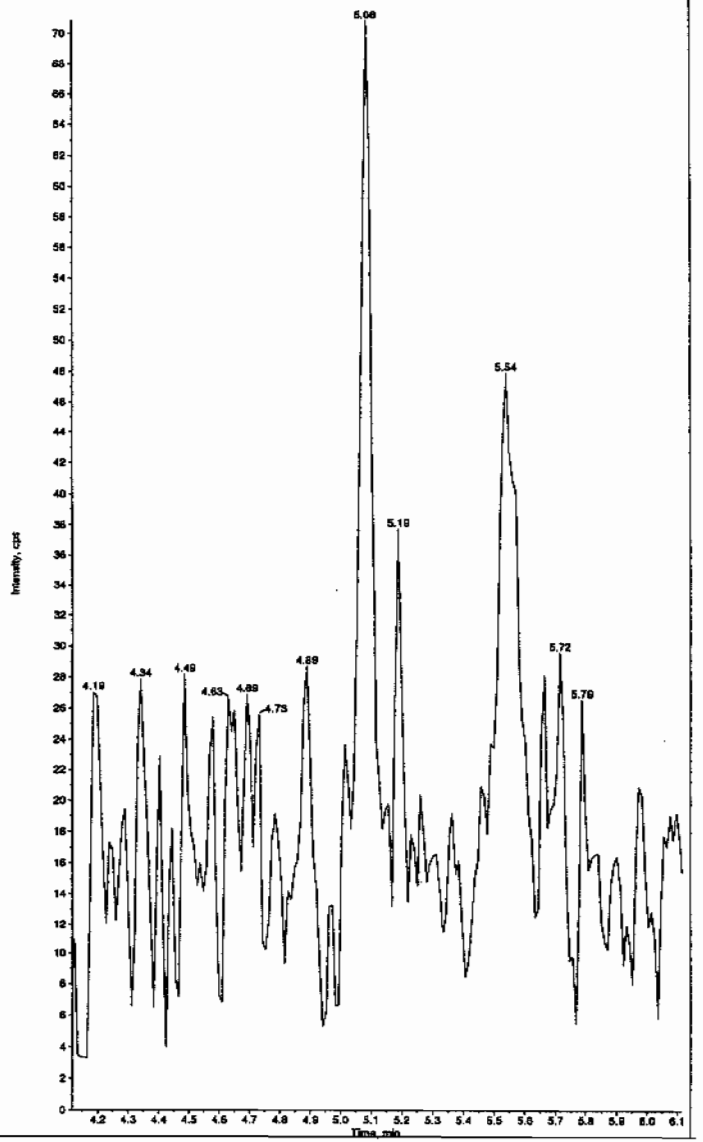
Modified: No



Sample Name: "XIBLK10" Sample ID: "1|1|LER" File: "EXS02260087.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:24:47 PM

Modified: No

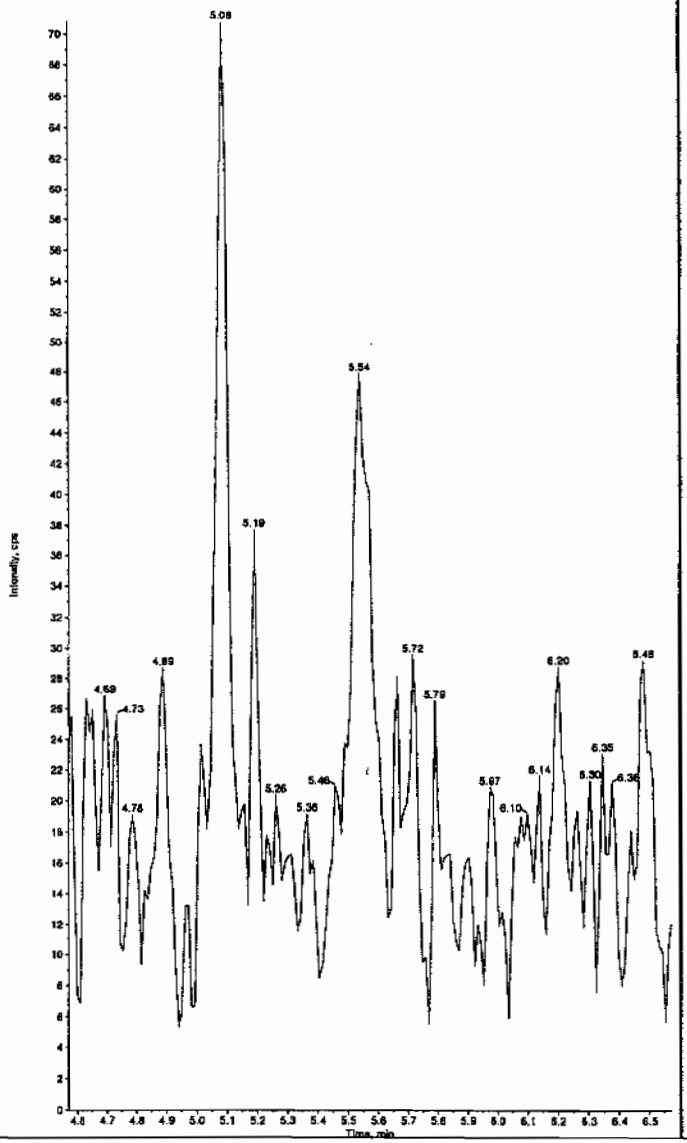


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK10" Sample ID: "[1]LER" File: "EXS02260087.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:24:47 PM

Modified: No

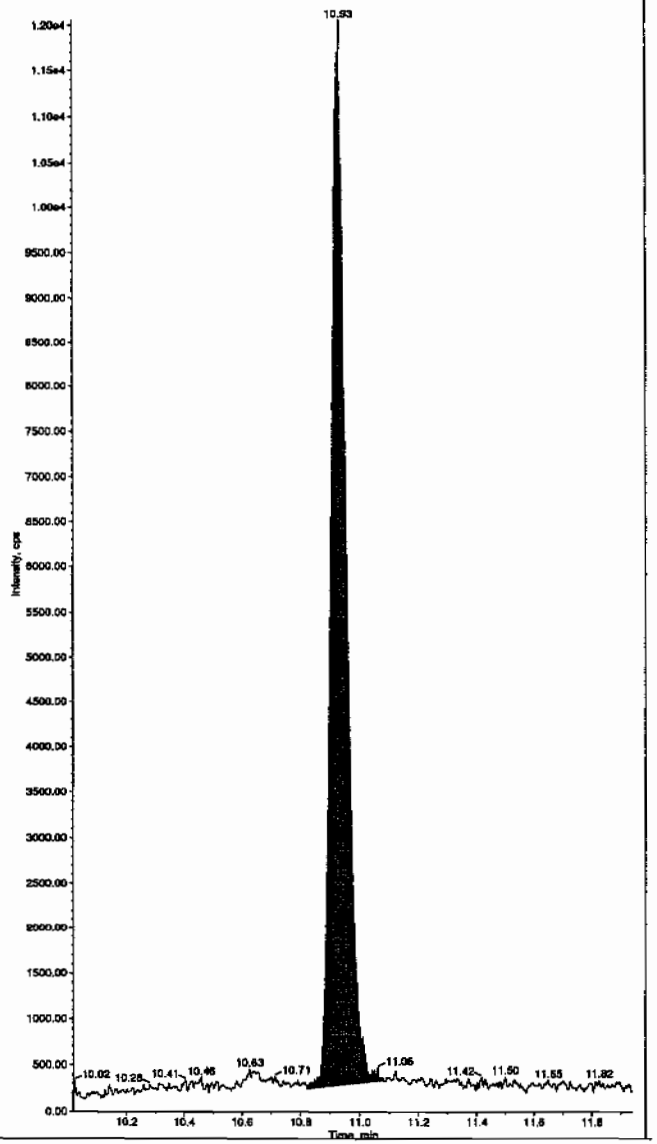


Sample Name: "XIBLK10" Sample ID: "[1]LER" File: "EXS02260087.wiff"
Peak Name: "Iris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/27/2010
Acq. Time: 1:24:47 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: 4.23e+004 counts
Height: 11775.695 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 27-FEB-10 14:43

GEL Data File: EXS02260092.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

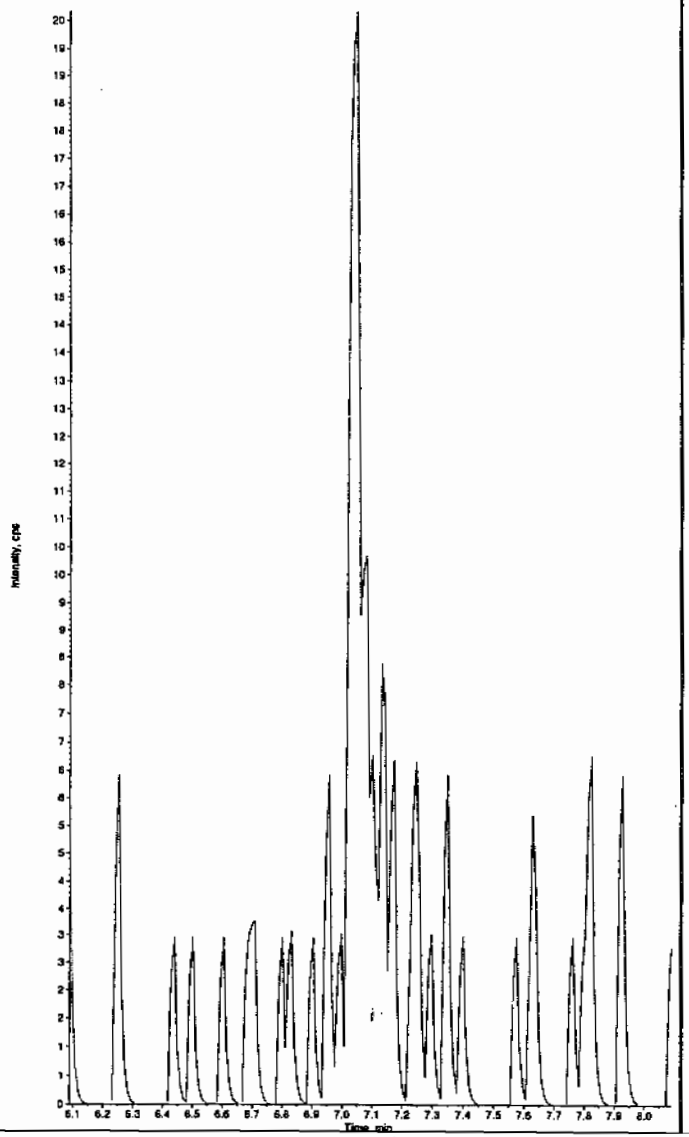
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Ker 3/1/10

Sample Name: "XIBLK11" Sample ID: "|1|LER" File: "EXS02260092.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_6" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 2:43:18 PM

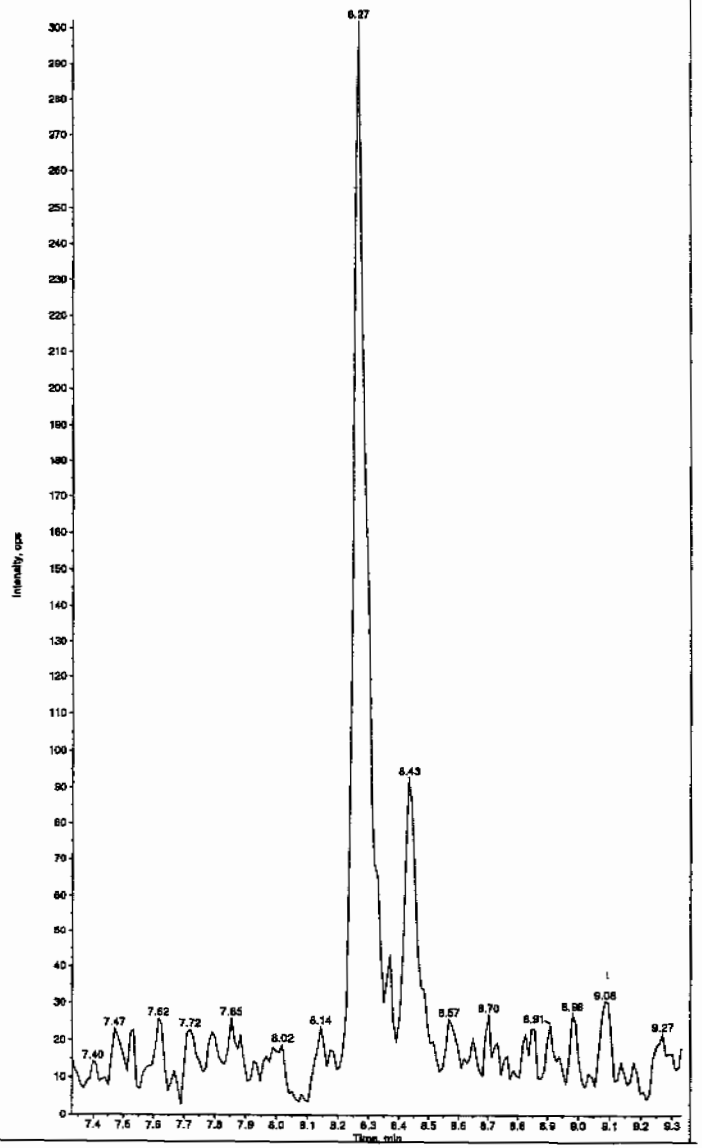
Modified: No



Sample Name: "XIBLK11" Sample ID: "|1|LER" File: "EXS02260092.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_6" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 2:43:18 PM

Modified: No



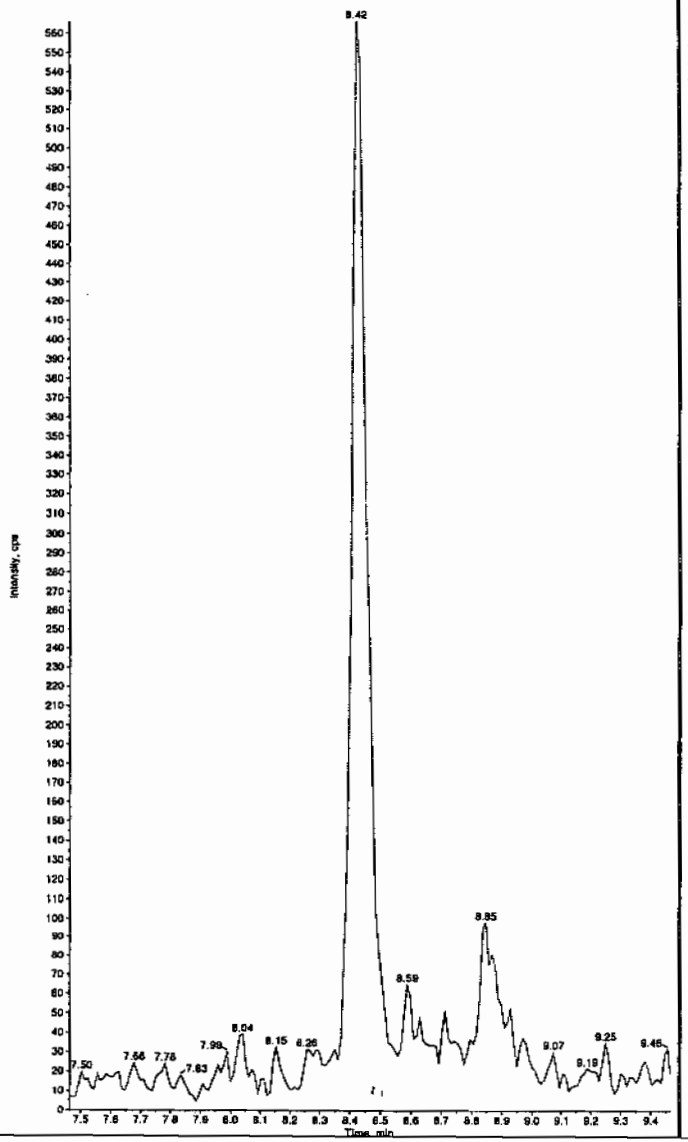
Hmm 03/01/10

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

Sample Name: "XIBLK11" Sample ID: "|1|LER" File: "EXS02260092.wiff"
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: 2/27/2010
Acq. Time: 2:43:18 PM

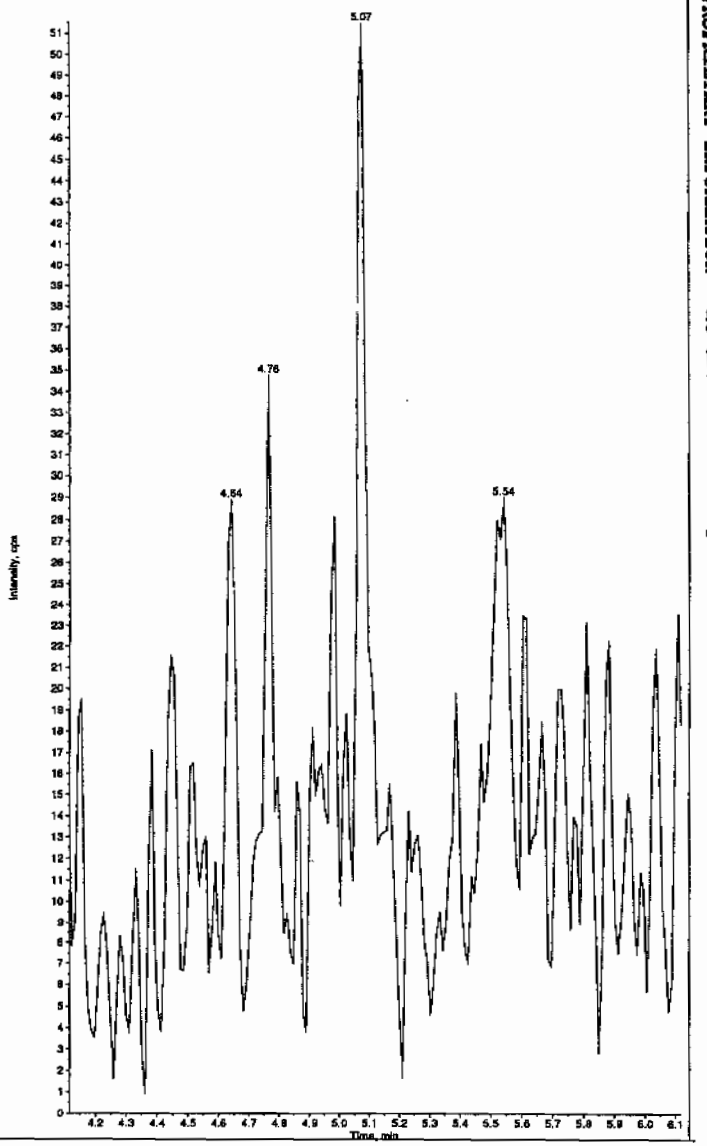
Modified: No



Sample Name: "XIBLK11" Sample ID: "|1|LER" File: "EXS02260092.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 2:43:18 PM

Modified: No

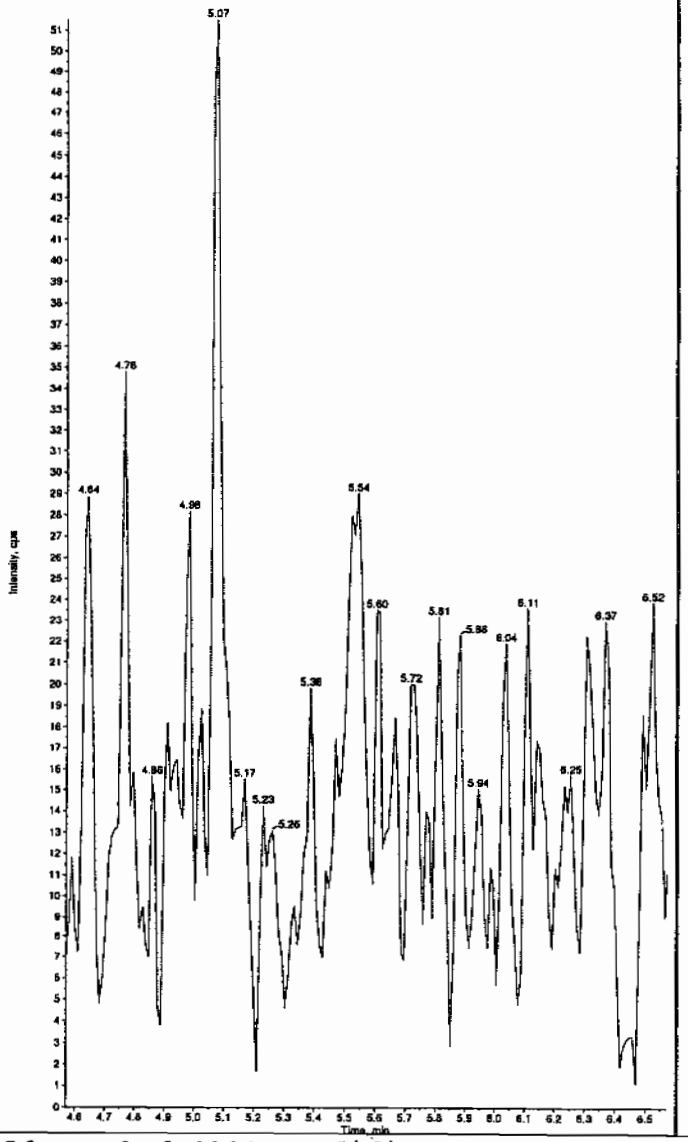


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK11" Sample ID: "[1]LER" File: "EXS02260092.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 2:43:18 PM

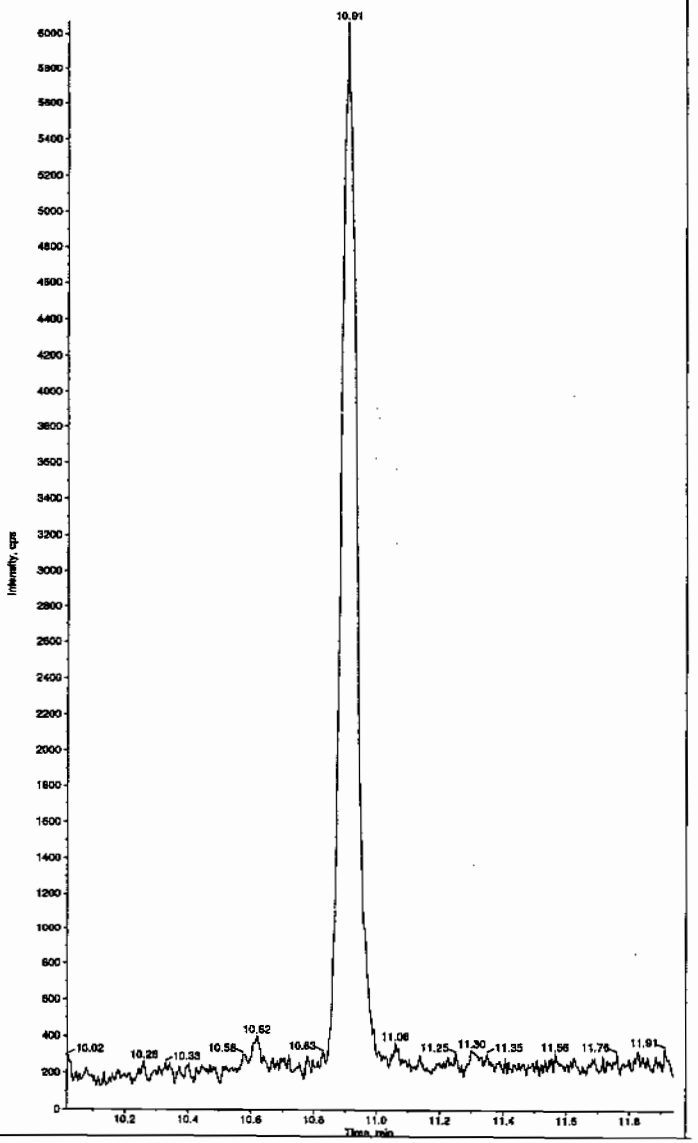
Modified: No



Sample Name: "XIBLK11" Sample ID: "[1]LER" File: "EXS02260092.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 2:43:18 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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 27-FEB-10 16:48

GEL Data File: EXS02260100.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

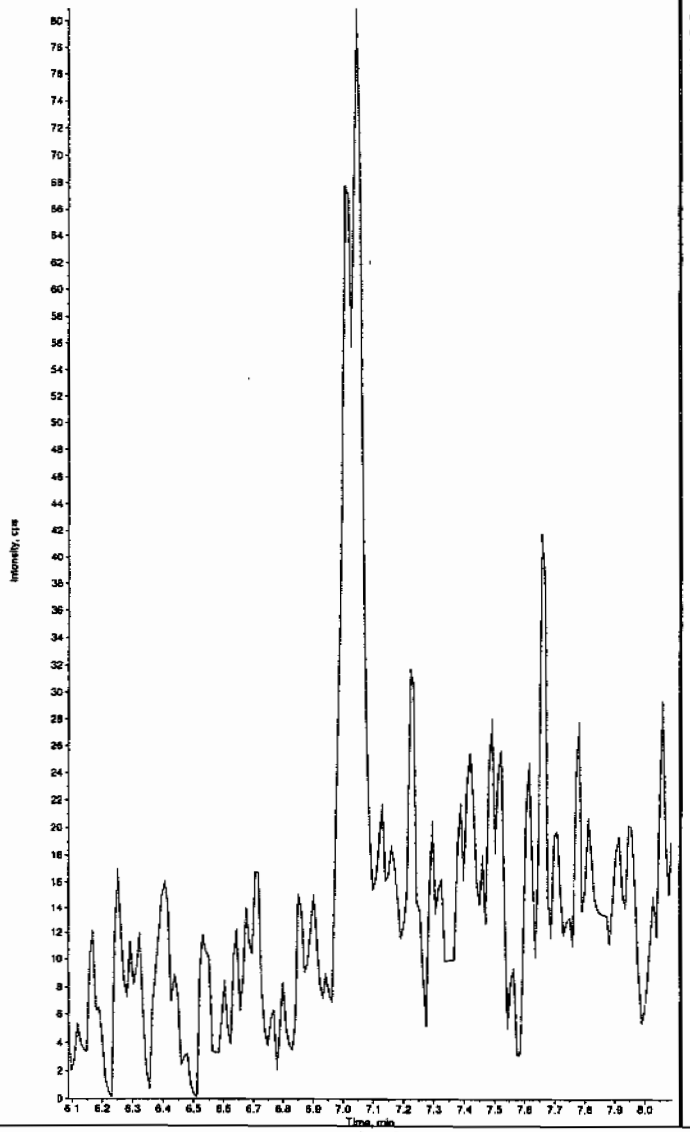
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Ran 3/1/10

Sample Name: "XIBLK12" Sample ID: "|1|LER" File: "EXS02260100.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: 2/27/2010
Acq. Time: 4:48:50 PM

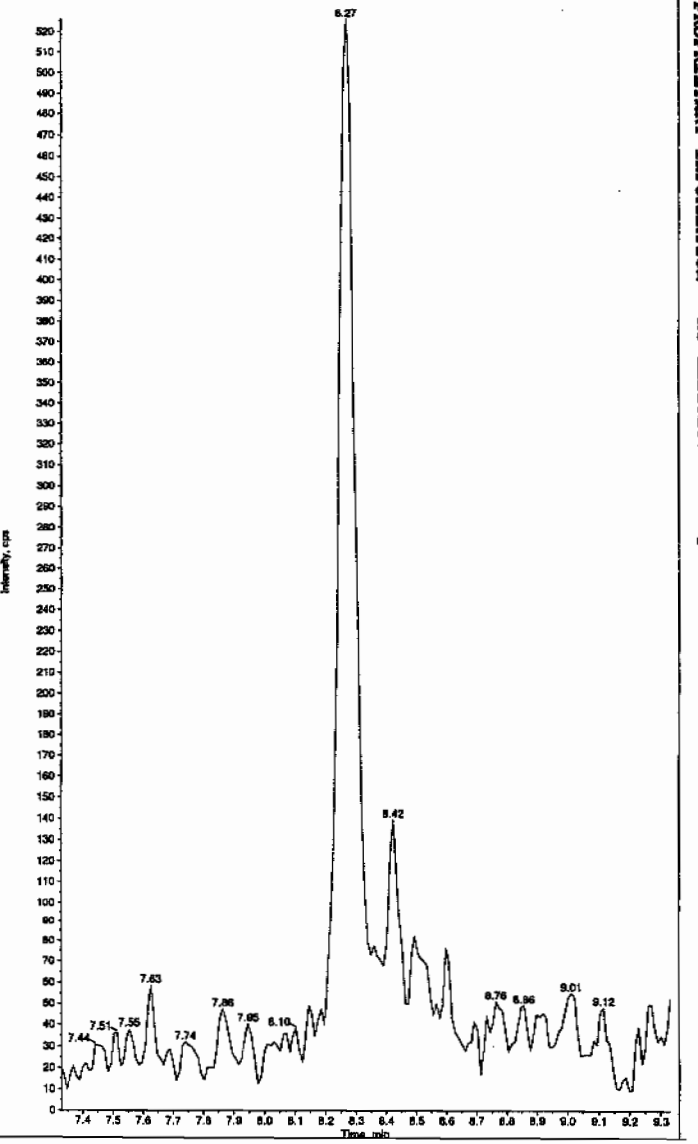
Modified: No



Sample Name: "XIBLK12" Sample ID: "|1|LER" File: "EXS02260100.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: 2/27/2010
Acq. Time: 4:48:50 PM

Modified: No



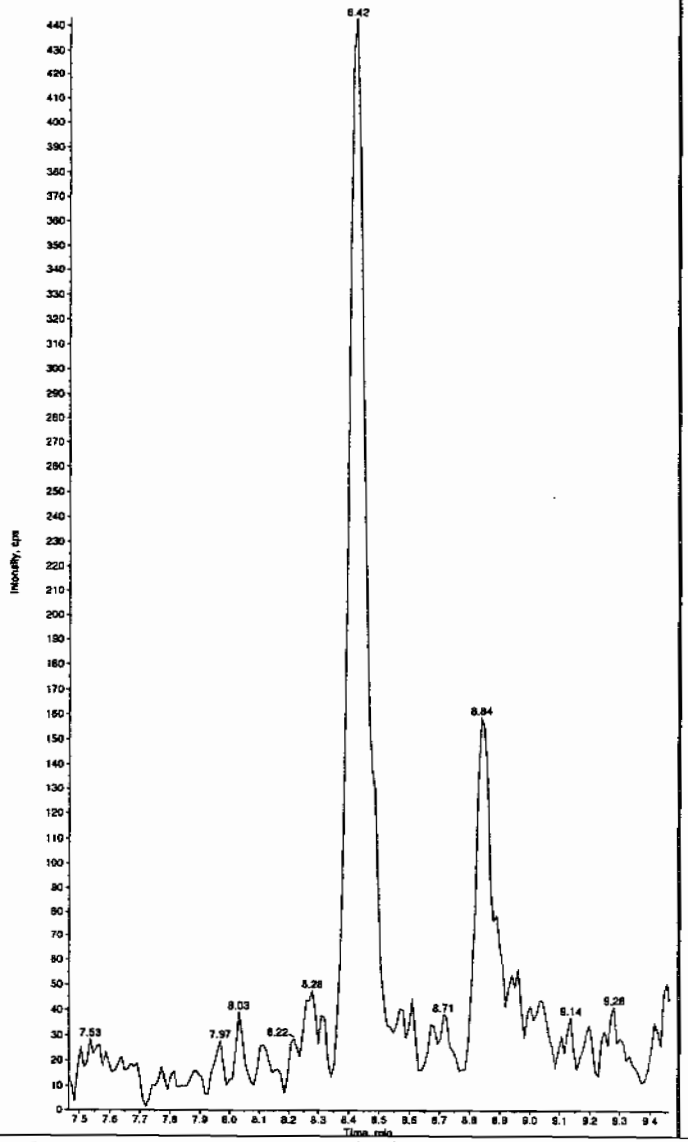
Hmm 03/01/10

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

Sample Name: "XIBLK12" Sample ID: "[1]LER" File: "EXS02260100.wiff"
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: 2/27/2010
Acq. Time: 4:48:50 PM

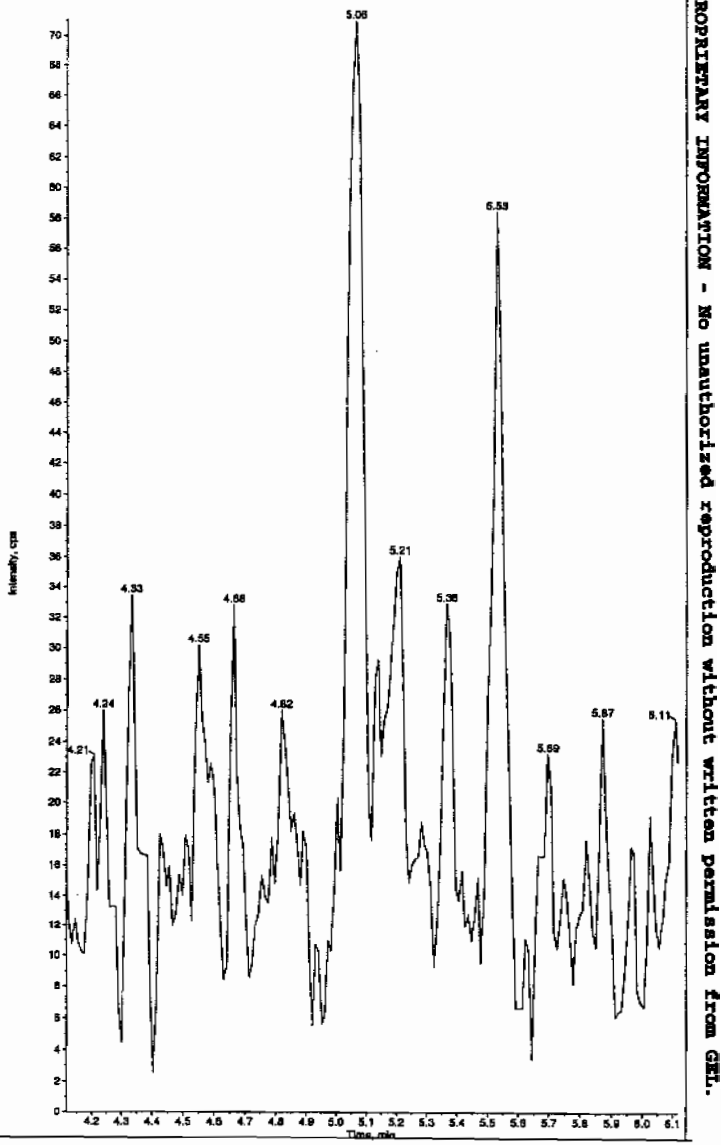
Modified: No



Sample Name: "XIBLK12" Sample ID: "[1]LER" File: "EXS02260100.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:48:50 PM

Modified: No

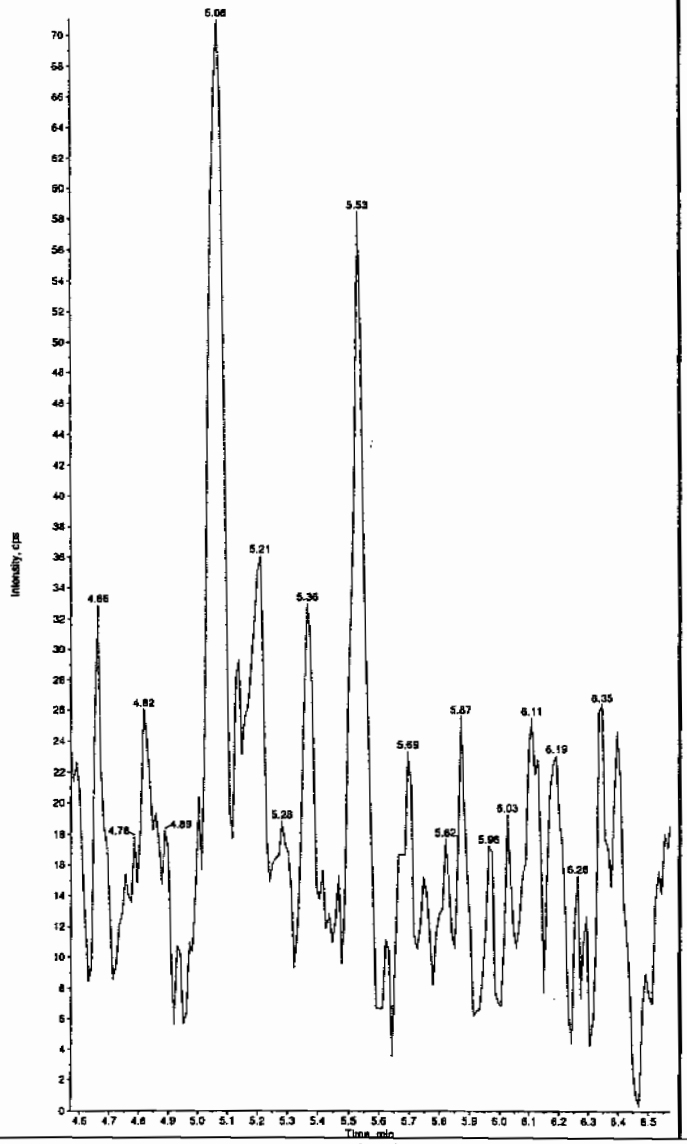


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK12" Sample ID: "[1]LER" File: "EXS02260100.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.0/45.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:48:50 PM

Modified: No

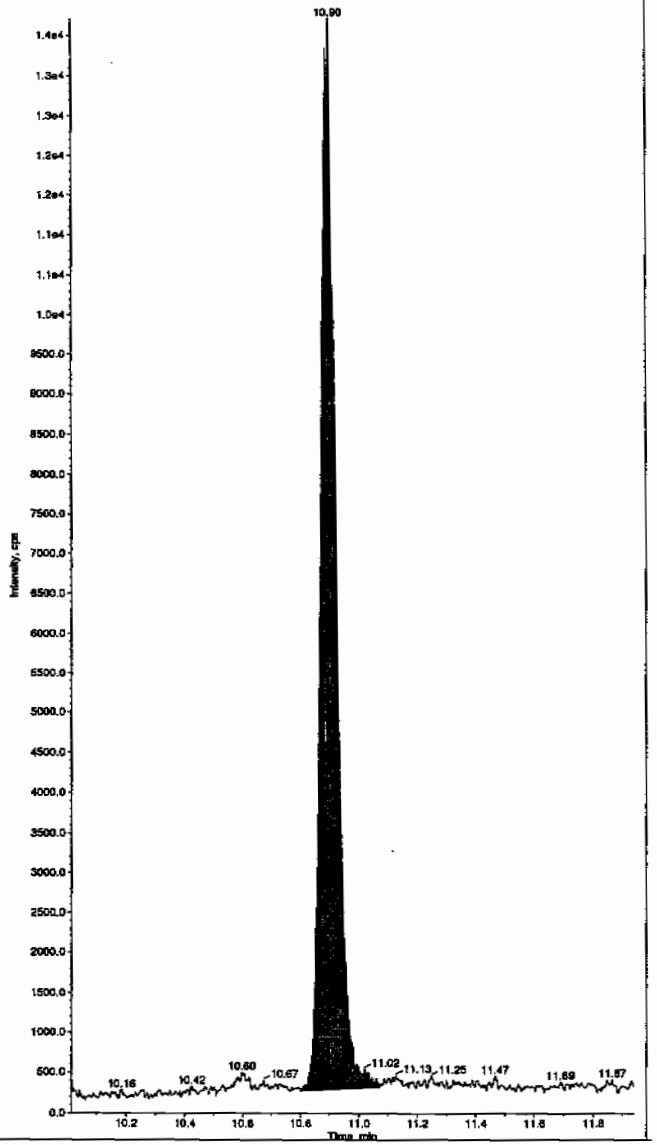


Sample Name: "XIBLK12" Sample ID: "[1]LER" File: "EXS02260100.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/27/2010
Acq. Time: 4:48:50 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: 4.91e+004 counts
Height: 13420.494 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 27–FEB–10 20:12

GEL Data File: EXS02260113.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

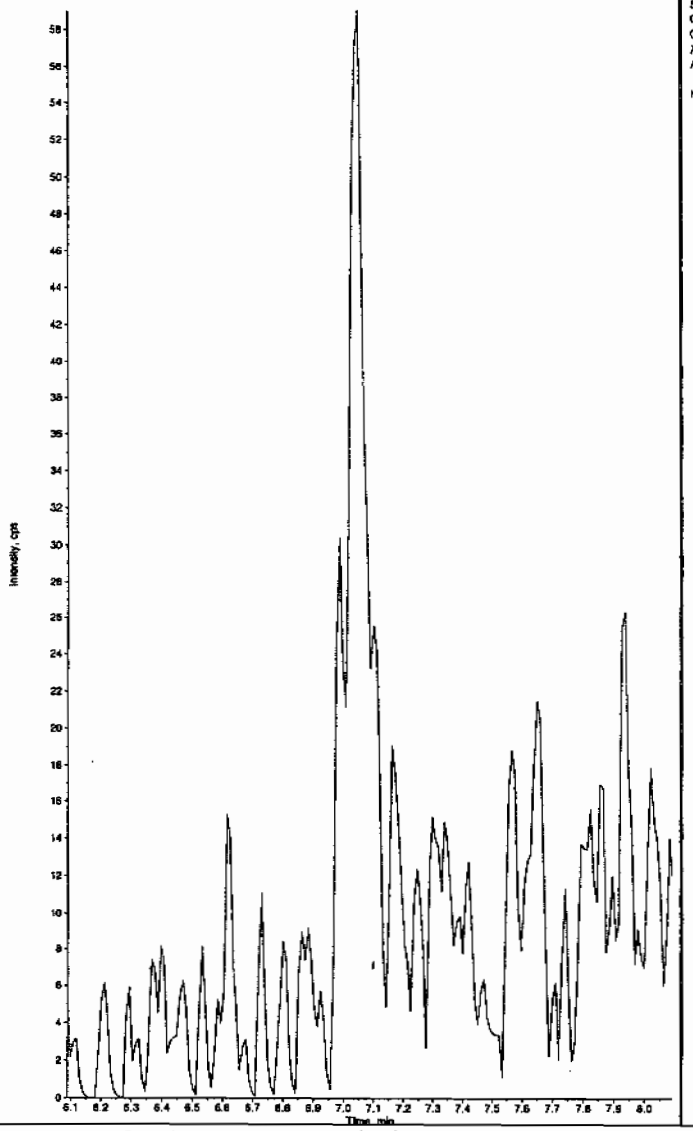
Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	0
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0

Scan 3/1/10

Sample Name: "XIBLK13" Sample ID: "|1|LER" File: "EXS02260113.wiff"
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: 2/27/2010
Acq. Time: 8:12:54 PM

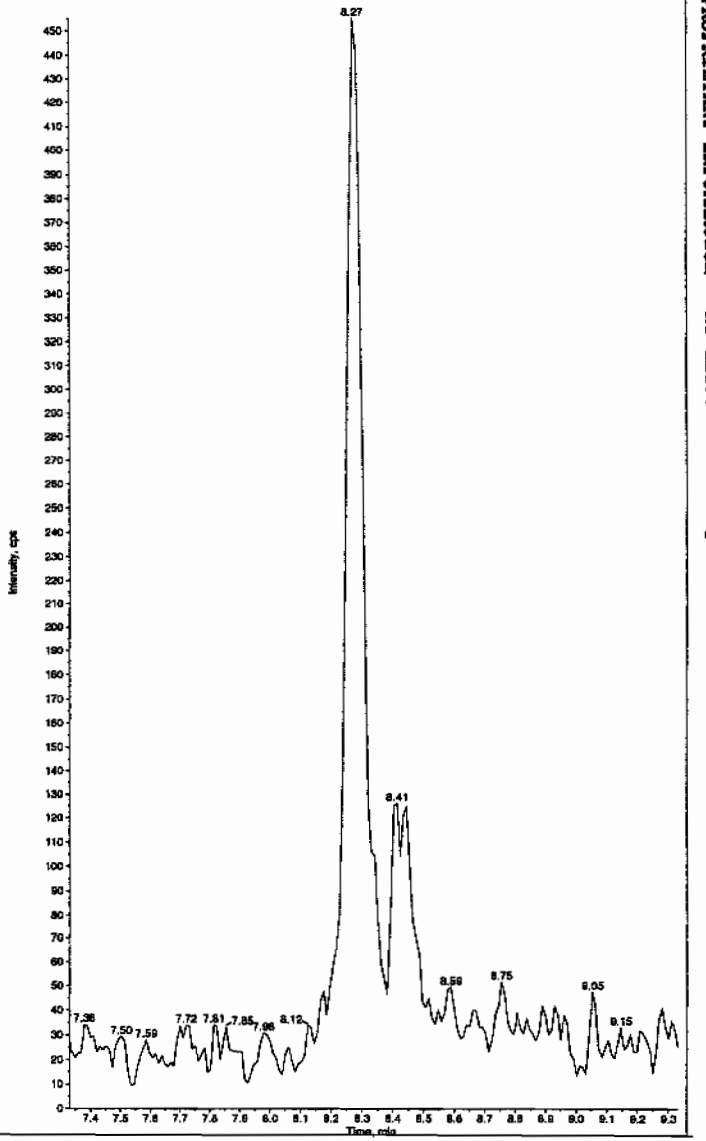
Modified: No



Sample Name: "XIBLK13" Sample ID: "|1|LER" File: "EXS02260113.wiff"
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: 2/27/2010
Acq. Time: 8:12:54 PM

Modified: No



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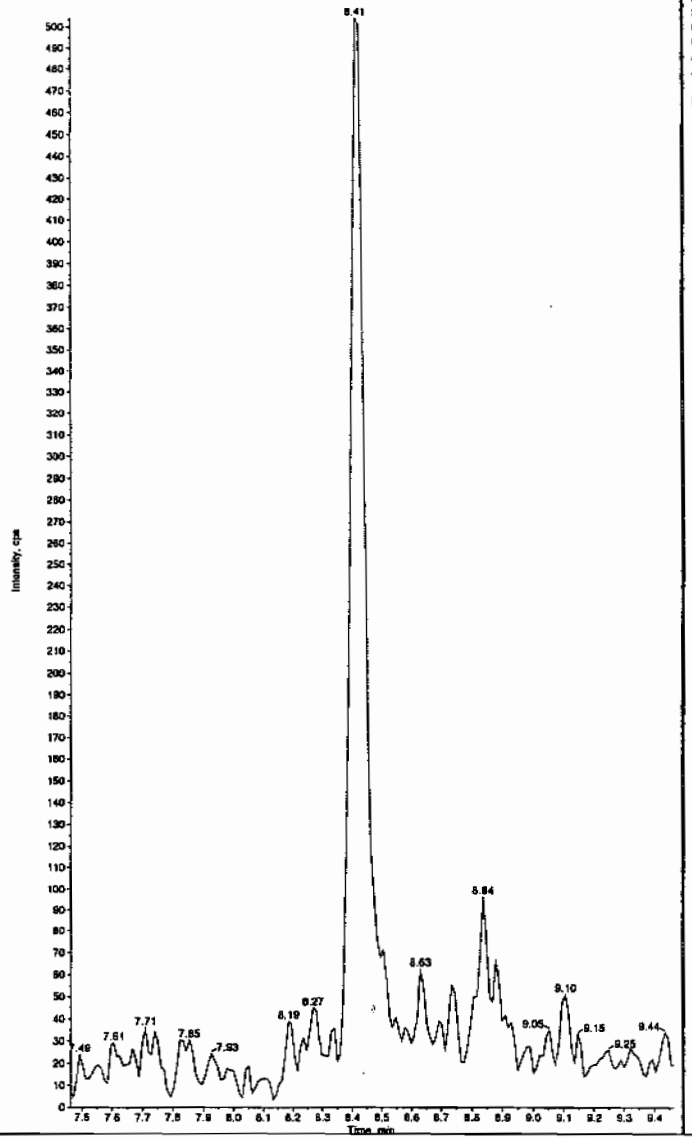
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK13" Sample ID: "[1]LER" File: "EXS02260113.wiff"
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: 2/27/2010
Acq. Time: 8:12:54 PM

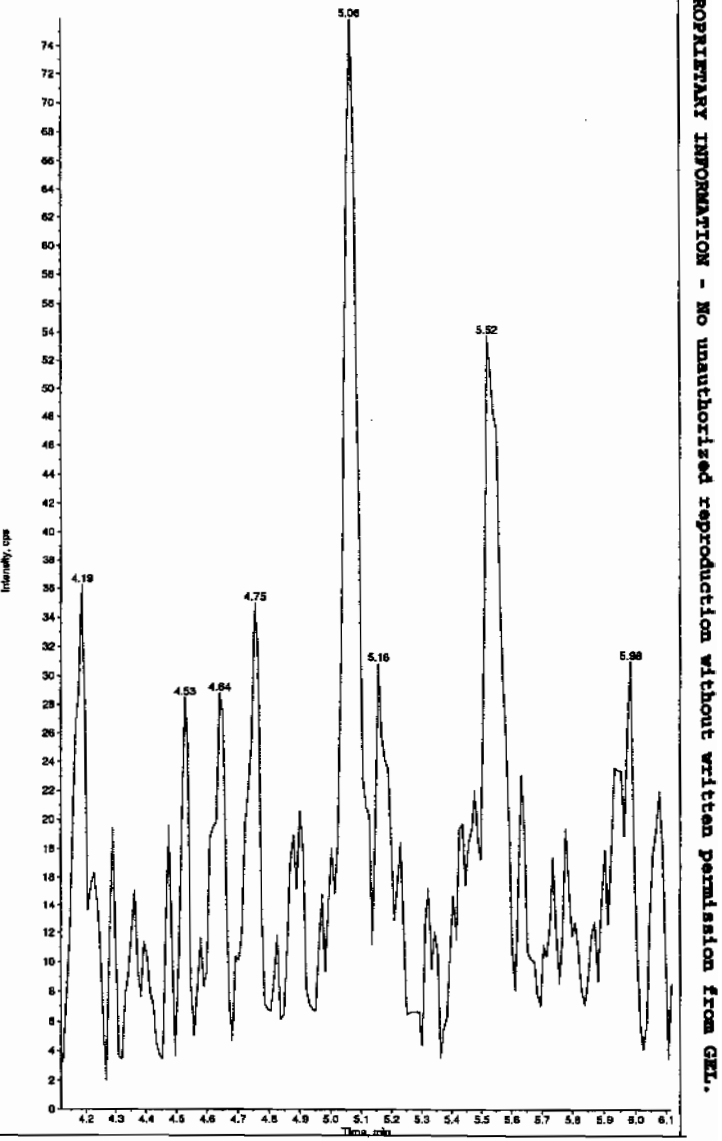
Modified: No



Sample Name: "XIBLK13" Sample ID: "[1]LER" File: "EXS02260113.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:12:54 PM

Modified: No

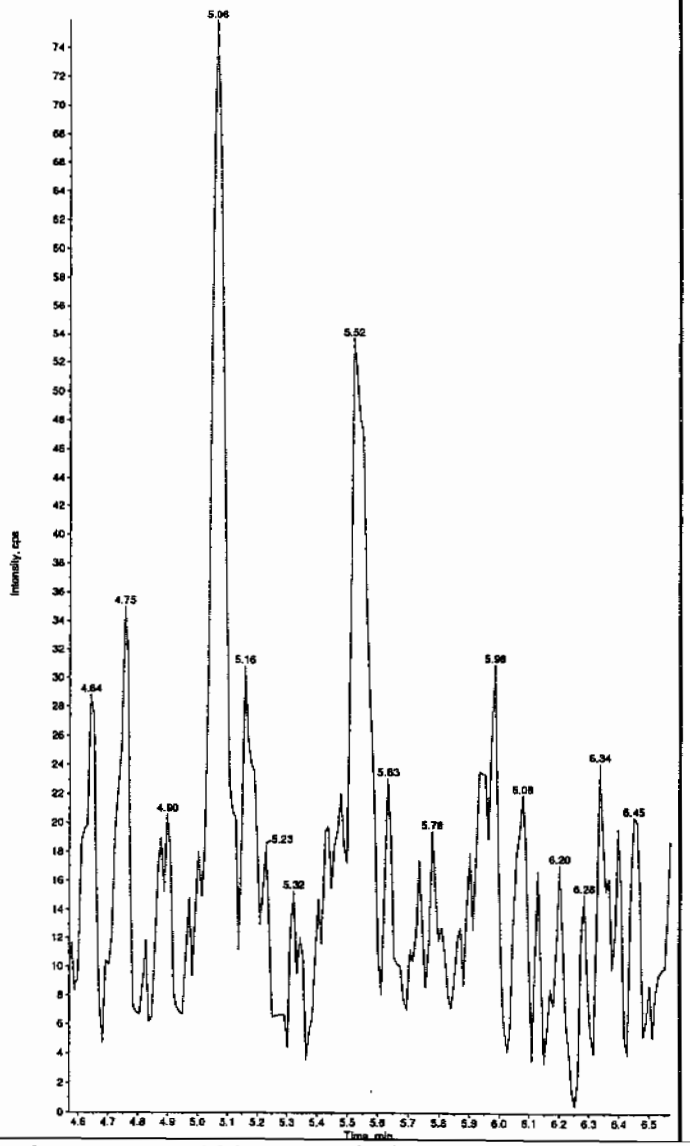


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK13" Sample ID: "1|LER" File: "EXS02260113.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:12:54 PM

Modified: No

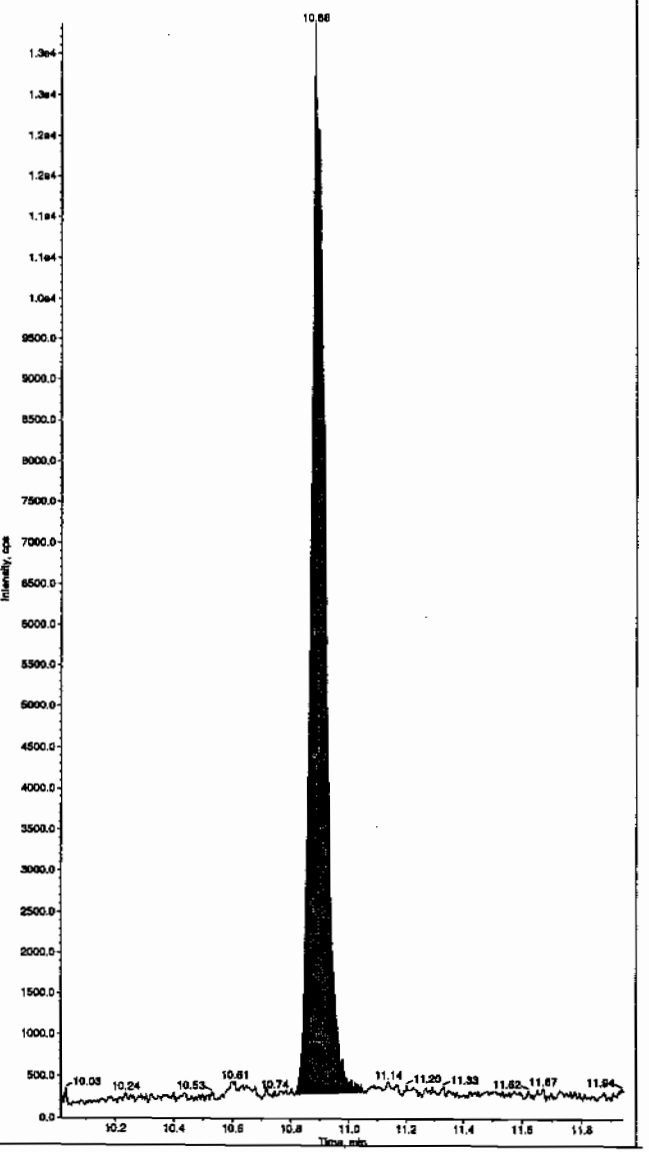


Sample Name: "XIBLK13" Sample ID: "1|LER" File: "EXS02260113.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/27/2010
Acq. Time: 8:12:54 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: 4.52e+004 counts
Height: 13067.869 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 27–FEB–10 23:05

GEL Data File: EXS02260124.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

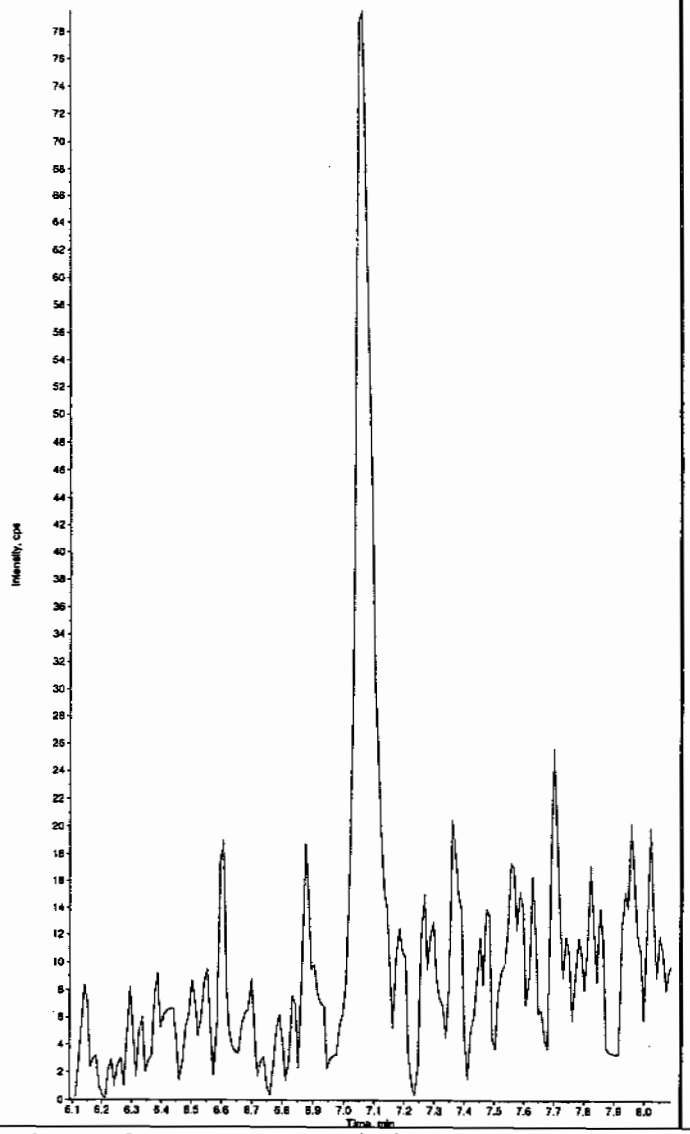
Compound	True	Found (ug/L)
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	0
TATB	0	0
3,5–Dinitroaniline	0	0

Ker 3/1/10

Sample Name: "XIBLK14" Sample ID: "[1]LER" File: "EXS02260124.wiff"
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: 2/27/2010
Acq. Time: 11:05:34 PM

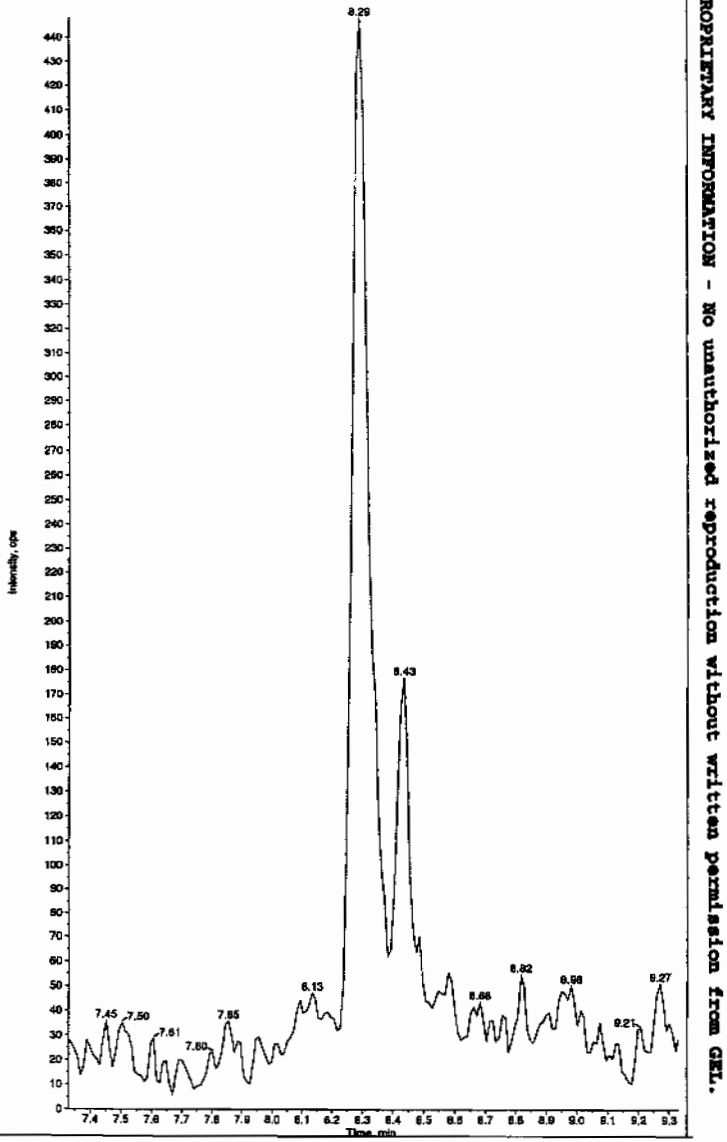
Modified: No



Sample Name: "XIBLK14" Sample ID: "[1]LER" File: "EXS02260124.wiff"
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: 2/27/2010
Acq. Time: 11:05:34 PM

Modified: No



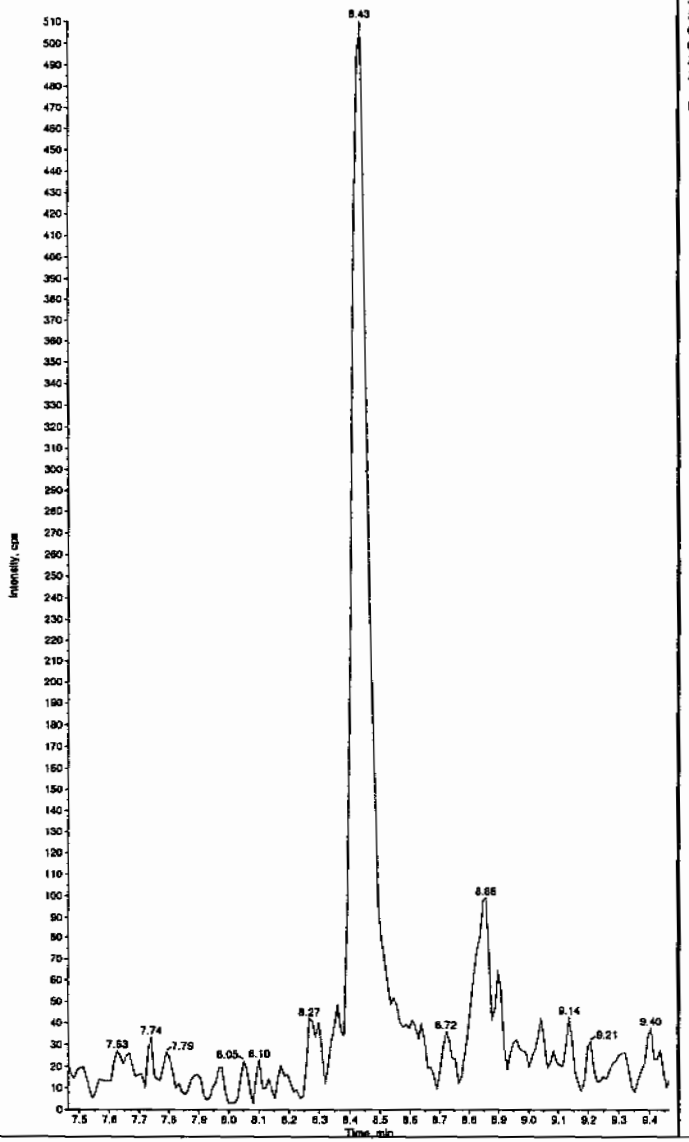
HMM 03/01/10

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

Sample Name: "XIBLK14" Sample ID: "|1|LER" File: "EXS02260124.wiff"
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: 2/27/2010
Acq. Time: 11:05:34 PM

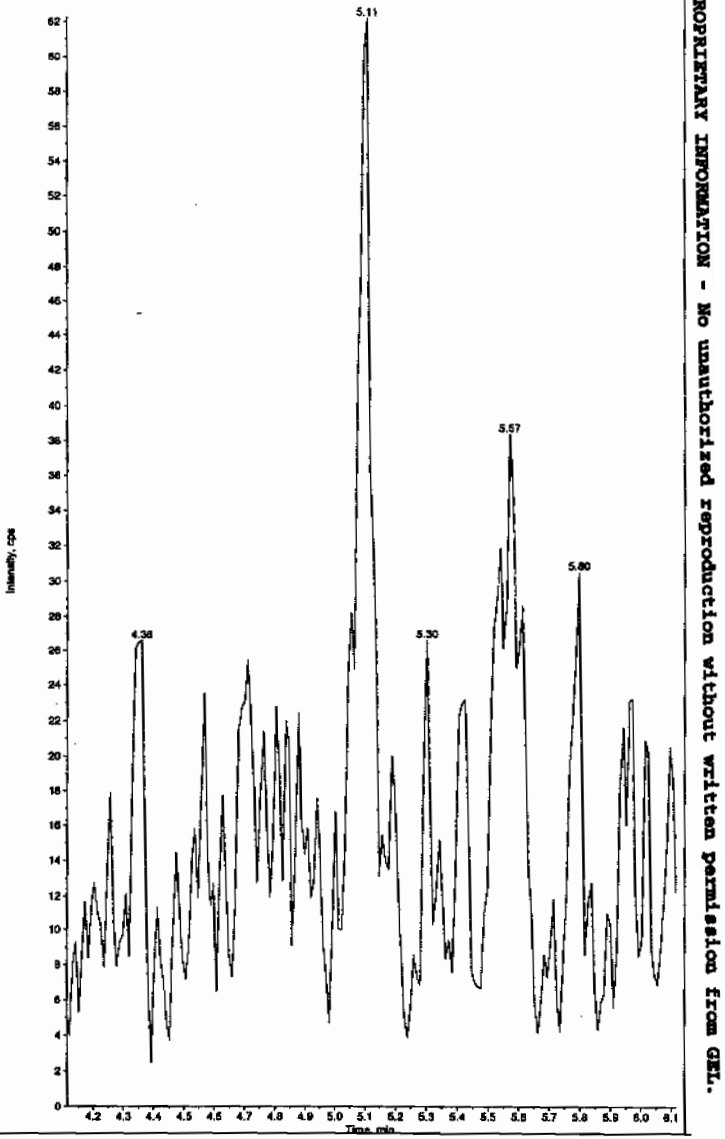
Modified: No



Sample Name: "XIBLK14" Sample ID: "|1|LER" File: "EXS02260124.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "156.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 11:05:34 PM

Modified: No

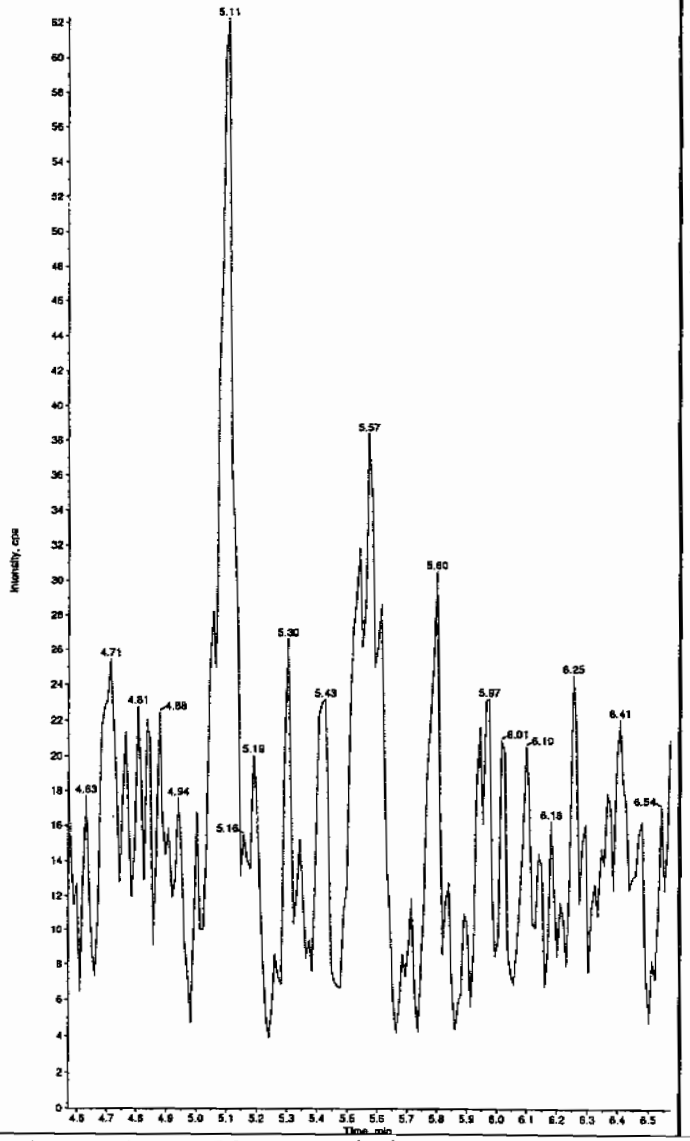


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLX14" Sample ID: "[1]LER" File: "EXS02260124.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.0/46.0 amu"
Comment: "LCMSEXP_6" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 11:05:34 PM

Modified: No

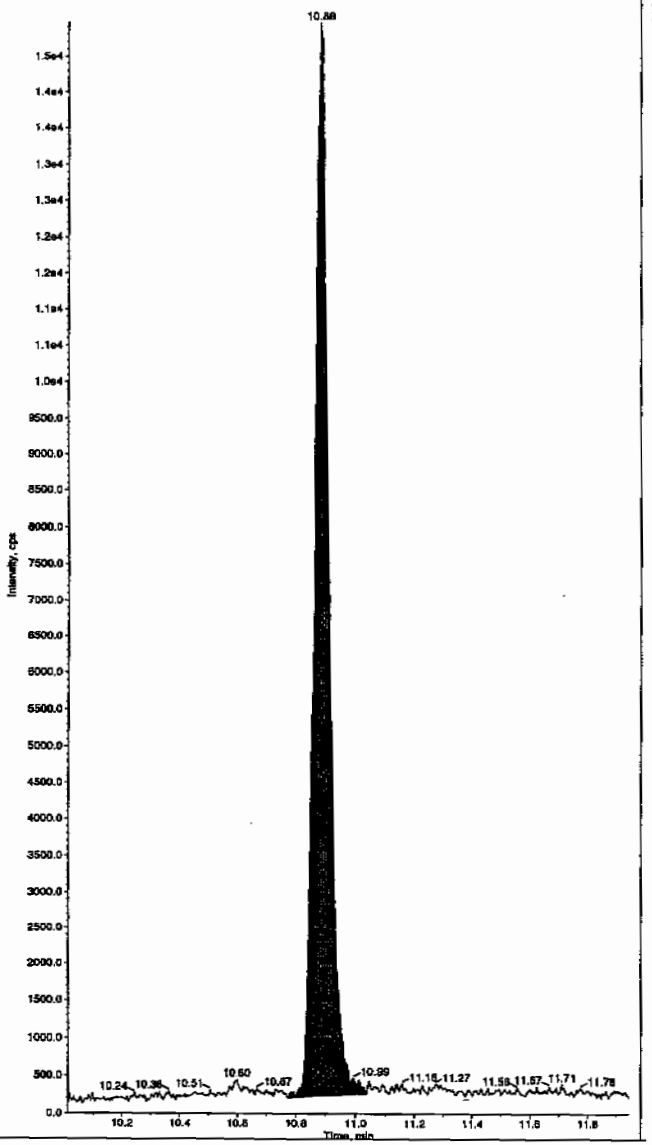


Sample Name: "XIBLX14" Sample ID: "[1]LER" File: "EXS02260124.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_8" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/27/2010
Acq. Time: 11:05:34 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: 5.08e+004 counts
Height: 14733.544 cps
Start Time: 10.8 min
End Time: 11.0 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 28-FEB-10 02:29

GEL Data File: EXS02260137.wiff

Instrument ID: LCMSMS

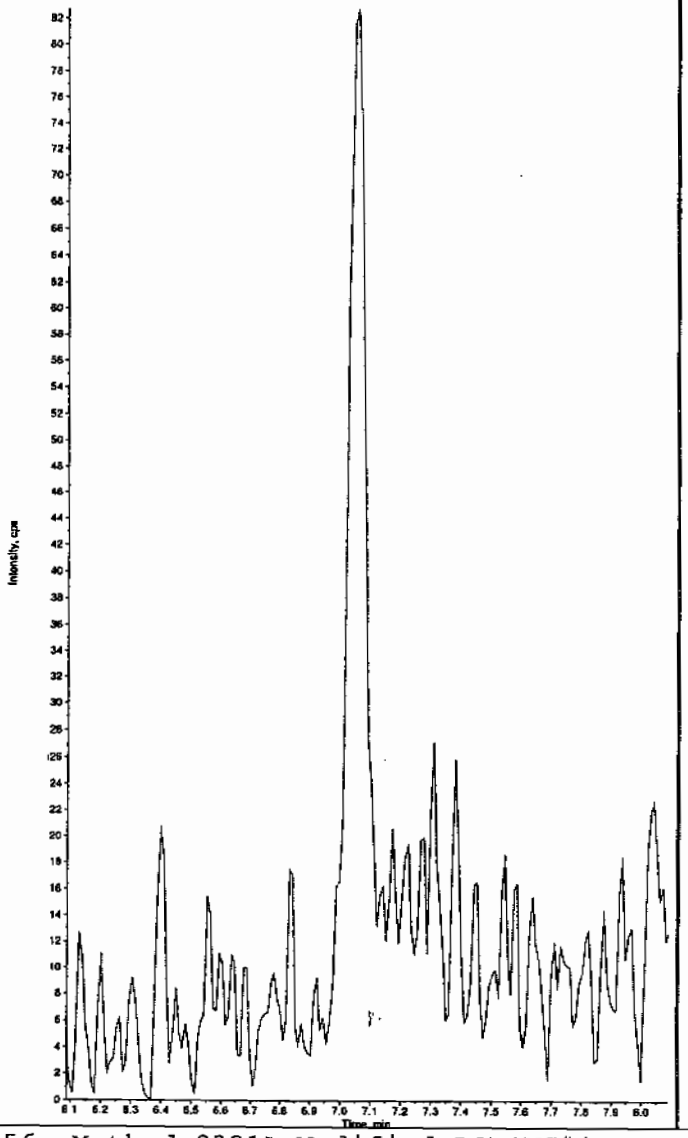
Column: Phenomenex Ultracarb 5u ODS(20)

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

Ken 3/1/10

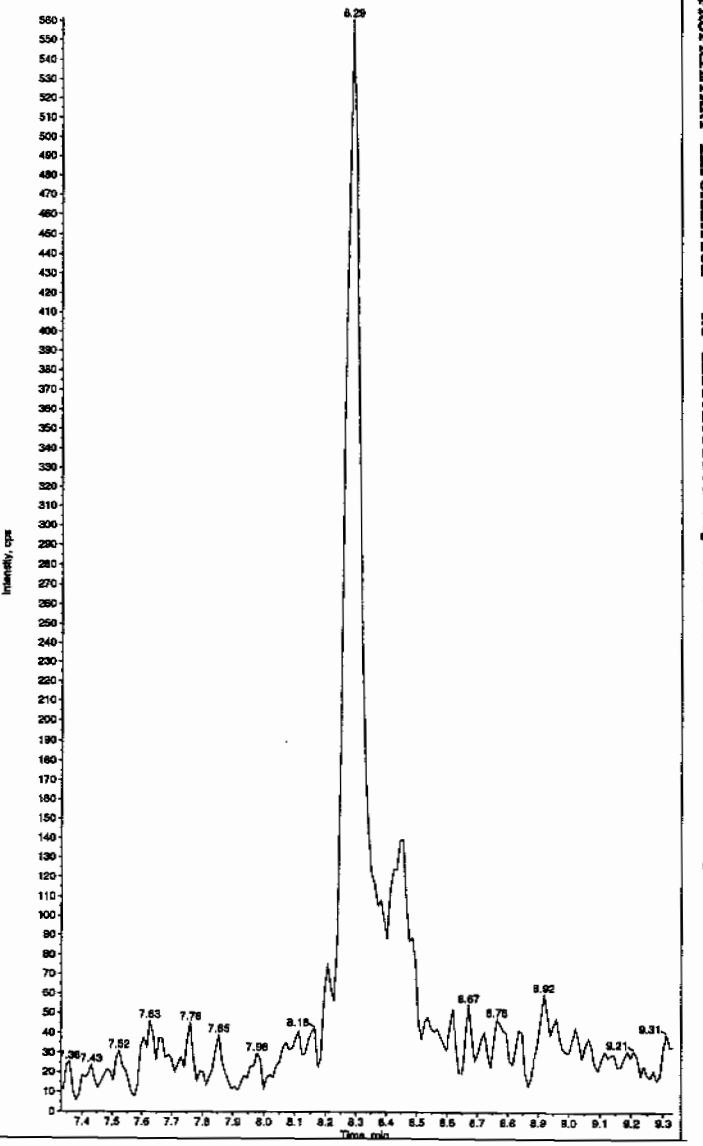
Sample Name: "XIBLK15" Sample ID: "[1]LER" File: "EXS02260137.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:29:59 AM

Modified: No



Sample Name: "XIBLK15" Sample ID: "[1]LER" File: "EXS02260137.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "162.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:29:59 AM

Modified: No

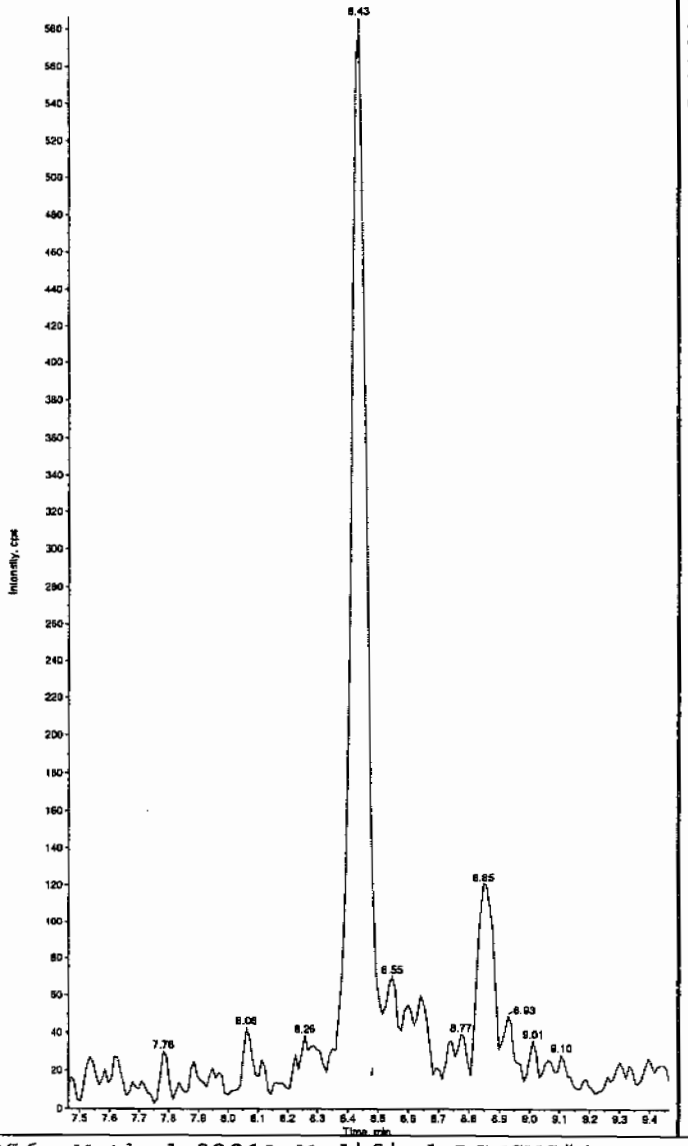


HMM 03/01/10

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

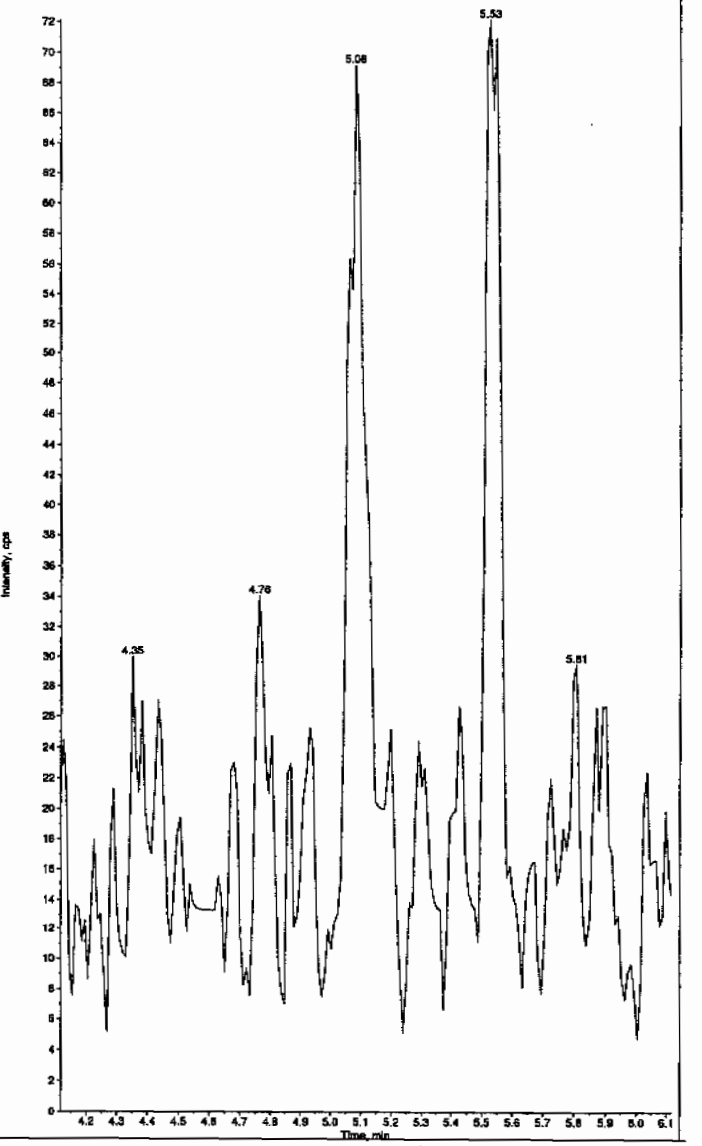
Sample Name: "XIBLK15" Sample ID: "[1]LER" File: "EXS02260137.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:29:59 AM

Modified: No



Sample Name: "XIBLK15" Sample ID: "[1]LER" File: "EXS02260137.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:29:59 AM

Modified: No

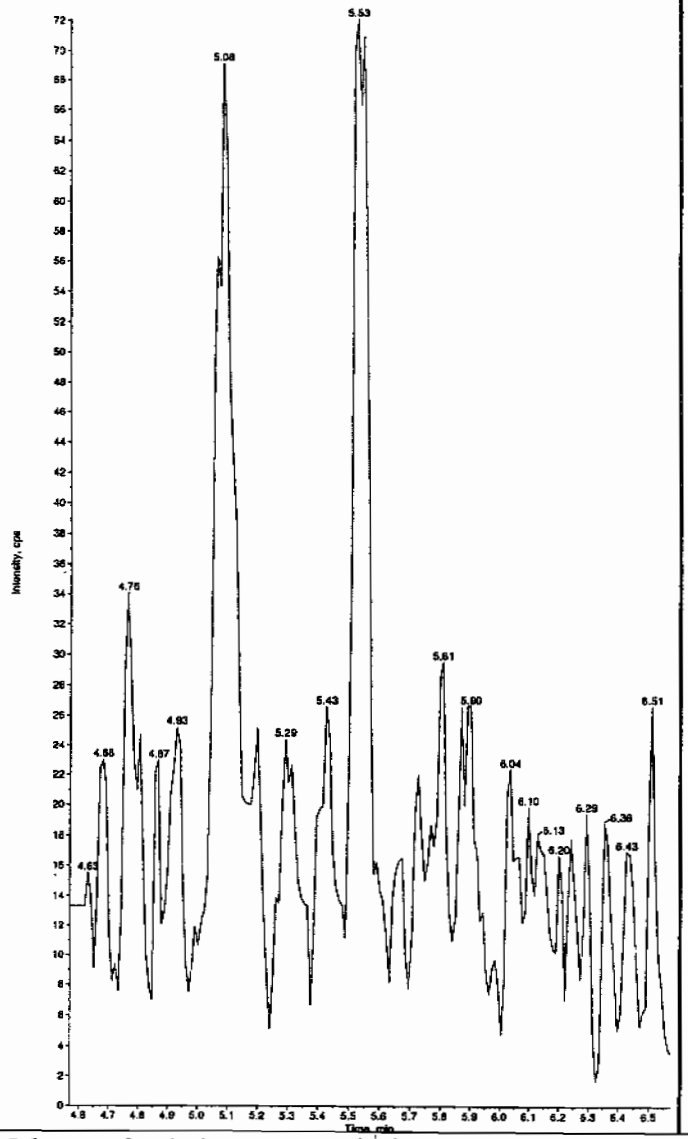


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK15" Sample ID: "[1]LER" File: "EXS02260137.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:29:59 AM

Modified: No

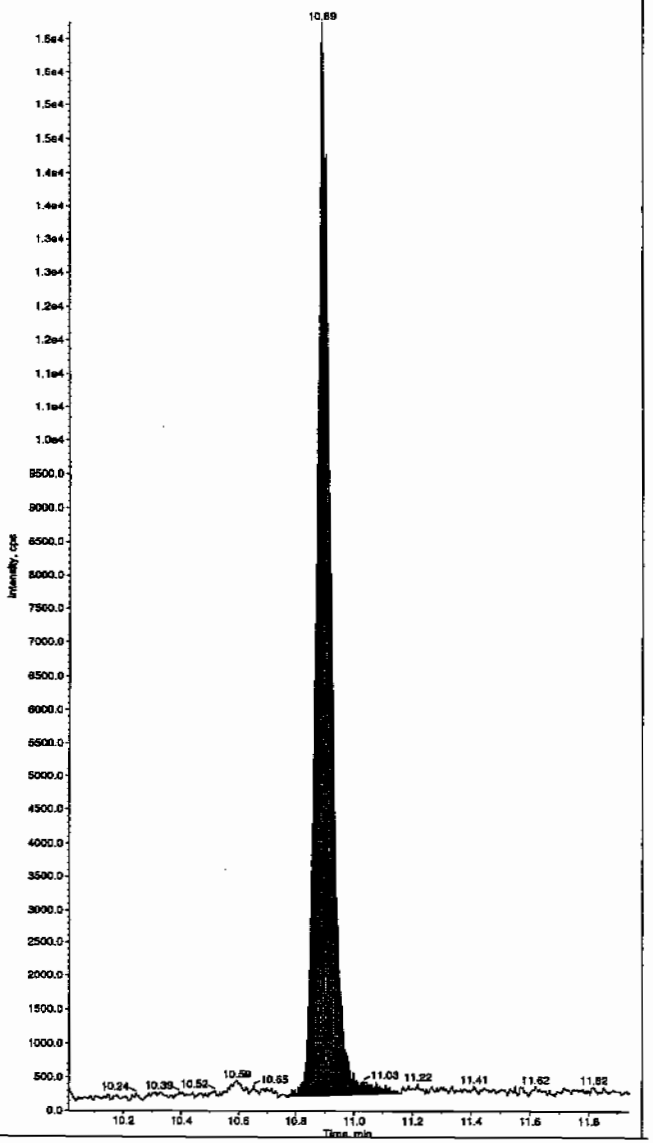


Sample Name: "XIBLK15" Sample ID: "[1]LER" File: "EXS02260137.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/28/2010
Acq. Time: 2:29:59 AM

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: 5.54e+004 counts
Height: 16032.743 cps
Start Time: 10.8 min
End Time: 11.2 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK16

Analysis Date: 28-FEB-10 04:04

GEL Data File: EXS02260143.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

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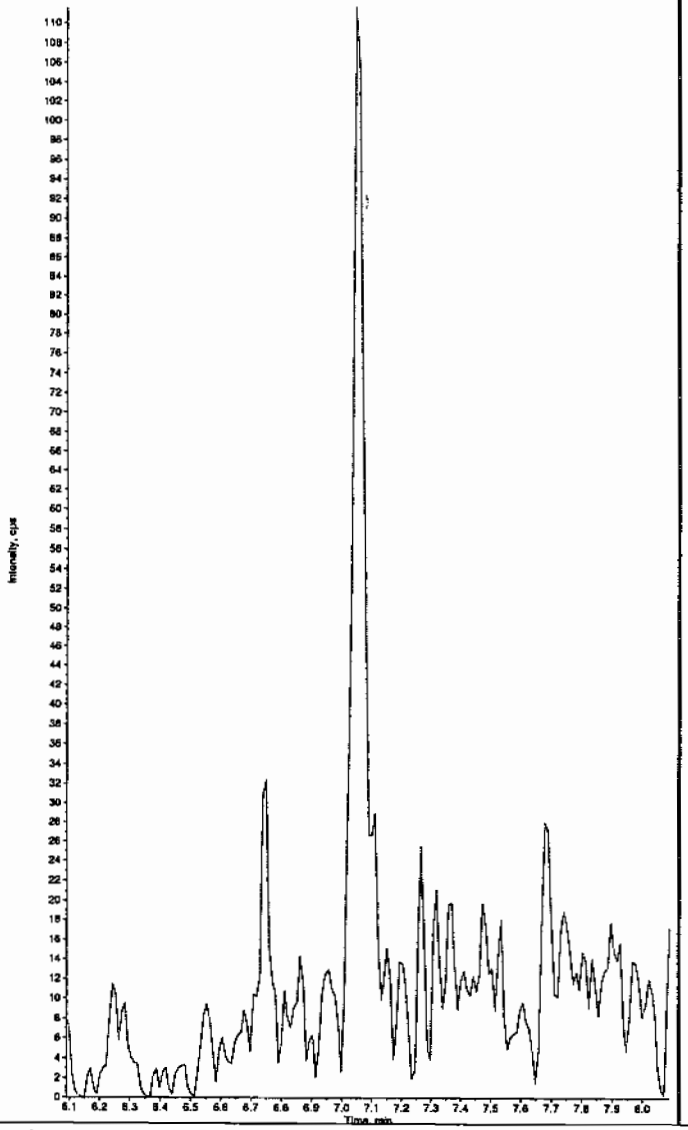
Sample Name: "XIBLK16" Sample ID: "|1|LER" File: "EXS02260143.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 4:04:22 AM

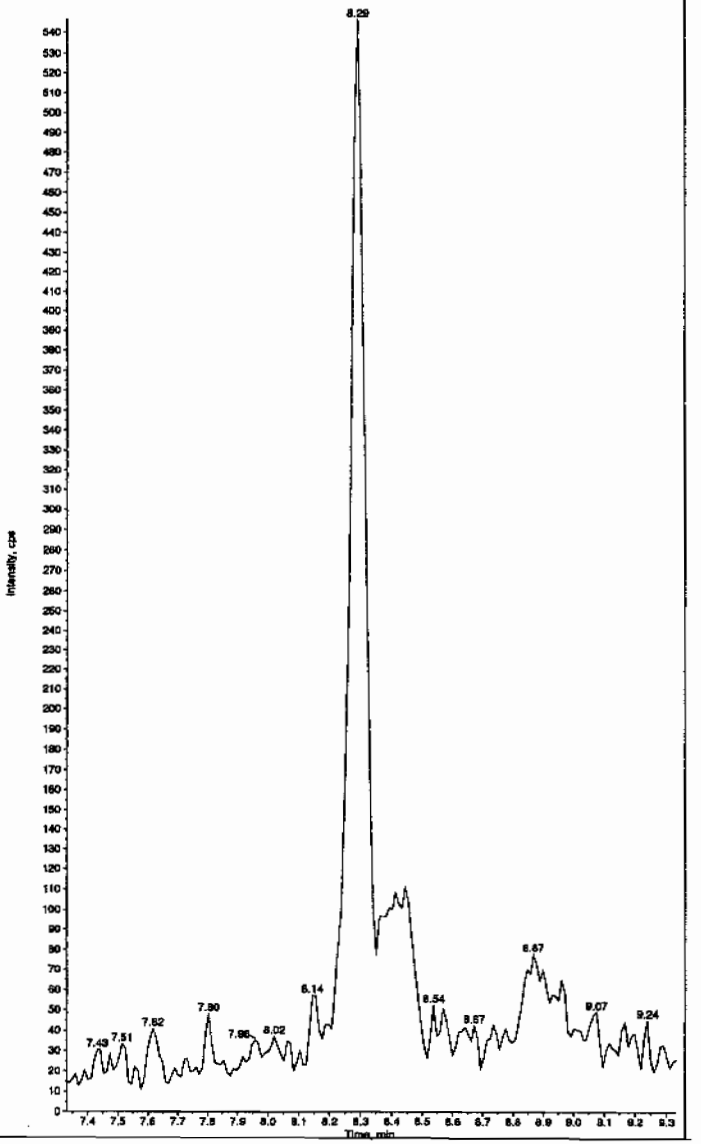
Modified: No



Sample Name: "XIBLK16" Sample ID: "|1|LER" File: "EXS02260143.wiff"
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: 2/28/2010
Acq. Time: 4:04:22 AM

Modified: No



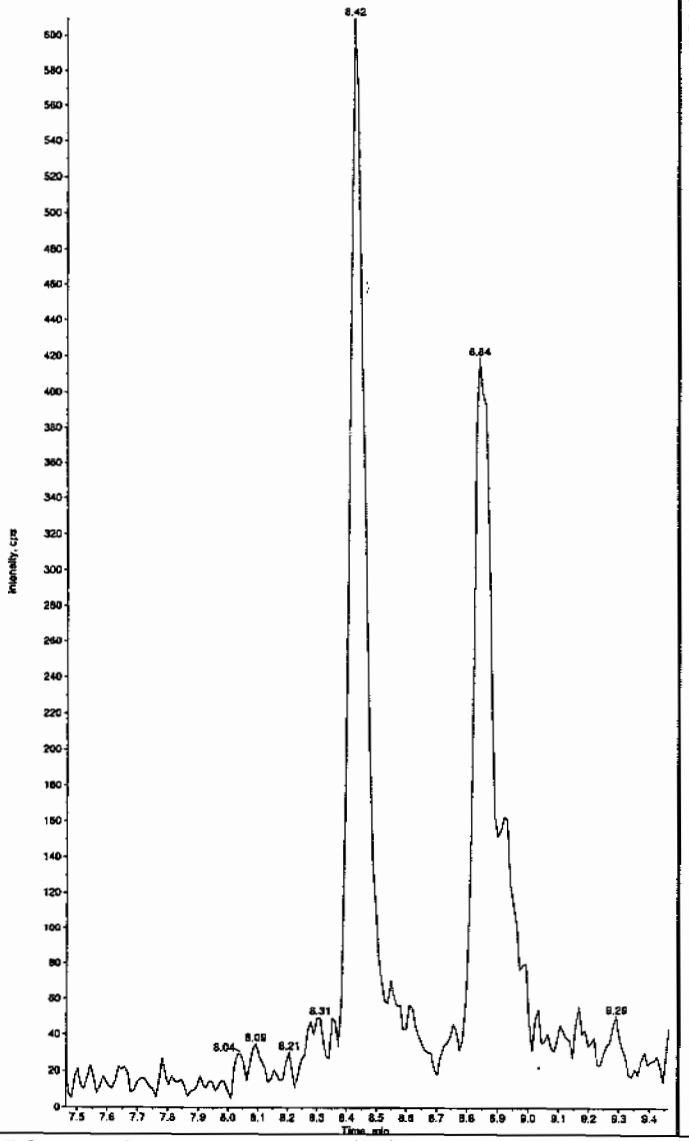
Hmm 03/01/10

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

Sample Name: "XIBLK16" Sample ID: "|1|LER" File: "EXS02260143.wiff"
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: 2/28/2010
Acq. Time: 4:04:22 AM

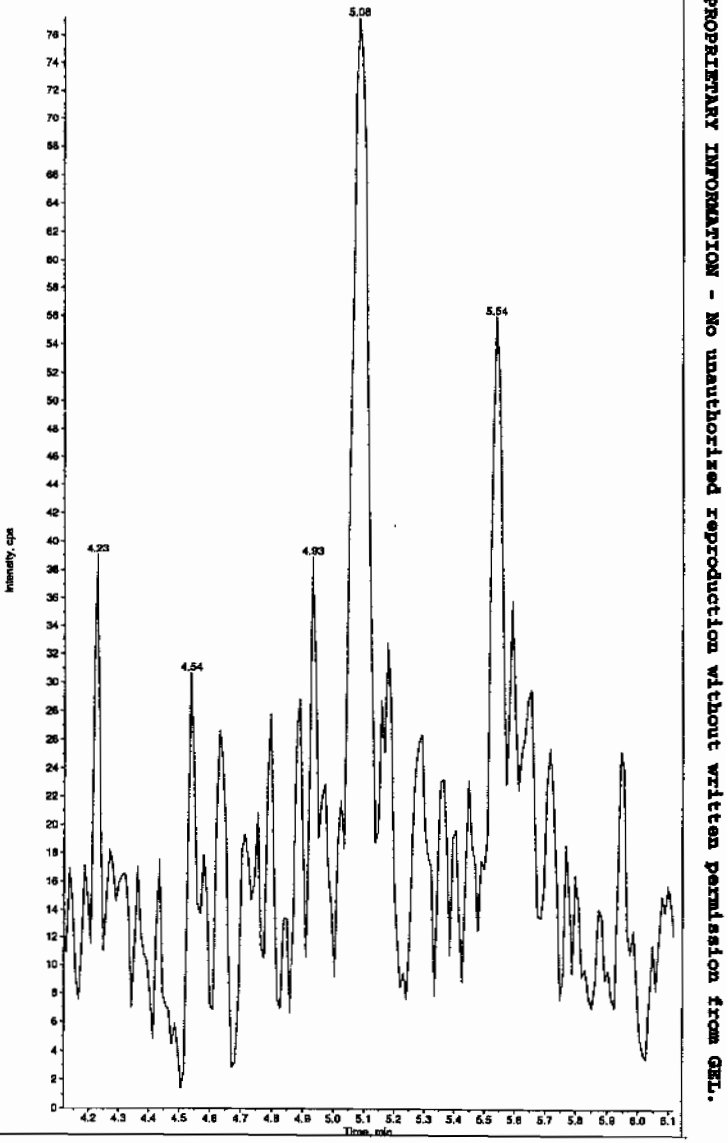
Modified: No



Sample Name: "XIBLK16" Sample ID: "|1|LER" File: "EXS02260143.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 4:04:22 AM

Modified: No

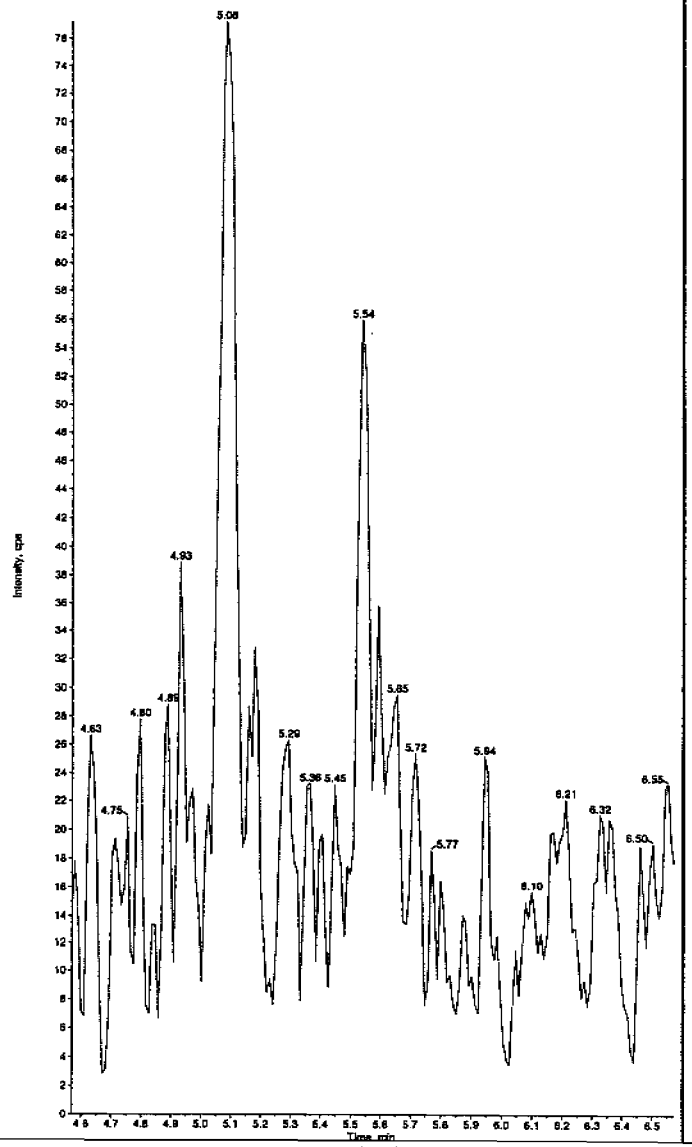


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK16" Sample ID: "|1|LER" File: "EXS02260143.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 4:04:22 AM

Modified: No

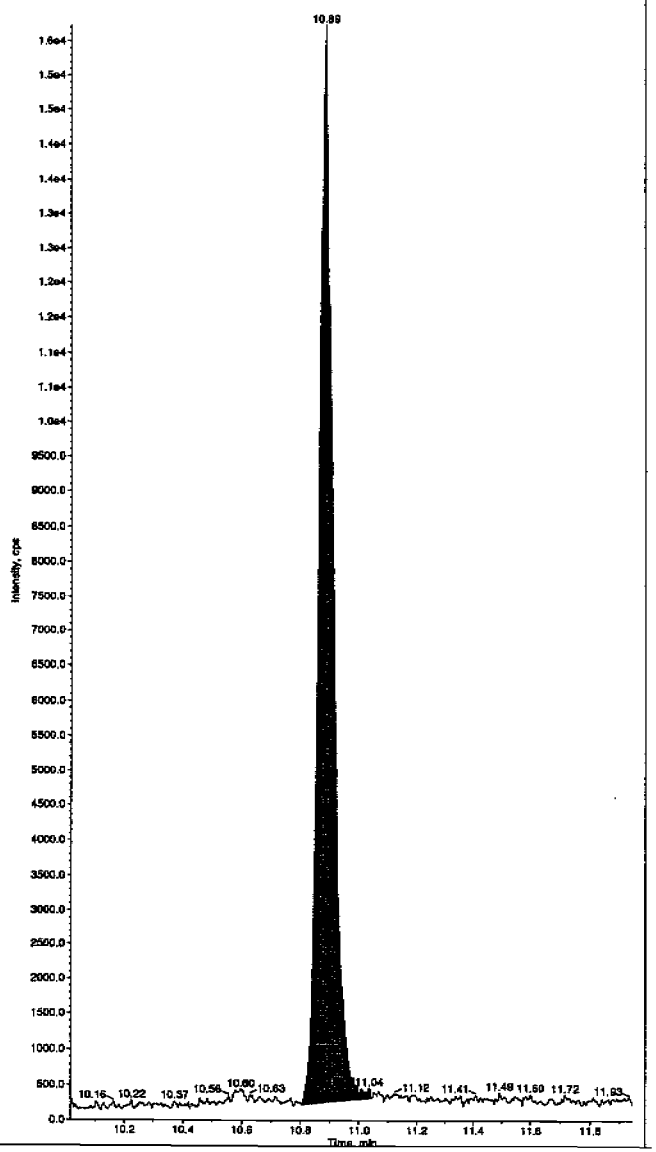


Sample Name: "XIBLK16" Sample ID: "|1|LER" File: "EXS02260143.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/28/2010
Acq. Time: 4:04:22 AM

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: 5.40e+004 counts
Height: 15474.279 cps
Start Time: 10.8 min
End Time: 11.0 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK17

Analysis Date: 28-FEB-10 05:54

GEL Data File: EXS02260150.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

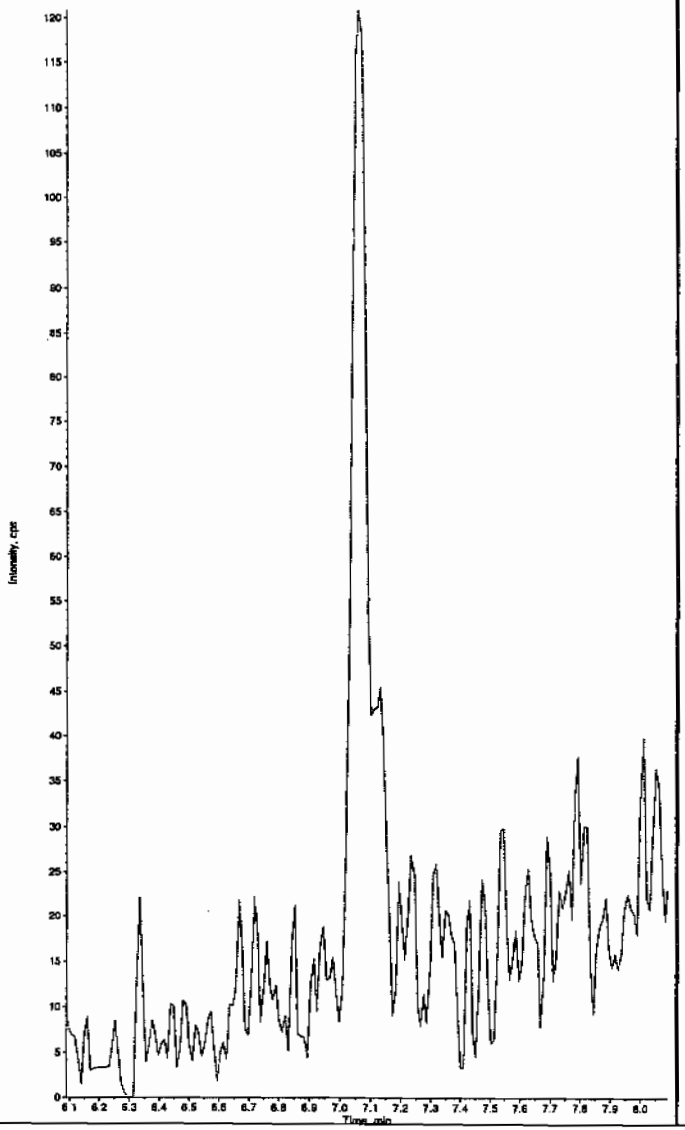
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Sam 3/1/10

Sample Name: "XIBLK17" Sample ID: "[1]LER" File: "EXS02260150.wiff"
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: 2/28/2010
Acq. Time: 5:54:42 AM

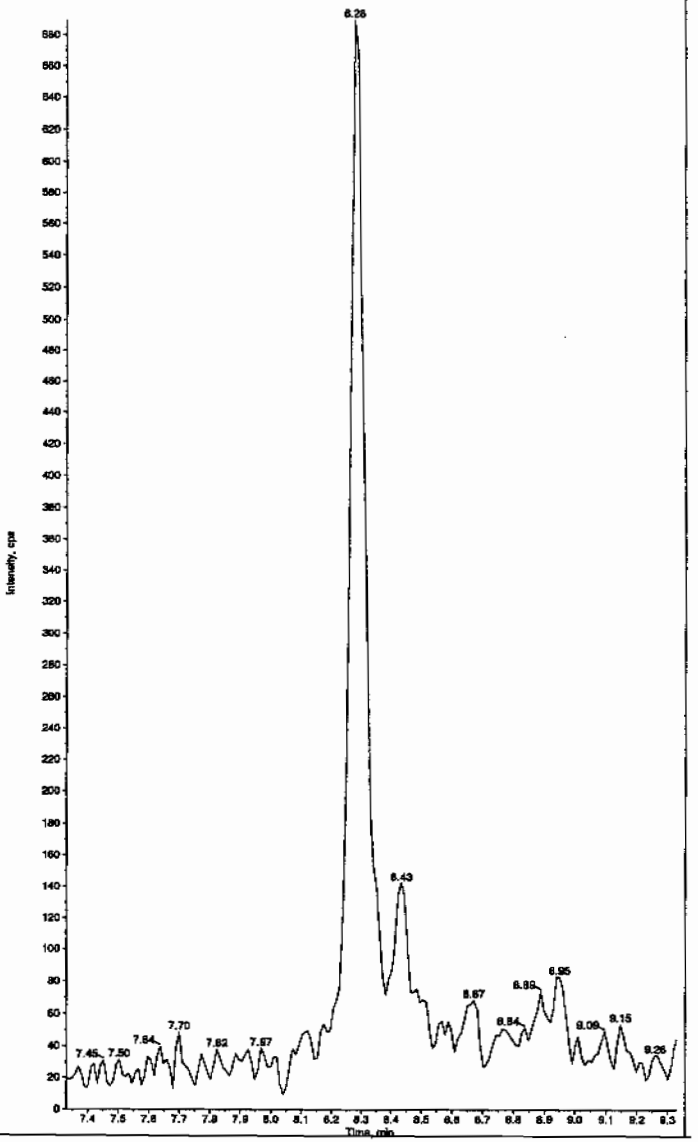
Modified: No



Sample Name: "XIBLK17" Sample ID: "[1]LER" File: "EXS02260150.wiff"
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: 2/28/2010
Acq. Time: 5:54:42 AM

Modified: No



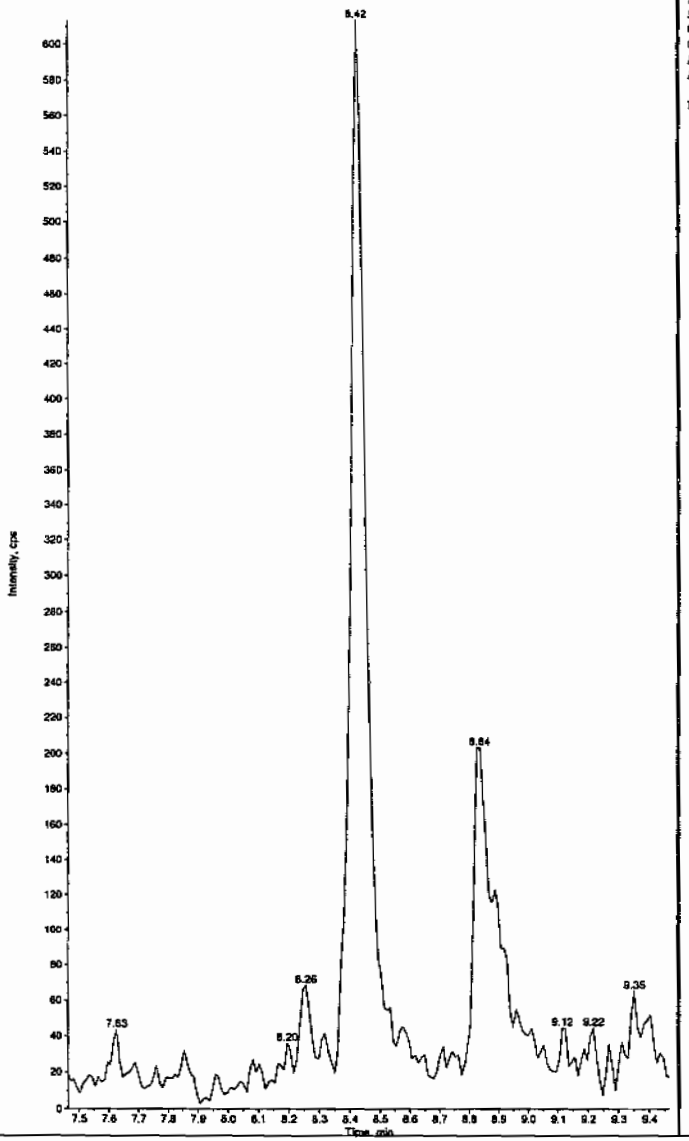
dhma 03/01/10

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

Sample Name: "XIBLK17" Sample ID: "[1]LER" File: "EXS02250150.wiff"
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: 2/28/2010
Acq. Time: 5:54:42 AM

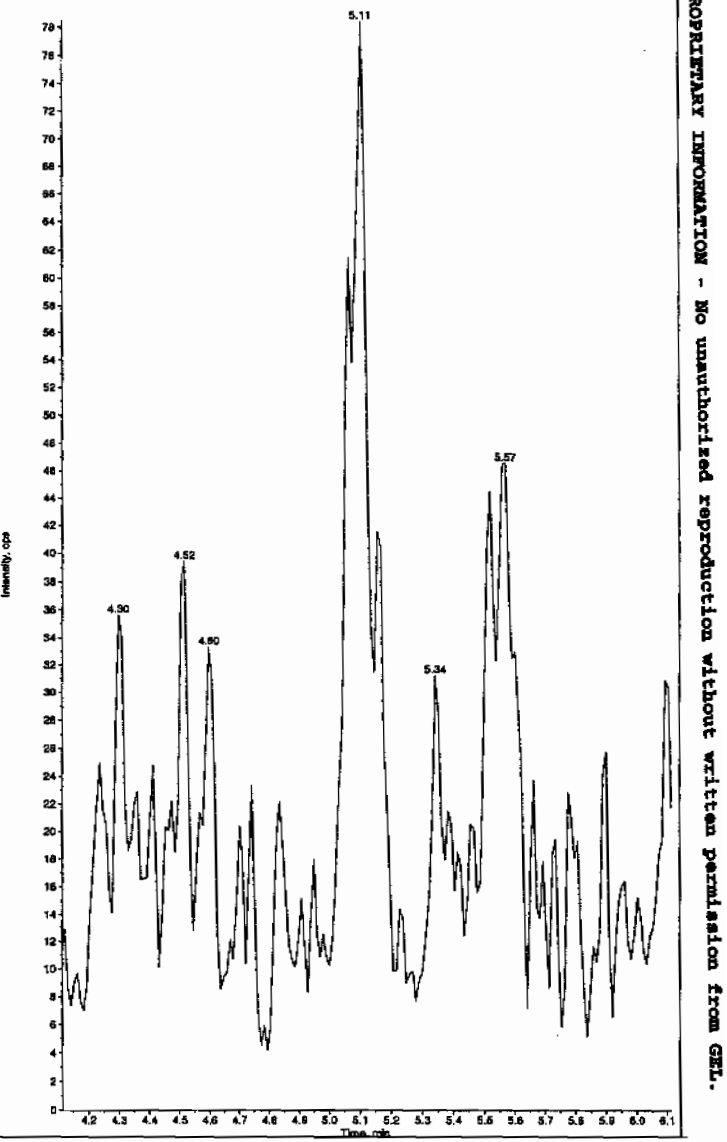
Modified: No



Sample Name: "XIBLK17" Sample ID: "[1]LER" File: "EXS02250150.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 5:54:42 AM

Modified: No

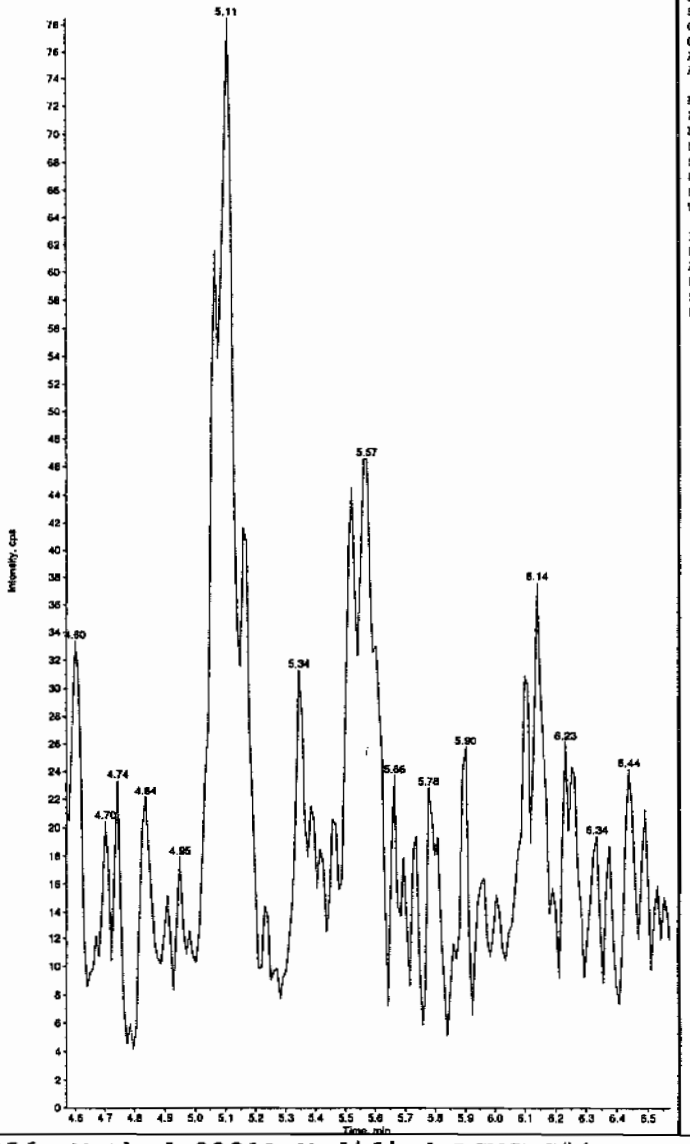


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK17" Sample ID: "|1|LER" File: "EXS02260150.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 5:54:42 AM

Modified: No

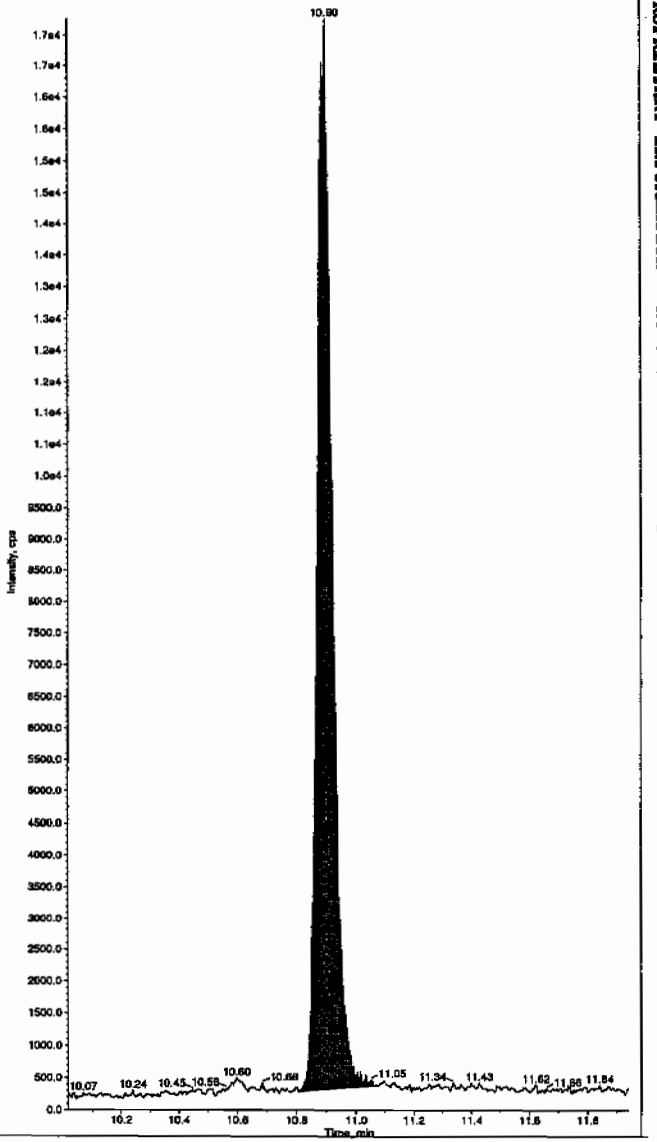


Sample Name: "XIBLK17" Sample ID: "|1|LER" File: "EXS02260150.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/28/2010
Acq. Time: 5:54:42 AM

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: 6.14e+004 counts
Height: 16954.069 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK18

Analysis Date: 28–FEB–10 09:19

GEL Data File: EXS02260163.wiff

Instrument ID: LCMSMS

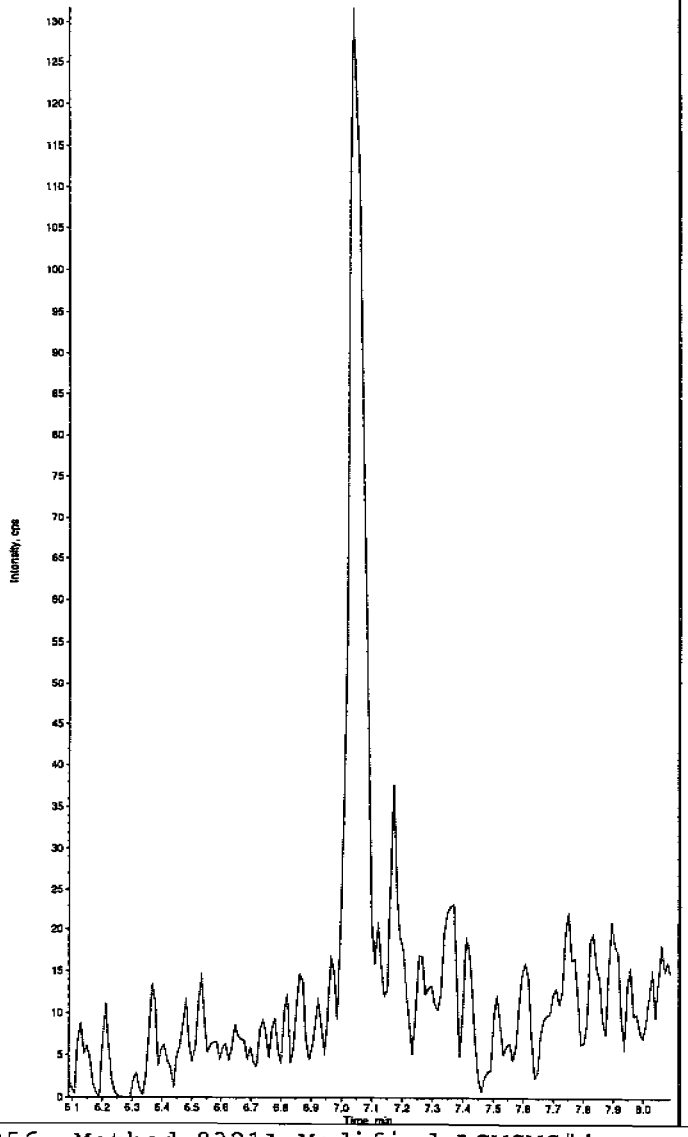
Column: Phenomenex Ultracarb 5u ODS(20)

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

Ken 3/1/10

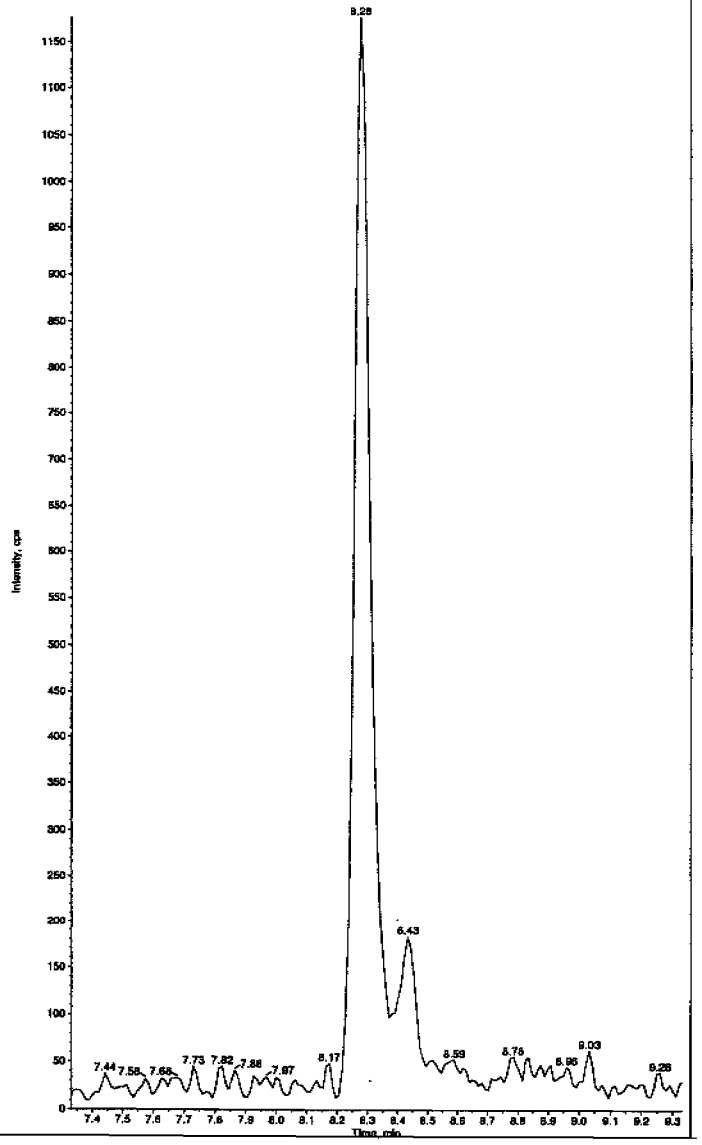
Sample Name: "XIBLK18" Sample ID: "|1|LER" File: "EXS02260183.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:19:12 AM

Modified: No



Sample Name: "XIBLK18" Sample ID: "|1|LER" File: "EXS02260183.wiff"
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: 2/28/2010
Acq. Time: 9:19:12 AM

Modified: No



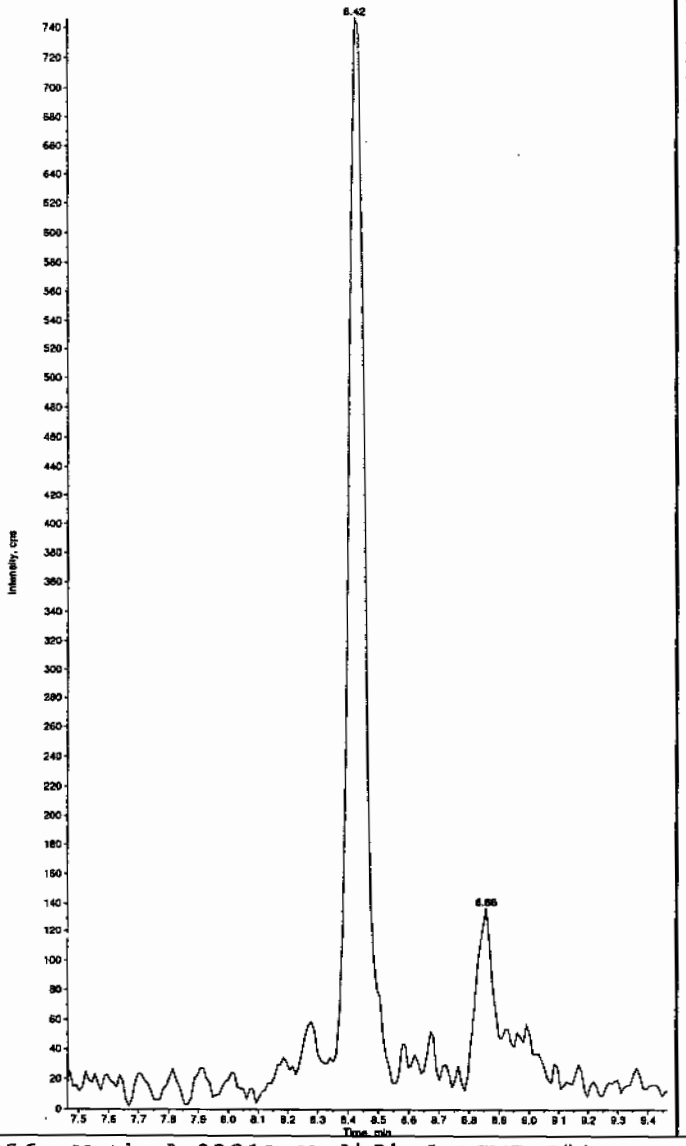
HMM 03/01/10

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

Sample Name: "XIBLK18" Sample ID: "[1]LER" File: "EXS02260163.wiff"
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: 2/28/2010
Acq. Time: 9:19:12 AM

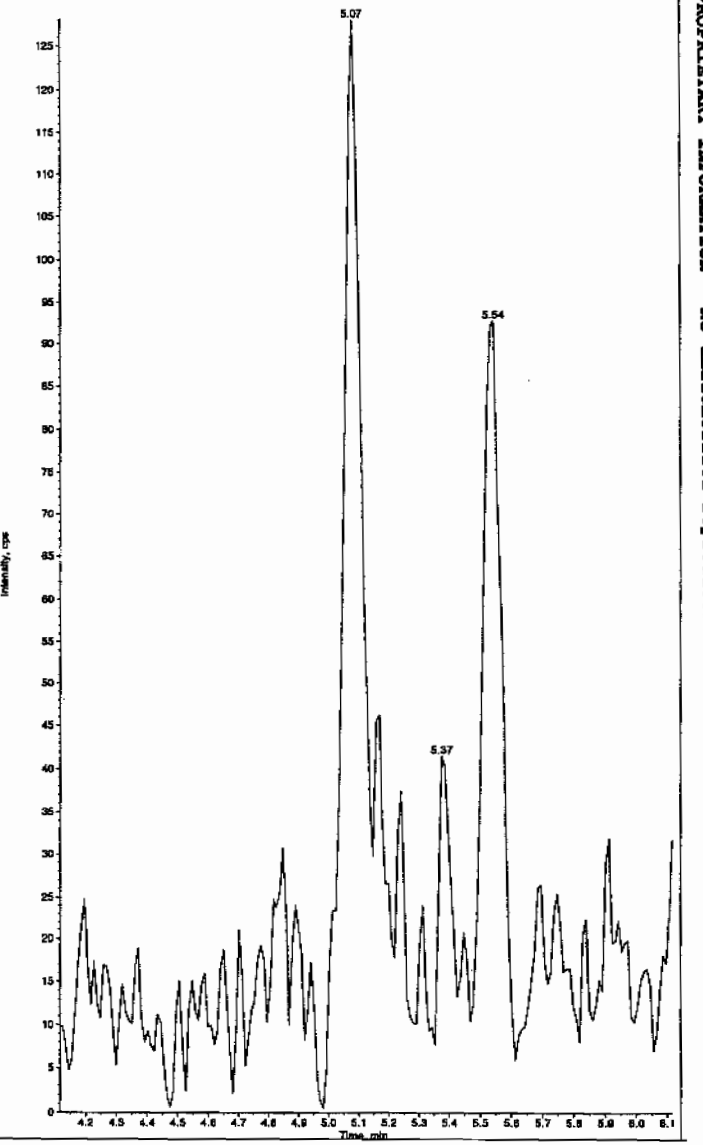
Modified: No



Sample Name: "XIBLK18" Sample ID: "[1]LER" File: "EXS02260163.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:19:12 AM

Modified: No

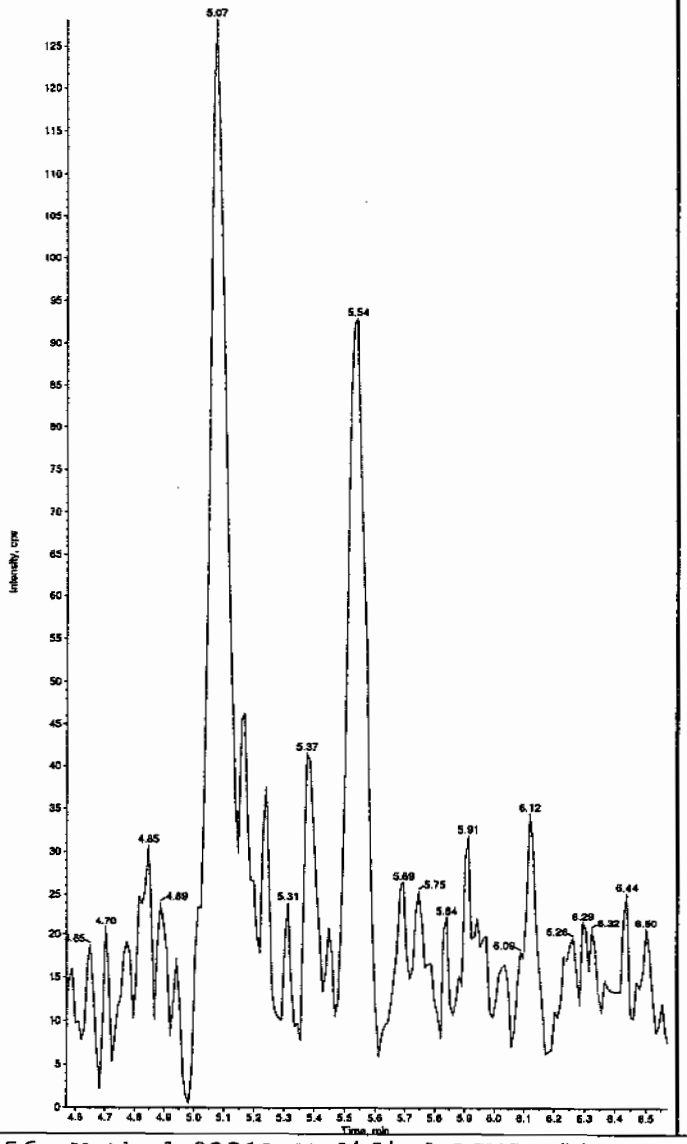


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK18" Sample ID: "|1|LER" File: "EXS02260163.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:19:12 AM

Modified: No

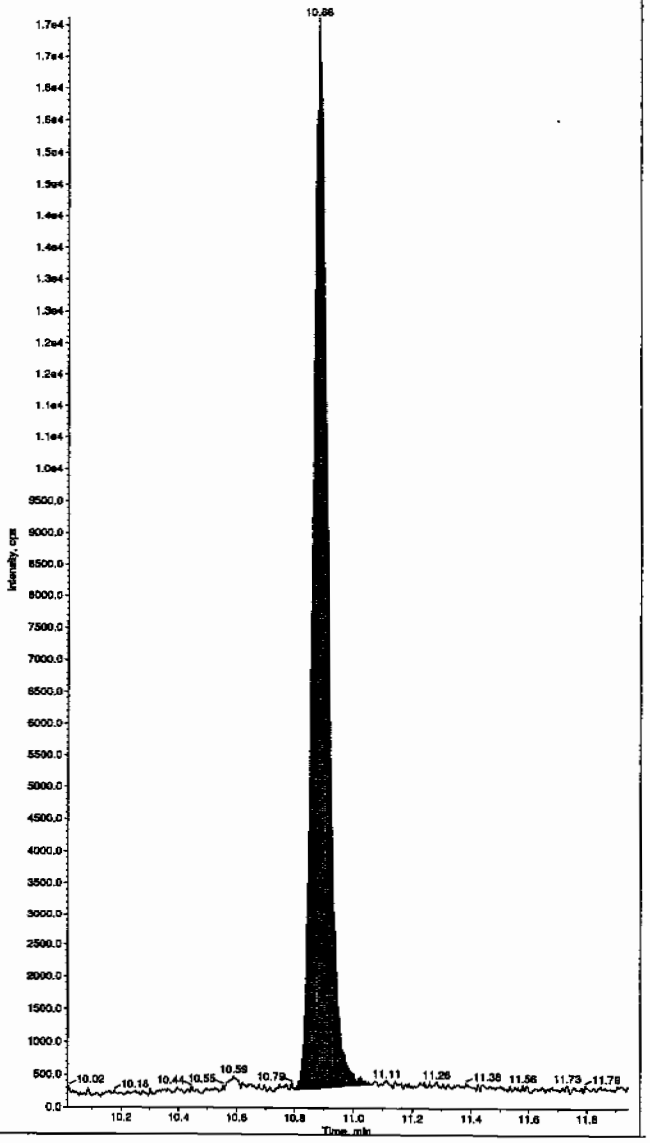


Sample Name: "XIBLK18" Sample ID: "|1|LER" File: "EXS02260163.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/28/2010
Acq. Time: 9:19:12 AM

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: 6.05e+004 counts
Height: 16823.347 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK19

Analysis Date: 28–FEB–10 12:28

GEL Data File: EXS02260175.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

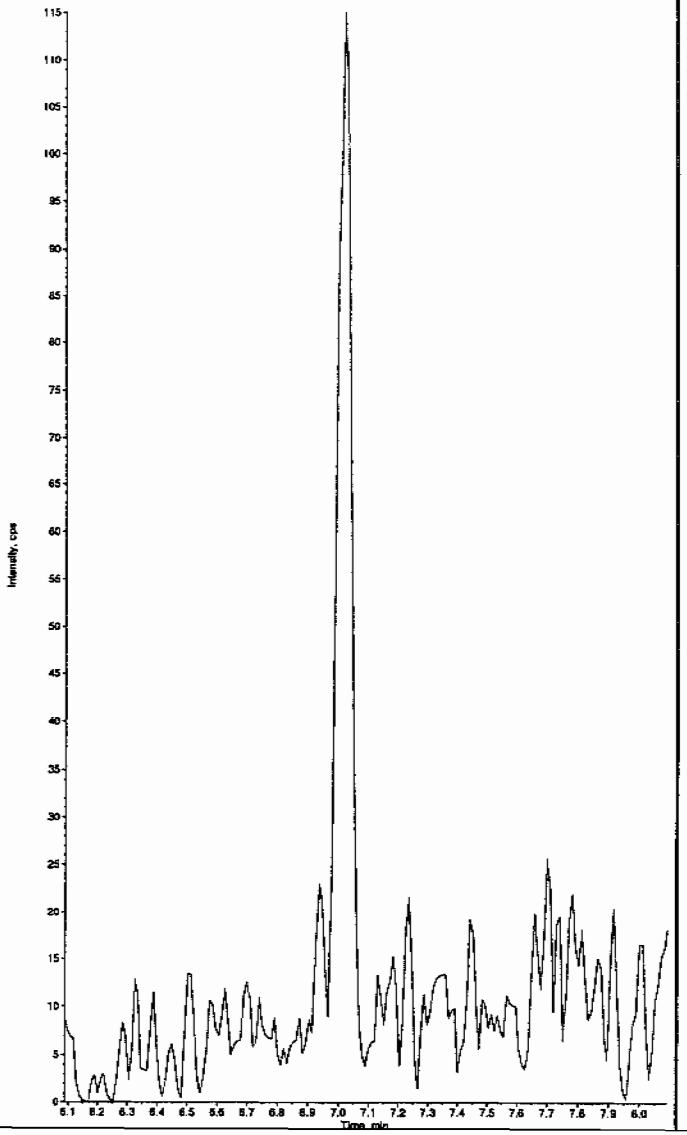
Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	0
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0

Sun 3/1/10

Sample Name: "XIBLK19" Sample ID: "[1]LER" File: "EXS02260175.wiff"
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: 2/28/2010
Acq. Time: 12:28:03 PM

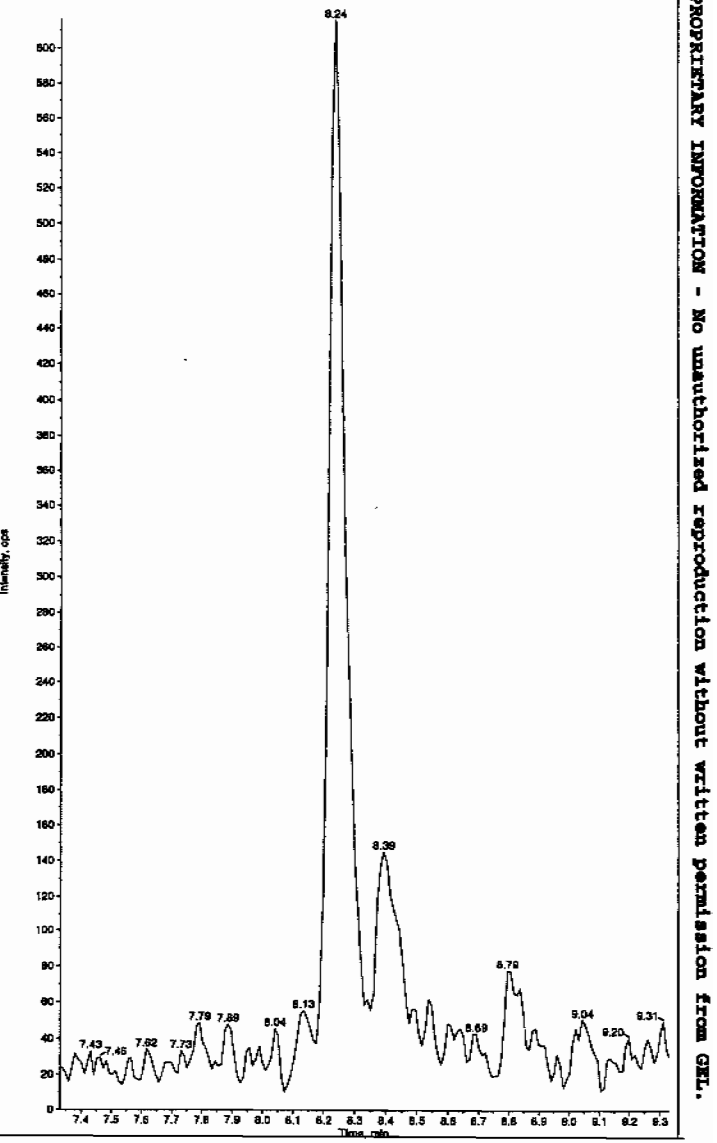
Modified: No



Sample Name: "XIBLK19" Sample ID: "[1]LER" File: "EXS02260175.wiff"
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: 2/28/2010
Acq. Time: 12:28:03 PM

Modified: No



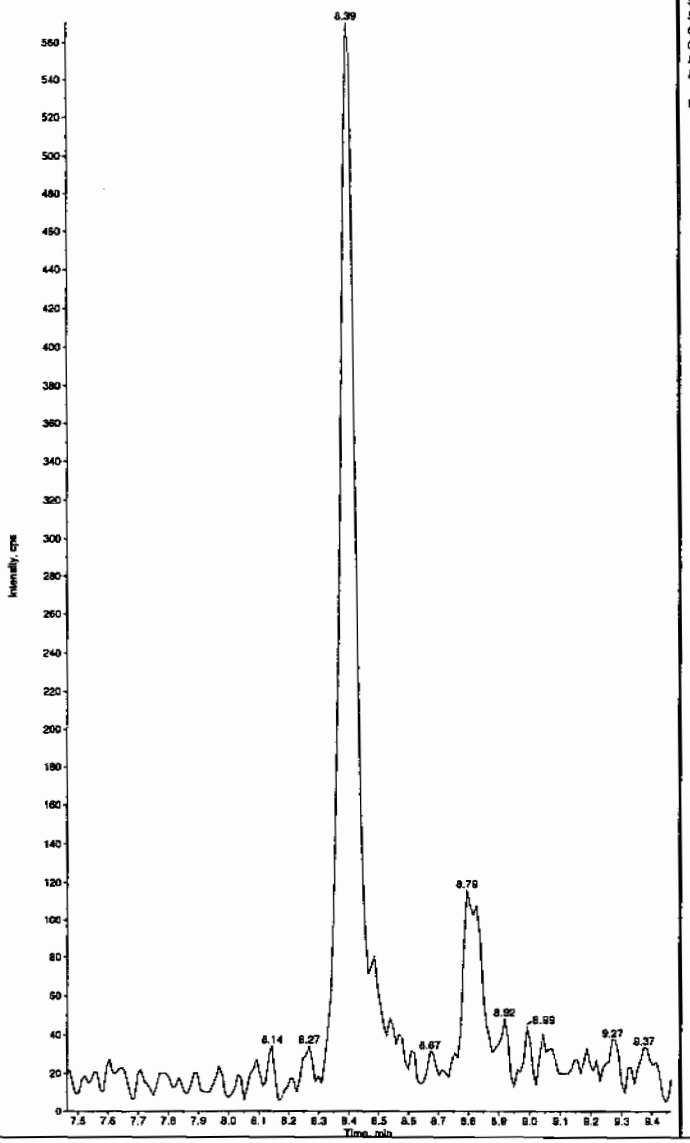
Hmm 03/01/10

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

Sample Name: "XIBLK19" Sample ID: "[1]LER" File: "EXS02260175.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_8" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 12:28:03 PM

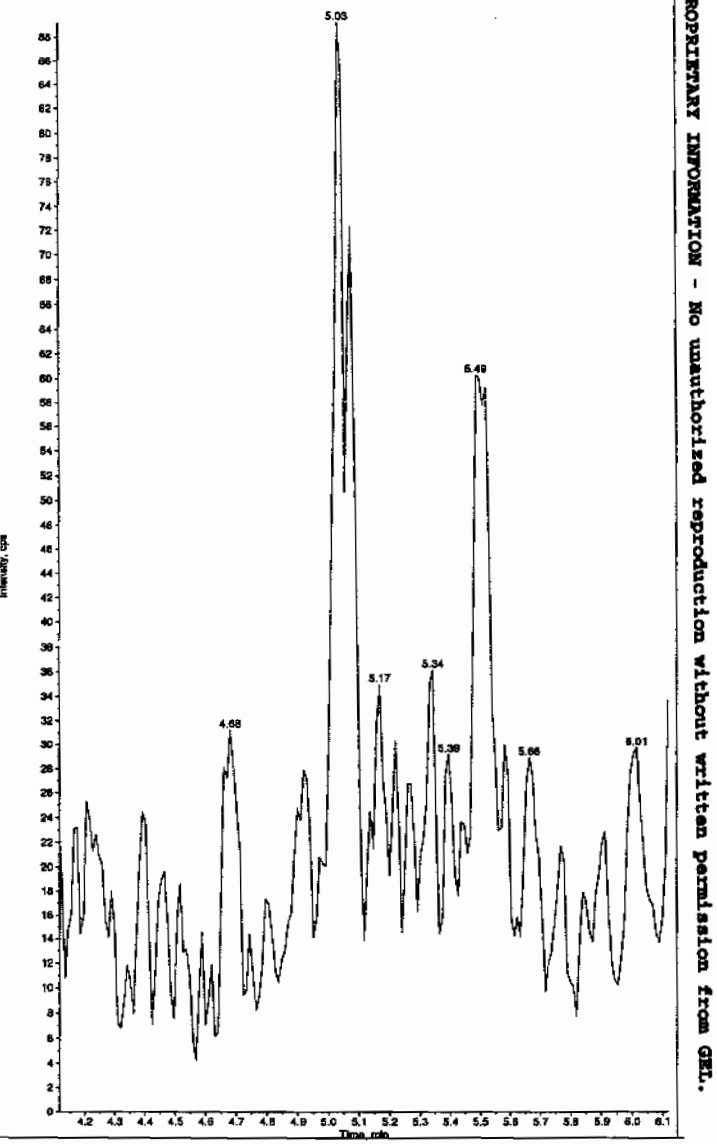
Modified: No



Sample Name: "XIBLK19" Sample ID: "[1]LER" File: "EXS02260175.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_8" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 12:28:03 PM

Modified: No

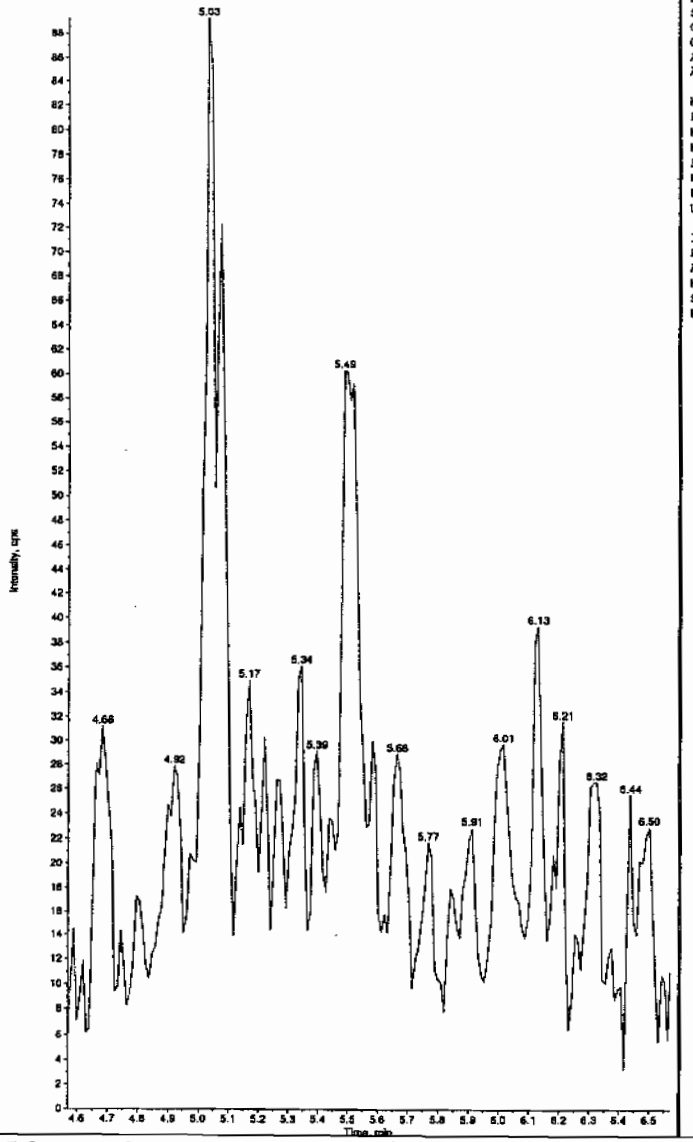


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK19" Sample ID: "[1]LER" File: "EXS02260175.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 12:28:03 PM

Modified: No

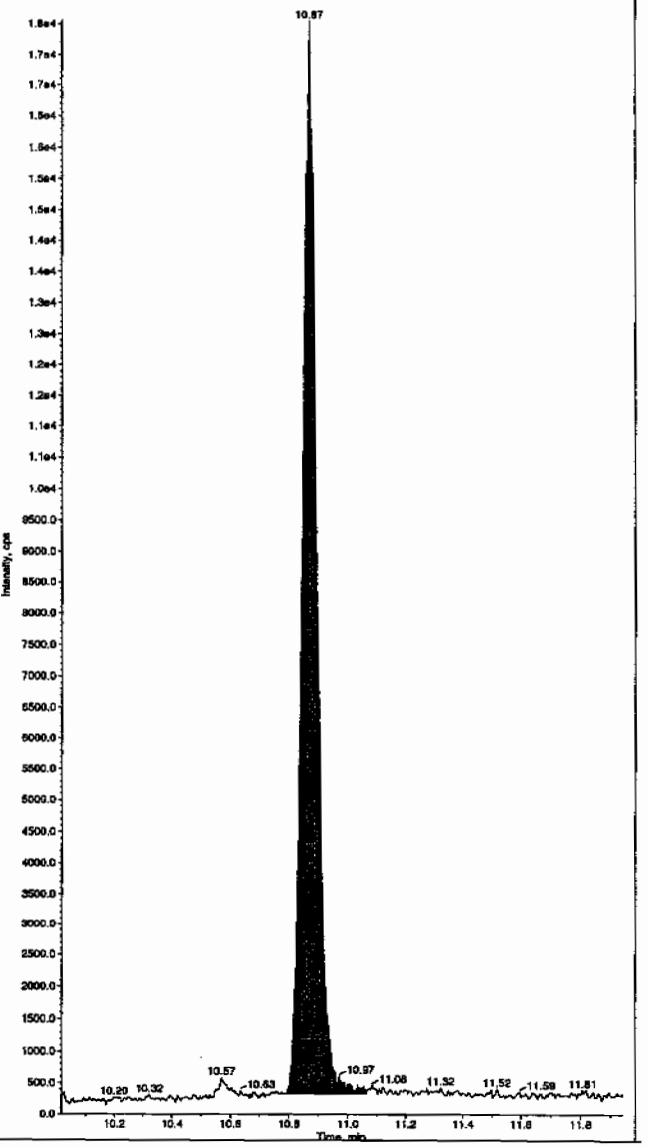


Sample Name: "XIBLK19" Sample ID: "[1]LER" File: "EXS02260175.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/26/2010
Acq. Time: 12:28:03 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: 6.01e+004 counts
Height: 17240.997 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK20

Analysis Date: 28-FEB-10 15:52

GEL Data File: EXS02260188.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

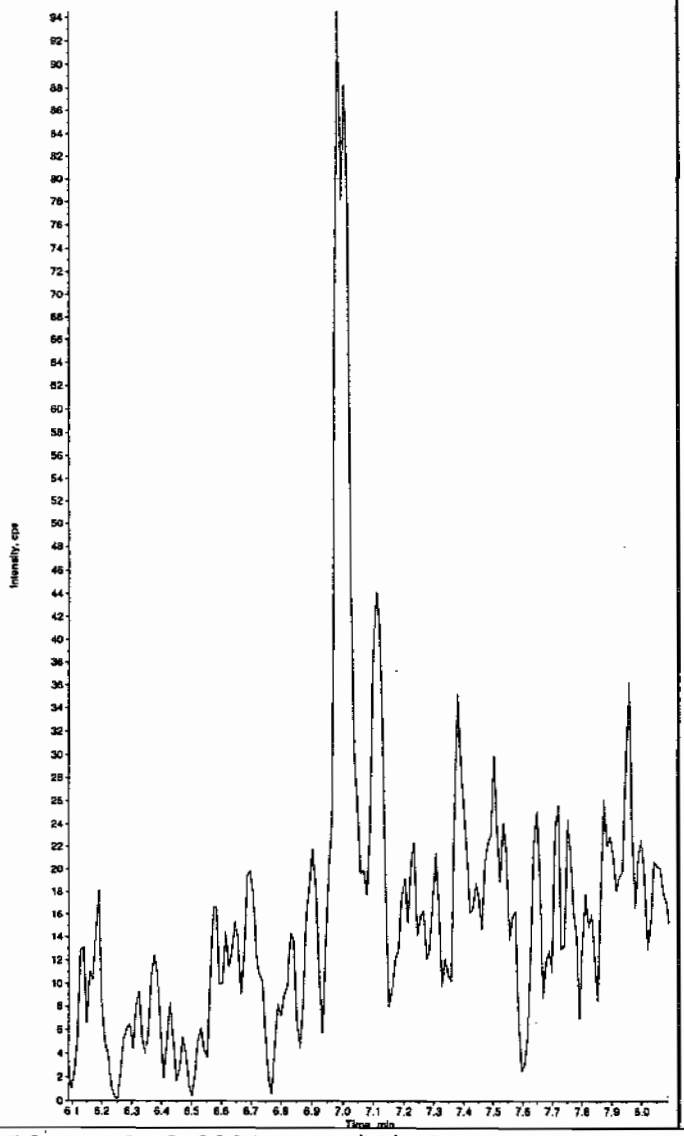
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Scan 3/1/10

Sample Name: "XIBLK20" Sample ID: "|1|LER" File: "EXS02260188.wiff"
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: 2/28/2010
Acq. Time: 3:52:32 PM

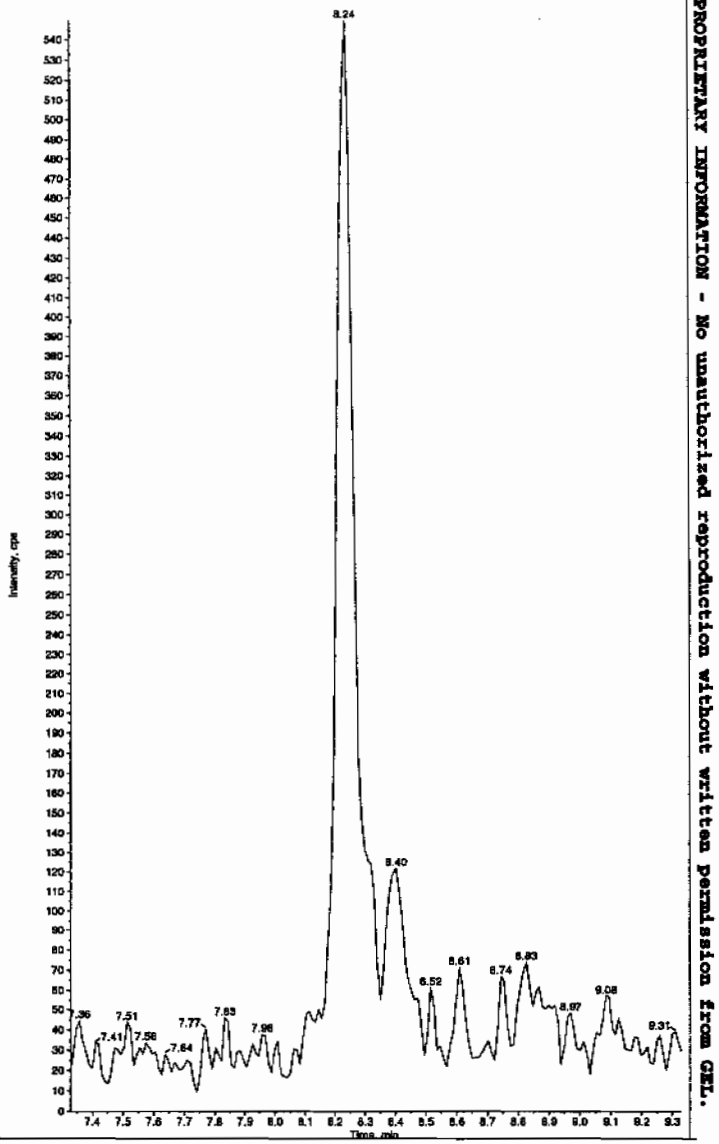
Modified: No



Sample Name: "XIBLK20" Sample ID: "|1|LER" File: "EXS02260188.wiff"
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: 2/28/2010
Acq. Time: 3:52:32 PM

Modified: No



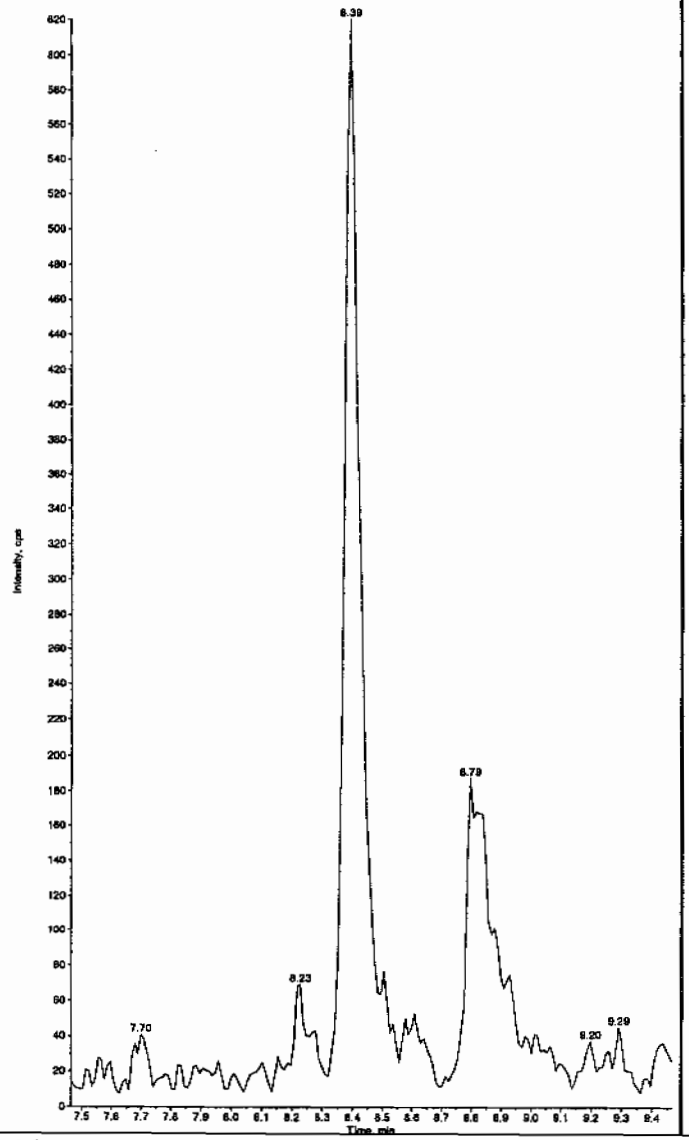
AM 03/01/10

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

Sample Name: "XIBLK20" Sample ID: "[1]LER" File: "EXS02260188.wiff"
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: 2/28/2010
Acq. Time: 3:52:32 PM

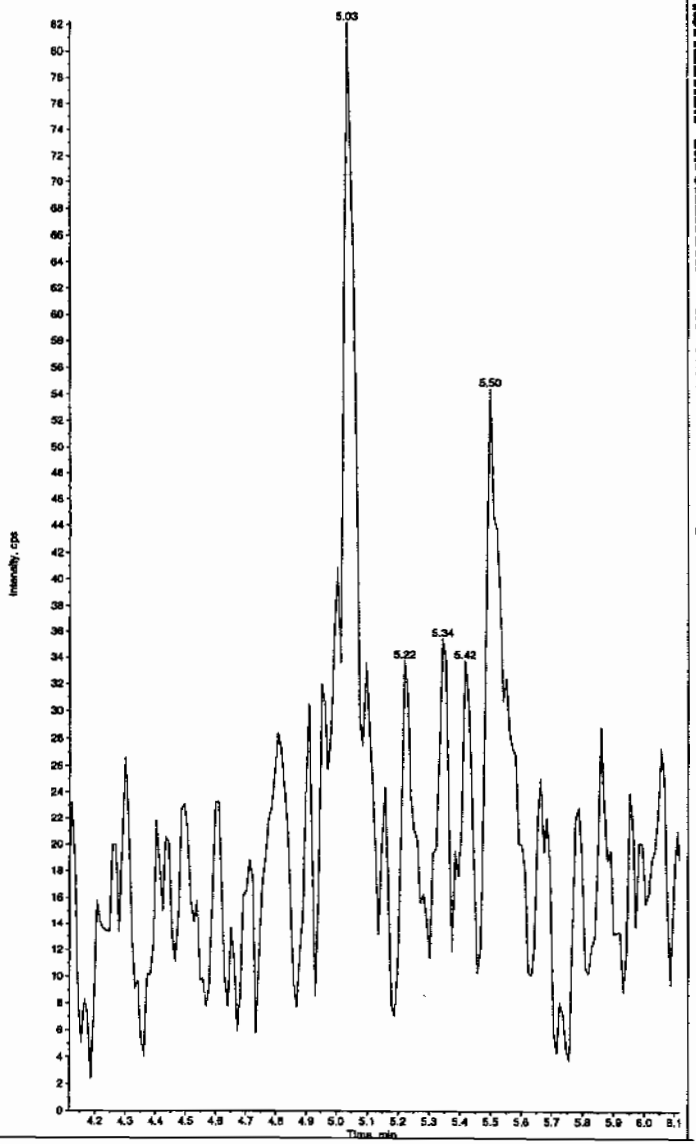
Modified: No



Sample Name: "XIBLK20" Sample ID: "[1]LER" File: "EXS02260188.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:52:32 PM

Modified: No

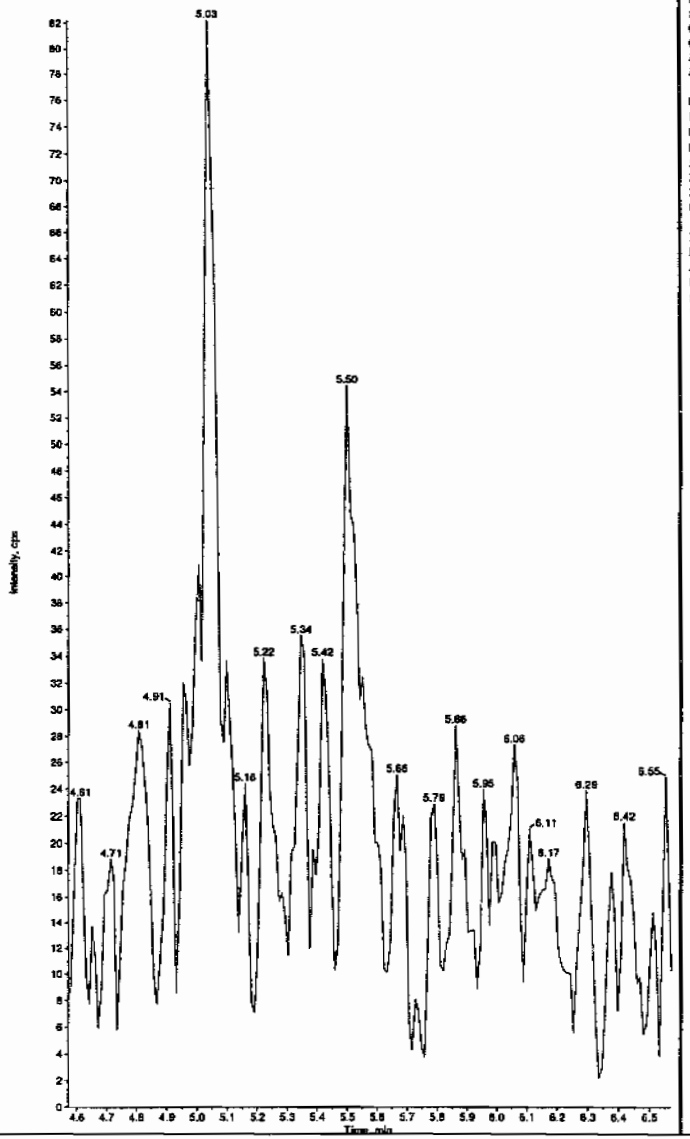


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK20" Sample ID: "[1]LER" File: "EXS02260188.wiff"
Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "165.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:52:32 PM

Modified: No

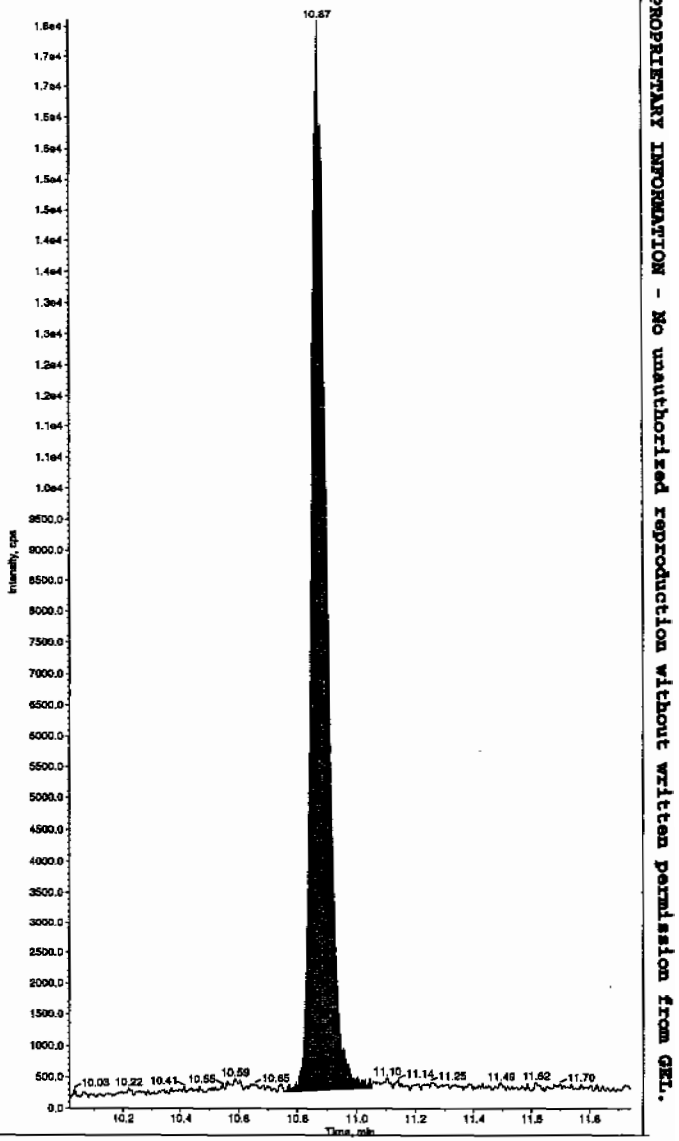


Sample Name: "XIBLK20" Sample ID: "[1]LER" File: "EXS02260188.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/28/2010
Acq. Time: 3:52:32 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: 6.25e+004 counts
Height: 17317.005 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK23

Analysis Date: 28-FEB-10 22:41

GEL Data File: EXS02260214.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

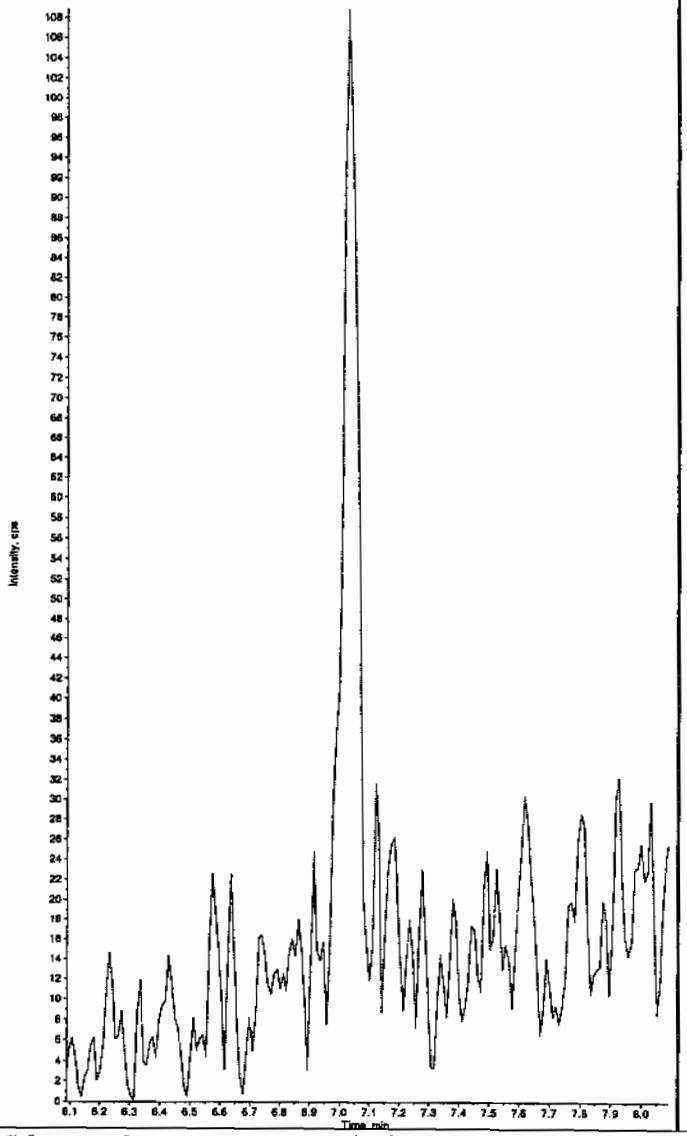
Compound	True	Found (ug/L)
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0

Jan 3/1/10

Sample Name: "XIBLK23" Sample ID: "[1]LER" File: "EXS02260214.wiff"
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: 2/28/2010
Acq. Time: 10:41:53 PM

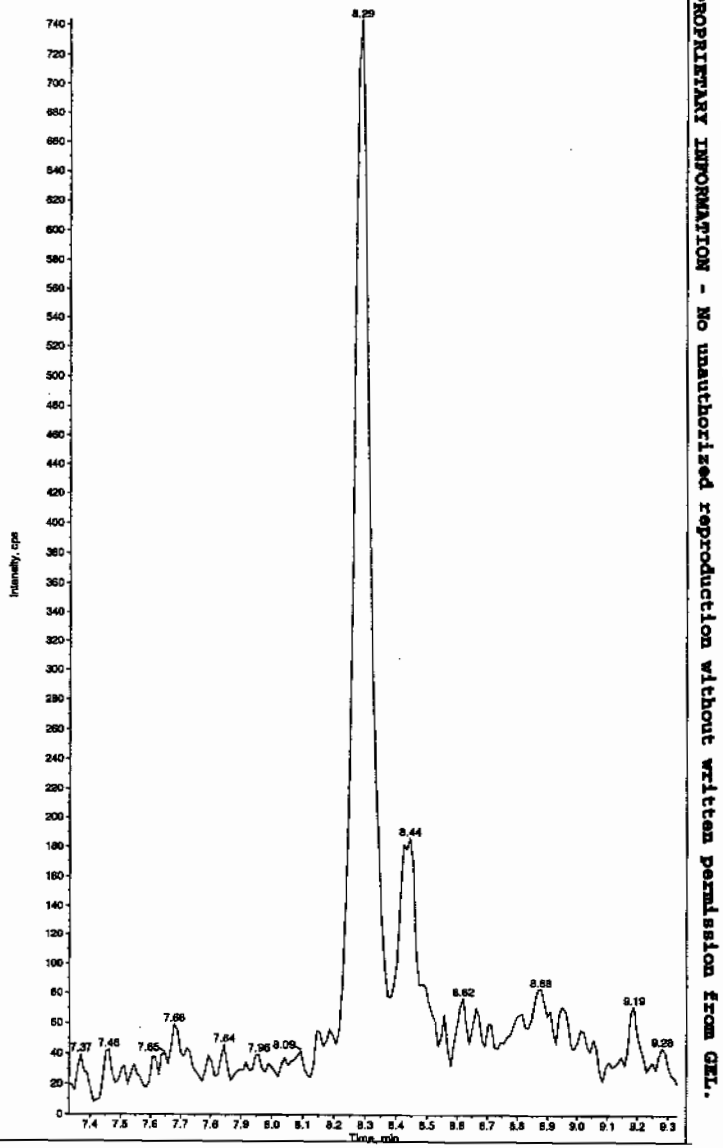
Modified: No



Sample Name: "XIBLK23" Sample ID: "[1]LER" File: "EXS02260214.wiff"
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: 2/28/2010
Acq. Time: 10:41:53 PM

Modified: No



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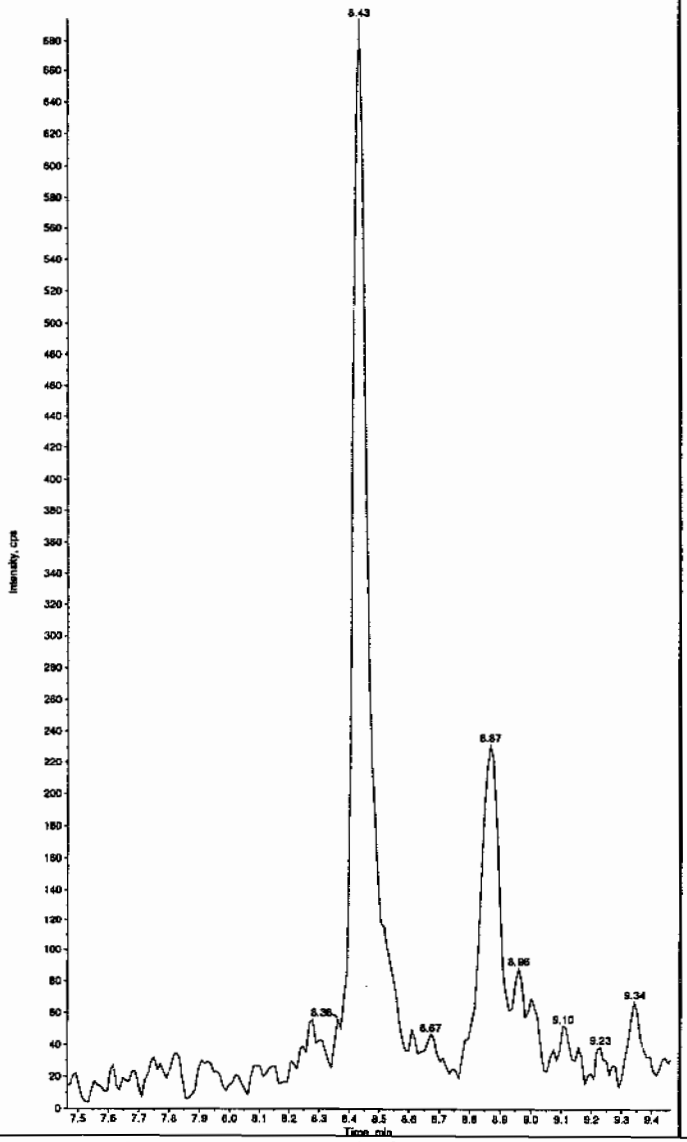
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK23" Sample ID: "|1|LER" File: "EXS02260214.wiff"
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: 2/26/2010
Acq. Time: 10:41:53 PM

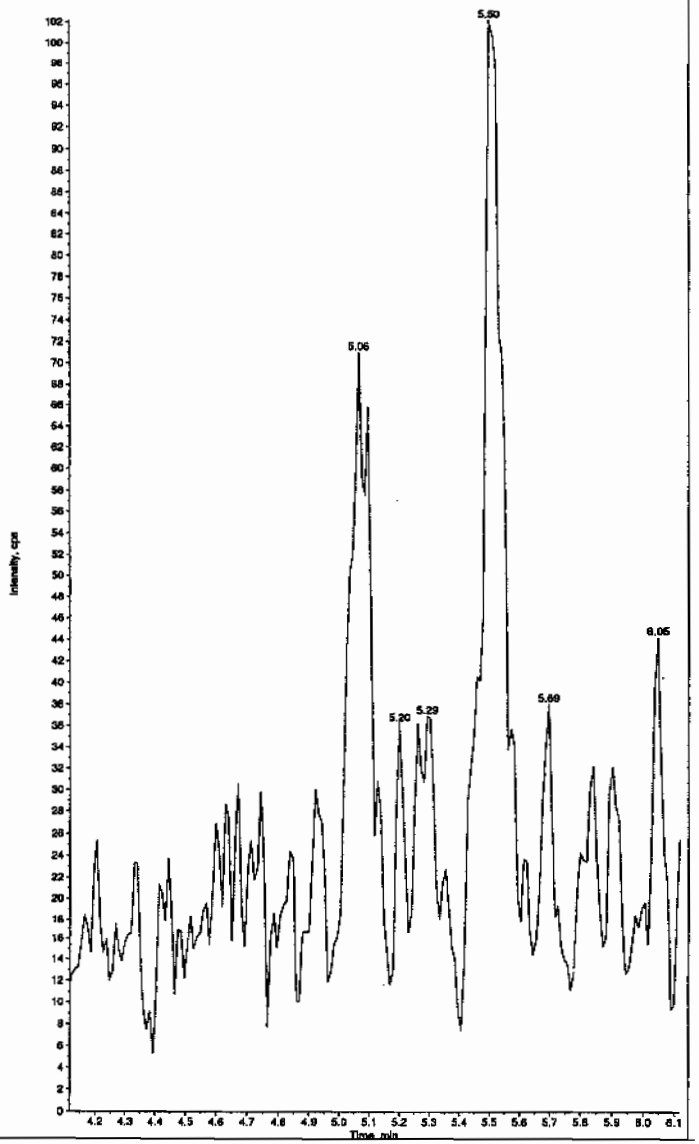
Modified: No



Sample Name: "XIBLK23" Sample ID: "|1|LER" File: "EXS02260214.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:41:53 PM

Modified: No

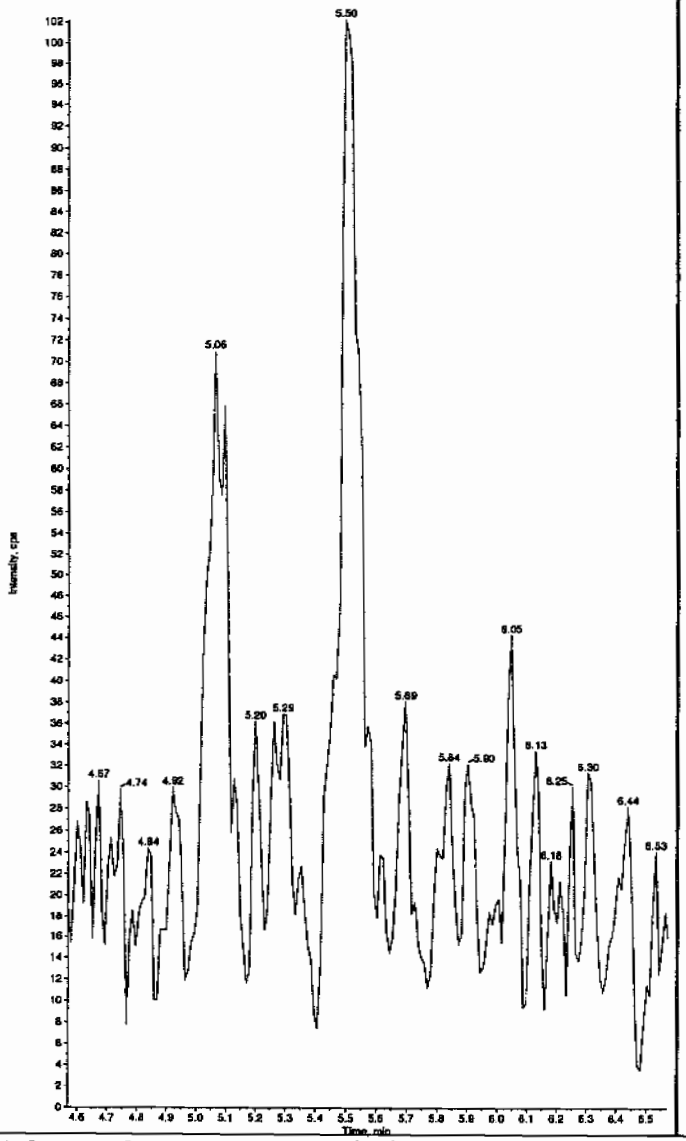


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK23" Sample ID: "|1|LER" File: "EXS02260214.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:41:53 PM

Modified: No

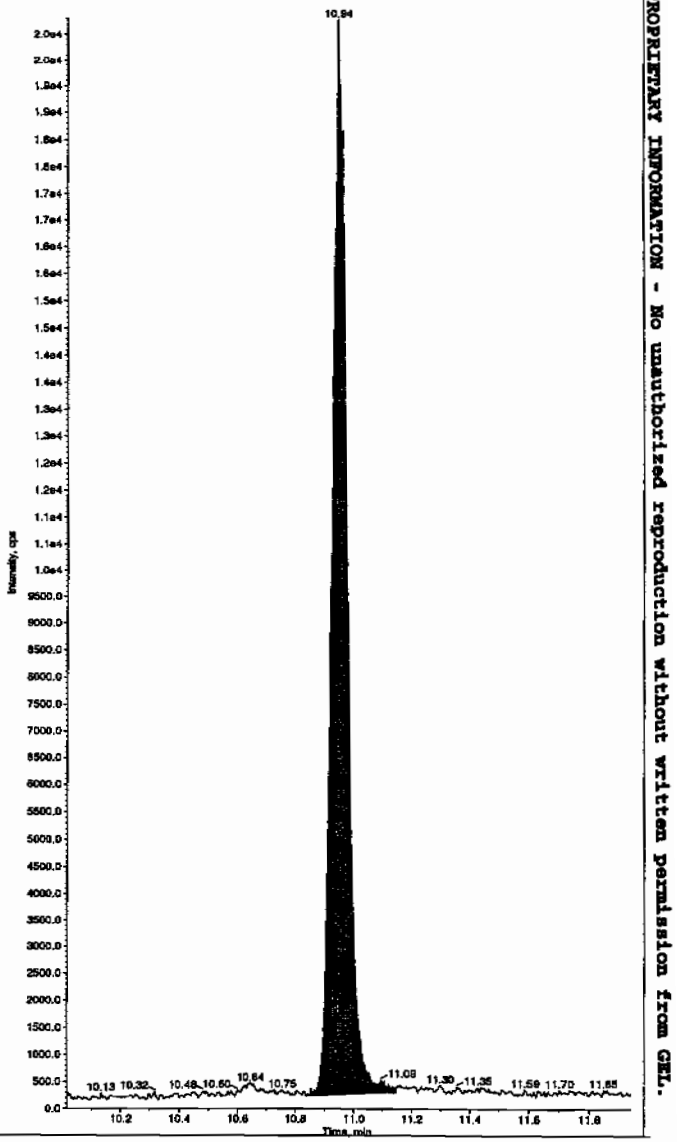


Sample Name: "XIBLK23" Sample ID: "|1|LER" File: "EXS02260214.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 2/28/2010
Acq. Time: 10:41:53 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: 10.9 min
Area: 7.25e+004 counts
Height: 20036.413 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK24

Analysis Date: 01-MAR-10 01:34

GEL Data File: EXS02260225.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

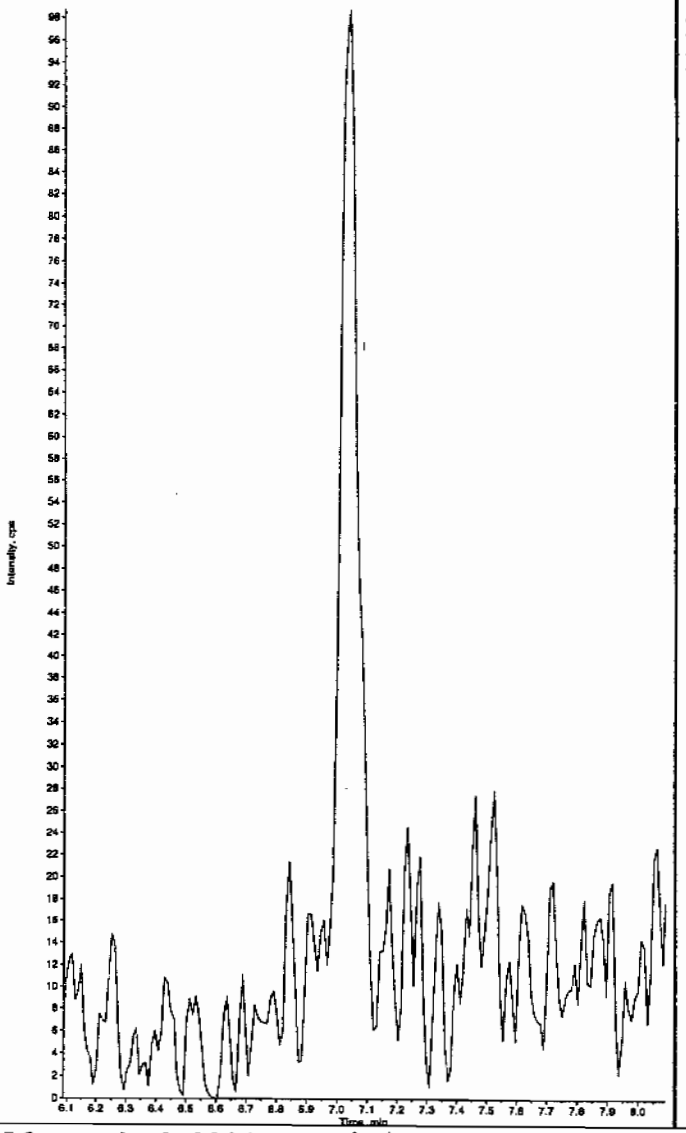
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Ocer 3/1/10

Sample Name: "XIBLK24" Sample ID: "1|1|LER" File: "EXS02260225.wiff"
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: 3/1/2010
Acq. Time: 1:34:56 AM

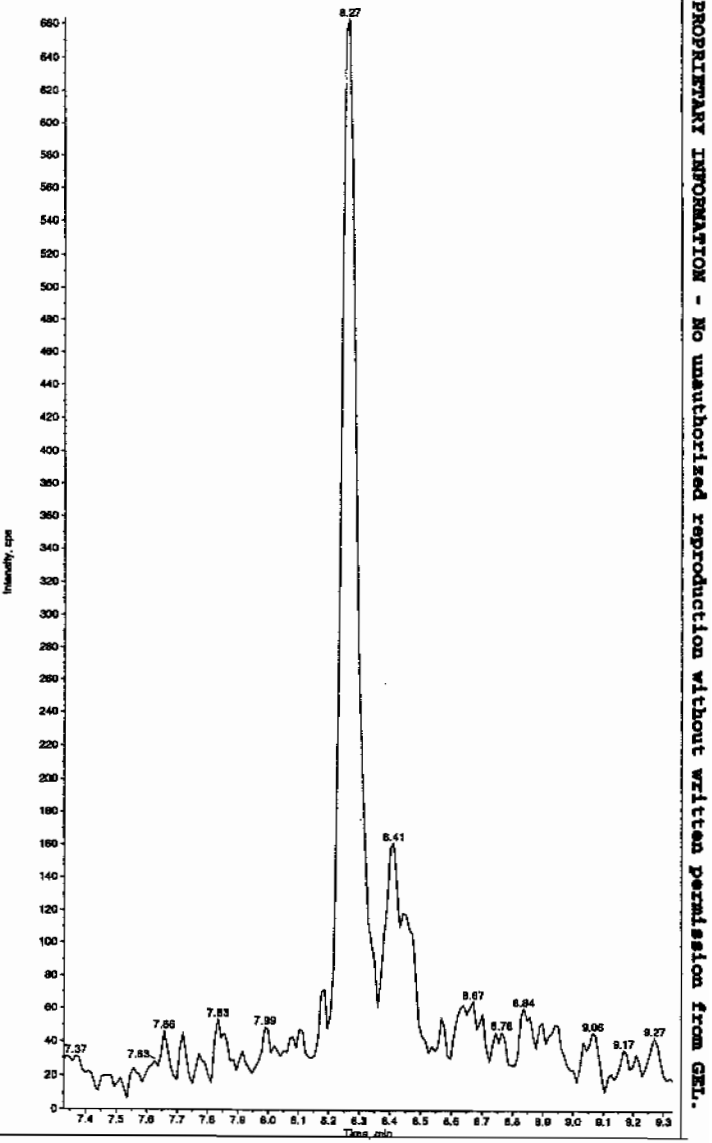
Modified: No



Sample Name: "XIBLK24" Sample ID: "1|1|LER" File: "EXS02260225.wiff"
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: 3/1/2010
Acq. Time: 1:34:56 AM

Modified: No



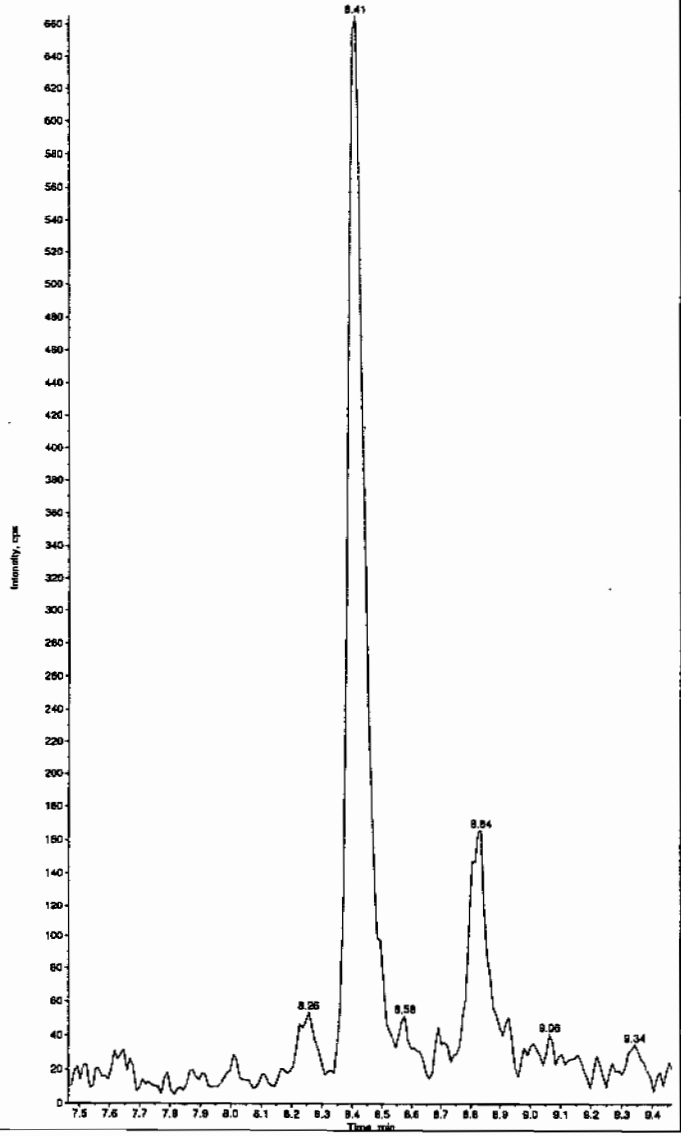
Hmm 03/01/10

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

Sample Name: "XIBLK24" Sample ID: "|1|LER" File: "EXS02260225.wiff"
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: 3/1/2010
Acq. Time: 1:34:56 AM

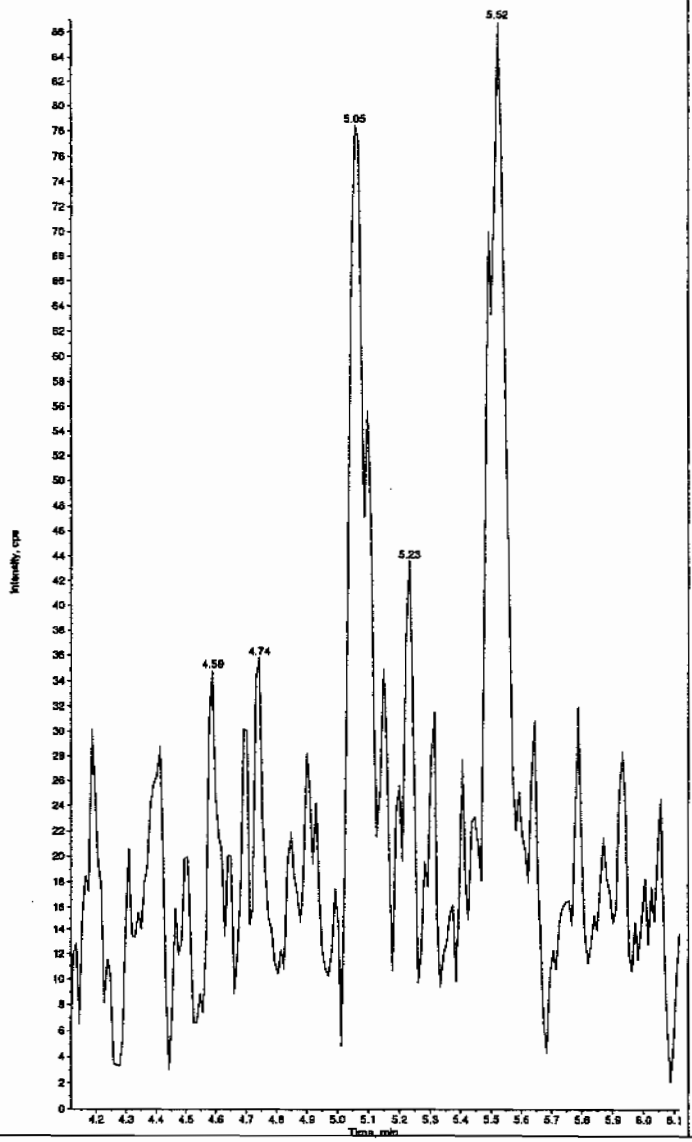
Modified: No



Sample Name: "XIBLK24" Sample ID: "|1|LER" File: "EXS02260225.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:34:56 AM

Modified: No

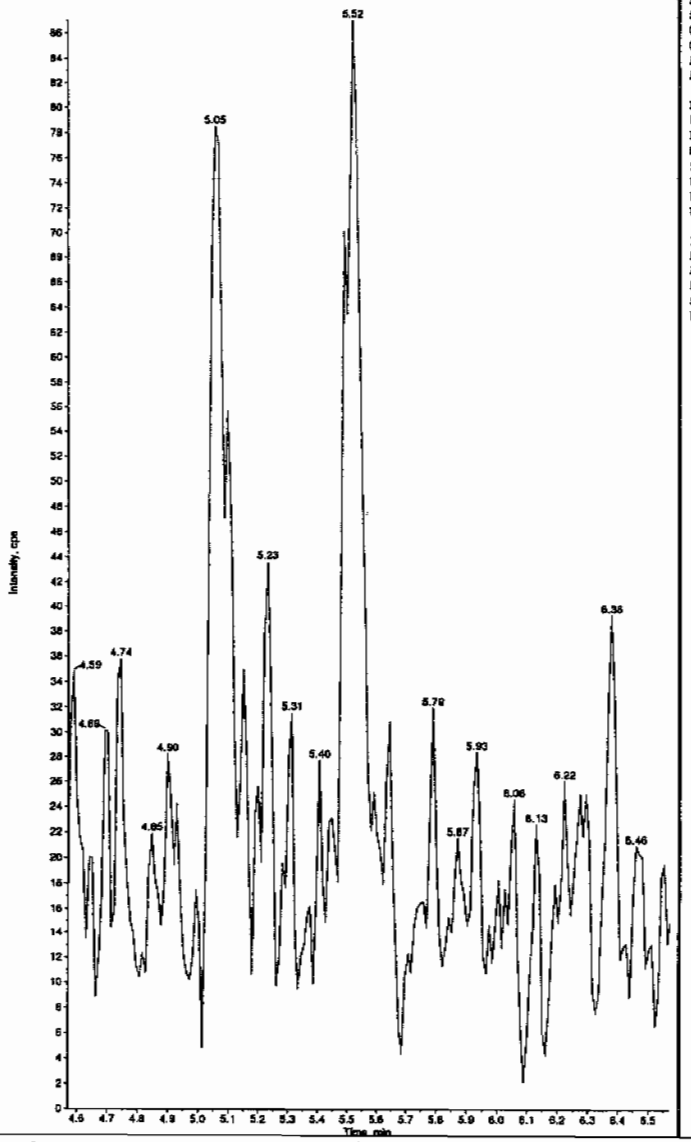


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK24" Sample ID: "[1]LER" File: "EXS02260225.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:34:56 AM

Modified: No

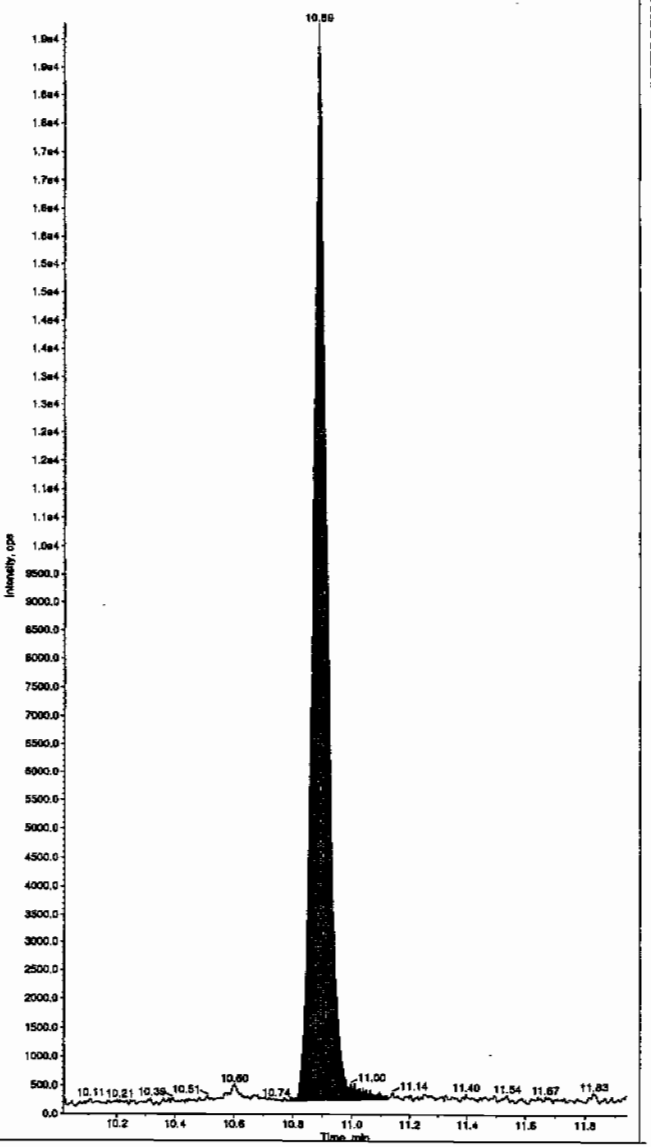


Sample Name: "XIBLK24" Sample ID: "[1]LER" File: "EXS02260225.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 3/1/2010
Acq. Time: 1:34:56 AM

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: 6.45e+004 counts
Height: 19045.187 cps
Start Time: 10.8 min
End Time: 11.1 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 01-MAR-10 11:24

GEL Data File: EXS03010010.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

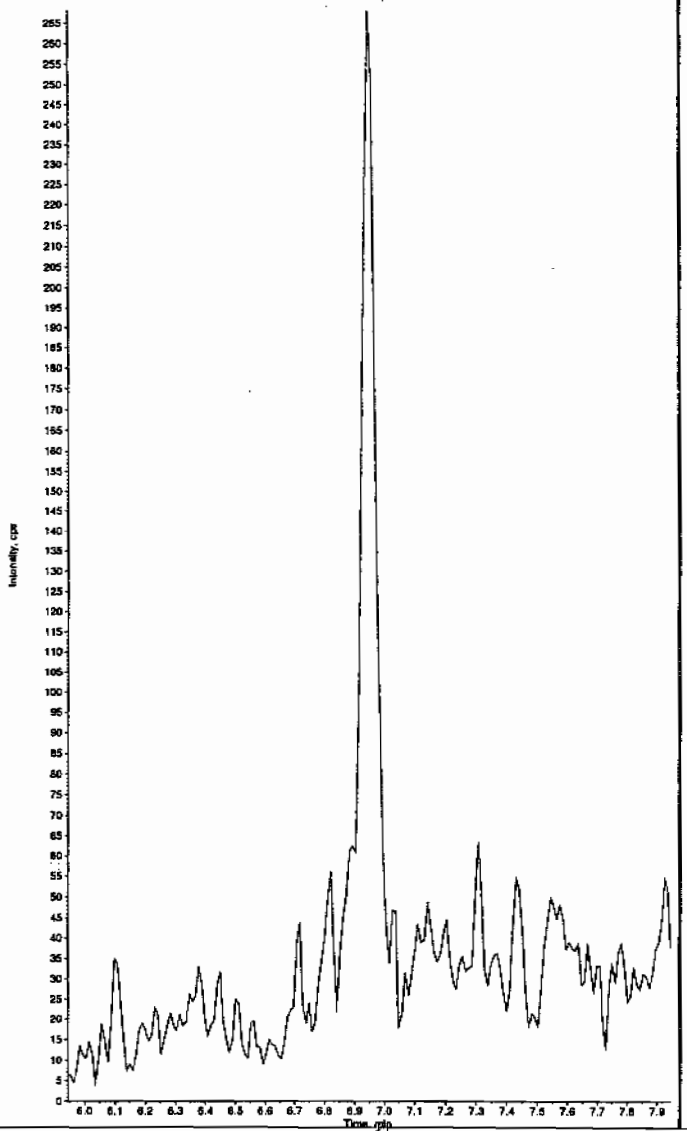
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	2.74
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Lan 3/3/10

Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS03010010.wiff"
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: 3/1/2010
Acq. Time: 11:24:42 AM

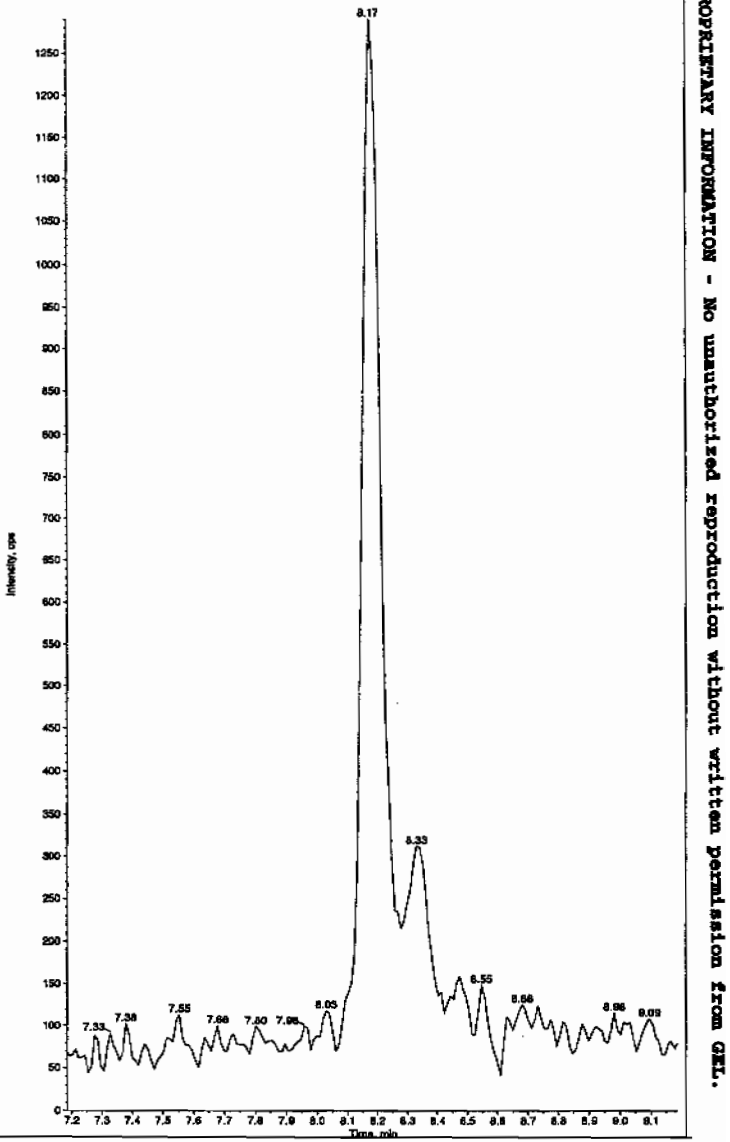
Modified: No



Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS03010010.wiff"
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: 3/1/2010
Acq. Time: 11:24:42 AM

Modified: No



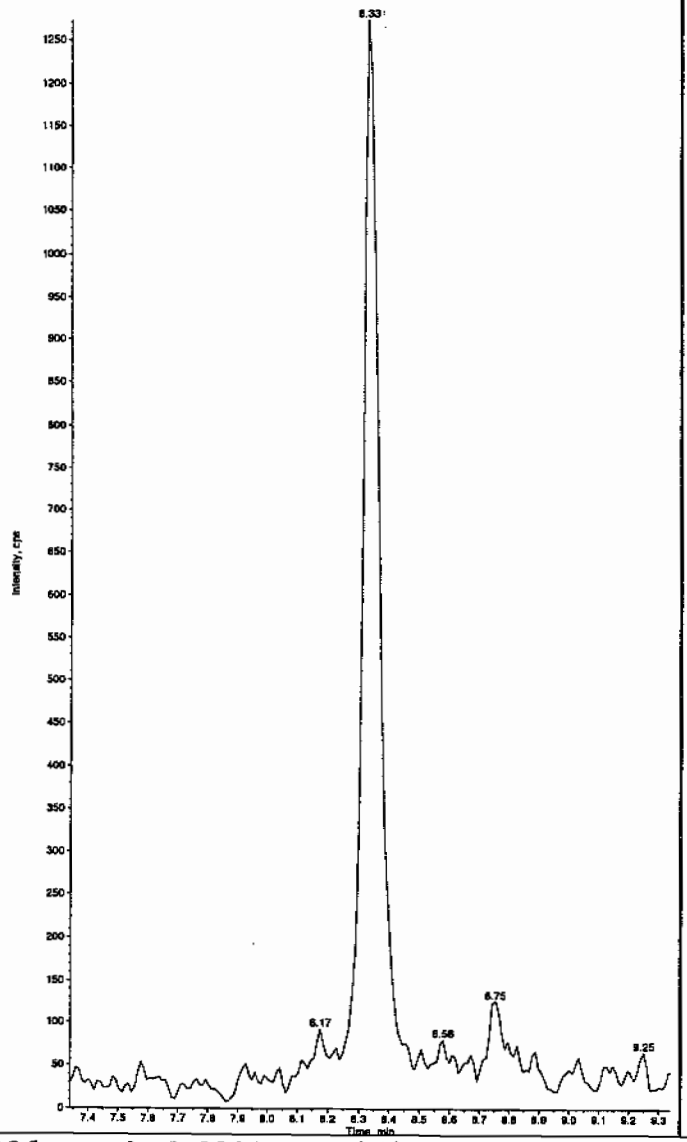
HMM 03/04/10

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

Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS03010010.wiff"
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: 3/1/2010
Acq. Time: 11:24:42 AM

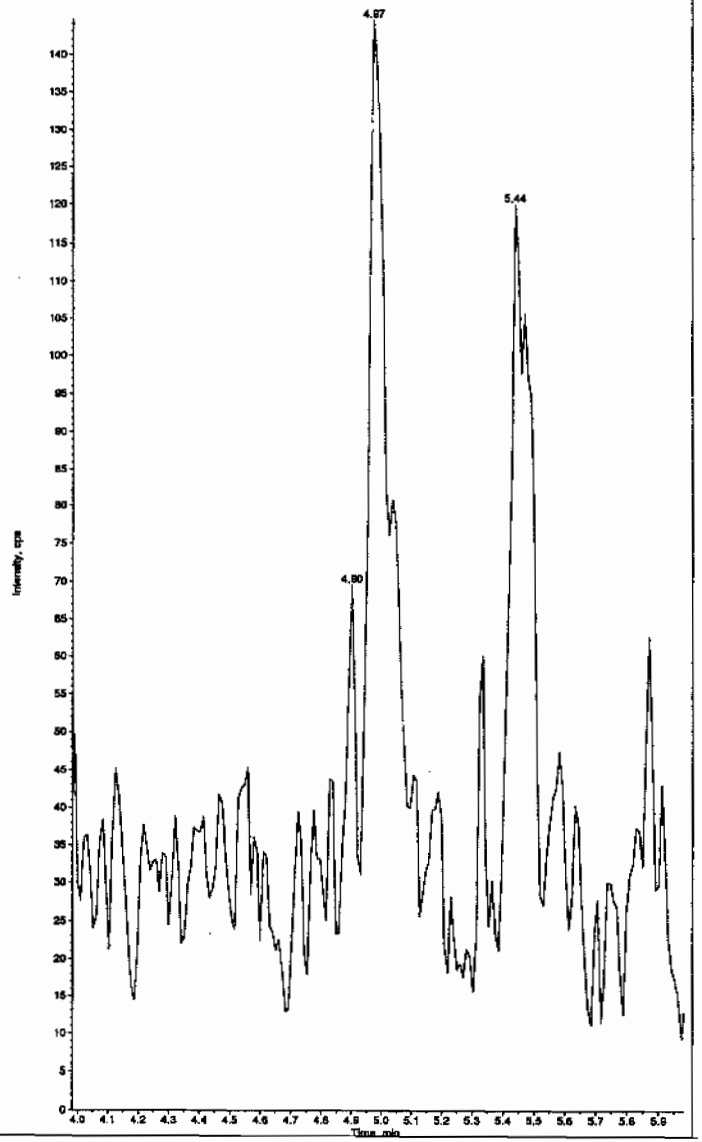
Modified: No



Sample Name: "XIBLK02" Sample ID: "[1]LER" File: "EXS03010010.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:24:42 AM

Modified: No

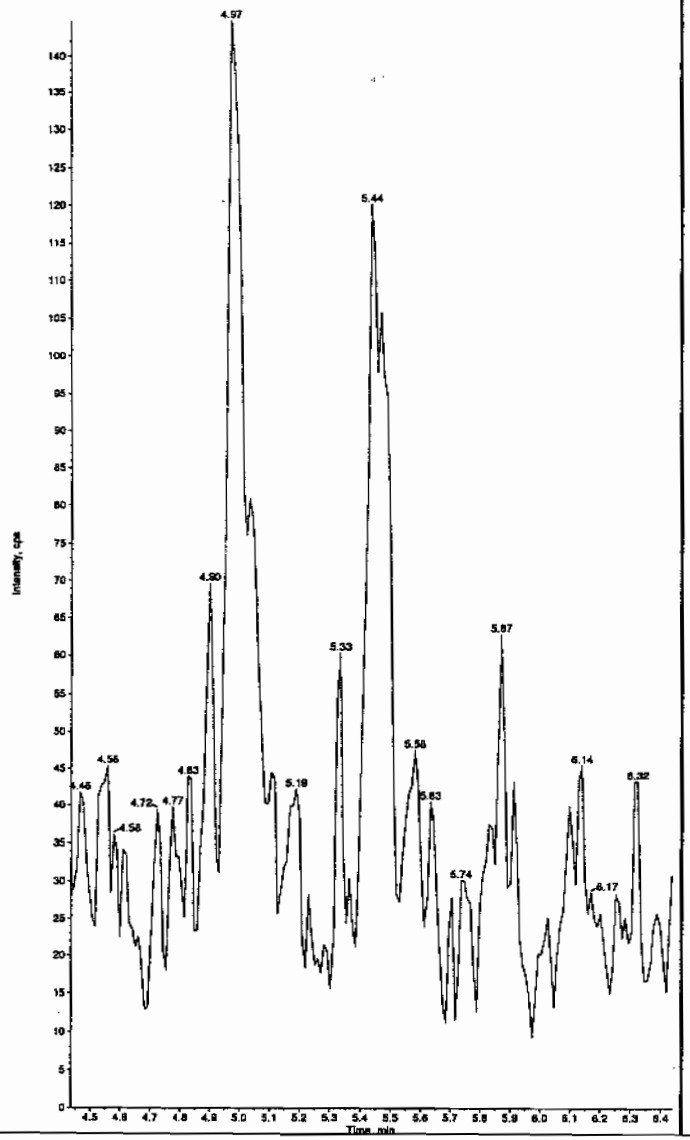


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK02" Sample ID: "1|1|LER" File: "EXS03010010.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:24:42 AM

Modified: No

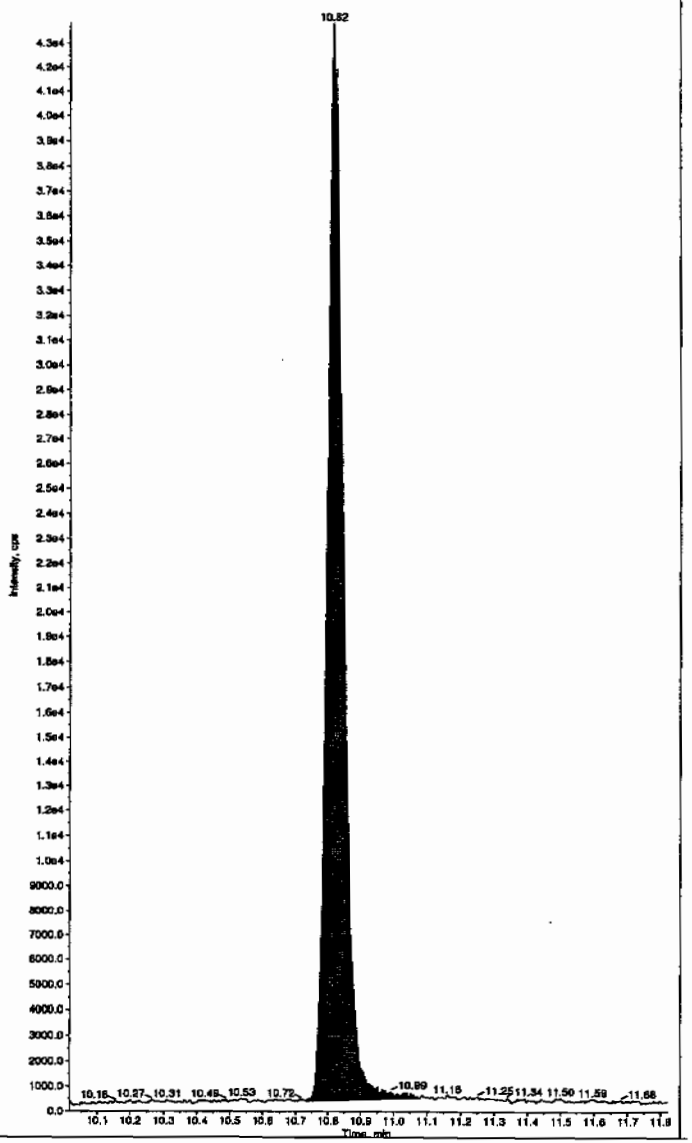


Sample Name: "XIBLK02" Sample ID: "1|1|LER" File: "EXS03010010.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 2.74 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:24:42 AM

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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 1.55e+005 counts
Height: 43378.235 cps
Start Time: 10.7 min
End Time: 11.1 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 01-MAR-10 11:56

GEL Data File: EXS03010012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

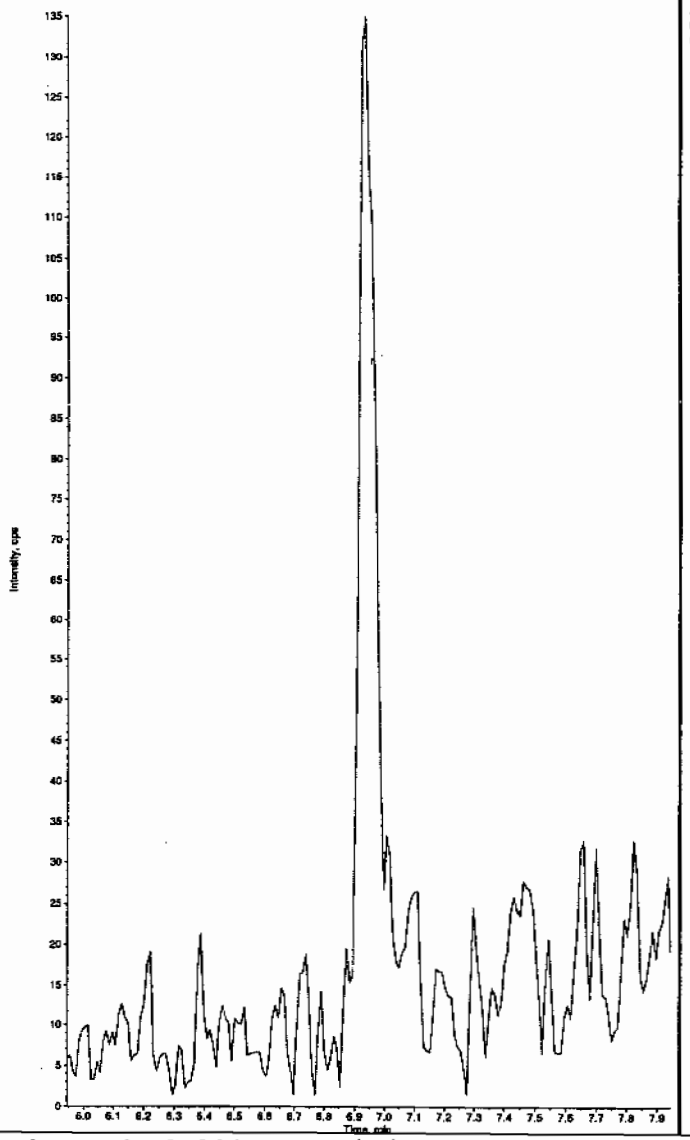
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Fxn 3/3/10

Sample Name: "XBLK03" Sample ID: "[1]LER" File: "EXS03010012.wiff"
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: 3/1/2010
Acq. Time: 11:56:08 AM

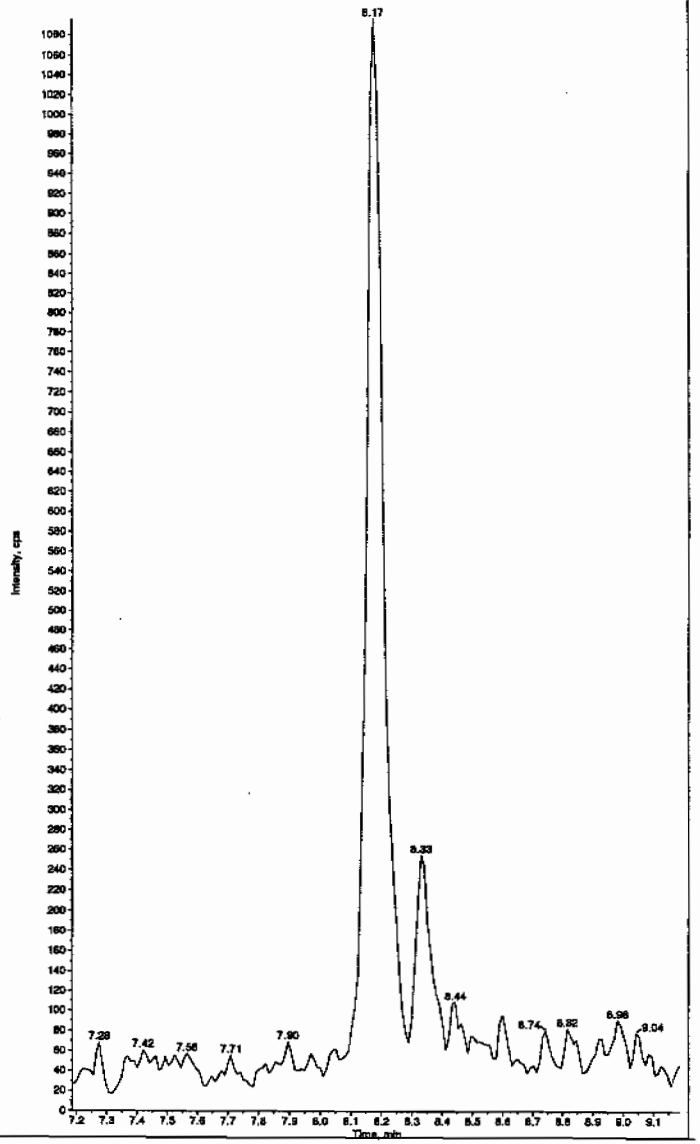
Modified: No



Sample Name: "XBLK03" Sample ID: "[1]LER" File: "EXS03010012.wiff"
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: 3/1/2010
Acq. Time: 11:56:08 AM

Modified: No



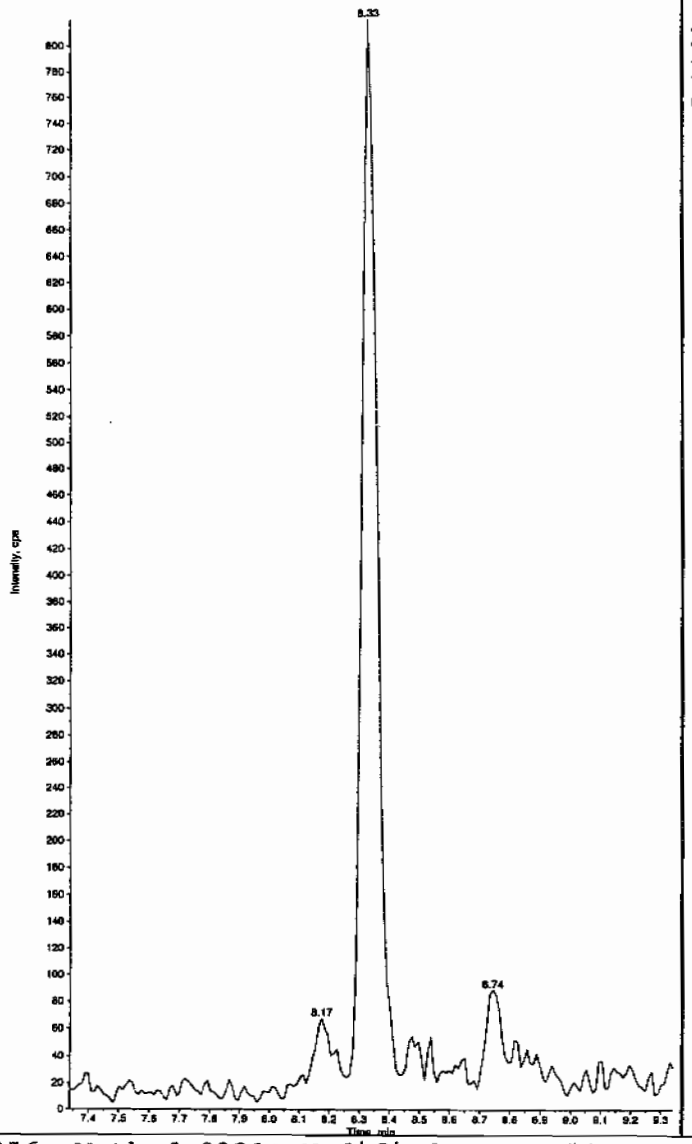
Hrm 03/04/10

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

Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS03010012.wiff"
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: 3/1/2010
Acq. Time: 11:56:08 AM

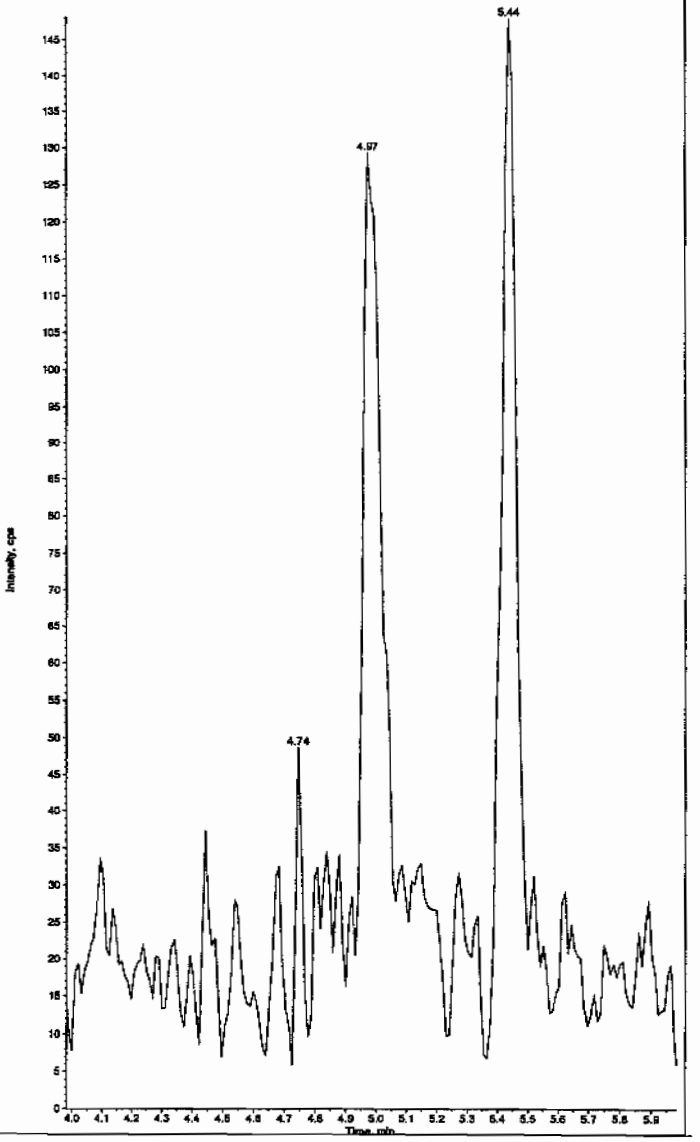
Modified: No



Sample Name: "XIBLK03" Sample ID: "[1]LER" File: "EXS03010012.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:56:08 AM

Modified: No

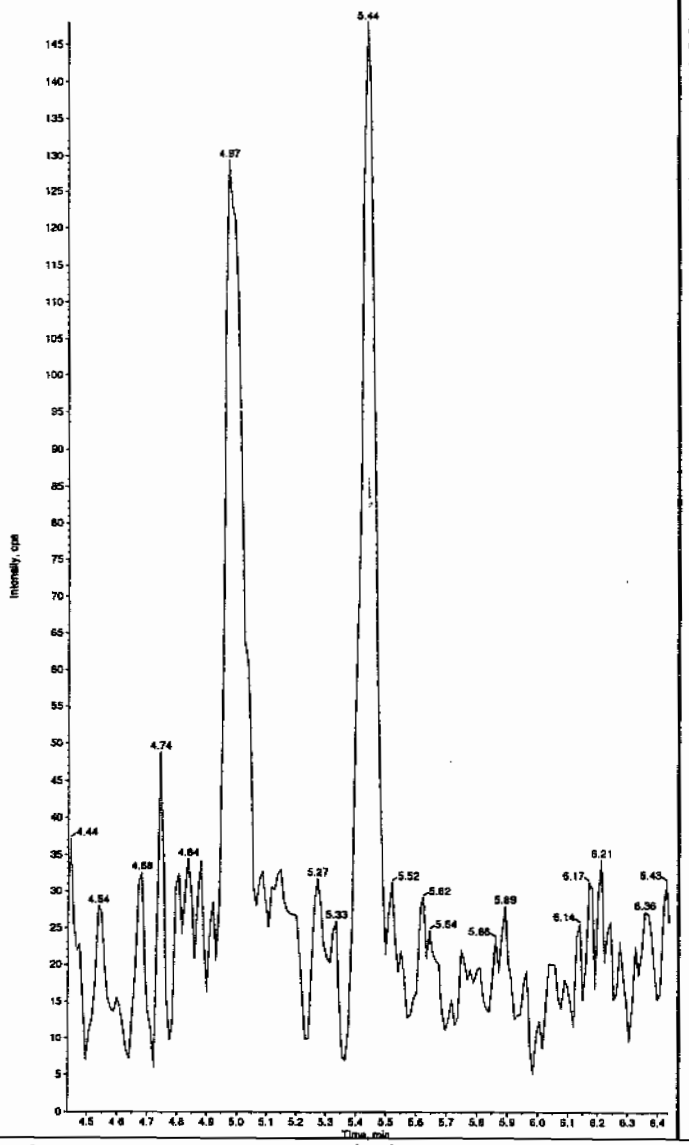


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK03" Sample ID: "|1|LER" File: "EXS03010012.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:56:08 AM

Modified: No

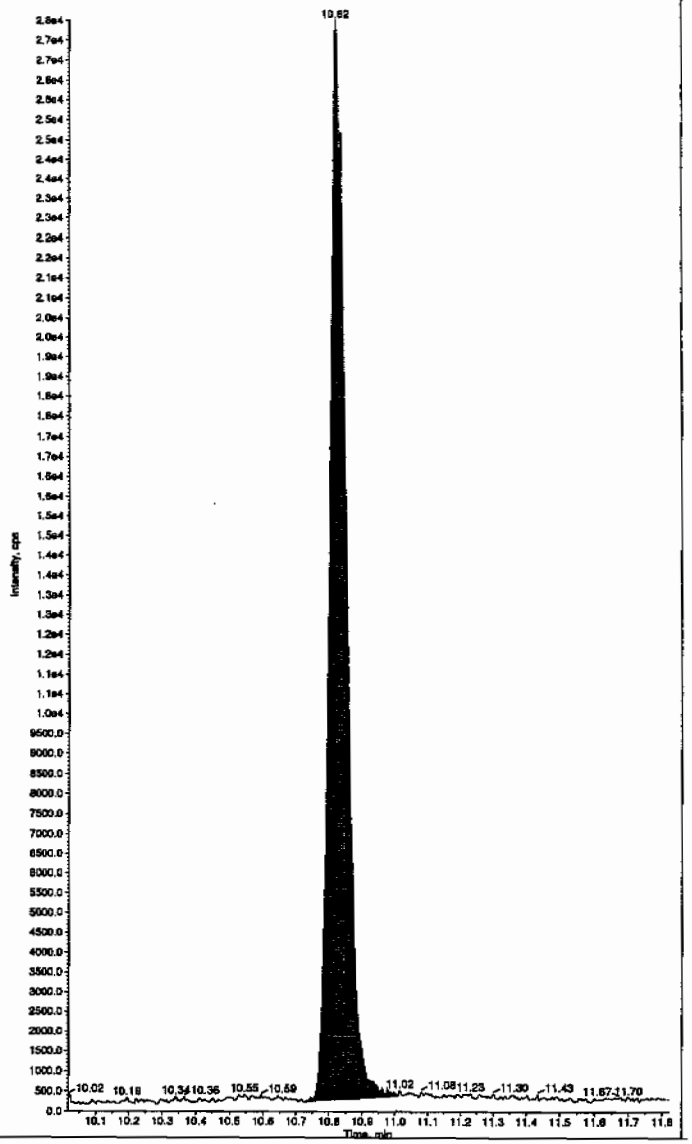


Sample Name: "XIBLK03" Sample ID: "|1|LER" File: "EXS03010012.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: < 0
Acq. Date: 3/1/2010
Acq. Time: 11:56:08 AM

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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 9.72e+004 counts
Height: 27251.160 cps
Start Time: 10.7 min
End Time: 11.0 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 01-MAR-10 15:20

GEL Data File: EXS03010025.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

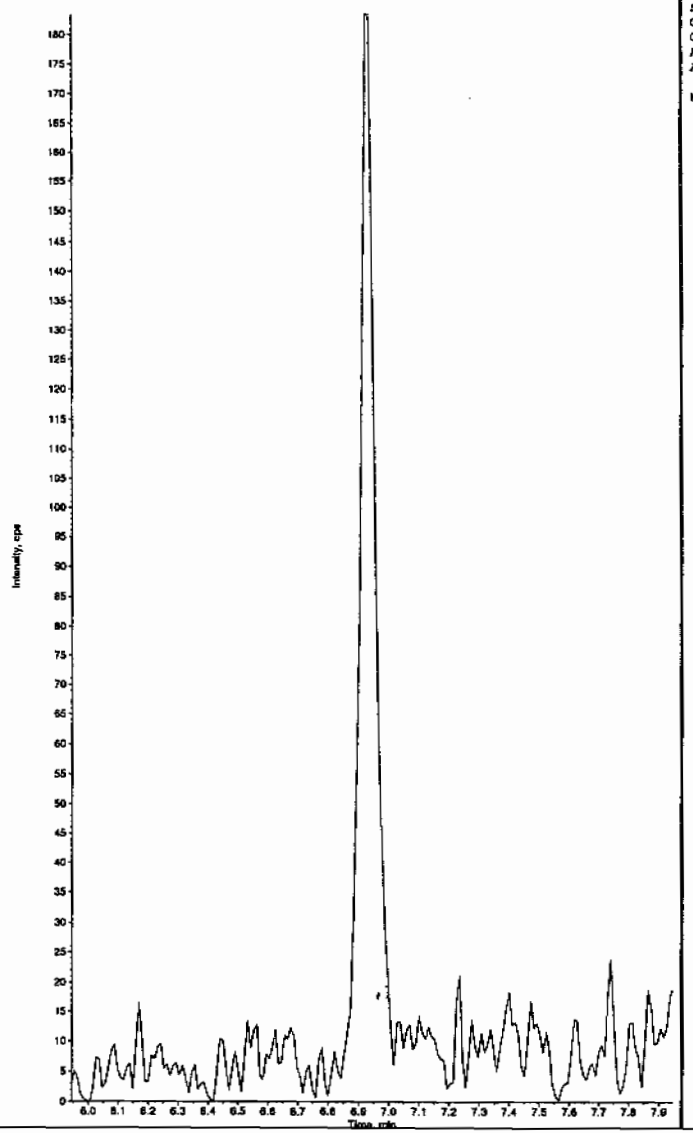
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Lan 3/3/10

Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS03010025.wiff"
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: 3/1/2010
Acq. Time: 3:20:41 PM

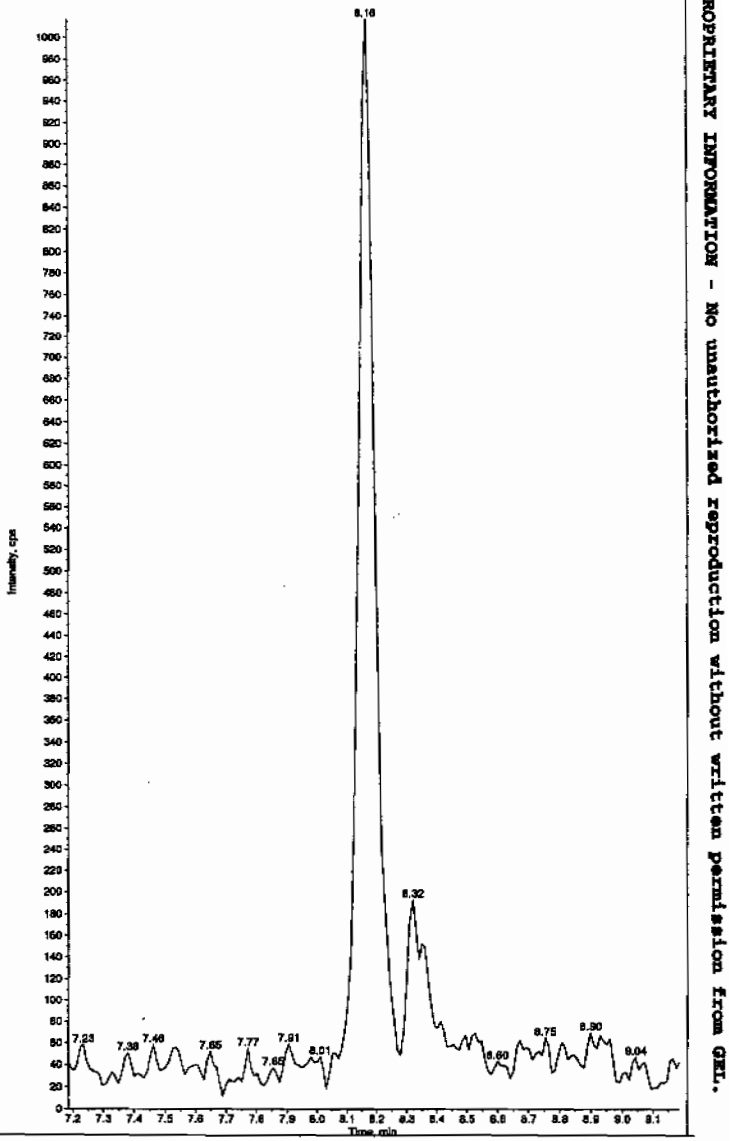
Modified: No



Sample Name: "XIBLK04" Sample ID: "[1]LER" File: "EXS03010025.wiff"
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: 3/1/2010
Acq. Time: 3:20:41 PM

Modified: No



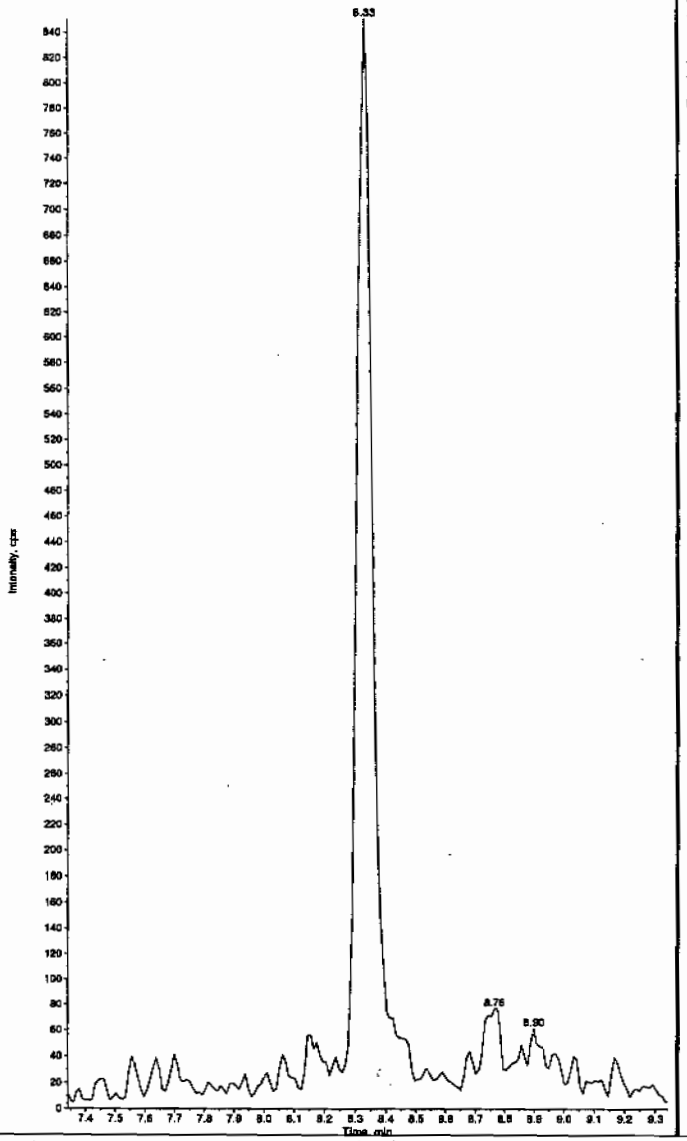
Hwm 03/04/10

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

Sample Name: "XIBLK04" Sample ID: "|1|LER" File: "EXS03010025.wiff"
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: 3/1/2010
Acq. Time: 3:20:41 PM

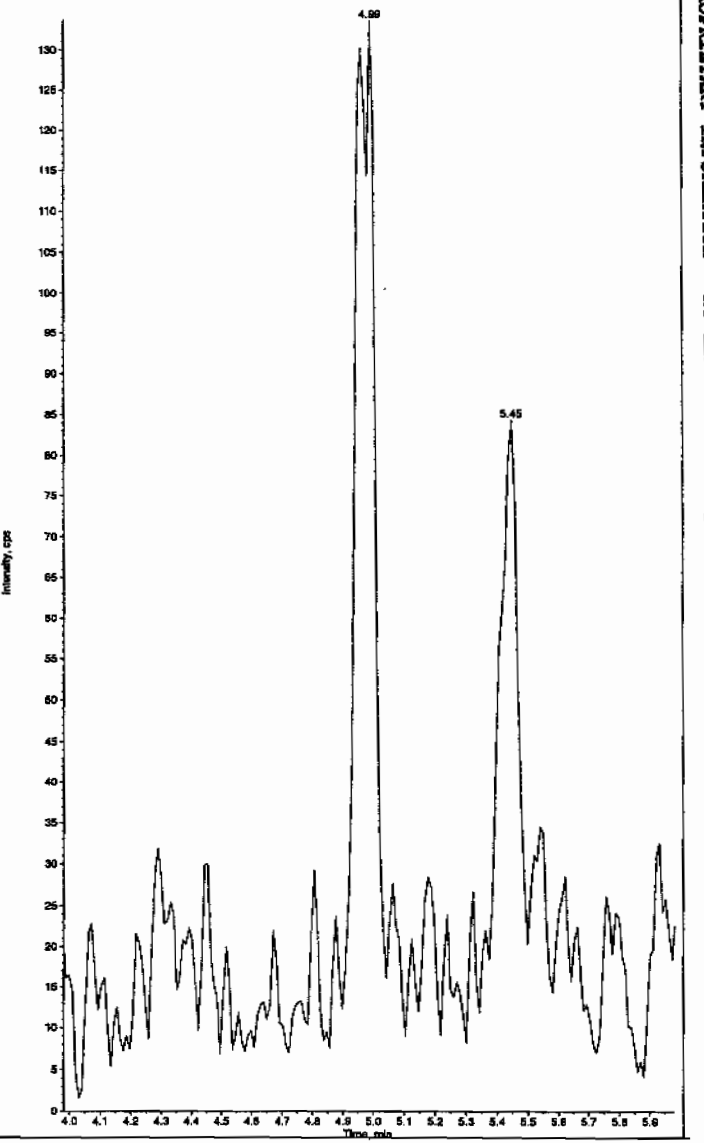
Modified: No



Sample Name: "XIBLK04" Sample ID: "|1|LER" File: "EXS03010025.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:20:41 PM

Modified: No

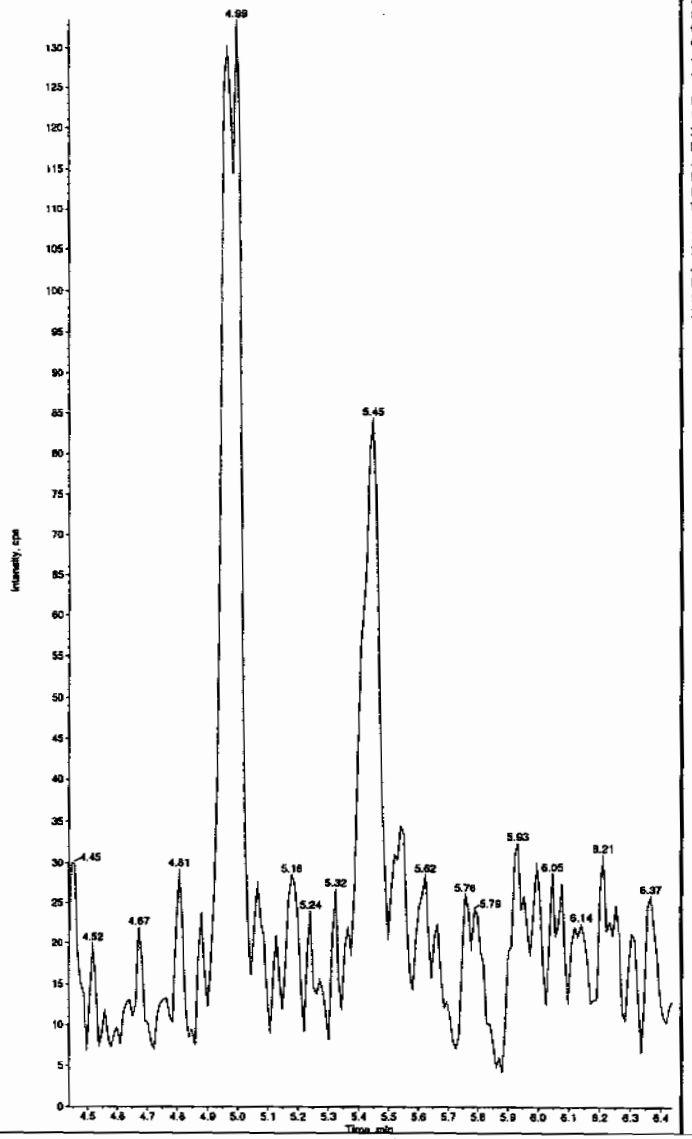


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK04" Sample ID: "|1|LER" File: "EXS03010025.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:20:41 PM

Modified: No

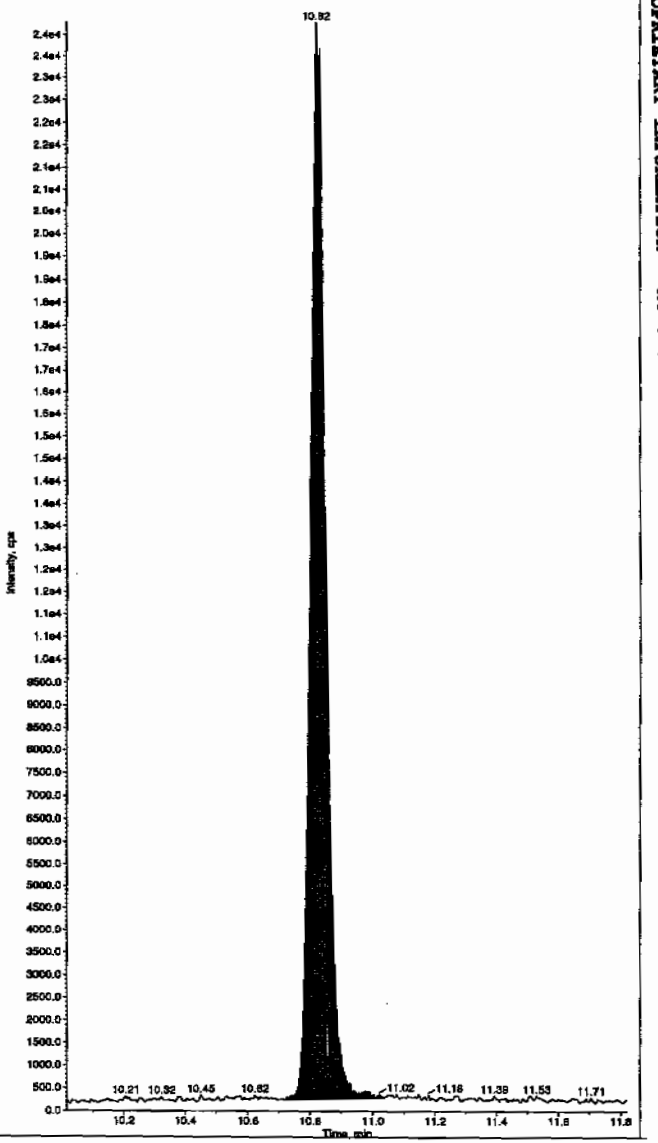


Sample Name: "XIBLK04" Sample ID: "|1|LER" File: "EXS03010025.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 3/1/2010
Acq. Time: 3:20:41 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 8.41e+004 counts
Height: 24045.229 cps
Start Time: 10.7 min
End Time: 11.0 min



*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): 10–1703

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 01–MAR–10 16:55

GEL Data File: EXS03010031.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

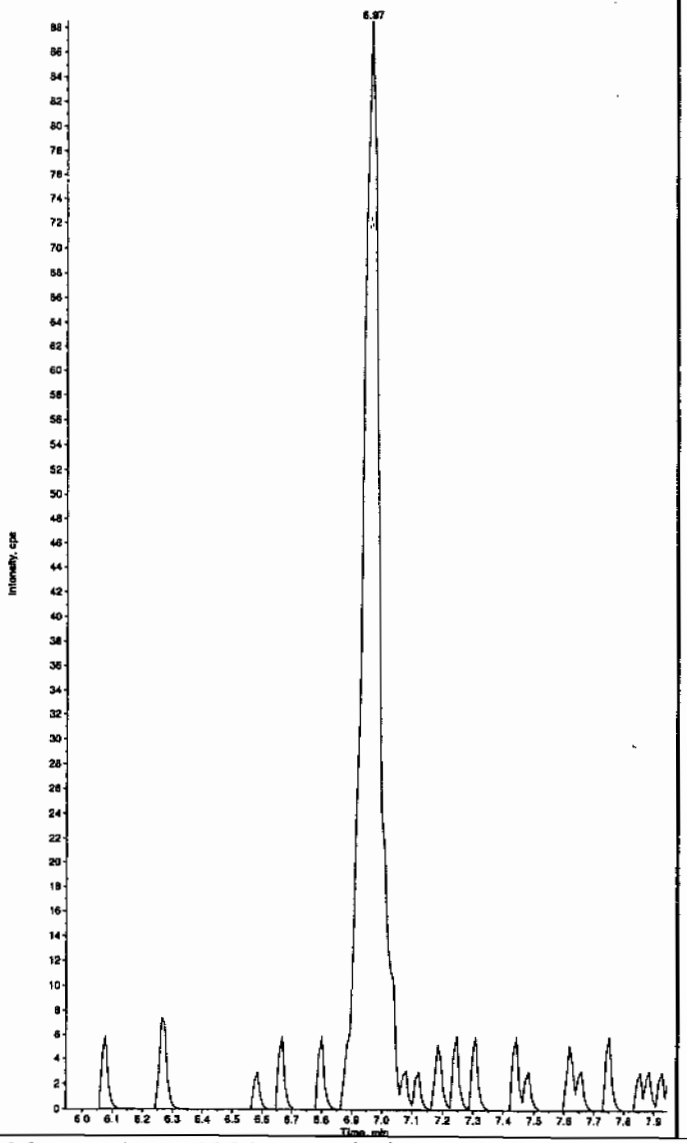
Compound	True	Found (ug/L)
3,4–Dinitrotoluene	0	0
tris(o–cresyl) phosphate	0	0
TATB	0	0
3,5–Dinitroaniline	0	0
2,4–Diamino–6–nitrotoluene	0	0
2,6–Diamino–4–nitrotoluene	0	0

Lan 3/3/10

Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS03010031.wiff"
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: 3/1/2010
Acq. Time: 4:55:04 PM

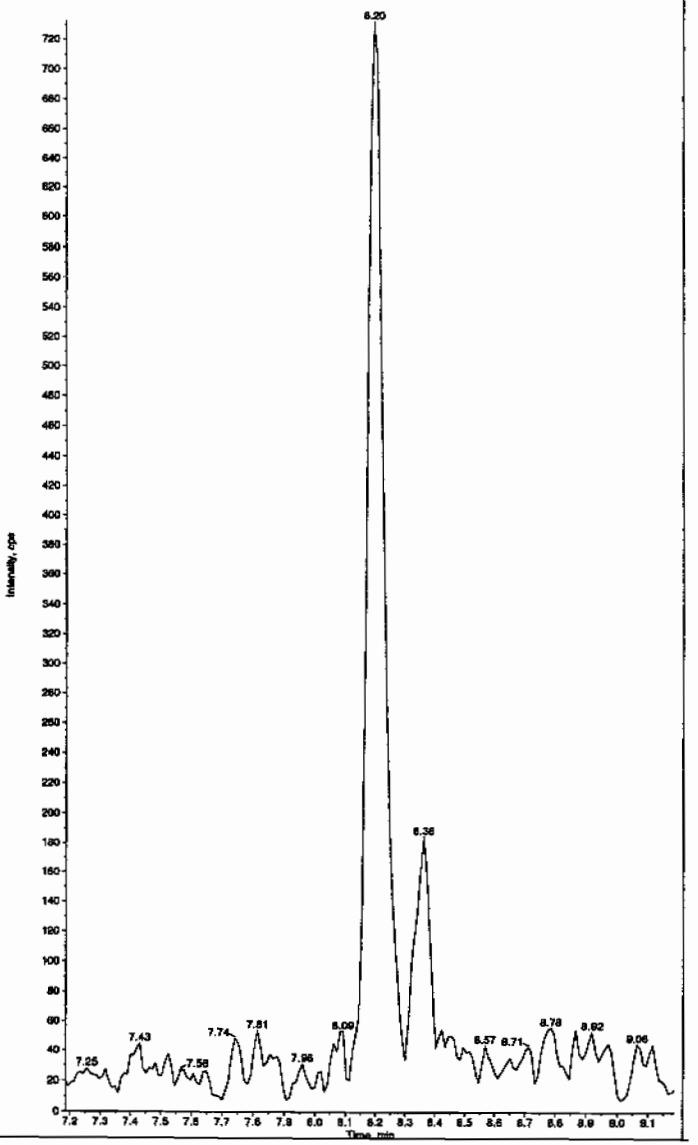
Modified: No



Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS03010031.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "162.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 4:55:04 PM

Modified: No



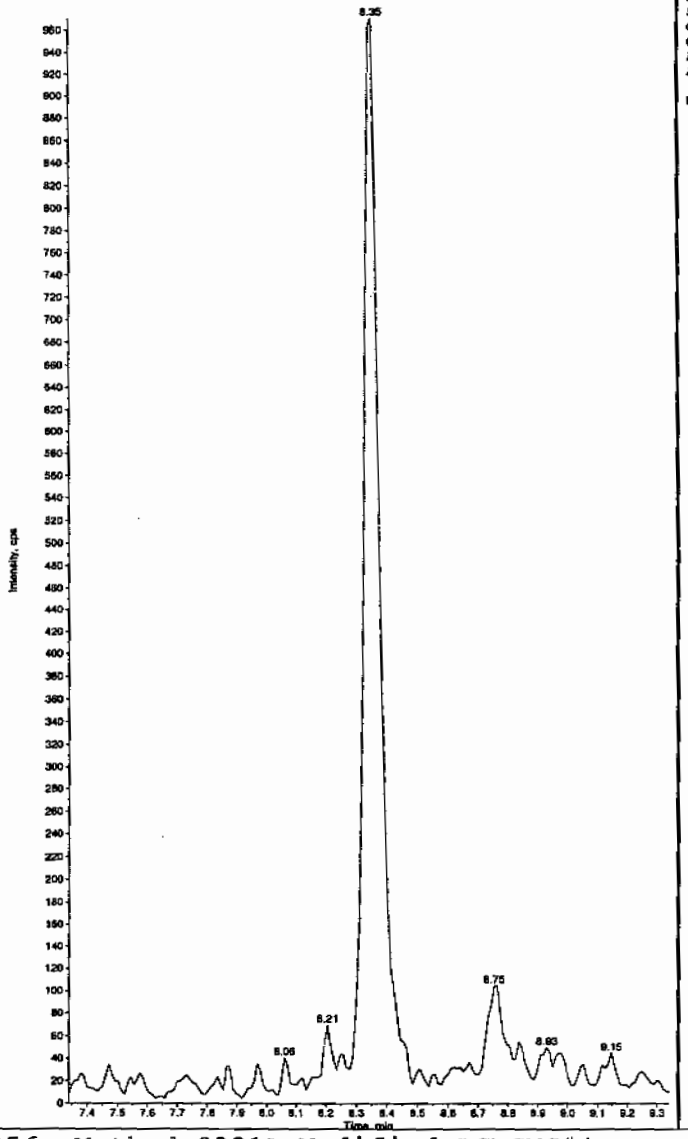
Hum 03/04/10

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

Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS03010031.wiff"
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: 3/1/2010
Acq. Time: 4:55:04 PM

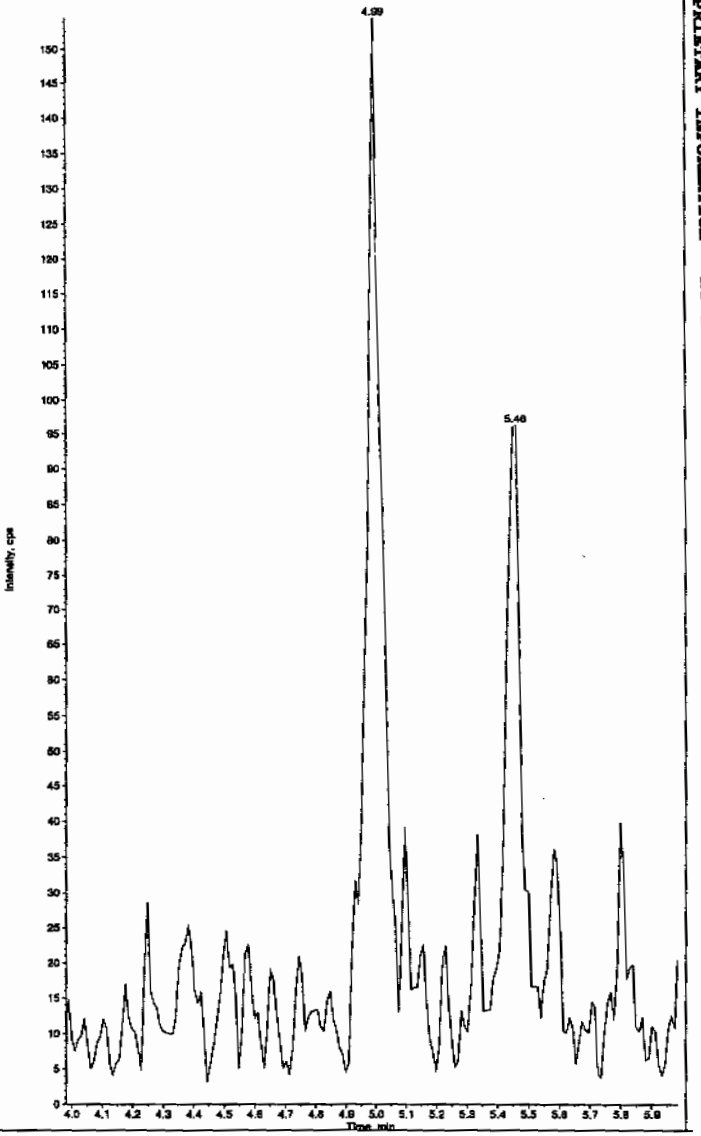
Modified: No



Sample Name: "XIBLK05" Sample ID: "[1]LER" File: "EXS03010031.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 4:55:04 PM

Modified: No

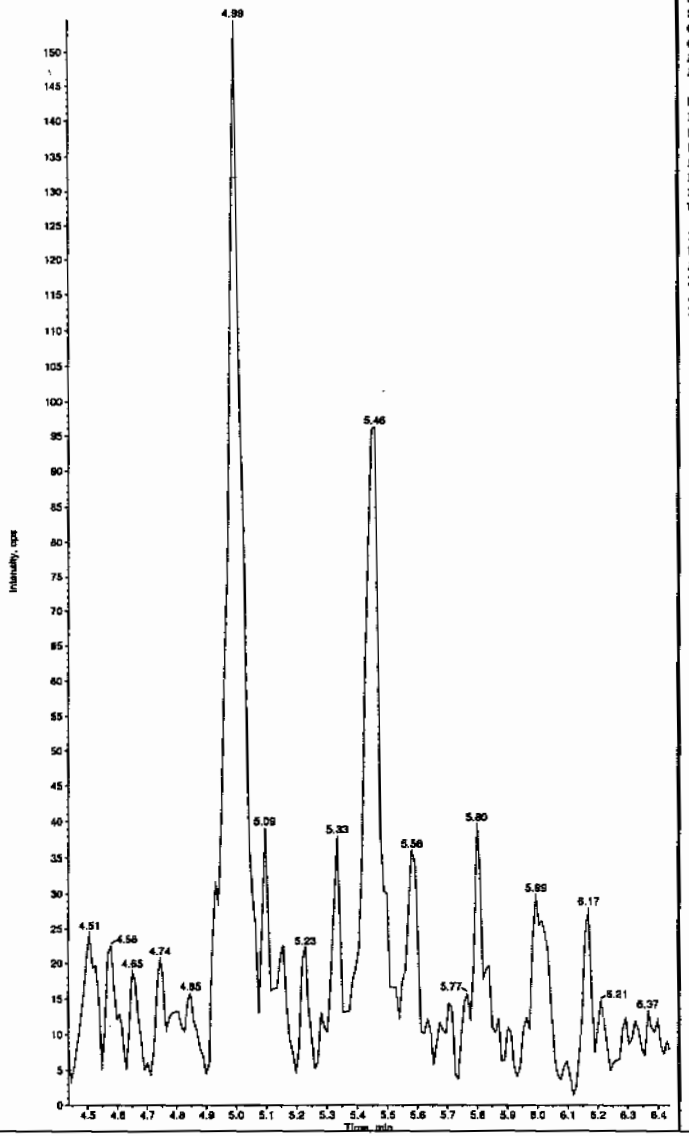


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK05" Sample ID: "|1|LER" File: "EXS03010031.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 4:55:04 PM

Modified: No

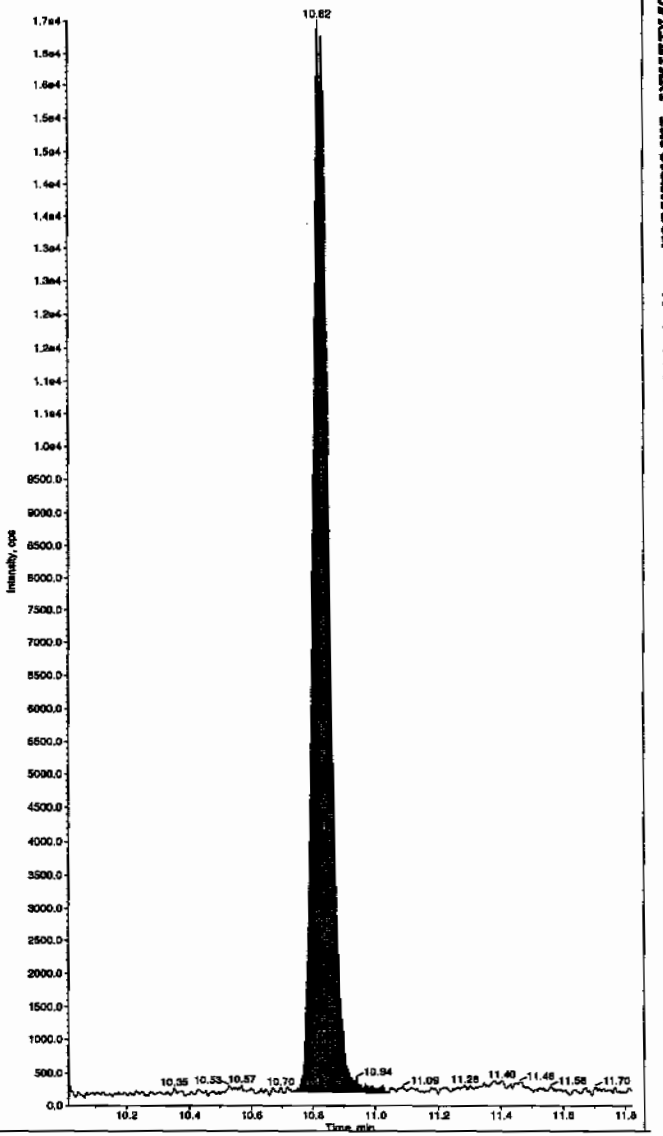


Sample Name: "XIBLK05" Sample ID: "|1|LER" File: "EXS03010031.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: No Intercept
Acq. Date: 3/1/2010
Acq. Time: 4:55:04 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 6.03e+004 counts
Height: 16316.530 cps
Start Time: 10.7 min
End Time: 11.0 min



*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): 10-1703

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 27-FEB-10 00:35

GEL Data File: EXS02260038.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

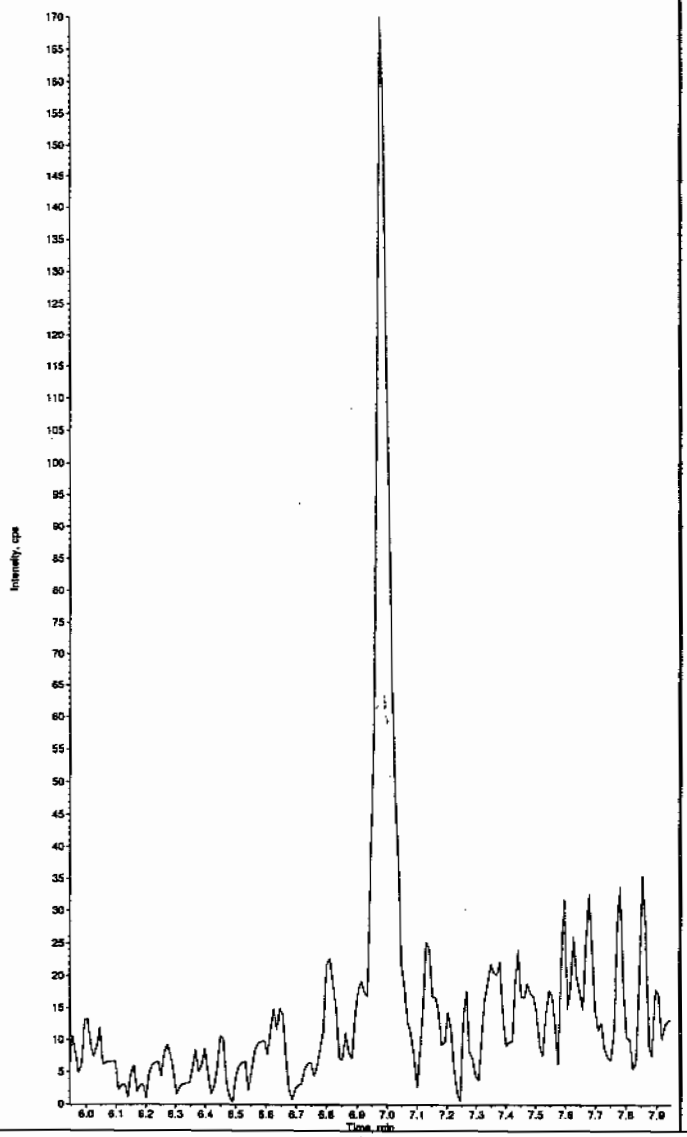
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

fan 3/3/10

Sample Name: "XIBLK06" Sample ID: "|1|LER" File: "EXS03010038.wiff"
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: 3/1/2010
Acq. Time: 6:45:29 PM

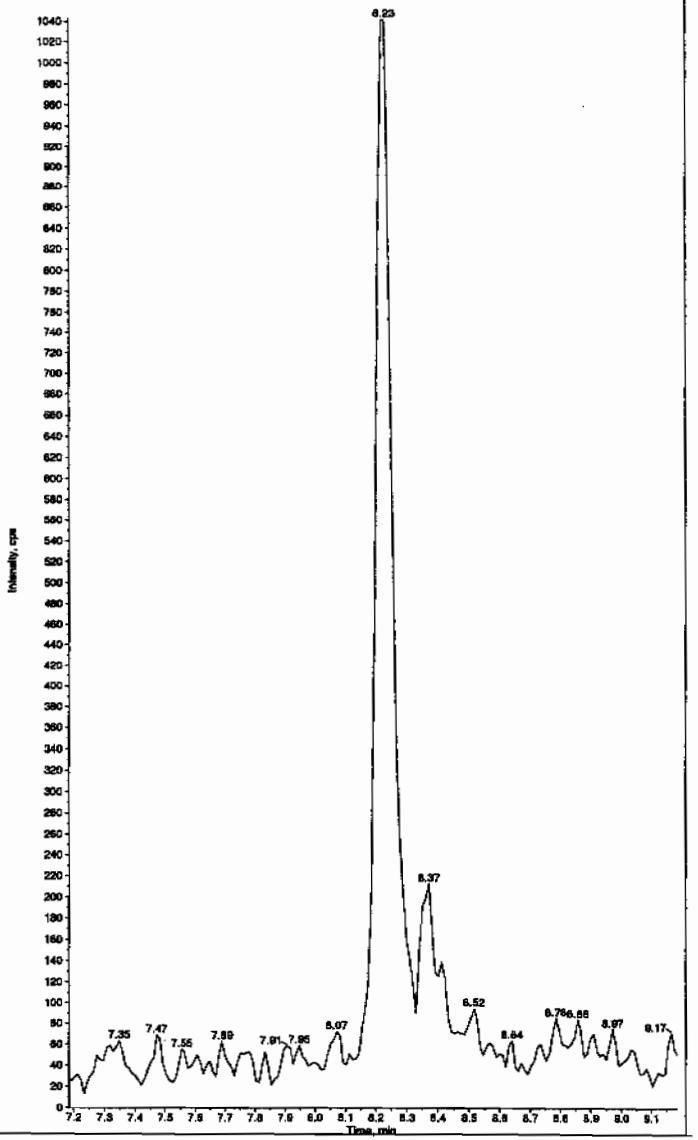
Modified: No



Sample Name: "XIBLK06" Sample ID: "|1|LER" File: "EXS03010038.wiff"
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: 3/1/2010
Acq. Time: 6:45:29 PM

Modified: No



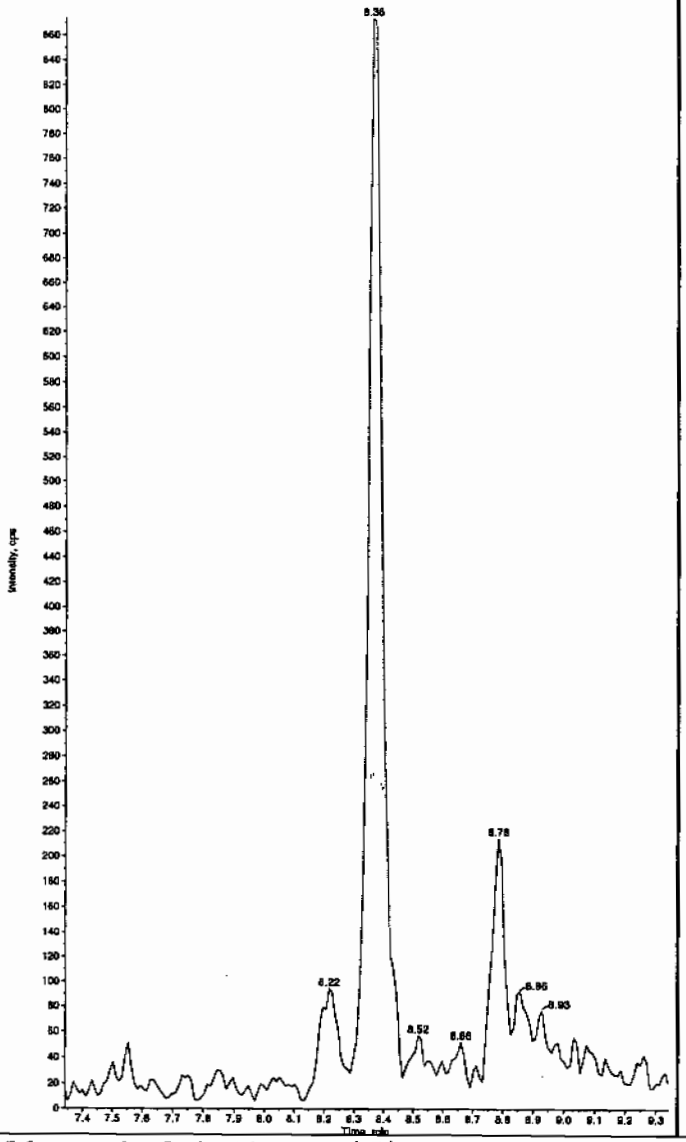
HMM 03/04/10

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

Sample Name: "XIBLK06" Sample ID: "|1|LER" File: "EXS03010038.wiff"
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: 3/1/2010
Acq. Time: 6:45:29 PM

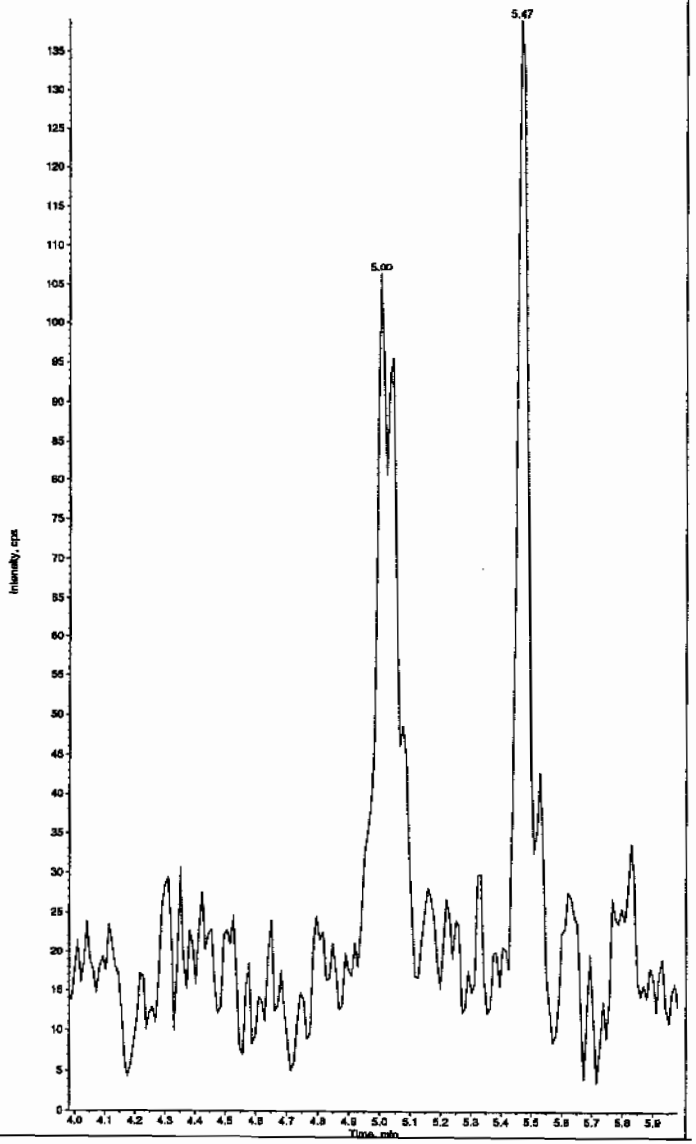
Modified: No



Sample Name: "XIBLK06" Sample ID: "|1|LER" File: "EXS03010038.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:45:29 PM

Modified: No

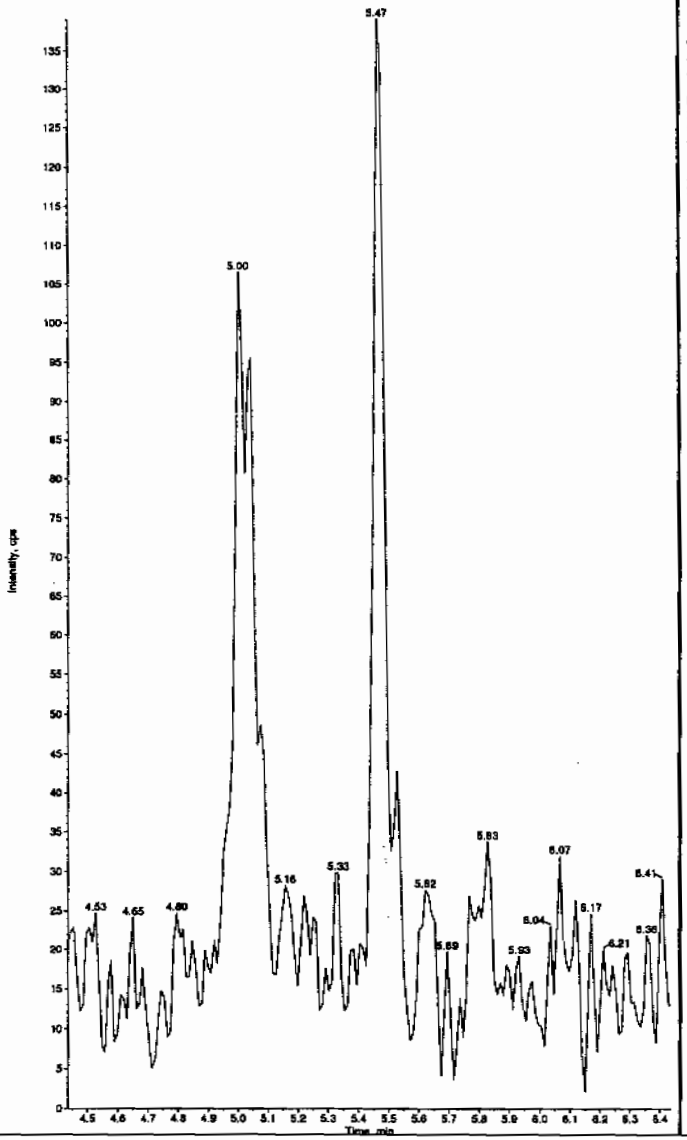


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBLK06" Sample ID: "[1]LER" File: "EXS03010038.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:45:29 PM

Modified: No

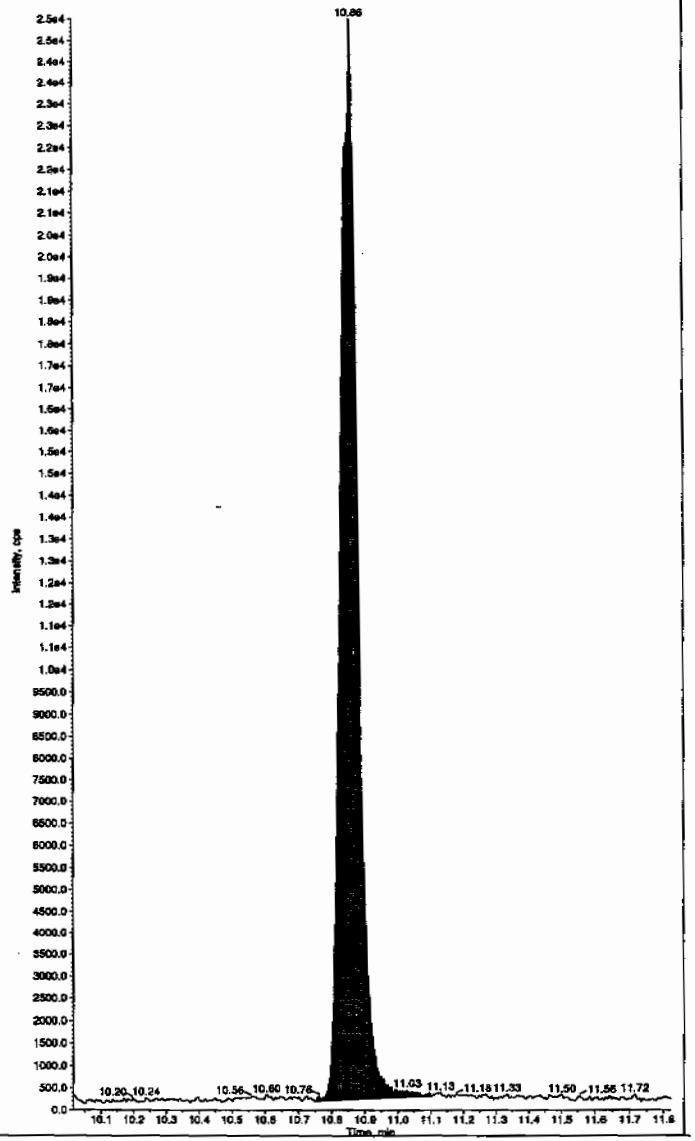


Sample Name: "XIBLK06" Sample ID: "[1]LER" File: "EXS03010038.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: < 0
Acq. Date: 3/1/2010
Acq. Time: 6:45:29 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.9 min
Area: 9.30e+004 counts
Height: 24775.198 cps
Start Time: 10.7 min
End Time: 11.1 min



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

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

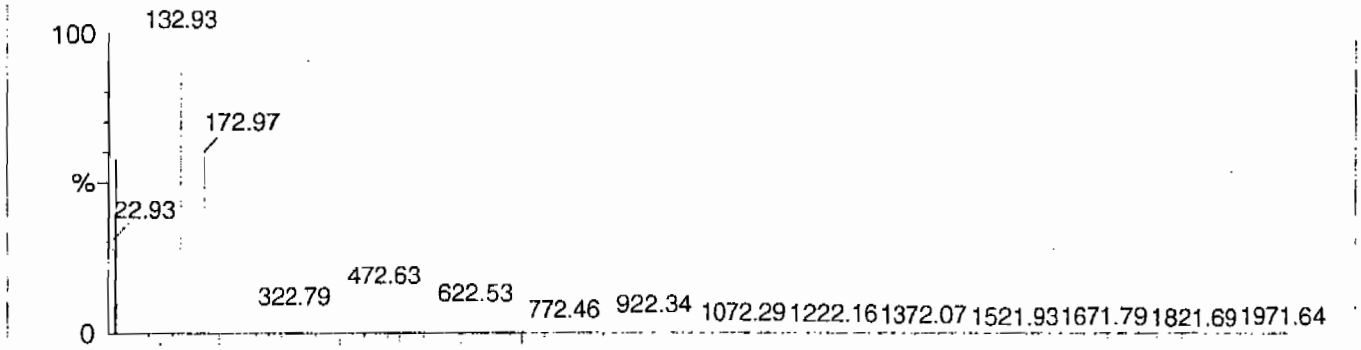
22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	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

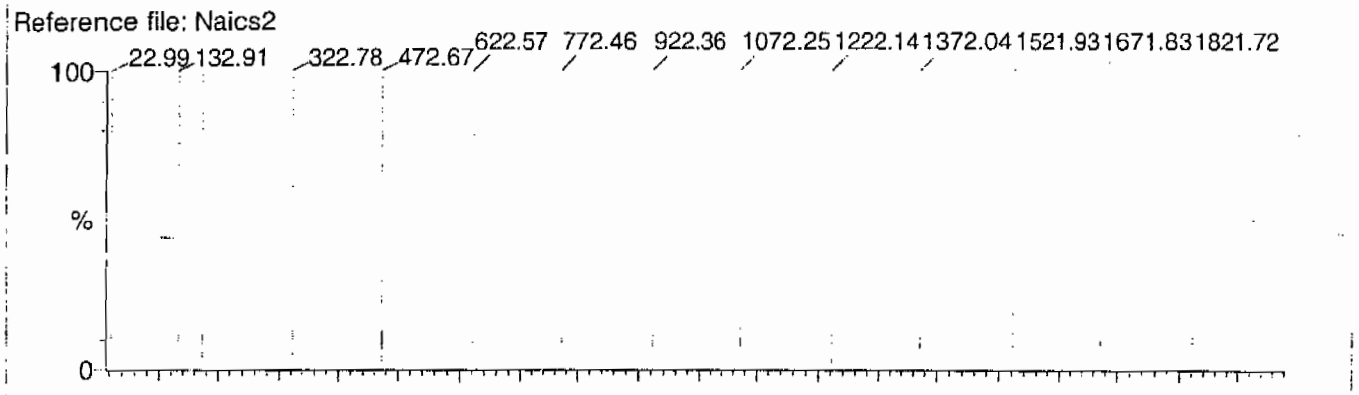
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

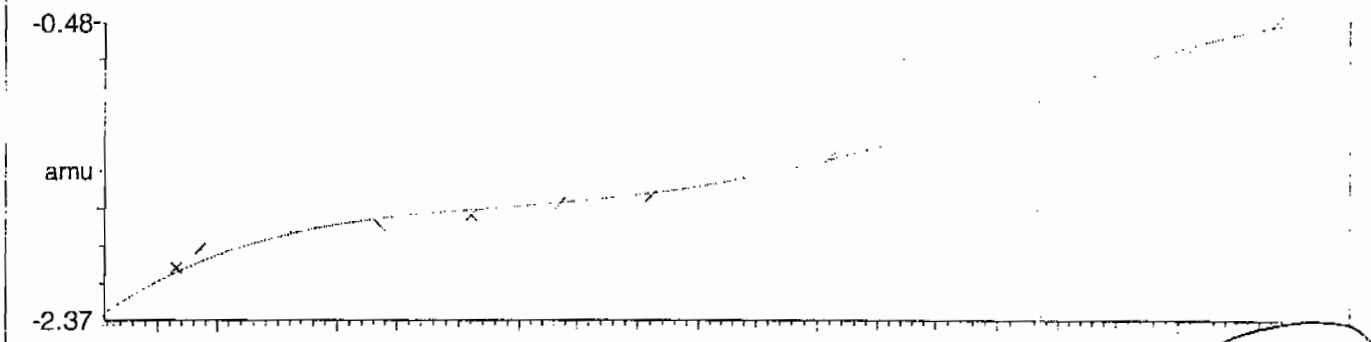
15 matches of 15 tested references



Reference file: Naics2



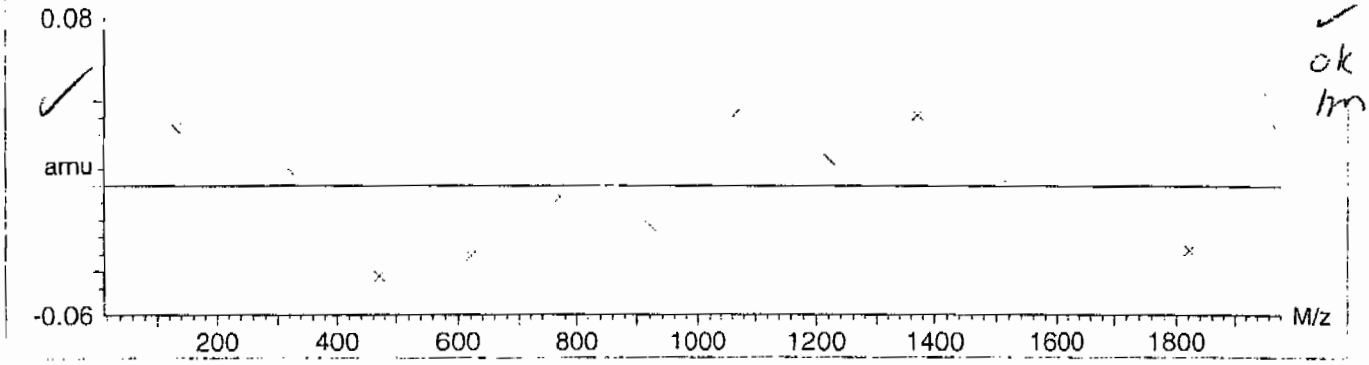
Mass difference (Raw - Ref mass)



Residuals

Mean residual = -1.673470e-9 ± 0.036953

ok
lm

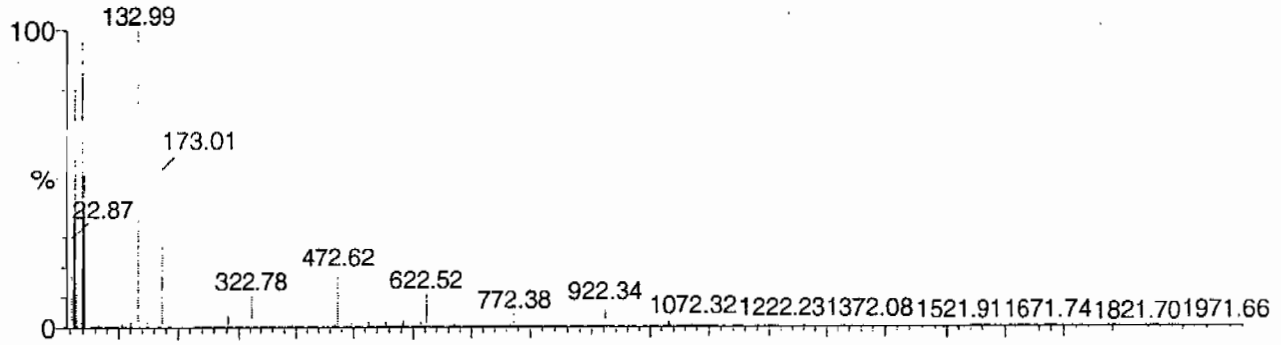


Calibration Report - MS1 Scanning

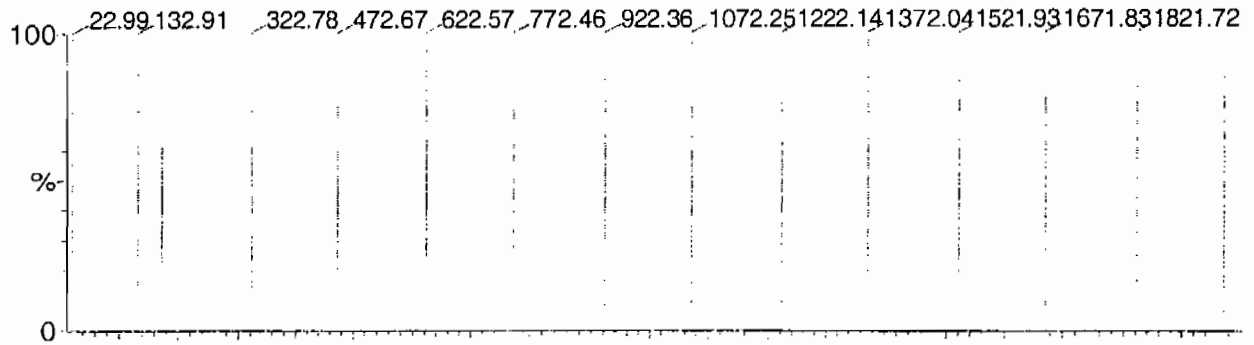
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

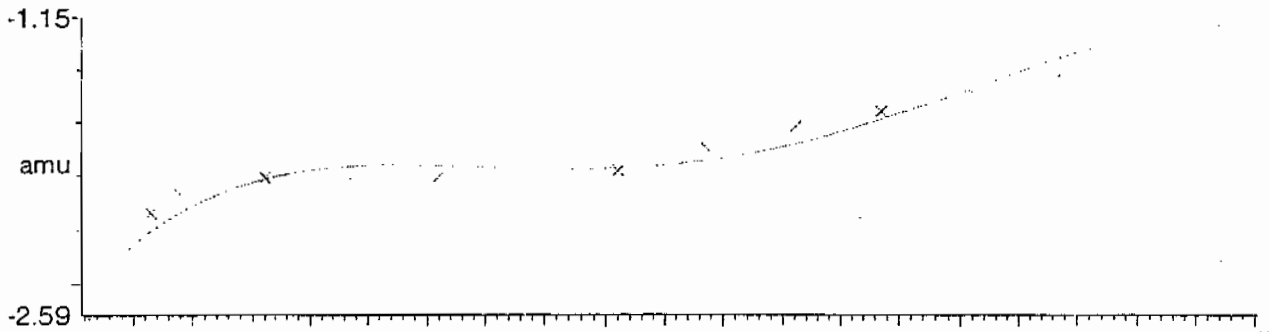
15 matches of 15 tested references



Reference file: Naics2



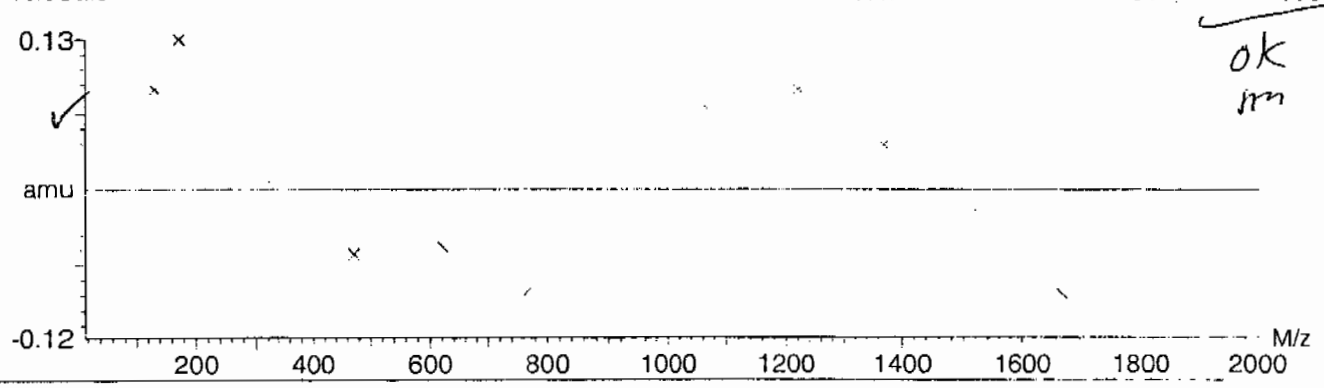
Mass difference (Raw - Ref mass)



Residuals

Mean residual = -5.432715e-9 ± 0.069858

ok
jm

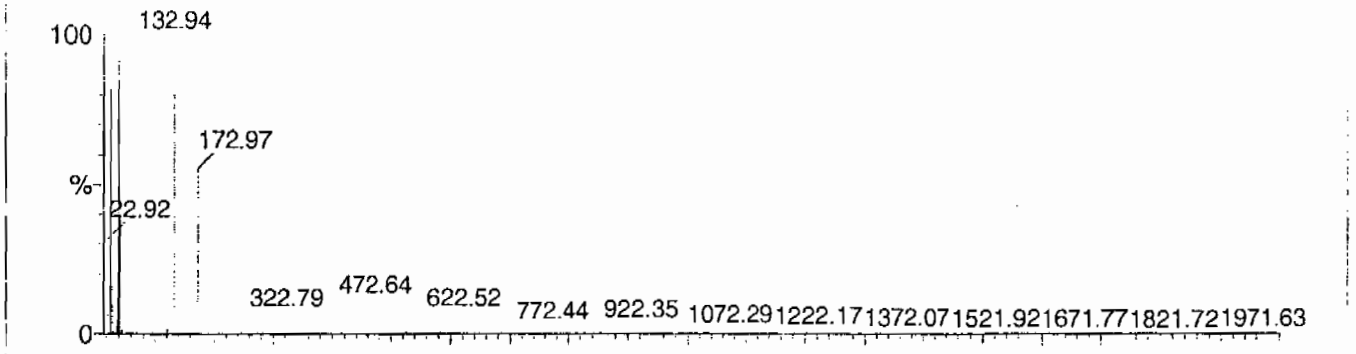


Calibration Report - MS1 Scan Speed Compensation

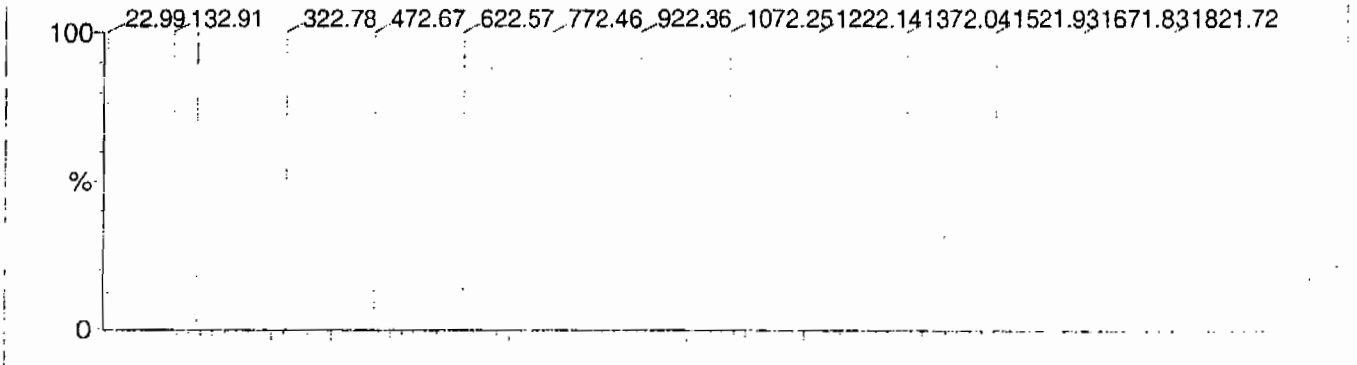
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

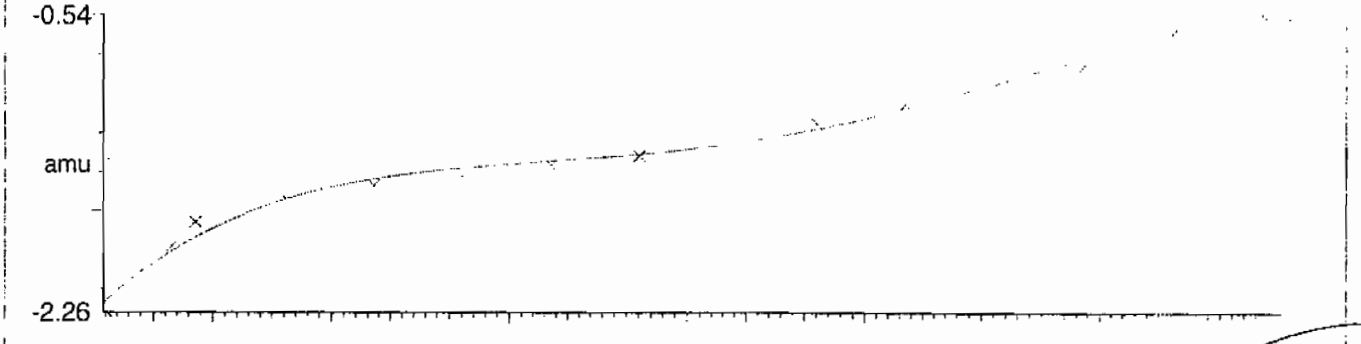
15 matches of 15 tested references



Reference file: Naics2

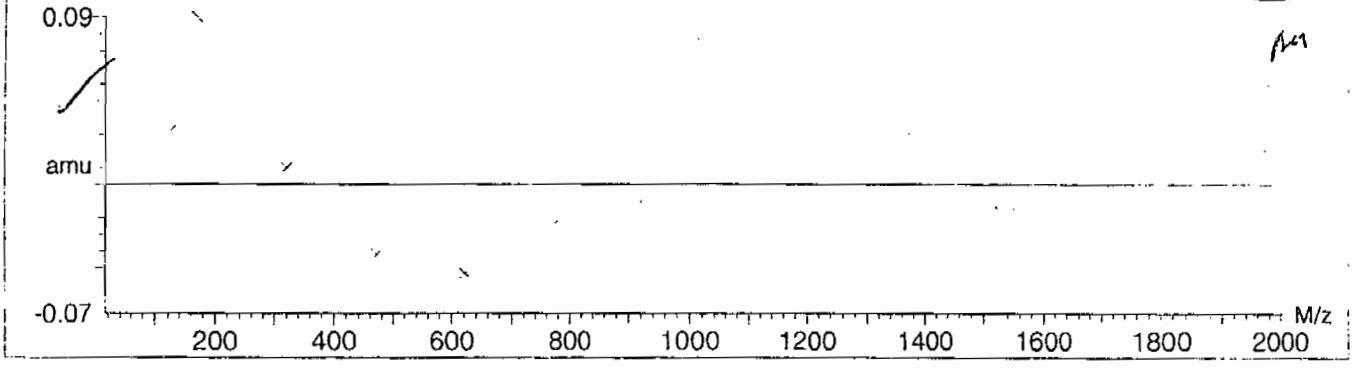


Mass difference (Raw - Ref mass)



Residuals

Mean residual = 3.486639e-9 ± 0.040487

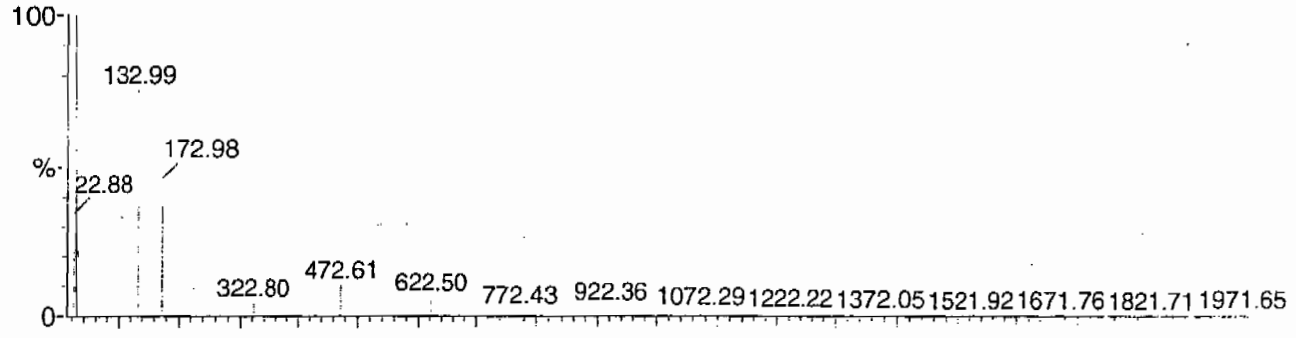


Calibration Report - MS2 Static

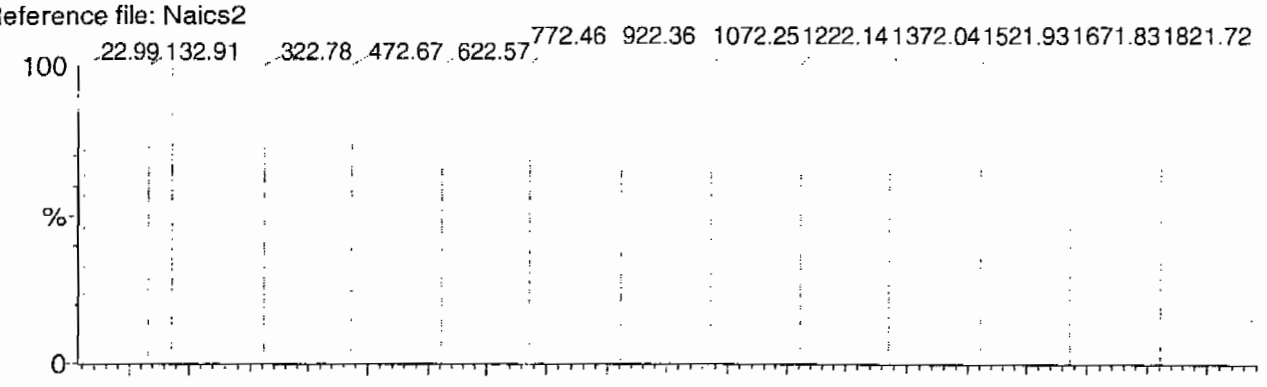
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

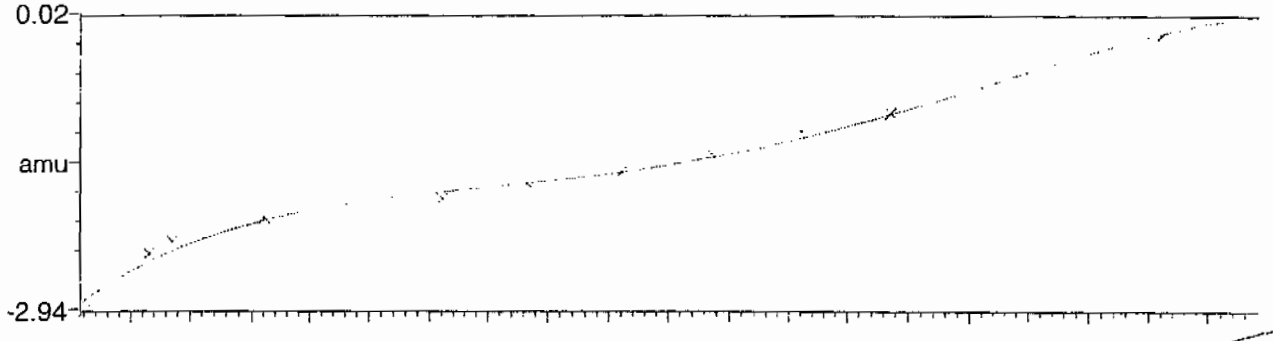
15 matches of 15 tested references



Reference file: Naics2

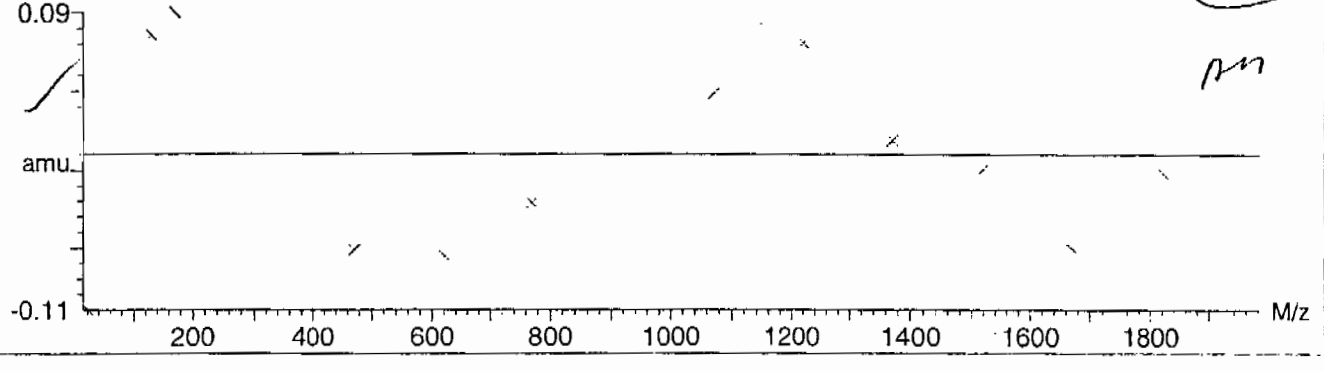


Mass difference (Raw - Ref mass)



Residuals

Mean residual = 2.048910e-9 ± 0.057803

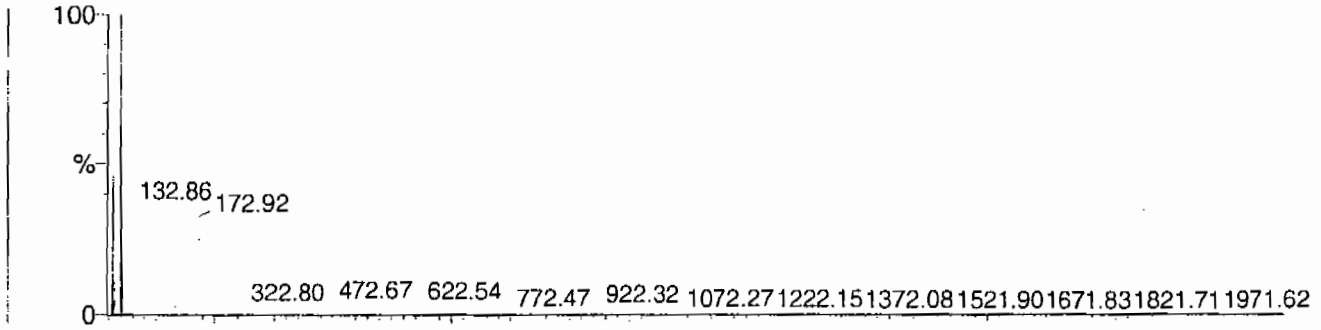


Calibration Report - MS2 Scanning

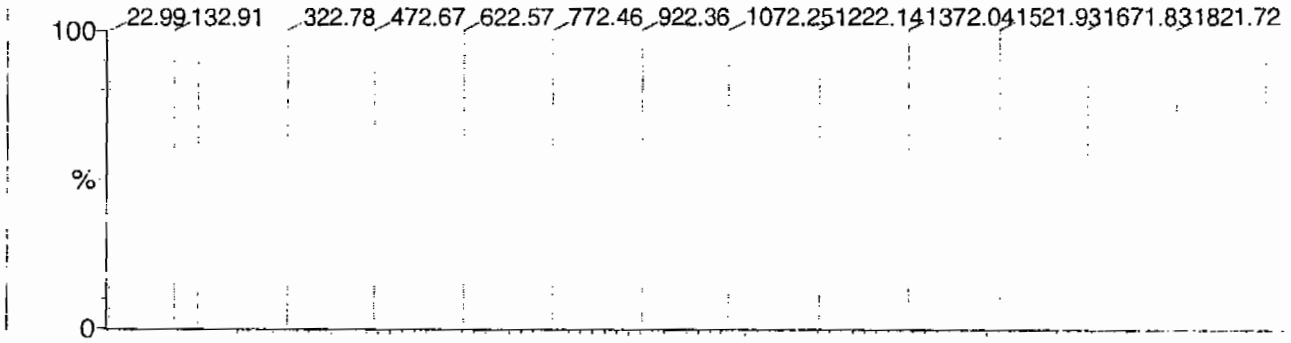
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

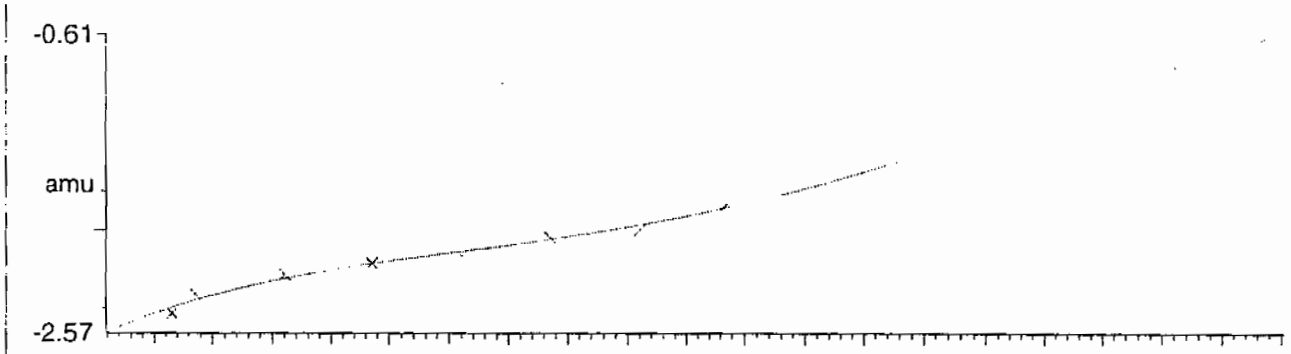
14 matches of 15 tested references



Reference file: Naics2

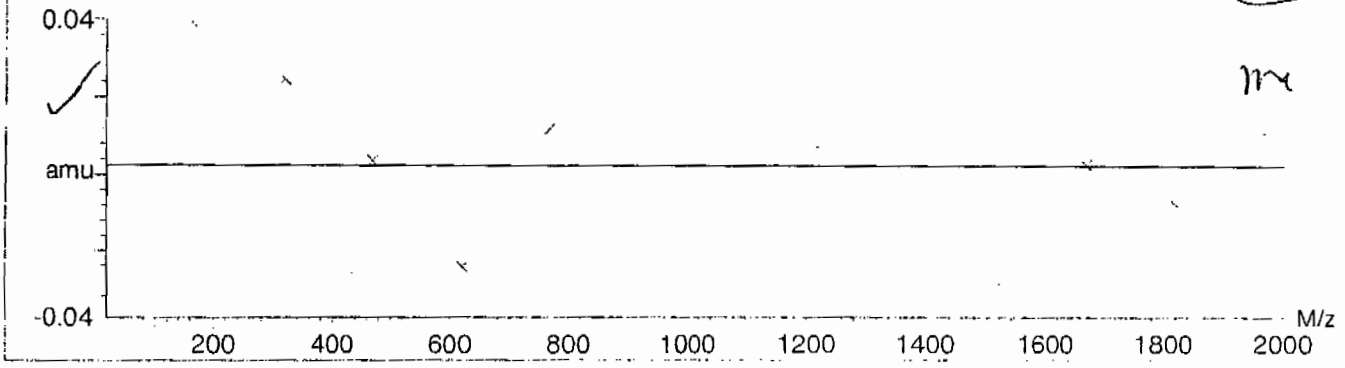


Mass difference (Raw - Ref mass)



Residuals

Mean residual = -2.623502e-9 ± 0.025622

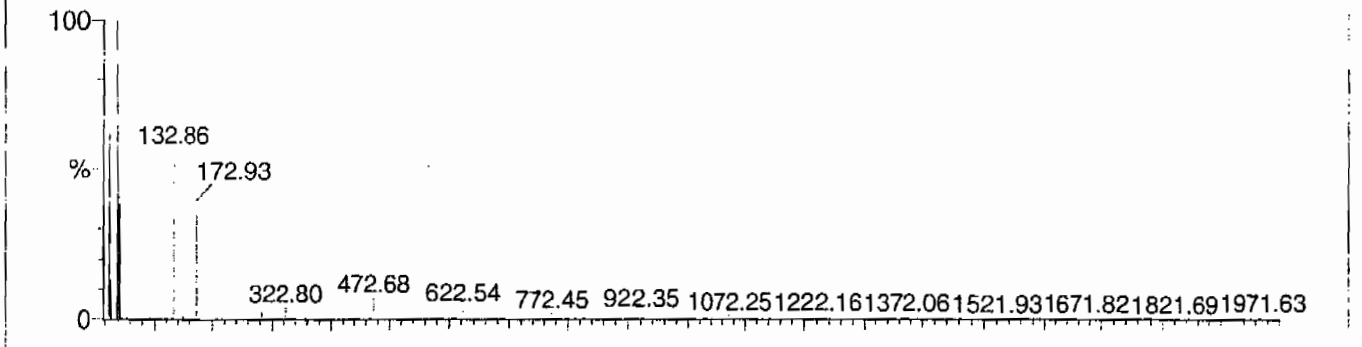


Calibration Report - MS2 Scan Speed Compensation

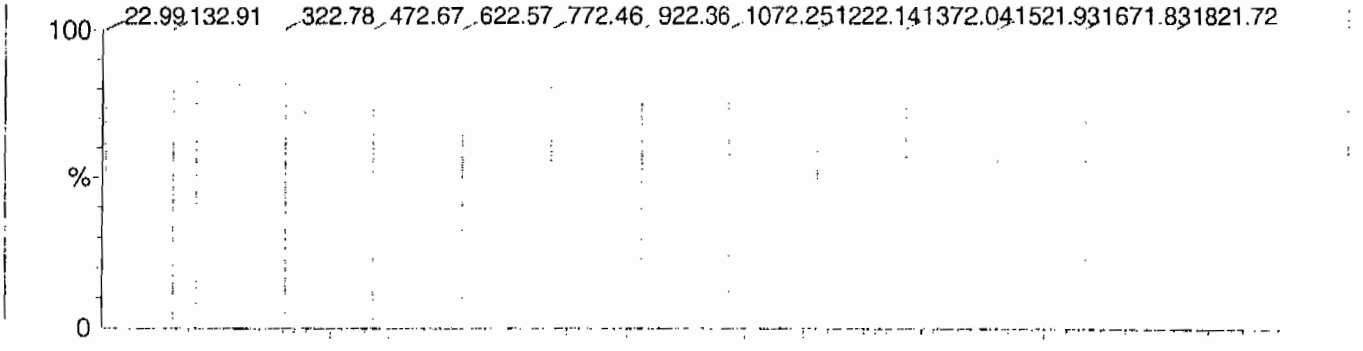
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

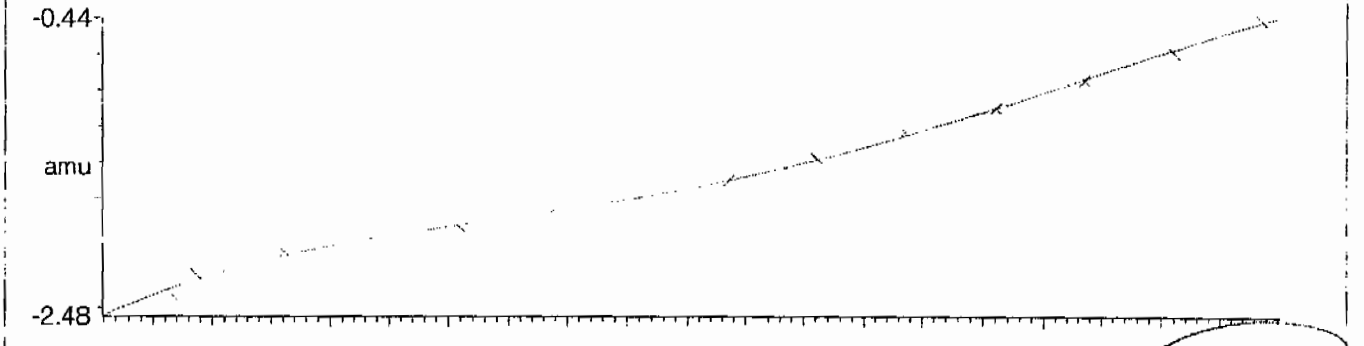
14 matches of 15 tested references



Reference file: Naics2



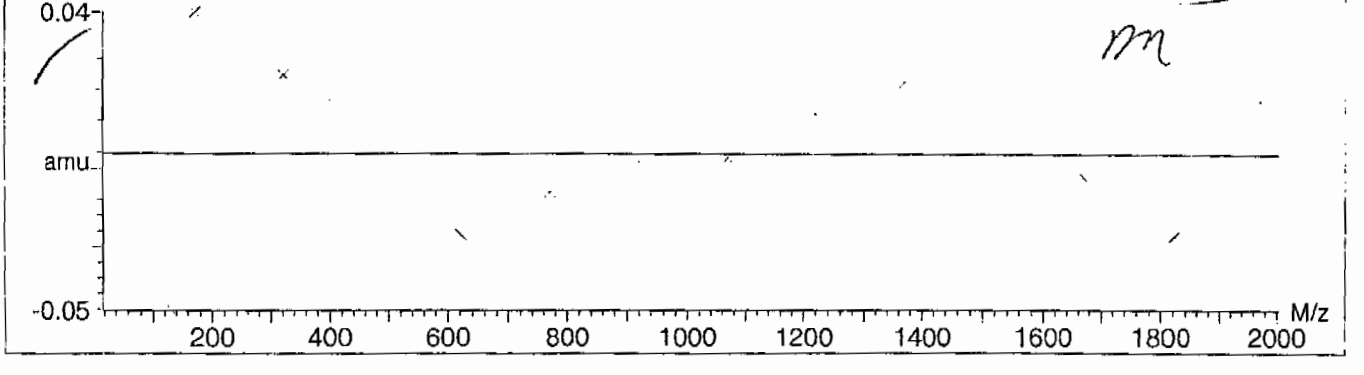
Mass difference (Raw - Ref mass)



Residuals

Mean residual = -6.785350e-9 ± 0.023134

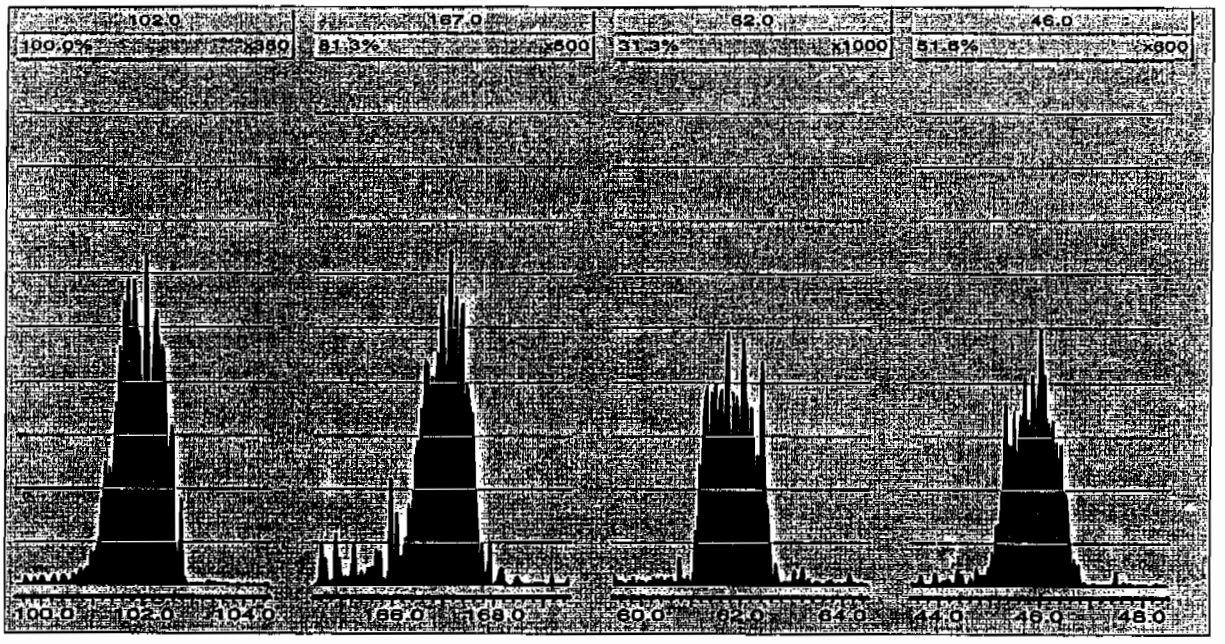
m



Quattro Micro Tune Parameters

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

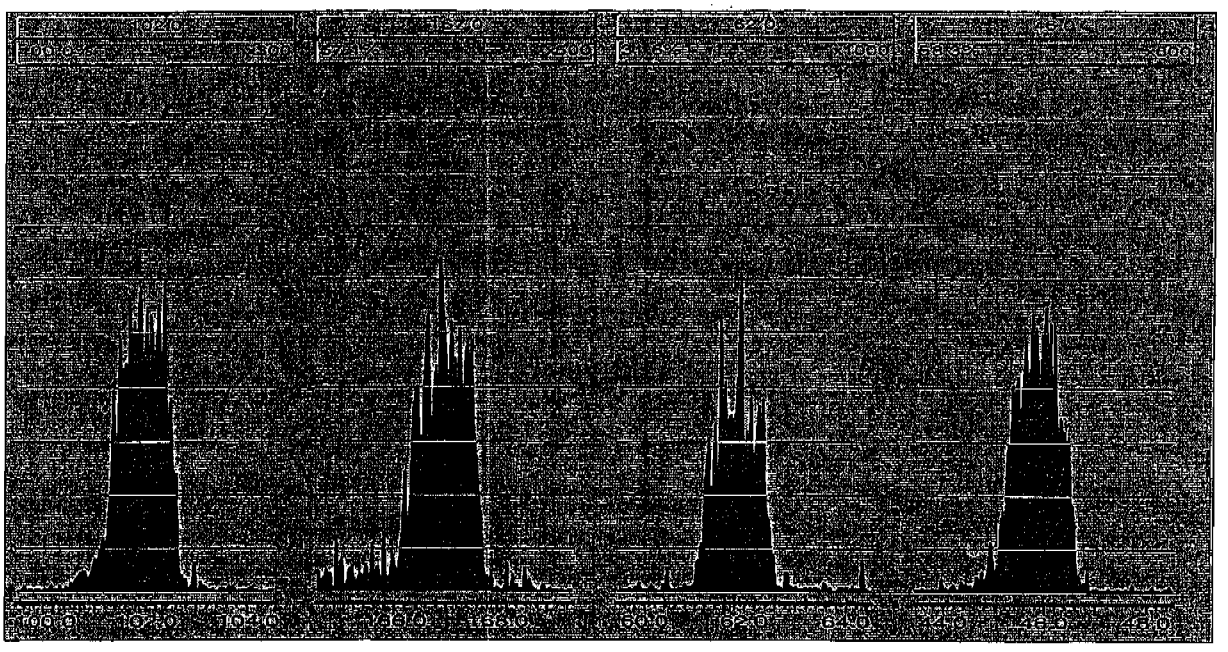
Printed : Thu Mar 11 10:39:10 2010



Quattro Micro Tune Parameters

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

Printed : Fri Mar 12 11:58:08 2010



8

High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10–1703

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) #
			3860.127	12.101	21997.617	17.481
Upper Limit			5018.1651	12.601	28596.9021	17.981
Lower Limit			2702.0889	11.601	15398.3319	16.981
MB for batch 952041	11–mar–10 16:38	EXP0311013a	3786.93	12.102	23695.5	17.488
LCS for batch 952041	11–mar–10 17:07	EXP0311014a	4135.66	12.102	22760	17.488
RE15–10–8185	11–mar–10 17:37	EXP0311015a	4082.24	12.102	22670.1	17.466
RE15–10–8185(246677001MS)	11–mar–10 18:06	EXP0311016a	3987.91	12.102	23750.1	17.467
RE15–10–8185(246677001MSD)	11–mar–10 18:36	EXP0311017a	4134.28	12.102	22350.3	17.467
RE15–10–8183	11–mar–10 19:05	EXP0311018a	3850.52	12.099	23491.6	17.456
RE15–10–8179	11–mar–10 19:34	EXP0311019a	4248.58	12.102	23613.3	17.467
RE15–10–8184	11–mar–10 20:04	EXP0311020a	4117.21	12.102	23390.3	17.466
RE15–10–8180	11–mar–10 20:33	EXP0311021a	3356.21	12.099	20631.8	17.455
RE15–10–8181	11–mar–10 21:03	EXP0311022a	4150.28	12.102	24418.5	17.466

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			4076.785	11.867	22785.65	17.042
Upper Limit			5299.8205	12.367	29621.345	17.542
Lower Limit			2853.7495	11.367	15949.955	16.542
RE15–10–8182	12–mar–10 21:59	EXP0312013a	4983.94	11.866	27143.3	17.041
RE15–10–8210	12–mar–10 22:29	EXP0312014a	4634.15	11.868	27870	17.051

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: RE15-10-8185

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677001

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311015a

Date Analyzed: 11-MAR-10 17:37

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

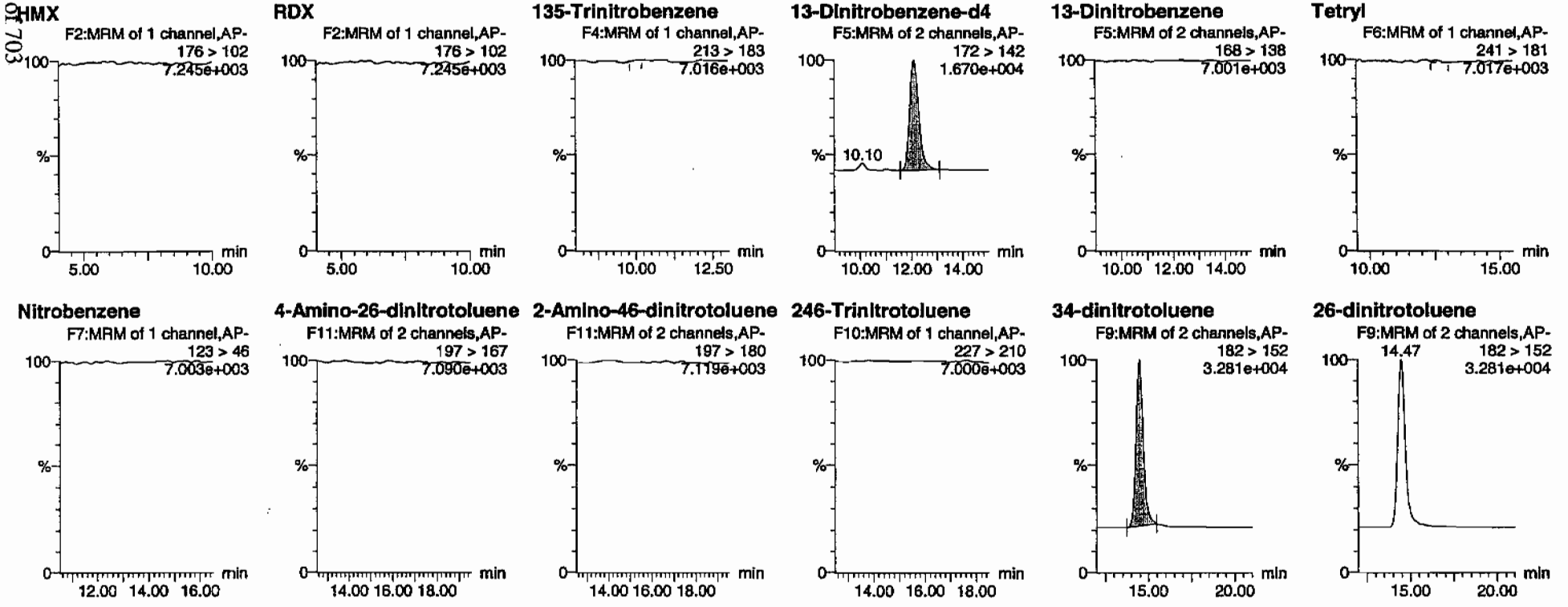
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311015a
Date: 11-Mar-2010
Time: 17:37:06
ID: 246677001 | LANL | 952043 | Soils | 2 |
Vial: 2:1,C

MAP 3/12/10

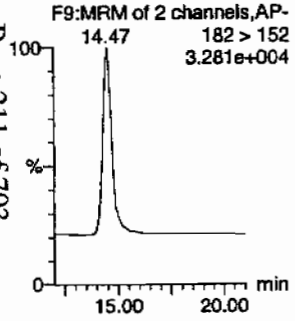


HMM 03/13/10

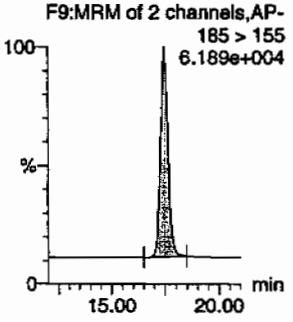
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

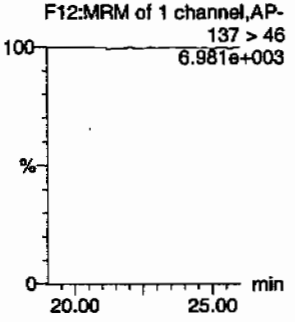
24-dinitrotoluene



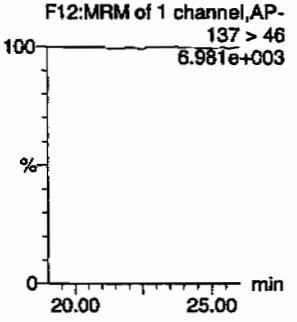
26-dinitrotoluene-d3



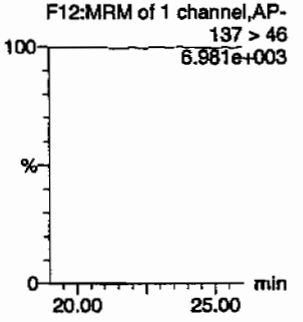
2-Nitrotoluene



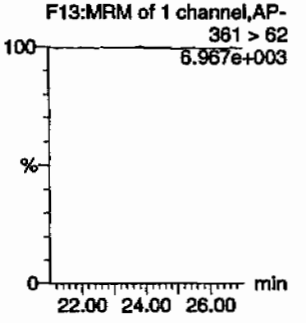
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
246677001	HMX	176 > 102			4082.239									
246677001	RDX	176 > 102			4082.239									
246677001	135-Trinitrobenzene	213 > 183			4082.239			MM-	12-Mar-10	11:30:22				
246677001	13-Dinitrobenzene-d4	172 > 142	12.10	4082.239		4082.239	4082.239	bb			528.7702	105.8	5.8	490.4
246677001	13-Dinitrobenzene	168 > 138			4082.239									
246677001	Tetryl	241 > 181			4082.239			MM-	12-Mar-10	11:29:40				
246677001	Nitrobenzene	123 > 46			4082.239									
246677001	4-Amino-26-dinitrotoluene	197 > 167			22670.121									
246677001	2-Amino-46-dinitrotoluene	197 > 180			22670.121									
246677001	246-Trinitrotoluene	227 > 210			22670.121									
246677001	34-dinitrotoluene	182 > 152	14.47	12324.045	22670.121	12324.045	271.813	bb			254.2092	101.7	1.7	615.3
246677001	26-dinitrotoluene	182 > 152			22670.121									
246677001	24-dinitrotoluene	182 > 152			22670.121									
246677001	26-dinitrotoluene-d3	185 > 155	17.47	22670.121		22670.121	22670.121	bb			515.2861	103.1	3.1	2456.3
246677001	2-Nitrotoluene	137 > 46			22670.121									
246677001	4-Nitrotoluene	137 > 46			22670.121									
246677001	3-Nitrotoluene	137 > 46			22670.121									
246677001	PETN	361 > 62			22670.121									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8185

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677001

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010034.wiff

Date Analyzed: 01-MAR-10 17:42

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 =

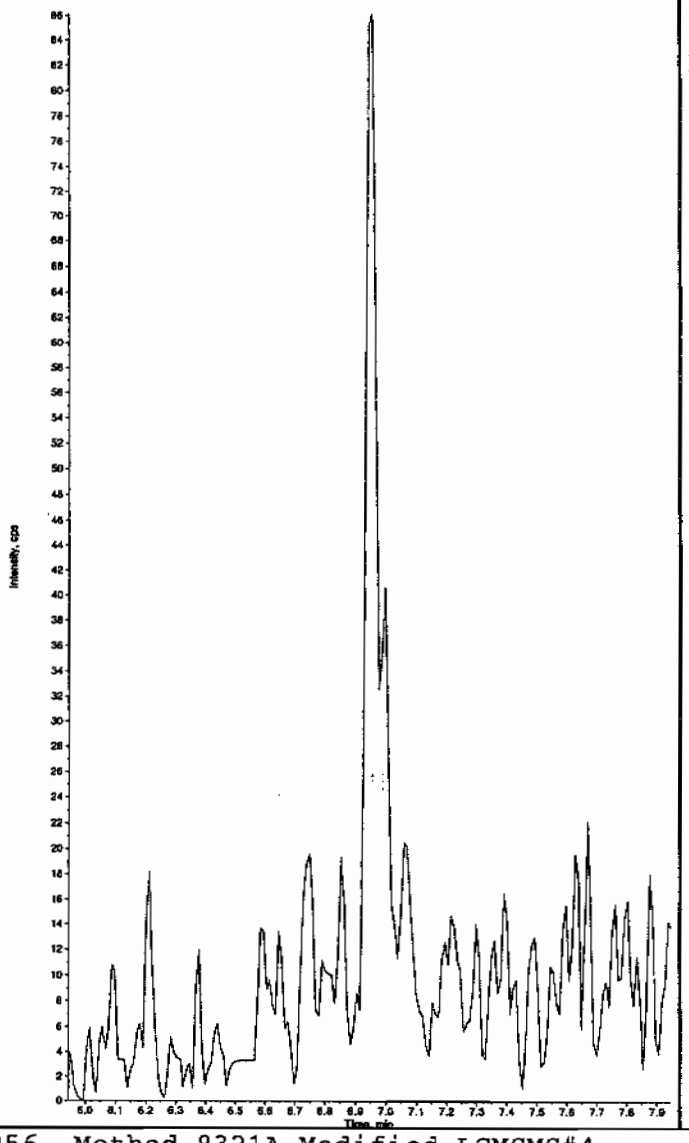
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

fan 3/3/10

Sample Name: "246677001" Sample ID: "952043|2|LER" File: "EXS03010034.wiff"
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: 3/1/2010
Acq. Time: 5:42:29 PM

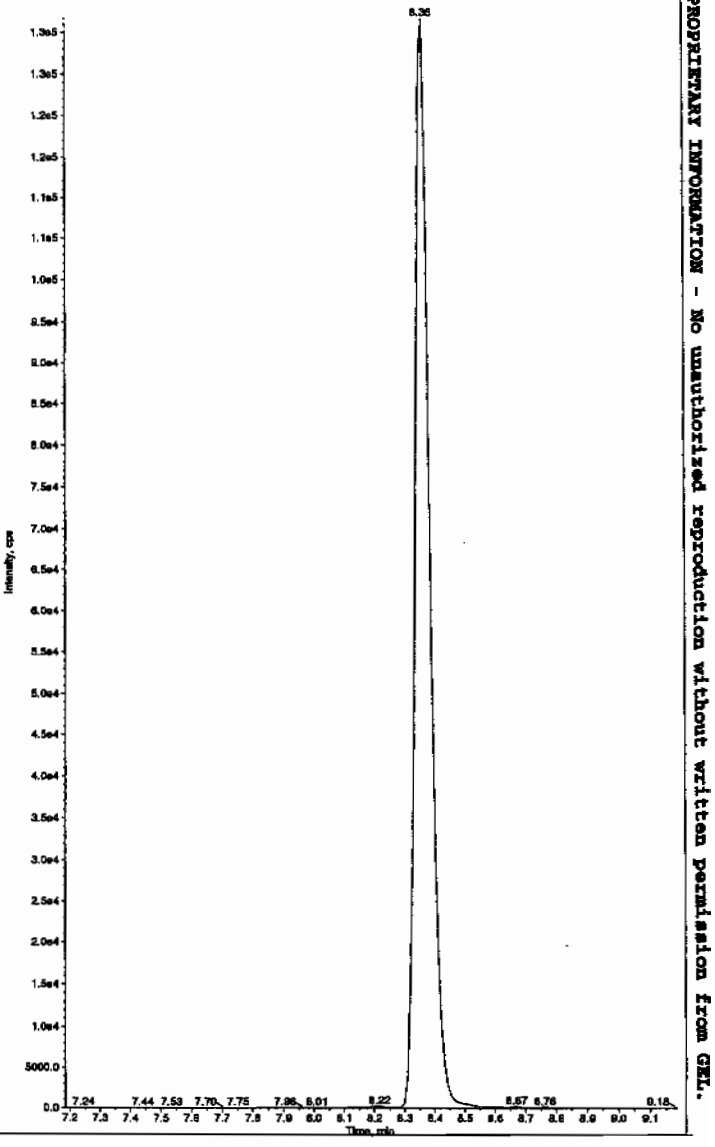
Modified: No



Sample Name: "246677001" Sample ID: "952043|2|LER" File: "EXS03010034.wiff"
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: 3/1/2010
Acq. Time: 5:42:29 PM

Modified: No



HMM 03/04/10

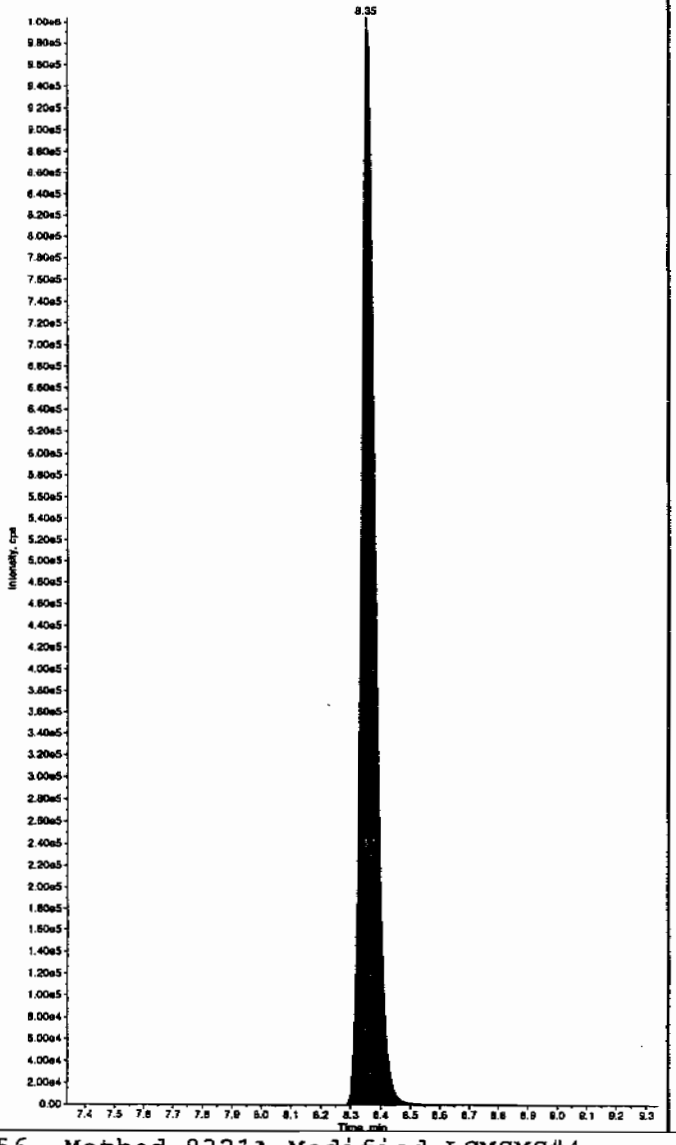
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677001" Sample ID: "952043|2|LER" File: "EXS03010034.wiff"
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: 280. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:42:29 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

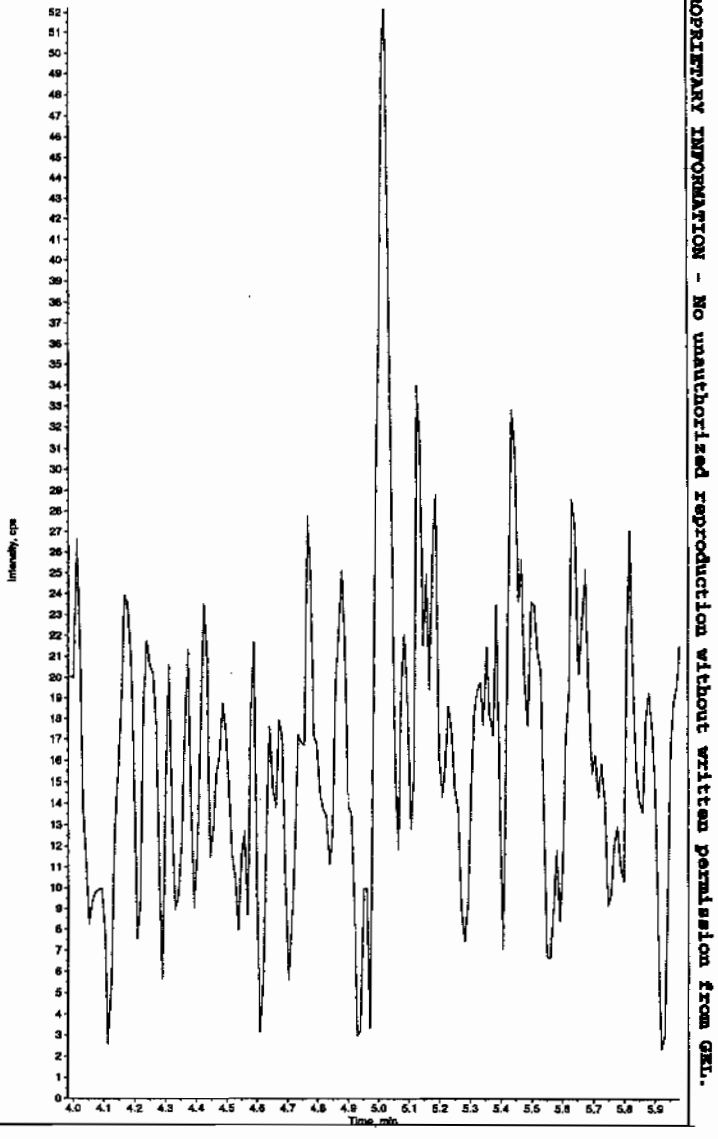
Int. Type: Valley
Retention Time: 8.35 min
Area: 3.39e+006 counts
Height: 1005280.151 cps
Start Time: 8.22 min
End Time: 8.70 min



Sample Name: "246677001" Sample ID: "952043|2|LER" File: "EXS03010034.wiff"
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: 3/1/2010
Acq. Time: 5:42:29 PM

Modified: No

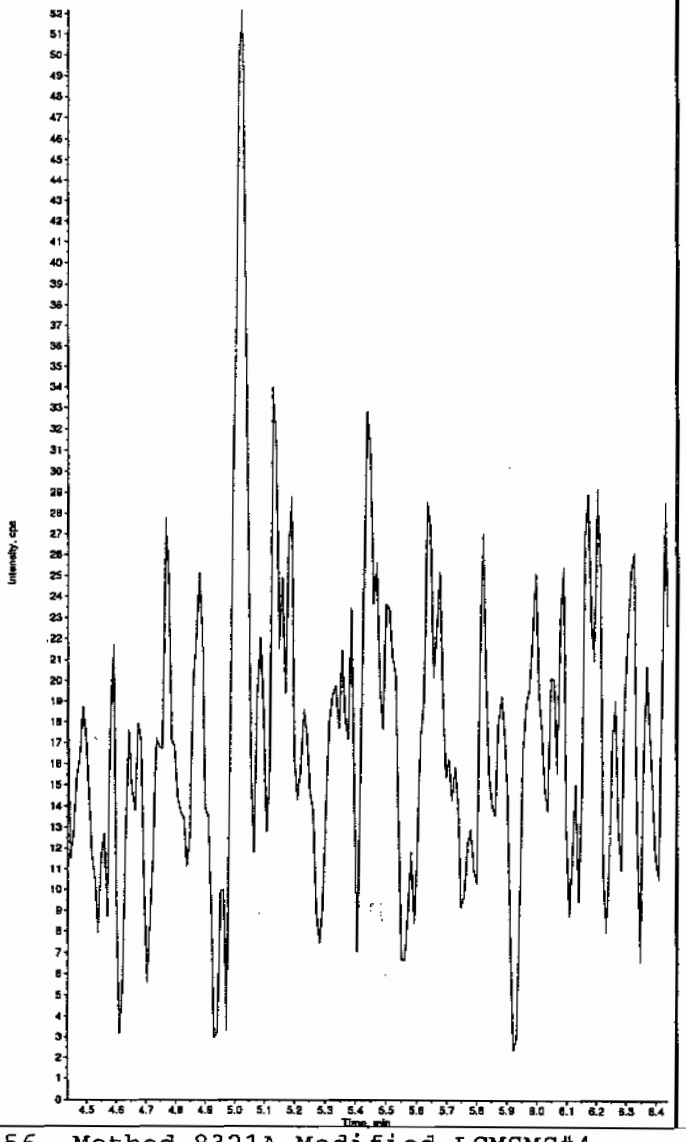


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677001" Sample ID: "952043|2|LER" File: "EXS03010034.wiff"
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: 3/1/2010
Acq. Time: 5:42:29 PM

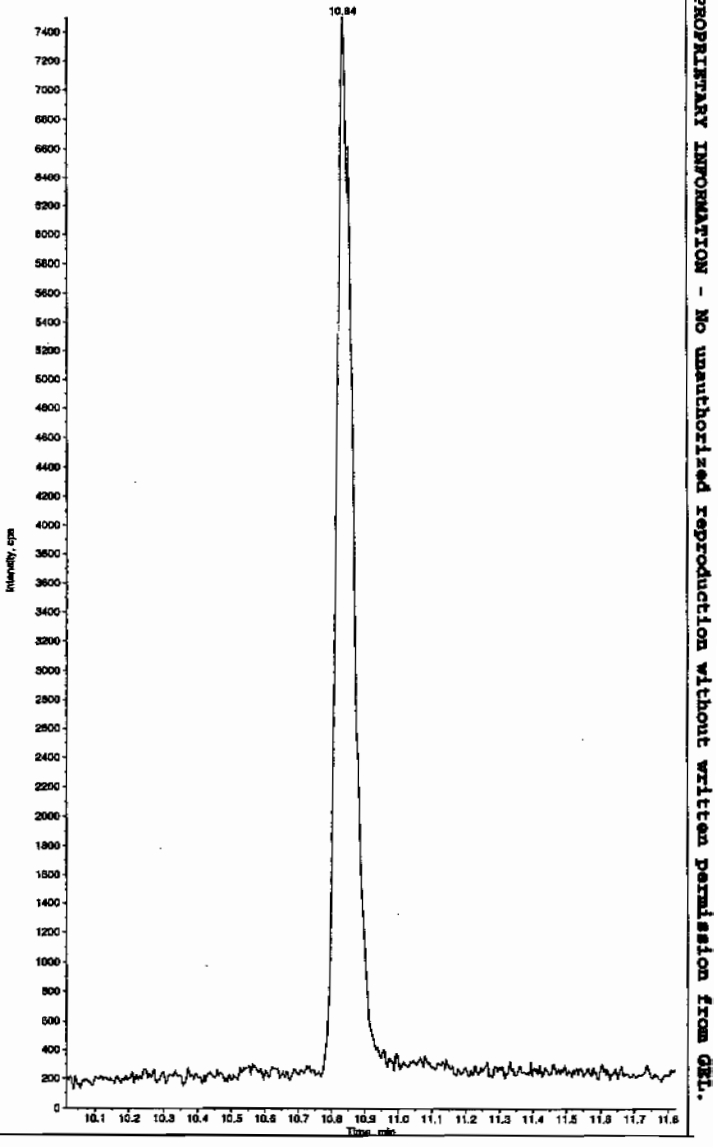
Modified: No



Sample Name: "246677001" Sample ID: "952043|2|LER" File: "EXS03010034.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "368.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:42:29 PM

Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8183

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311018a

Date Analyzed: 11-MAR-10 19:05

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

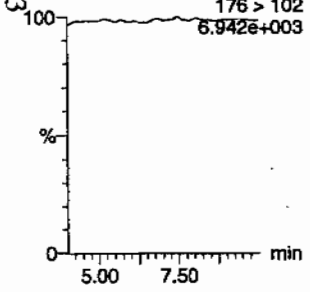
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311018a
Date: 11-Mar-2010
Time: 19:05:28
ID: 246677002
Vial: 2:1,F

| LANL | 952043 ~~950443~~ | Soil | 2 |

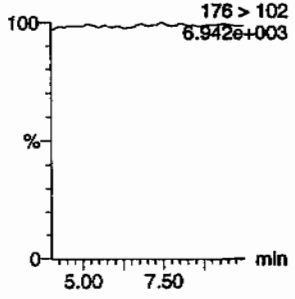
MMP 3/12/10

MMP 3/12/10

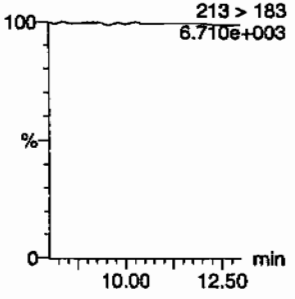
HMX
F2:MRM of 1 channel,AP-
176 > 102
6.942e+003



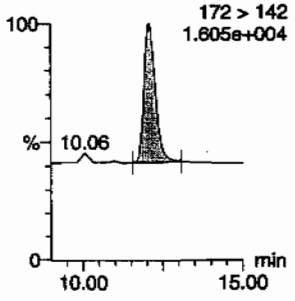
RDX
F2:MRM of 1 channel,AP-
176 > 102
6.942e+003



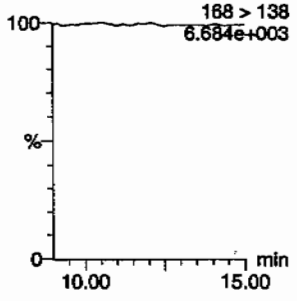
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.710e+003



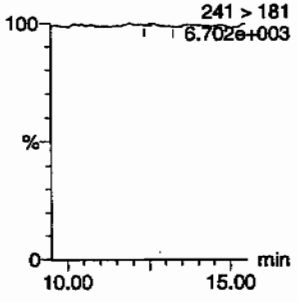
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.605e+004



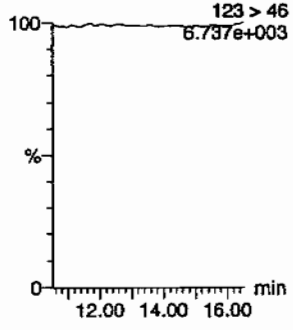
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.684e+003



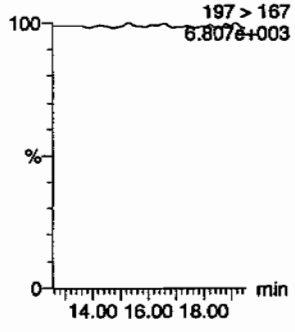
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.702e+003



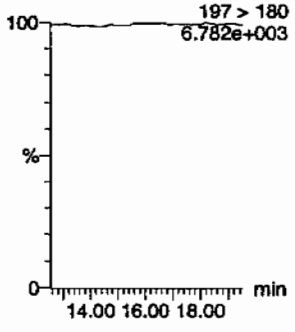
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.737e+003



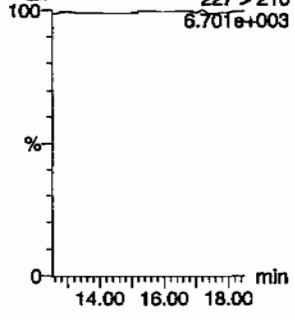
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.807e+003



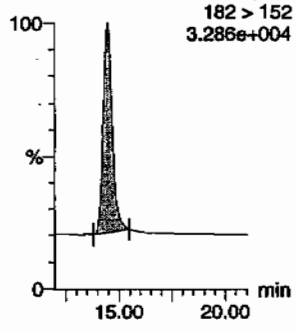
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.782e+003



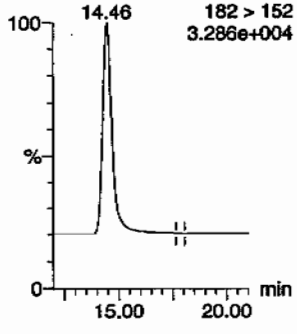
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.701e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
3.286e+004



26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.46
182 > 152
3.286e+004



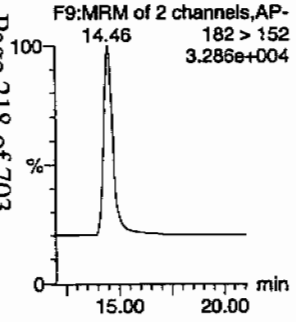
MMP 03/12/10

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

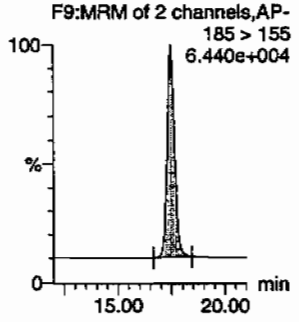
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

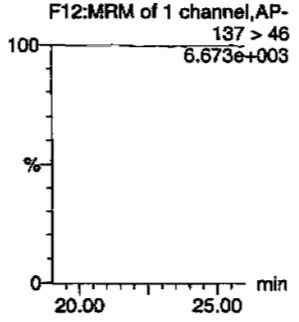
24-dinitrotoluene



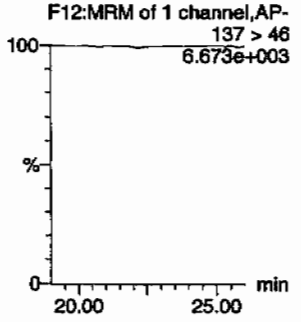
26-dinitrotoluene-d3



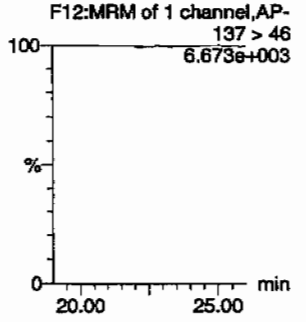
2-Nitrotoluene



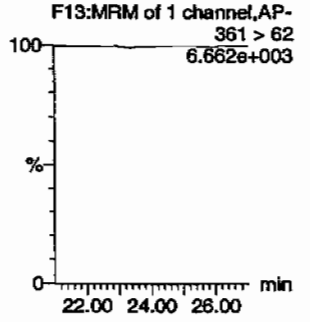
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
246677002	HMX	176 > 102			3850.522									
246677002	RDX	176 > 102			3850.522									
246677002	135-Trinitrobenzene	213 > 183			3850.522									
246677002	13-Dinitrobenzene-d4	172 > 142	12.10	3850.522		3850.522	3850.522	bb			498.7560	99.8	-0.2	236.6
246677002	13-Dinitrobenzene	168 > 138			3850.522									
246677002	Tetryl	241 > 181			3850.522			MM-	12-Mar-10	11:29:36				
246677002	Nitrobenzene	123 > 46			3850.522									
246677002	4-Amino-26-dinitrotoluene	197 > 167			23491.611									
246677002	2-Amino-46-dinitrotoluene	197 > 180			23491.611									
246677002	246-Trinitrotoluene	227 > 210			23491.611									
246677002	34-dinitrotoluene	182 > 152	14.46	12503.015	23491.611	12503.015	266.117	bb			248.8821	99.6	-0.4	610.1
246677002	26-dinitrotoluene	182 > 152			23491.611			MM-	12-Mar-10	13:21:47				
246677002	24-dinitrotoluene	182 > 152			23491.611									
246677002	26-dinitrotoluene-d3	185 > 155	17.46	23491.611		23491.611	23491.611	bb			533.9584	106.8	6.8	1603.1
246677002	2-Nitrotoluene	137 > 46			23491.611									
246677002	4-Nitrotoluene	137 > 46			23491.611									
246677002	3-Nitrotoluene	137 > 46			23491.611									
246677002	PETN	361 > 62			23491.611									

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8183

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260216.wiff

Date Analyzed: 28-FEB-10 23:13

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 =

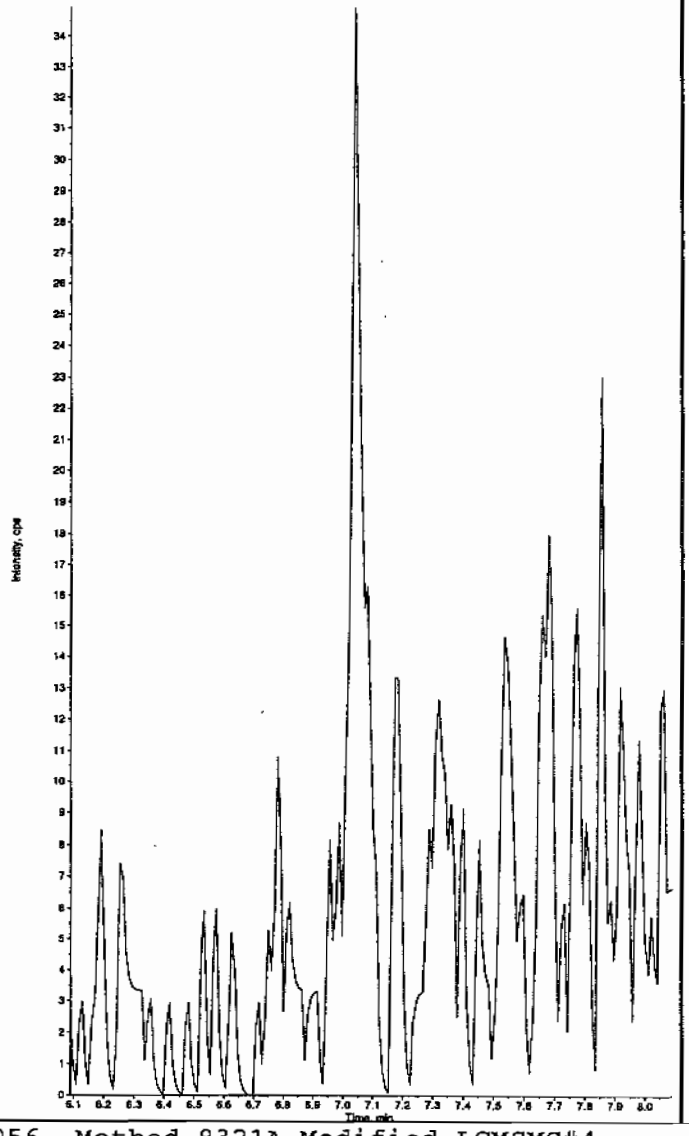
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dan 3/1/10

Sample Name: "245677002" Sample ID: "952043|2|LER" File: "EXS02260216.wiff"
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: 2/28/2010
Acq. Time: 11:13:18 PM

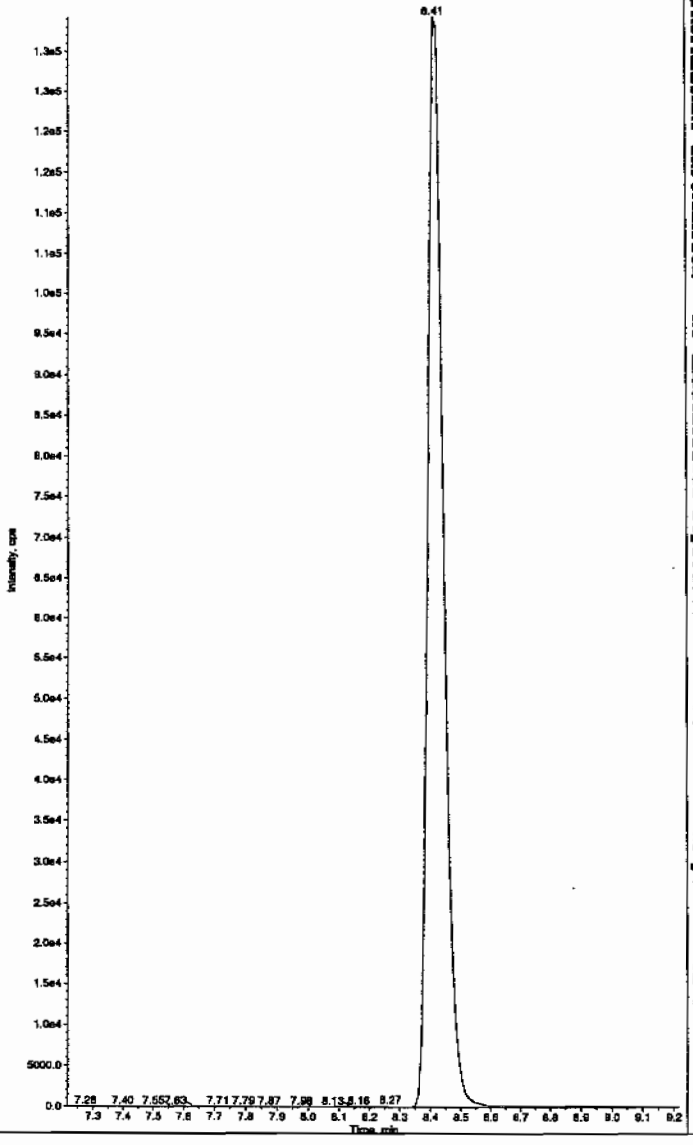
Modified: No



Sample Name: "245677002" Sample ID: "952043|2|LER" File: "EXS02260216.wiff"
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: 2/28/2010
Acq. Time: 11:13:16 PM

Modified: Yes



HMM 03/01/10

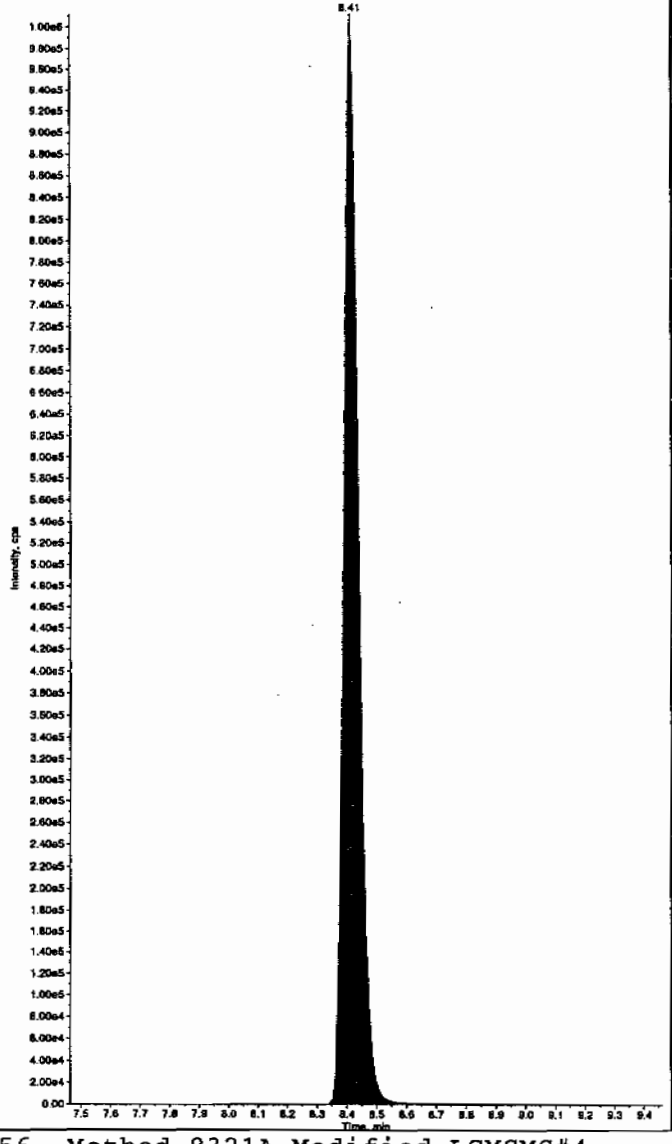
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "245677002" Sample ID: "952043[2]LER" File: "EXS02260216.wiff"
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: 260. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 11:13:18 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

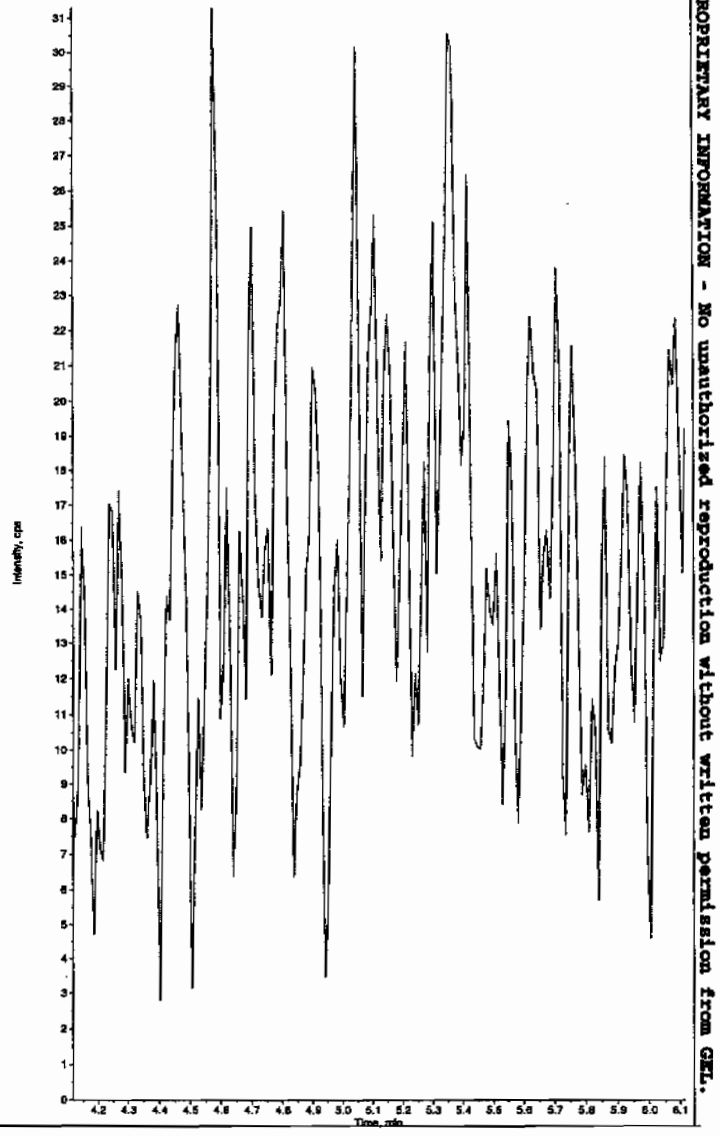
Int. Type: Valley
Retention Time: 8.41 min
Area: 3.57e+006 counts
Height: 1012071.960 cps
Start Time: 8.31 min
End Time: 8.74 min



Sample Name: "245677002" Sample ID: "952043[2]LER" File: "EXS02260216.wiff"
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: 2/28/2010
Acq. Time: 11:13:18 PM

Modified: No

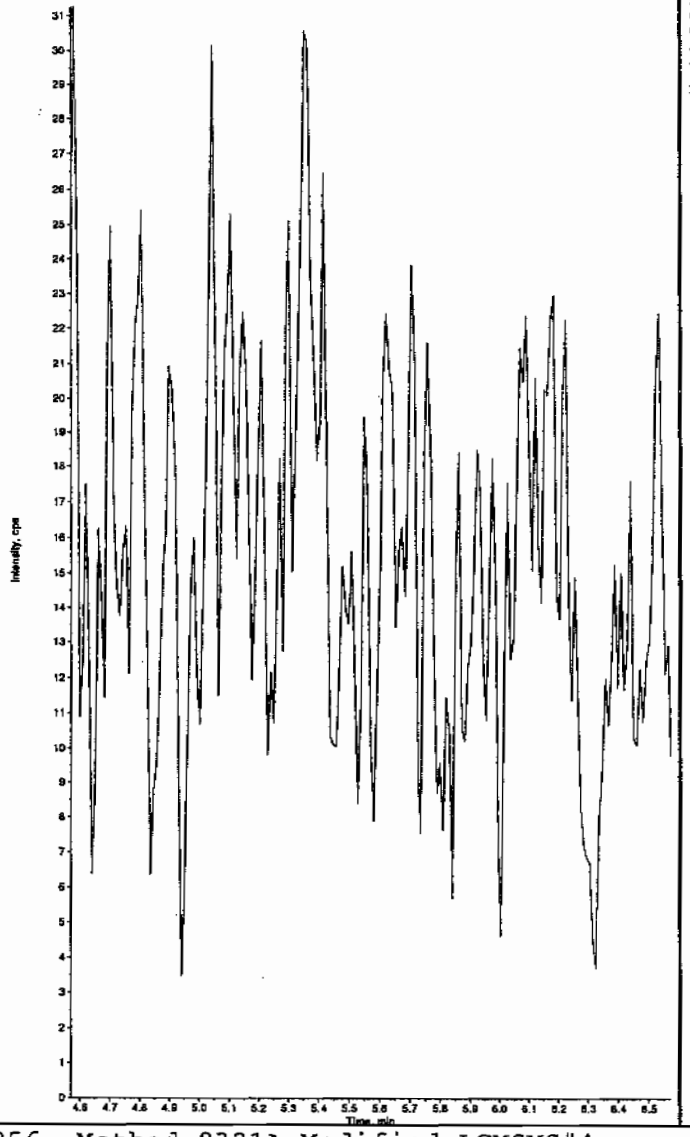


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677002" Sample ID: "952043[2]LER" File: "EXS02260216.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 11:13:18 PM

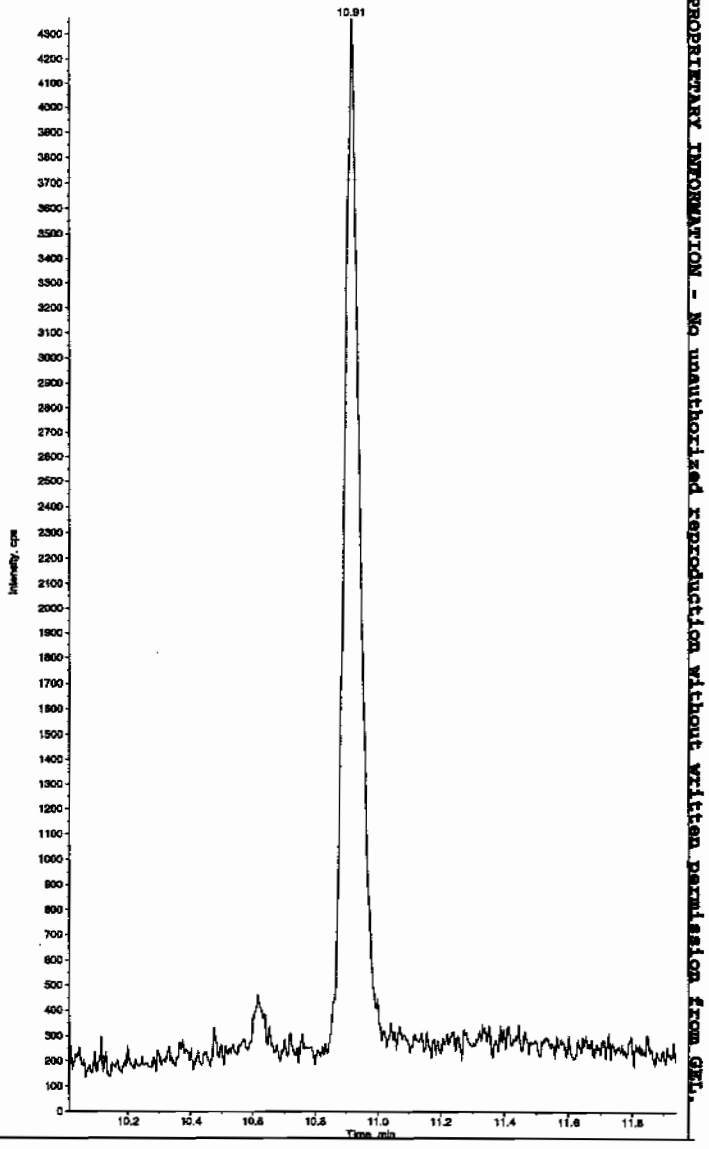
Modified: No



Sample Name: "246677002" Sample ID: "952043[2]LER" File: "EXS02260218.wiff"
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: 2/28/2010
Acq. Time: 11:13:18 PM

Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8179

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311019a

Date Analyzed: 11-MAR-10 19:34

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 =

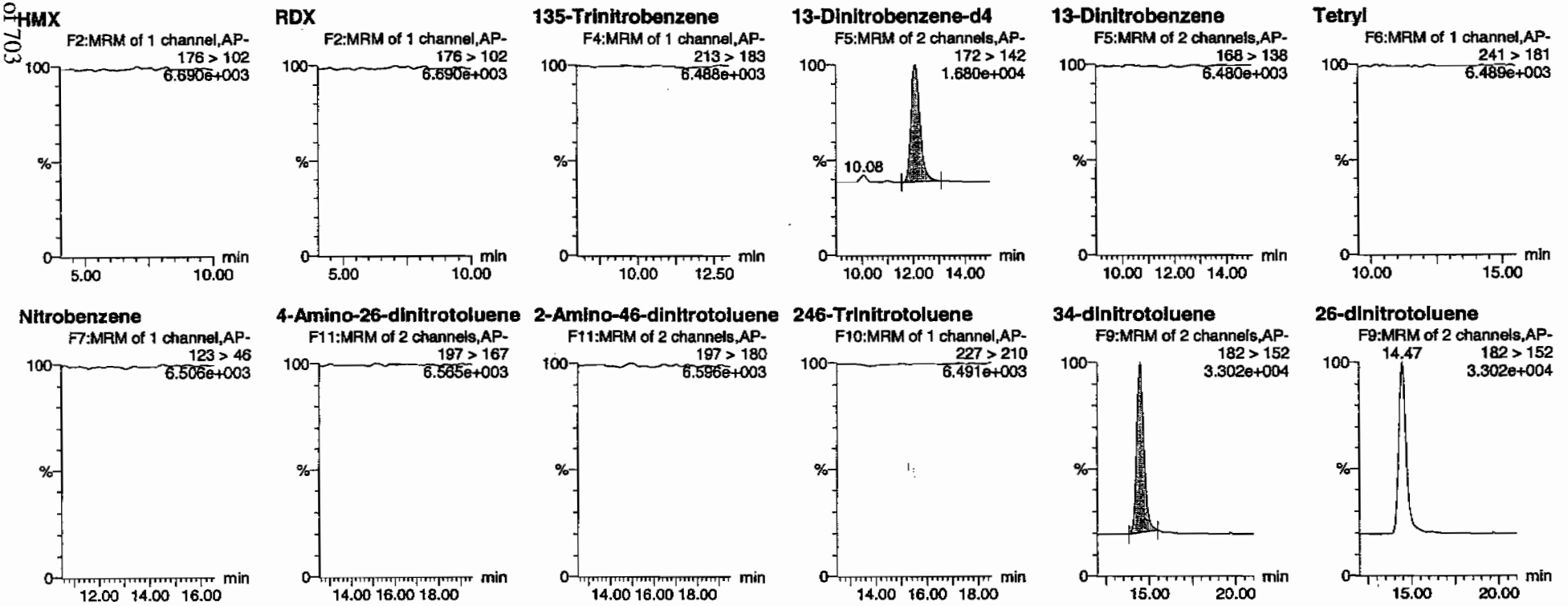
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311019a
Date: 11-Mar-2010
Time: 19:34:55
ID: 246677003 | LANL | 952043 | Solids | 21
Vial: 2:2,A

MAP 3/12/10



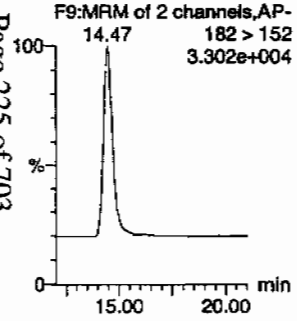
HMM 03/13/10

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

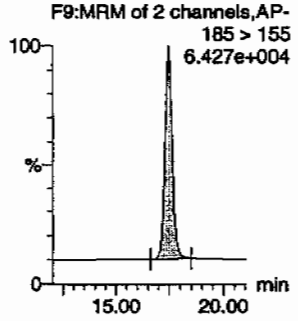
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

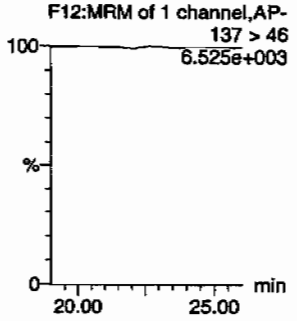
24-dinitrotoluene



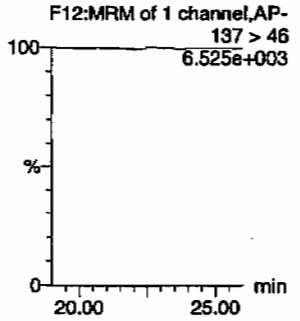
26-dinitrotoluene-d3



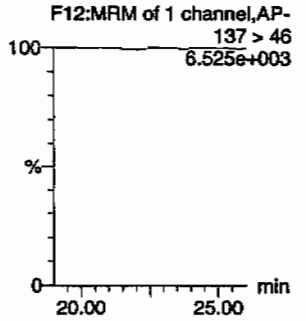
2-Nitrotoluene



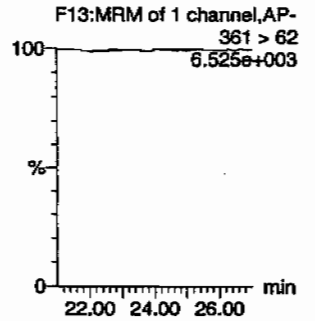
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%RSV	S/N
246677003	HMX	176 > 102			4248.580									
246677003	RDX	176 > 102			4248.580									
246677003	135-Trinitrobenzene	213 > 183			4248.580									
246677003	13-Dinitrobenzene-d4	172 > 142	12.10	4248.580		4248.580	4248.580	bb			550.3162	110.1	10.1	288.7
246677003	13-Dinitrobenzene	168 > 138			4248.580									
246677003	Tetryl	241 > 181			4248.580									
246677003	Nitrobenzene	123 > 46			4248.580									
246677003	4-Amino-26-dinitrotoluene	197 > 167			23613.256									
246677003	2-Amino-46-dinitrotoluene	197 > 180			23613.256									
246677003	246-Trinitrotoluene	227 > 210			23613.256									
246677003	34-dinitrotoluene	182 > 152	14.47	12655.914	23613.256	12655.914	267.983	bb			250.6279	100.3	0.3	666.4
246677003	26-dinitrotoluene	182 > 152			23613.256									
246677003	24-dinitrotoluene	182 > 152			23613.256									
246677003	26-dinitrotoluene-d3	185 > 155	17.47	23613.256		23613.256	23613.256	bb			536.7233	107.3	7.3	2025.4
246677003	2-Nitrotoluene	137 > 46			23613.256									
246677003	4-Nitrotoluene	137 > 46			23613.256									
246677003	3-Nitrotoluene	137 > 46			23613.256									
246677003	PETN	361 > 62			23613.256									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8179

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677003

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260217.wiff

Date Analyzed: 28-FEB-10 23:29

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 =

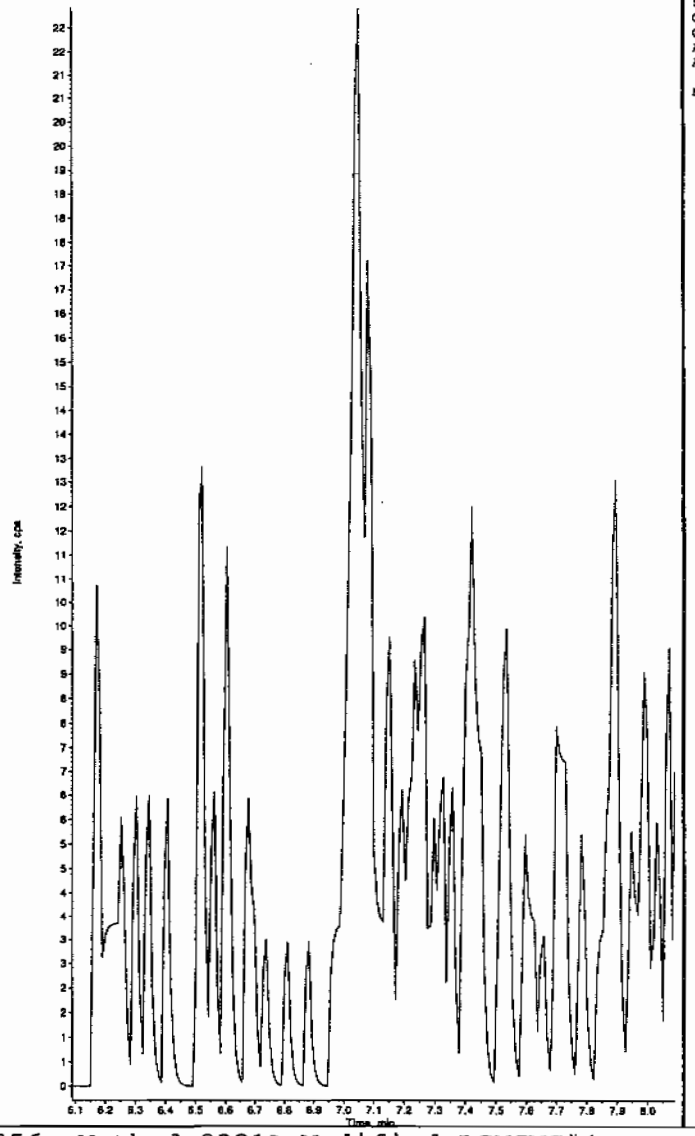
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Olen 3/1/10

Sample Name: "246677003" Sample ID: "952043|2|LER" File: "EXS02260217.wiff"
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: 2/28/2010
Acq. Time: 11:29:09 PM

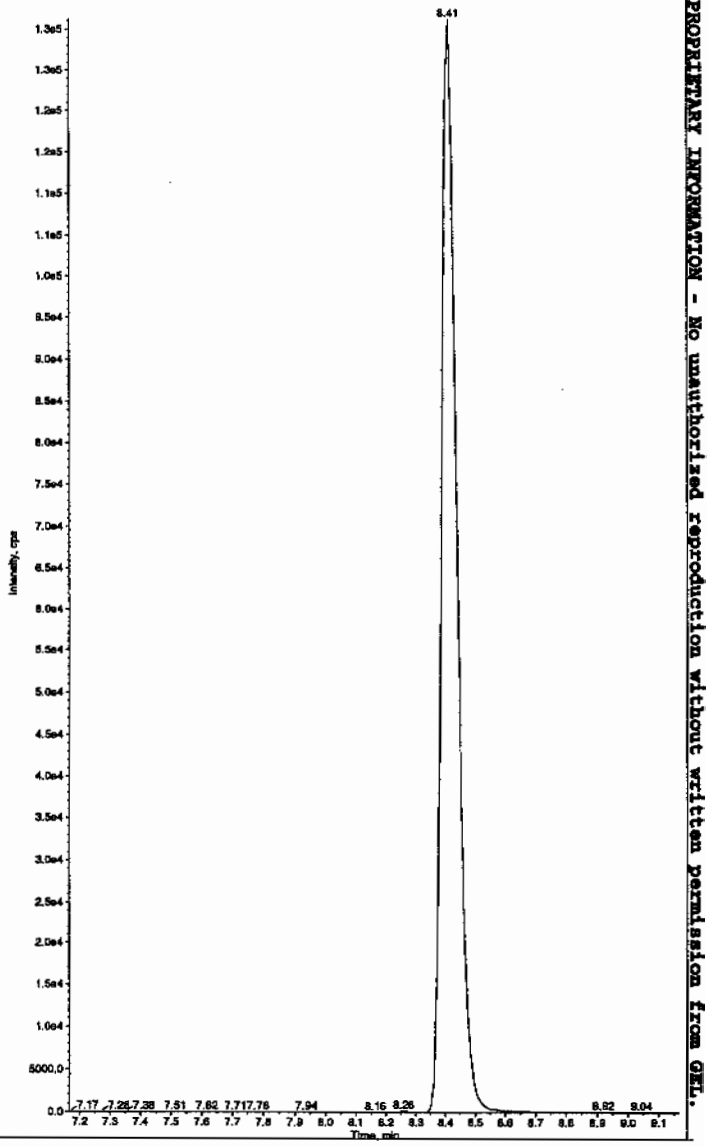
Modified: No



Sample Name: "246677003" Sample ID: "952043|2|LER" File: "EXS02260217.wiff"
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: 2/28/2010
Acq. Time: 11:29:09 PM

Modified: Yes



HMC 03/01/10

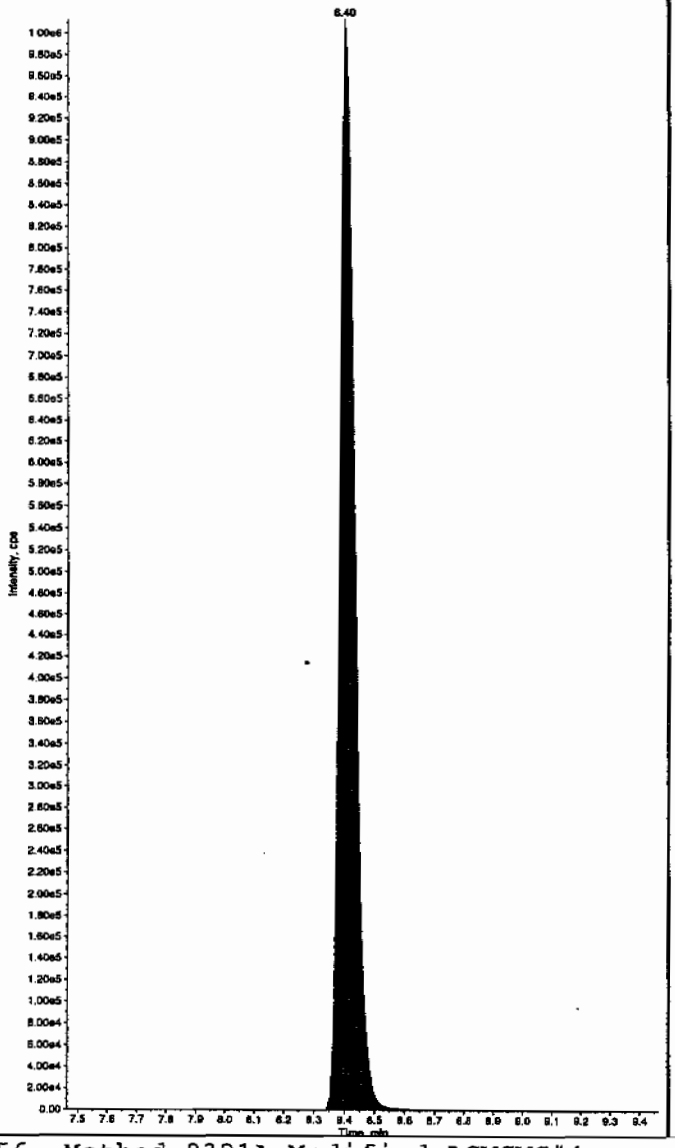
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677003" Sample ID: "952043|2|LER" File: "EXS02260217.wiff"
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: 262. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 11:29:09 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

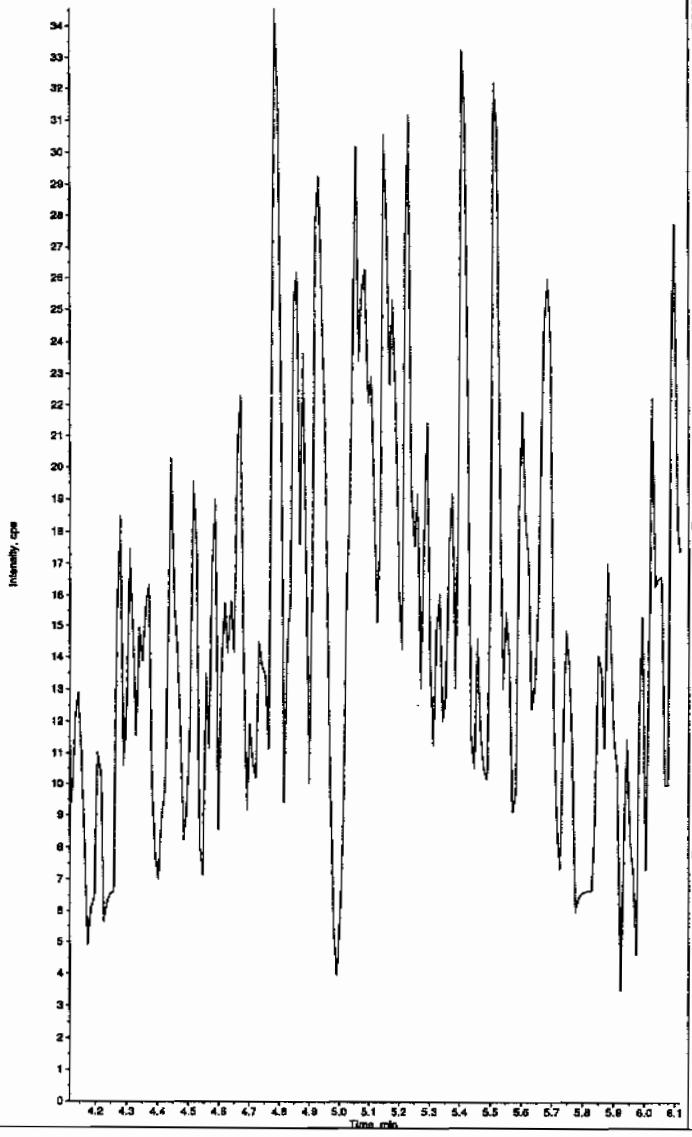
Int. Type: Valley
Retention Time: 8.40 min
Area: 3.59e+006 counts
Height: 1013813.660 cps
Start Time: 8.30 min
End Time: 8.75 min



Sample Name: "246677003" Sample ID: "952043|2|LER" File: "EXS02260217.wiff"
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: 2/28/2010
Acq. Time: 11:29:09 PM

Modified: No

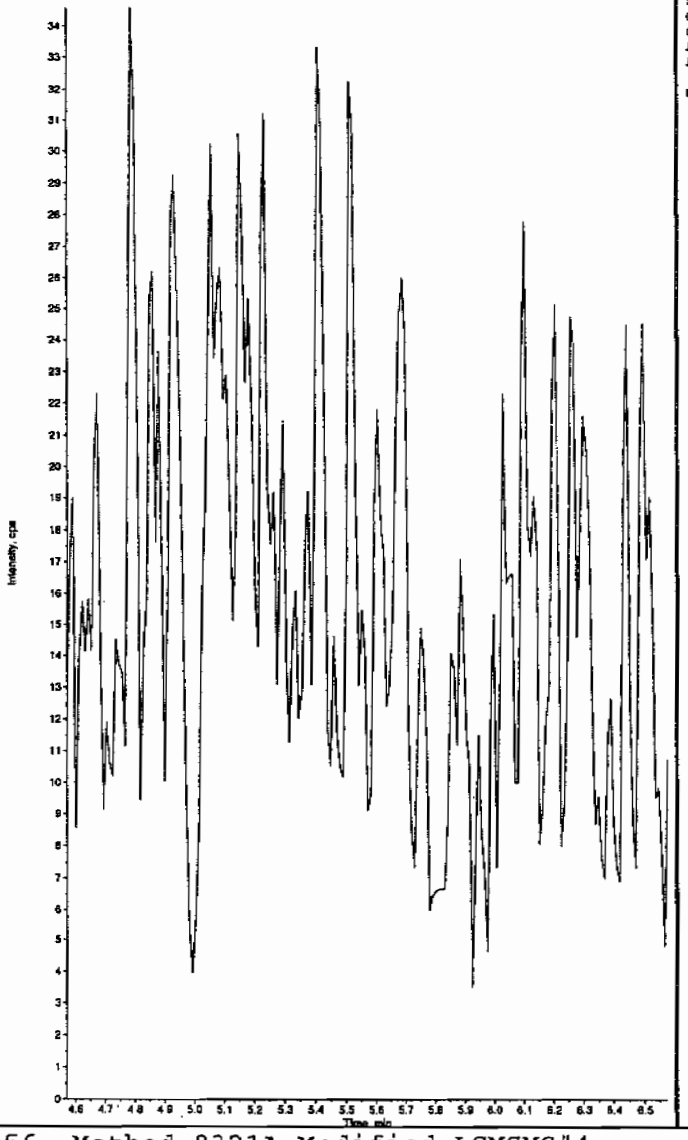


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677003" Sample ID: "952043|2|LER" File: "EXS02260217.wiff"
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: 2/28/2010
Acq. Time: 11:29:09 PM

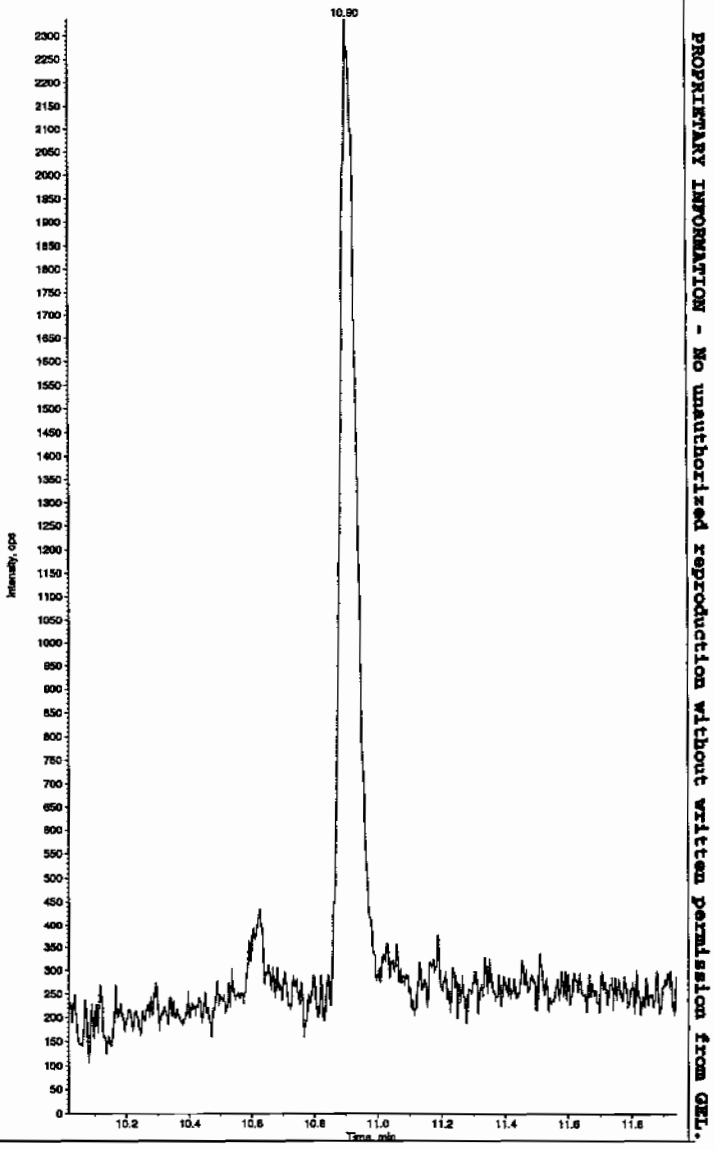
Modified: No



Sample Name: "246677003" Sample ID: "952043|2|LER" File: "EXS02260217.wiff"
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: 2/28/2010
Acq. Time: 11:29:09 PM

Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8184

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677004

Sample Amount 2

Moisture: 2.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311020a

Date Analyzed: 11-MAR-10 20:04

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 =

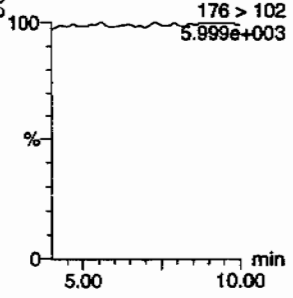
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

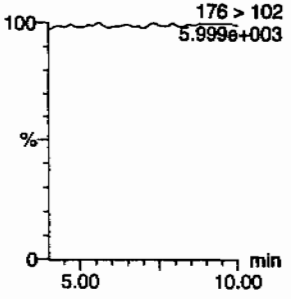
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311020a
Date: 11-Mar-2010
Time: 20:04:25
ID: 246677004 | LANL | 952043 | Soil | 2 |
Vial: 2:2,B

MMP 3/12/10

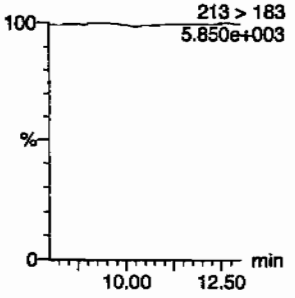
HMX
F2:MRM of 1 channel,AP-
176 > 102
5.999e+003



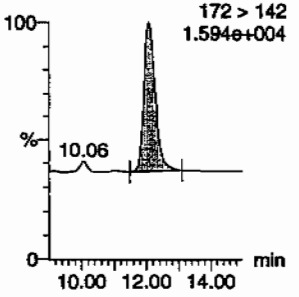
RDX
F2:MRM of 1 channel,AP-
176 > 102
5.999e+003



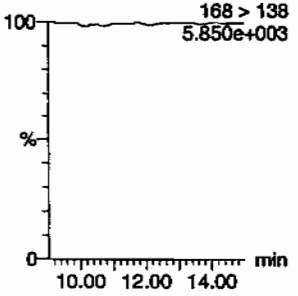
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
5.850e+003



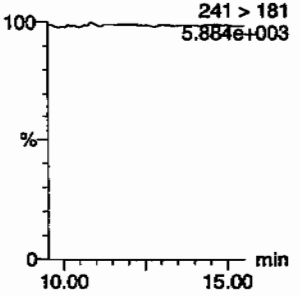
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.594e+004



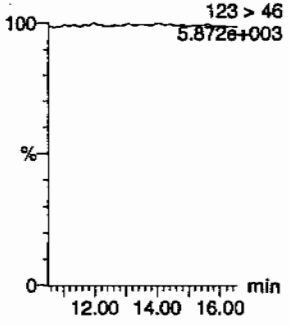
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
5.850e+003



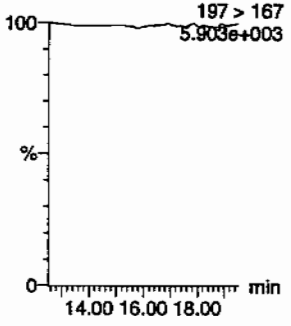
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
5.884e+003



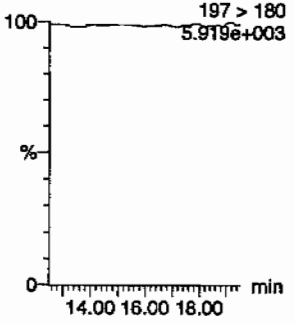
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
5.872e+003



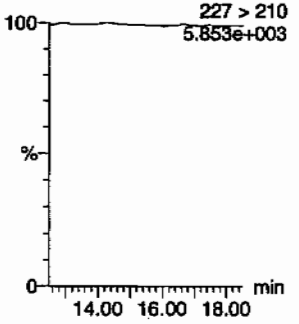
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
5.903e+003



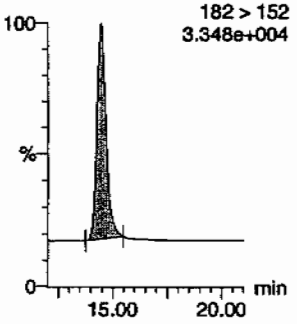
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
5.919e+003



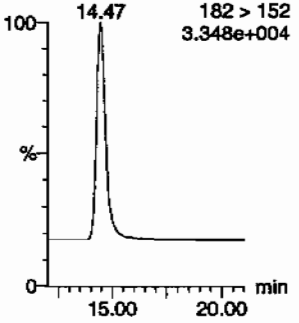
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
5.853e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
3.348e+004



26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.47
182 > 152
3.348e+004

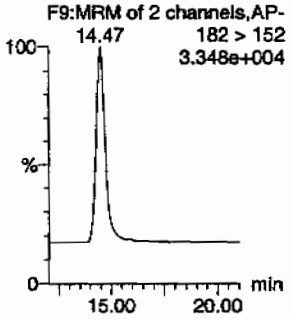


HMM 03/13/10

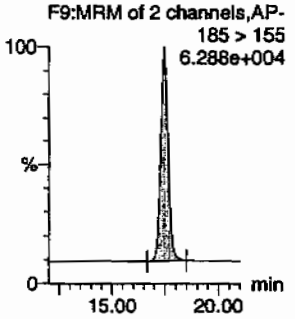
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

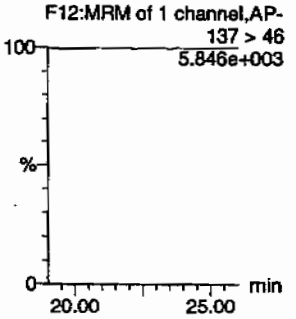
24-dinitrotoluene



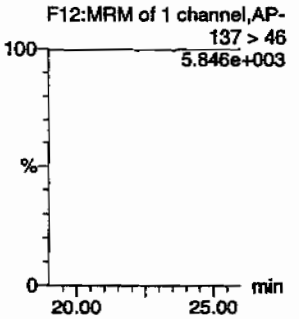
26-dinitrotoluene-d3



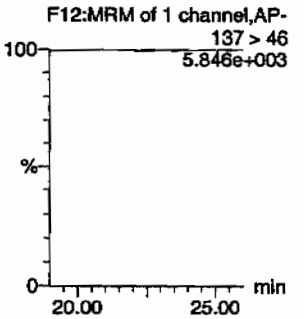
2-Nitrotoluene



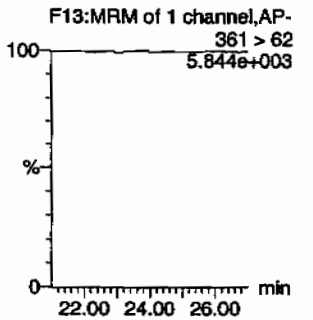
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S'Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
246677004	HMX	176 > 102			4117.214									
246677004	RDX	176 > 102			4117.214									
246677004	135-Trinitrobenzene	213 > 183			4117.214									
246677004	13-Dinitrobenzene-d4	172 > 142	12.10	4117.214		4117.214	4117.214	bb			533.3005	106.7	6.7	253.9
246677004	13-Dinitrobenzene	168 > 138			4117.214									
246677004	Tetryl	241 > 181			4117.214									
246677004	Nitrobenzene	123 > 46			4117.214									
246677004	4-Amino-26-dinitrotoluene	197 > 167			23390.291									
246677004	2-Amino-46-dinitrotoluene	197 > 180			23390.291									
246677004	246-Trinitrotoluene	227 > 210			23390.291									
246677004	34-dinitrotoluene	182 > 152	14.47	13095.724	23390.291	13095.724	279.939	bb			261.8097	104.7	4.7	725.2
246677004	26-dinitrotoluene	182 > 152			23390.291									
246677004	24-dinitrotoluene	182 > 152			23390.291									
246677004	26-dinitrotoluene-d3	185 > 155	17.47	23390.291		23390.291	23390.291	bb			531.6554	106.3	6.3	1541.1
246677004	2-Nitrotoluene	137 > 46			23390.291									
246677004	4-Nitrotoluene	137 > 46			23390.291									
246677004	3-Nitrotoluene	137 > 46			23390.291									
246677004	PETN	361 > 62			23390.291									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8184

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677004

Sample Amount 2

Moisture: 2.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260218.wiff

Date Analyzed: 28-FEB-10 23:44

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 =

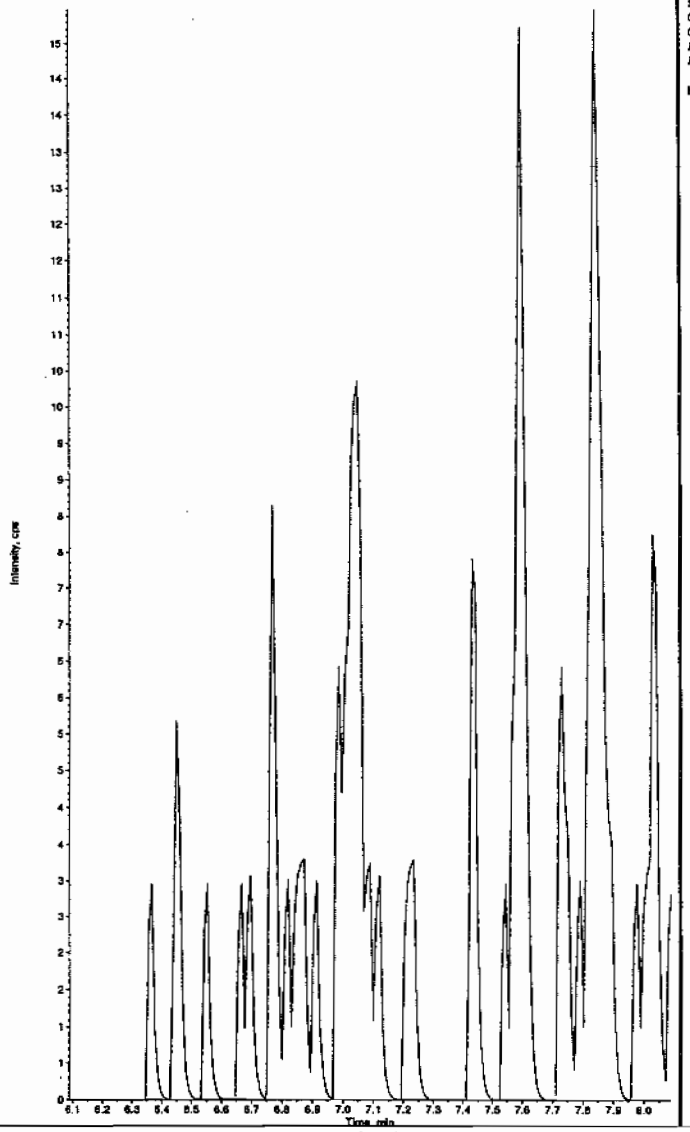
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dan 3/1/10

Sample Name: "245677004" Sample ID: "952043[2]LER" File: "EXS02260218.wiff"
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: 2/28/2010
Acq. Time: 11:44:52 PM

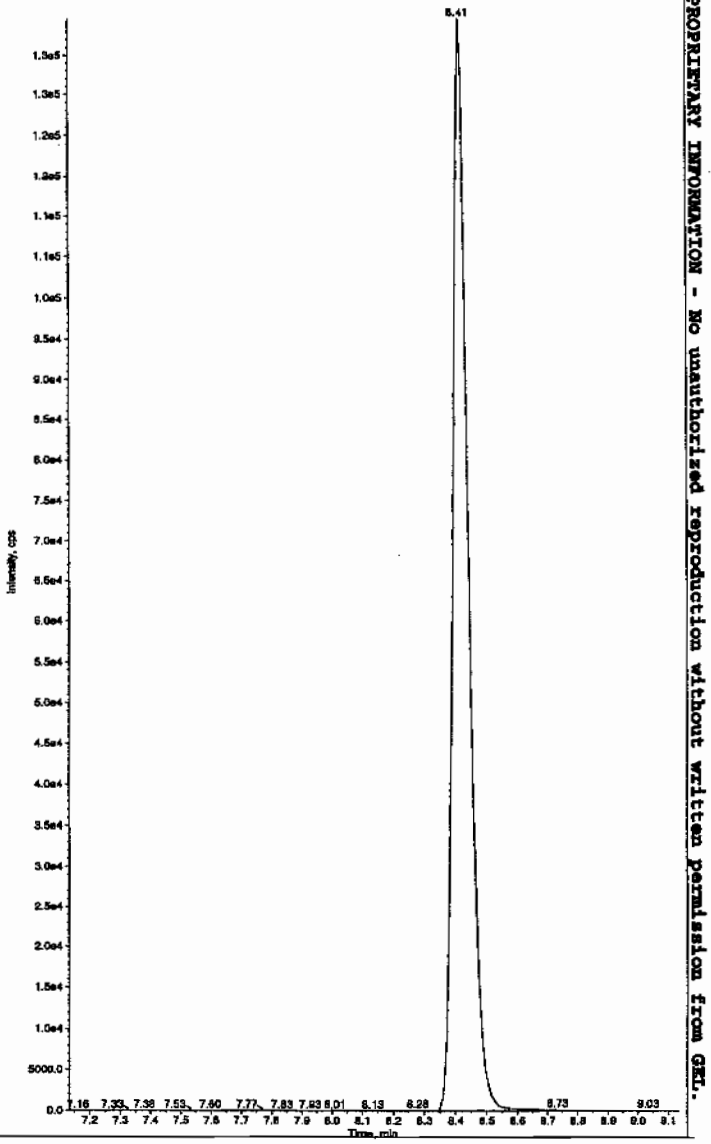
Modified: No



Sample Name: "245677004" Sample ID: "952043[2]LER" File: "EXS02260218.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 11:44:52 PM

Modified: Yes



HMW 03/01/10

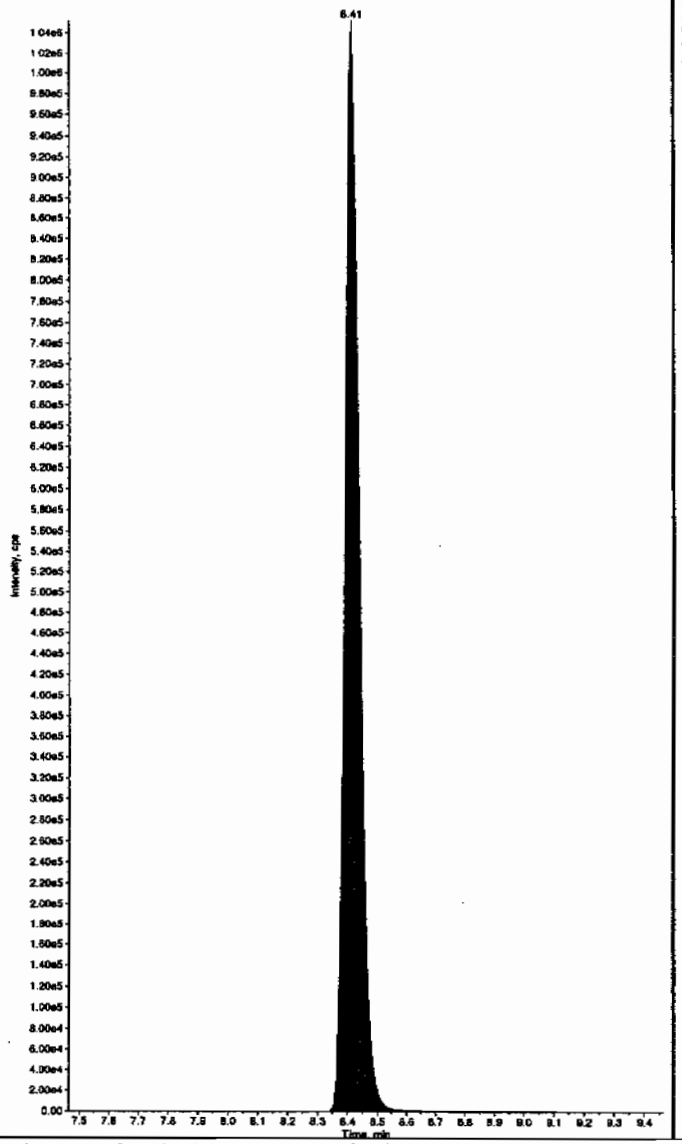
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677004" Sample ID: "952043[2]LER" File: "EXS02260218.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 266. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 11:44:52 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

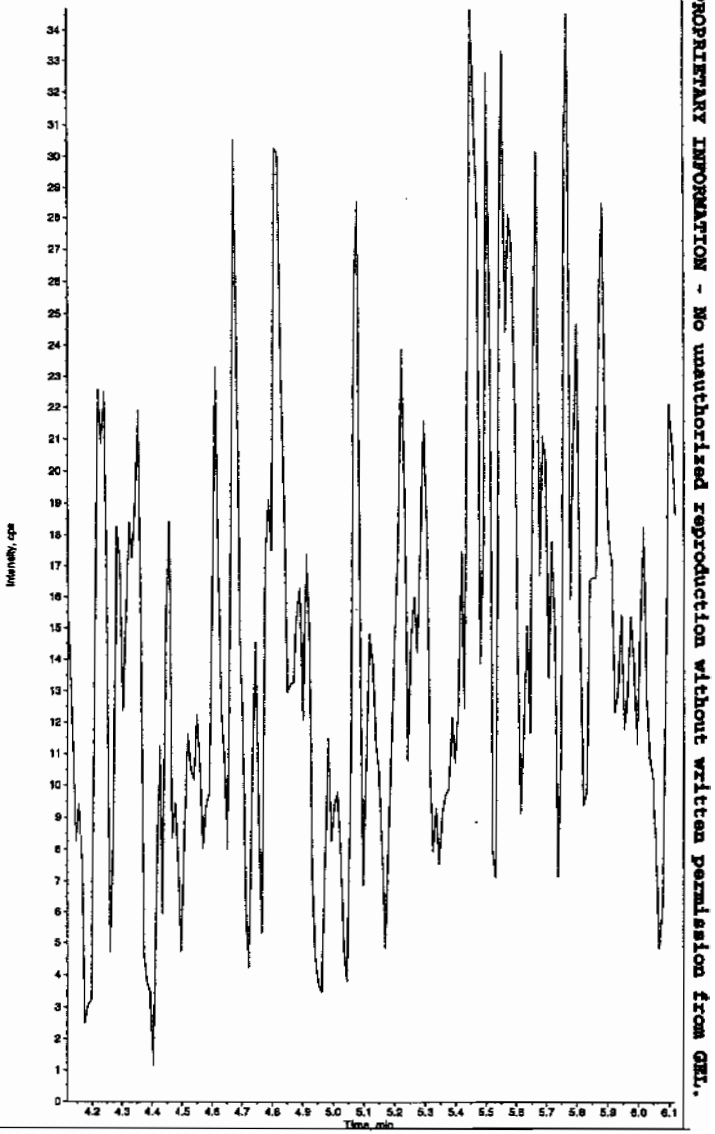
Int. Type: Valley
Retention Time: 8.41 min
Area: 3.64e+006 counts
Height: 1052707.397 cps
Start Time: 8.26 min
End Time: 8.77 min



Sample Name: "246677004" Sample ID: "952043[2]LER" File: "EXS02260218.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 11:44:52 PM

Modified: No

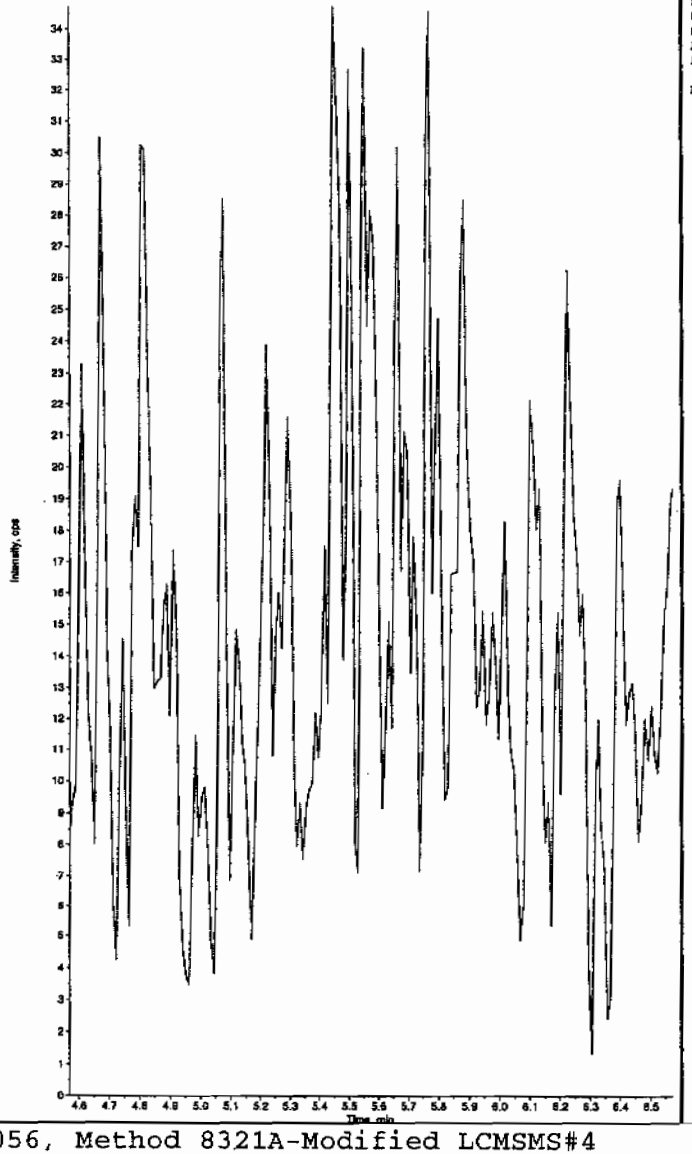


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677004" Sample ID: "952043|2|LER" File: "EXS02260218.wiff"
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: 2/28/2010
Acq. Time: 11:44:52 PM

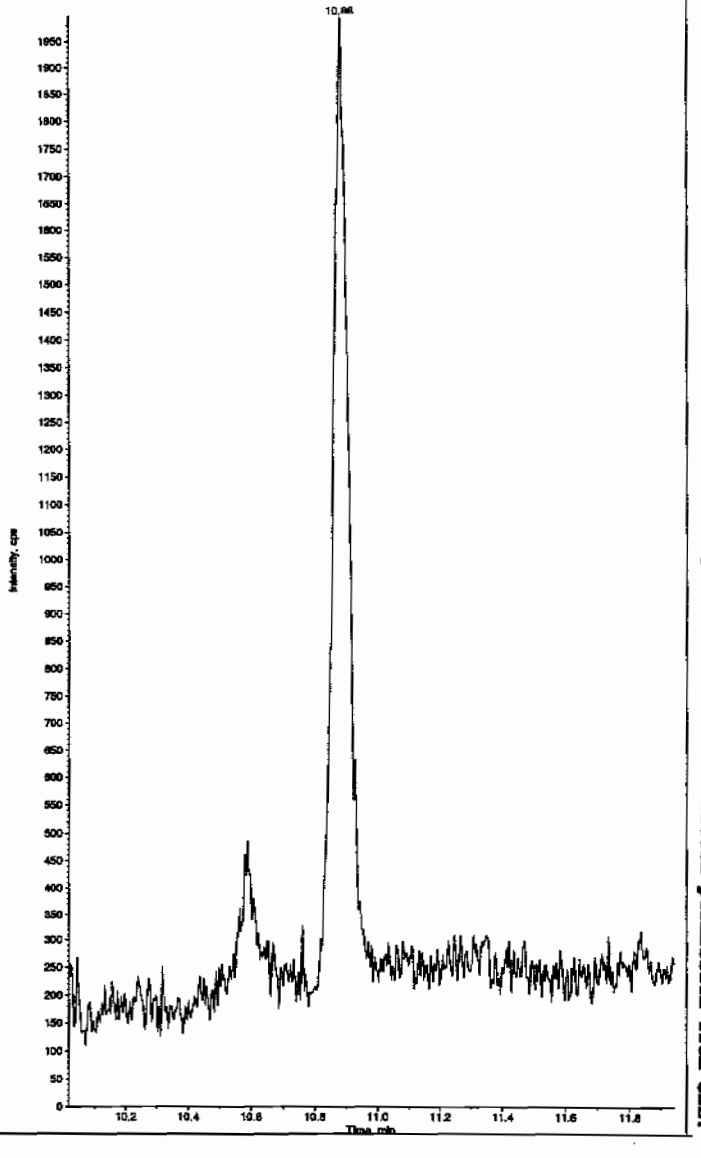
Modified: No



Sample Name: "246677004" Sample ID: "952043|2|LER" File: "EXS02260218.wiff"
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: 2/28/2010
Acq. Time: 11:44:52 PM

Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8180

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677005

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311021a

Date Analyzed: 11-MAR-10 20:33

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

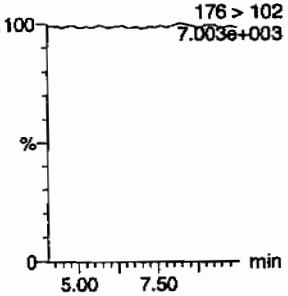
Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311021a
Date: 11-Mar-2010
Time: 20:33:54
ID: 246677005
Vial: 2:2,C

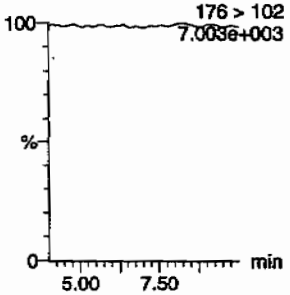
LANL | 952043 | Solid | 21

MJP 3/12/10

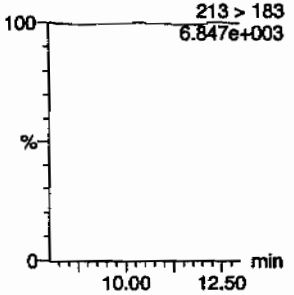
HMX
F2:MRM of 1 channel,AP-
176 > 102
7.003e+003



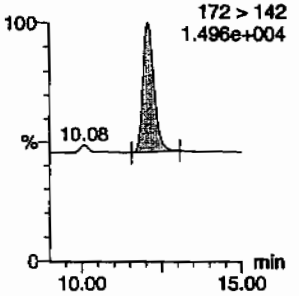
RDX
F2:MRM of 1 channel,AP-
176 > 102
7.003e+003



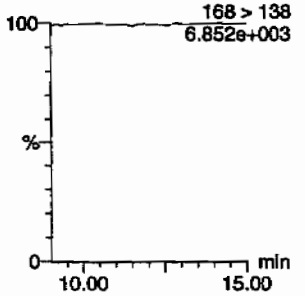
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.847e+003



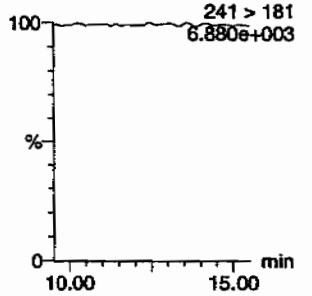
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.496e+004



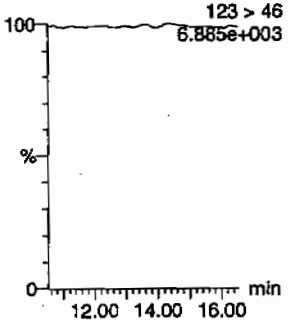
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.852e+003



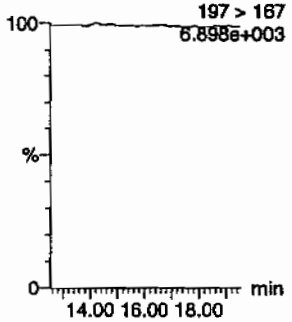
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.880e+003



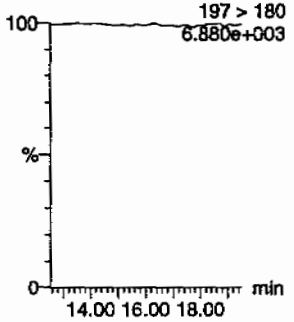
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.885e+003



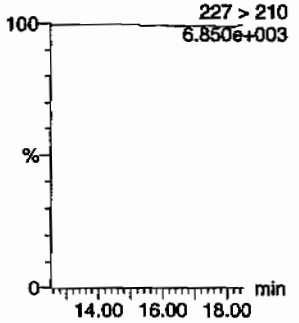
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.898e+003



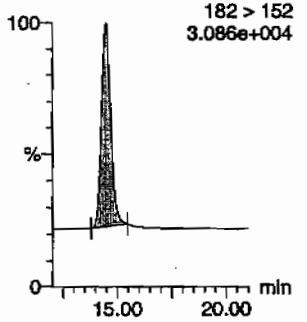
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.880e+003



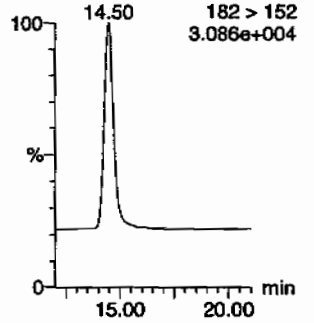
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.850e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
3.086e+004



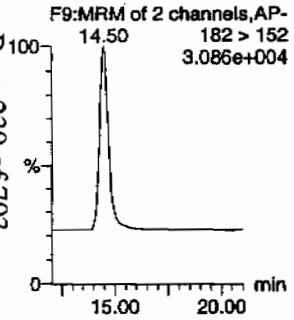
26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.50
182 > 152
3.086e+004



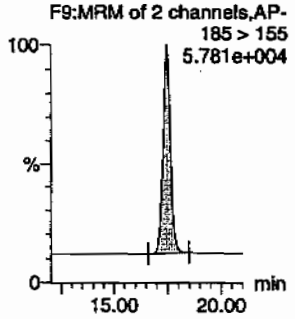
HMM 03/13/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

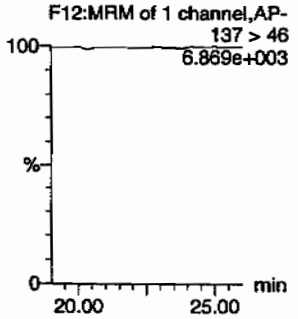
24-dinitrotoluene



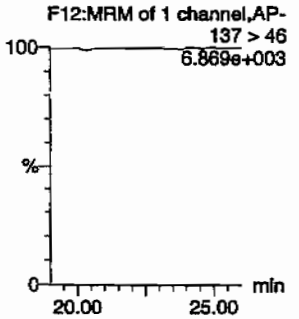
26-dinitrotoluene-d3



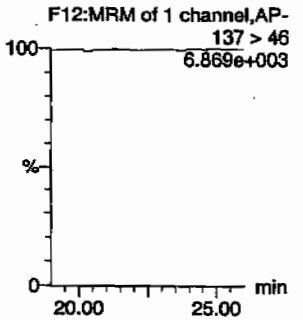
2-Nitrotoluene



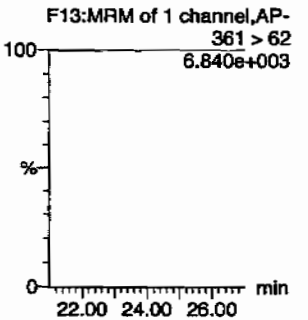
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
246677005	HMX	176 > 102			3356.206									
246677005	RDX	176 > 102			3356.206									
246677005	135-Trinitrobenzene	213 > 183			3356.206									
246677005	13-Dinitrobenzene-d4	172 > 142	12.10	3356.206		3356.206	3356.206	bb			434.7275	86.9	-13.1	275.4
246677005	13-Dinitrobenzene	168 > 138			3356.206									
246677005	Tetryl	241 > 181			3356.206									
246677005	Nitrobenzene	123 > 46			3356.206									
246677005	4-Amino-26-dinitrotoluene	197 > 167			20631.785									
246677005	2-Amino-46-dinitrotoluene	197 > 180			20631.785									
246677005	246-Trinitrotoluene	227 > 210			20631.785									
246677005	34-dinitrotoluene	182 > 152	14.50	11415.973	20631.785	11415.973	276.660	bb			258.7426	103.5	3.5	622.1
246677005	26-dinitrotoluene	182 > 152			20631.785									
246677005	24-dinitrotoluene	182 > 152			20631.785									
246677005	26-dinitrotoluene-d3	185 > 155	17.46	20631.785		20631.785	20631.785	bb			468.9553	93.8	-6.2	2344.4
246677005	2-Nitrotoluene	137 > 46			20631.785									
246677005	4-Nitrotoluene	137 > 46			20631.785									
246677005	3-Nitrotoluene	137 > 46			20631.785									
246677005	PETN	361 > 62			20631.785									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8180

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677005

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260219.wiff

Date Analyzed: 01-MAR-10 00:00

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

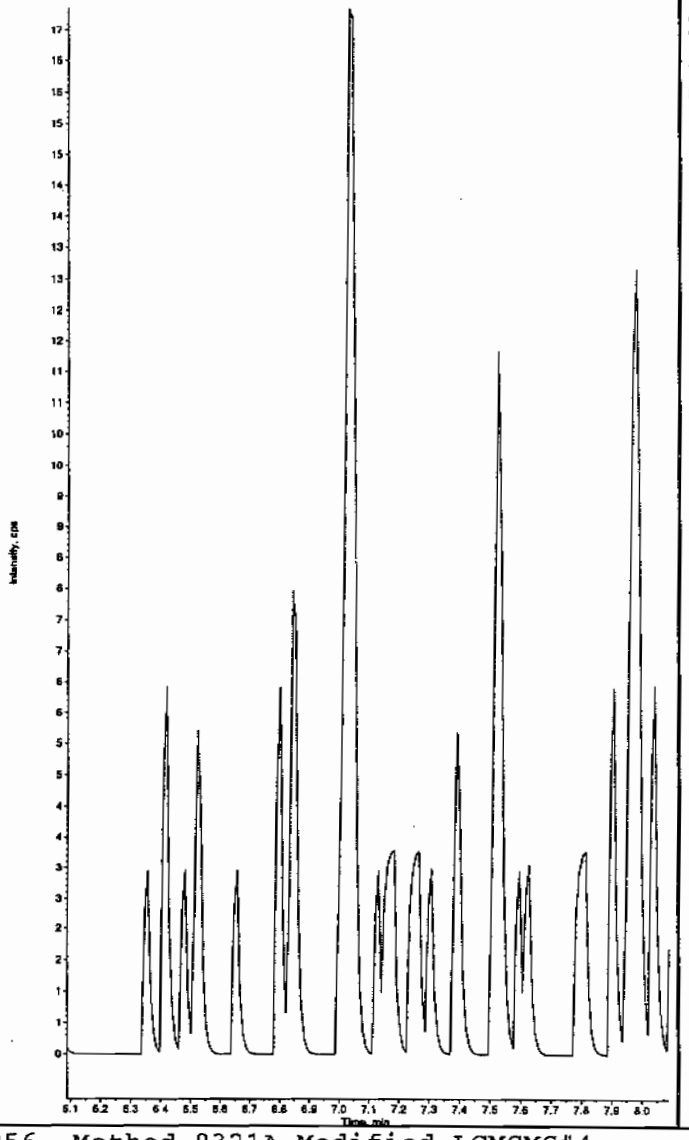
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dcn 3/1/10

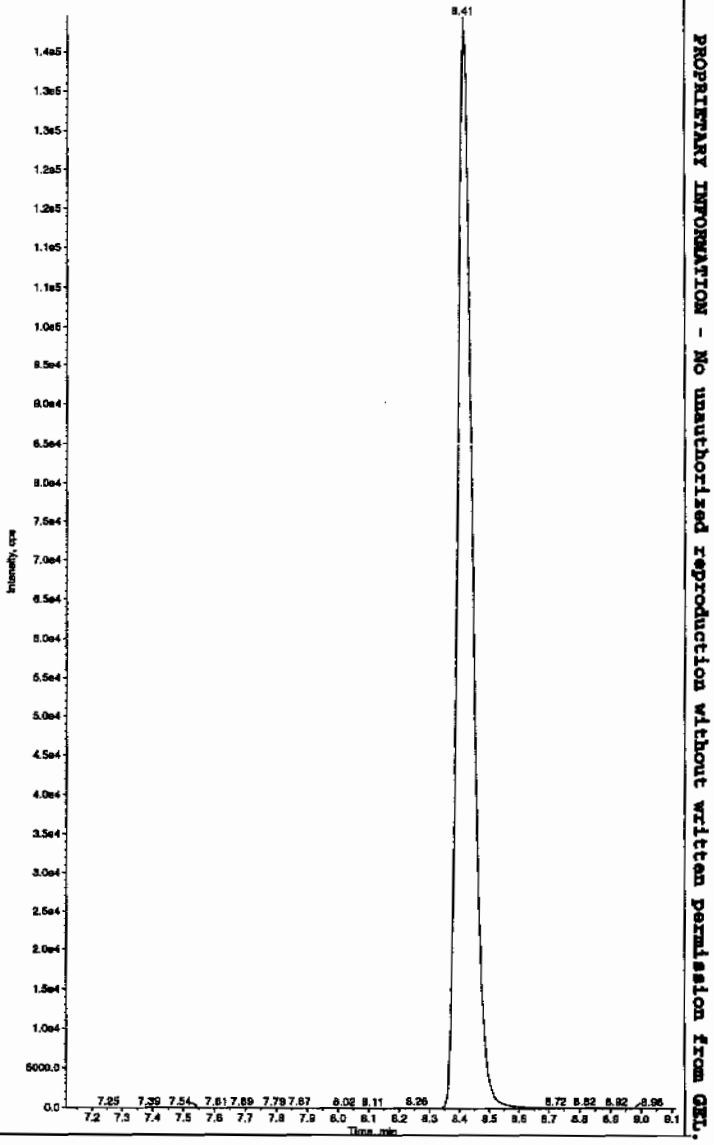
Sample Name: "246677005" Sample ID: "952043|2|LER" File: "EXS02260219.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:00:34 AM

Modified: No



Sample Name: "246677005" Sample ID: "952043|2|LER" File: "EXS02260219.wiff"
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: 3/1/2010
Acq. Time: 12:00:34 AM

Modified: Yes



Hmm 03/01/10

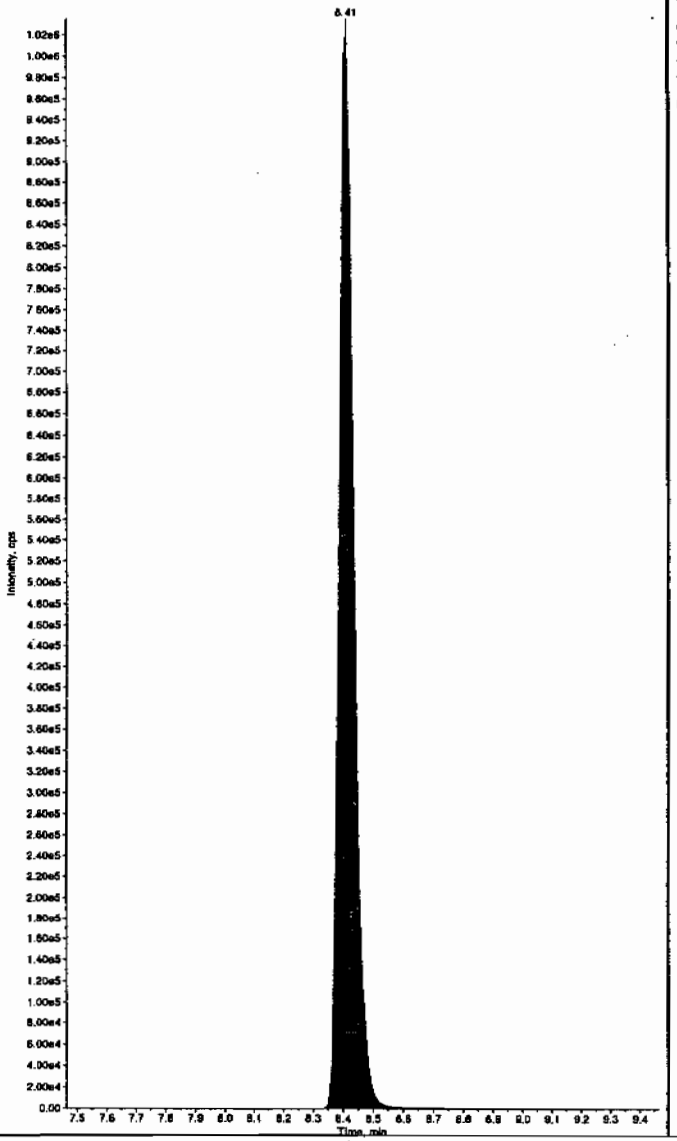
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677005" Sample ID: "952043|2|LER" File: "EXS02260219.wiff"
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: 260. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:00:34 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

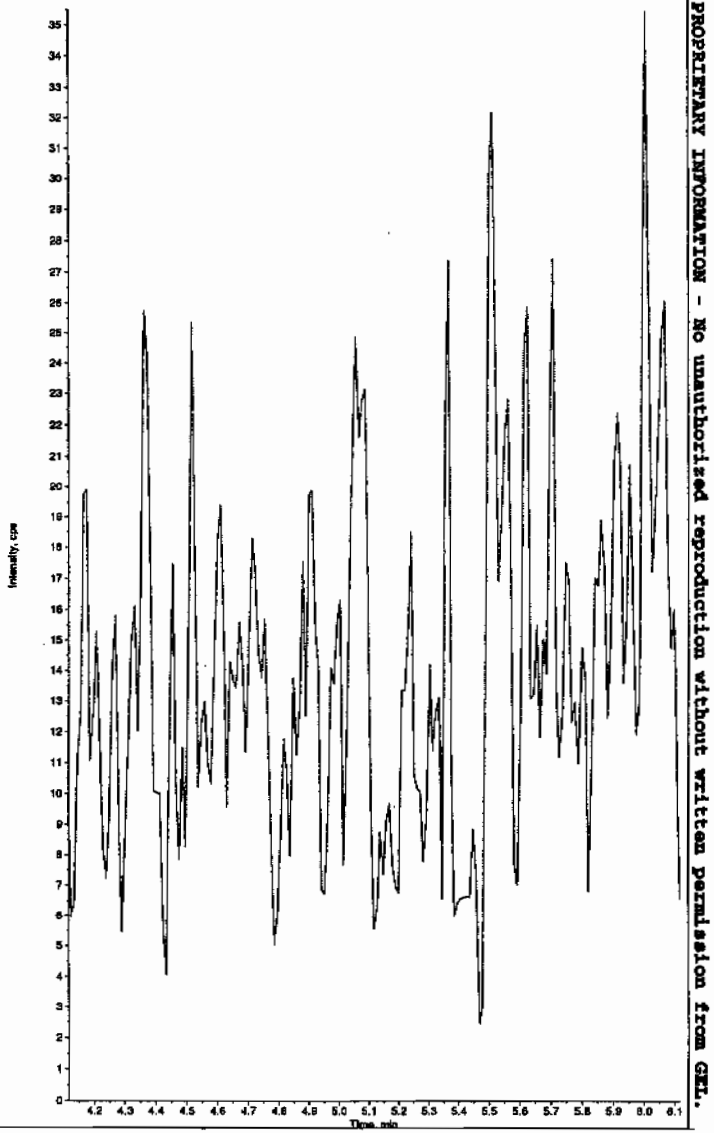
Int. Type: Valley
Retention Time: 8.41 min
Area: 3.57e+006 counts
Height: 1036062.744 cps
Start Time: 8.32 min
End Time: 8.71 min



Sample Name: "246677005" Sample ID: "952043|2|LER" File: "EXS02260219.wiff"
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: 3/1/2010
Acq. Time: 12:00:34 AM

Modified: No

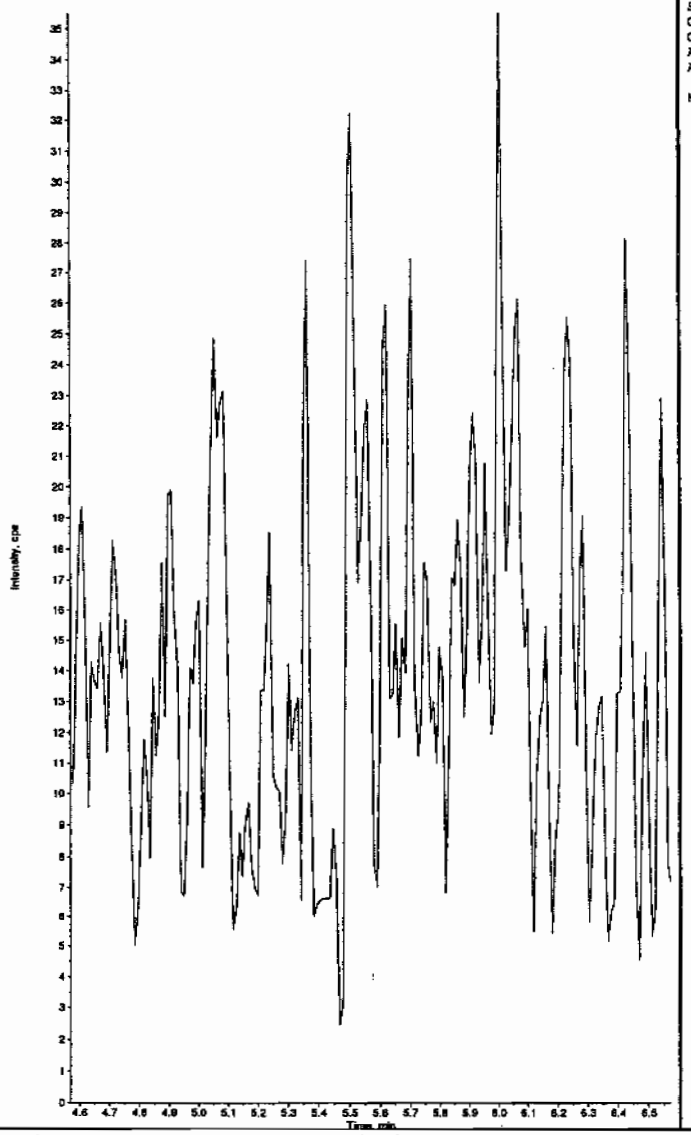


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677005" Sample ID: "952043[2]LER" File: "EXS02260219.wiff"
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: 3/1/2010
Acq. Time: 12:00:34 AM

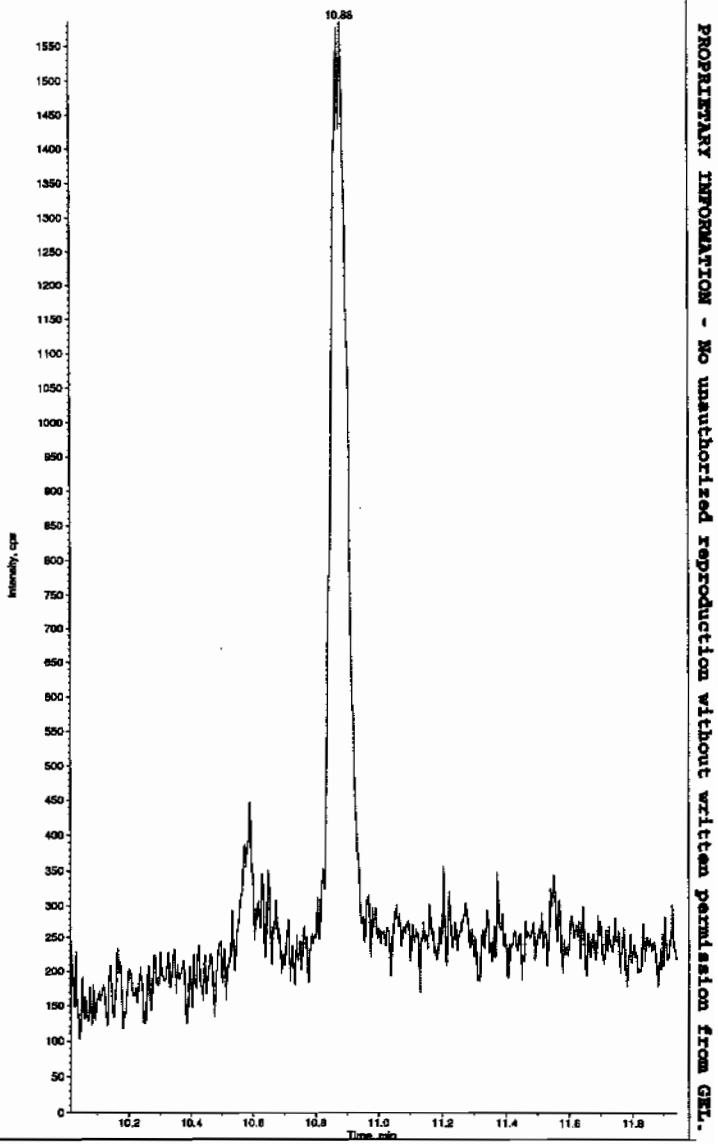
Modified: No



Sample Name: "246677005" Sample ID: "952043[2]LER" File: "EXS02260219.wiff"
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: 3/1/2010
Acq. Time: 12:00:34 AM

Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8181

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311022a

Date Analyzed: 11-MAR-10 21:03

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

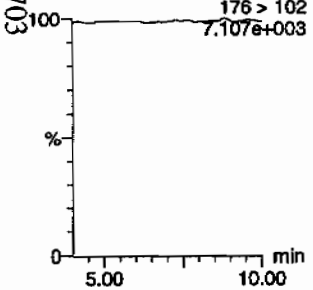
Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311022a
Date: 11-Mar-2010
Time: 21:03:22
ID: 246677006
Vial: 2:2,D

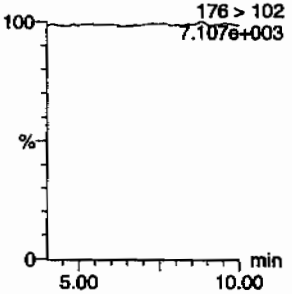
LANL / 952043 / Solids / 21

MMT 3/12/10

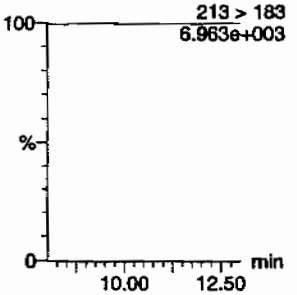
HMX
F2:MRM of 1 channel,AP-
176 > 102
7.107e+003



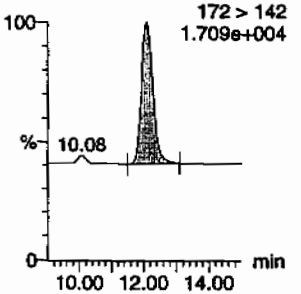
RDX
F2:MRM of 1 channel,AP-
176 > 102
7.107e+003



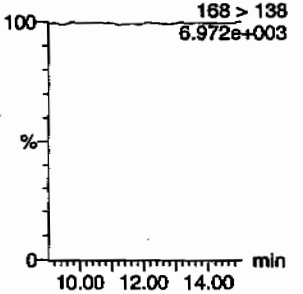
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.963e+003



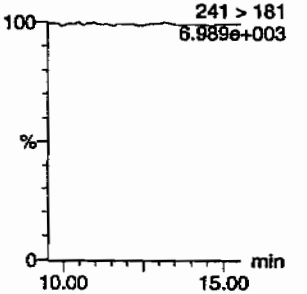
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.709e+004



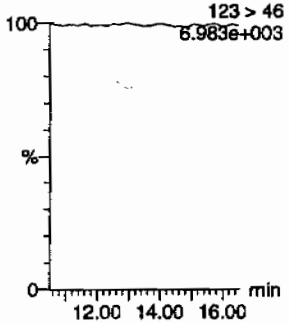
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.972e+003



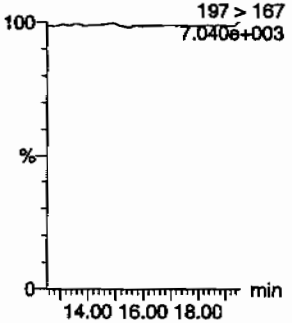
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.989e+003



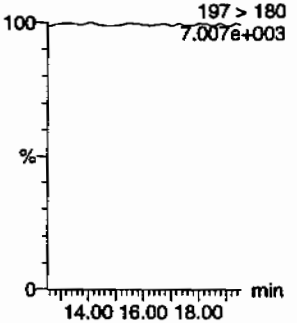
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.983e+003



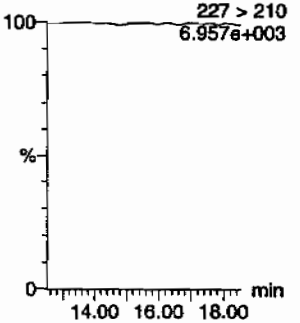
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
7.040e+003



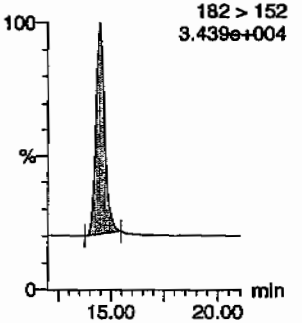
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
7.007e+003



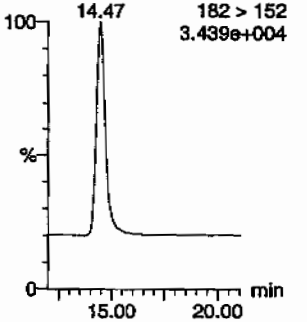
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.957e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
3.439e+004



26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.47
182 > 152
3.439e+004

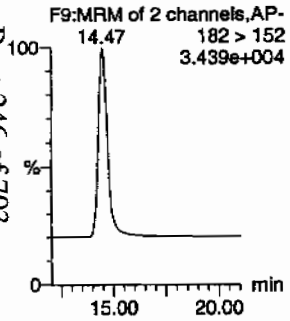


HMM 03/13/10

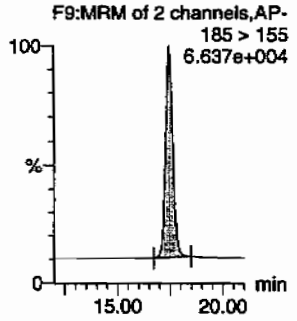
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

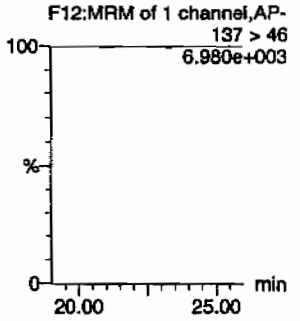
24-dinitrotoluene



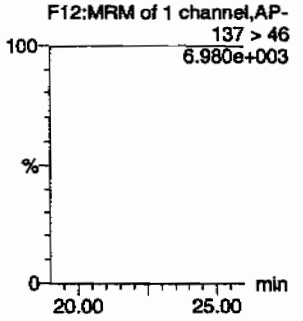
26-dinitrotoluene-d3



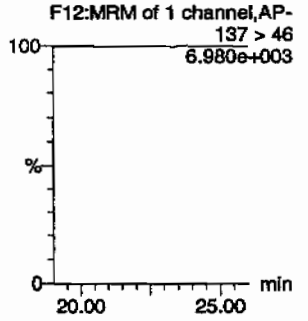
2-Nitrotoluene



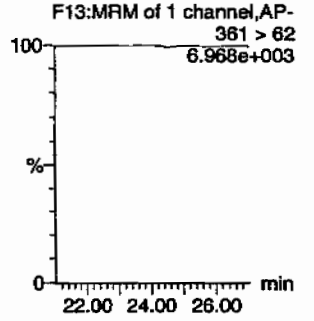
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S/Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
246677006	HMX	176 > 102			4150.276									
246677006	RDX	176 > 102			4150.276									
246677006	135-Trinitrobenzene	213 > 183			4150.276									
246677006	13-Dinitrobenzene-d4	172 > 142	12.10	4150.276		4150.276	4150.276	bb			537.5830	107.5	7.5	171.4
246677006	13-Dinitrobenzene	168 > 138			4150.276									
246677006	Tetryl	241 > 181			4150.276									
246677006	Nitrobenzene	123 > 46			4150.276									
246677006	4-Amino-26-dinitrotoluene	197 > 167			24418.490									
246677006	2-Amino-46-dinitrotoluene	197 > 180			24418.490									
246677006	246-Trinitrotoluene	227 > 210			24418.490									
246677006	34-dinitrotoluene	182 > 152	14.47	12934.715	24418.490	12934.715	264.855	bb			247.7022	99.1	-0.9	442.3
246677006	26-dinitrotoluene	182 > 152			24418.490									
246677006	24-dinitrotoluene	182 > 152			24418.490									
246677006	26-dinitrotoluene-d3	185 > 155	17.47	24418.490		24418.490	24418.490	bb			555.0261	111.0	11.0	1908.7
246677006	2-Nitrotoluene	137 > 46			24418.490									
246677006	4-Nitrotoluene	137 > 46			24418.490									
246677006	3-Nitrotoluene	137 > 46			24418.490									
246677006	PETN	361 > 62			24418.490									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8181

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677006

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260220.wiff

Date Analyzed: 01-MAR-10 00:16

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 =

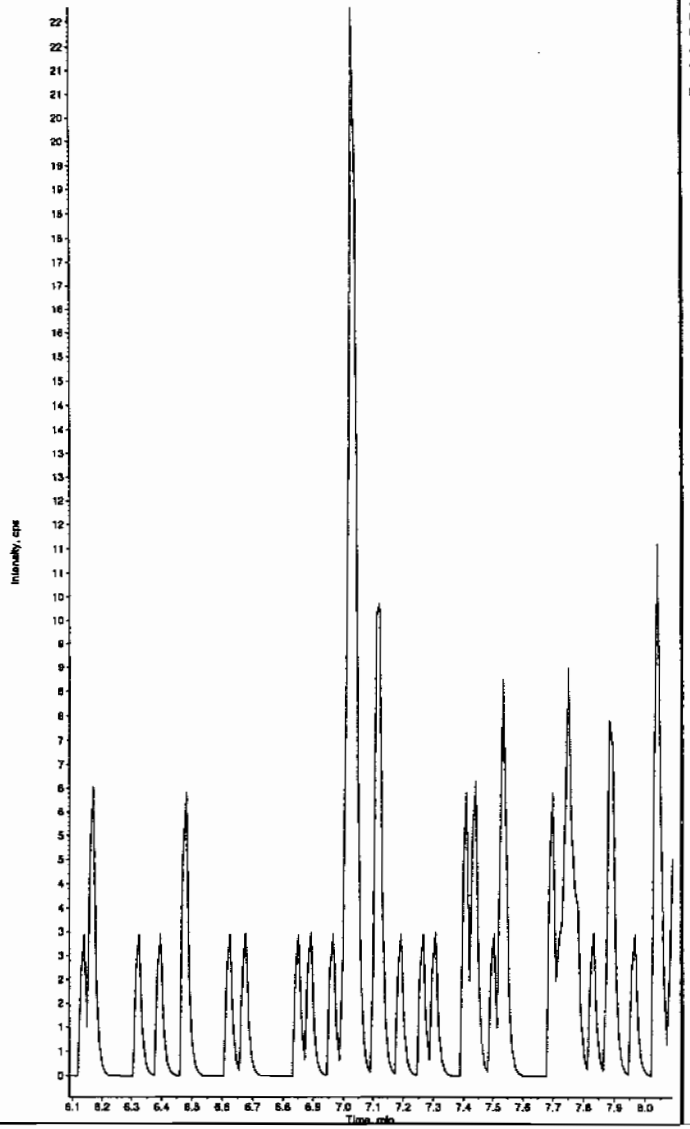
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Olen 3/1/10

Sample Name: "246677006" Sample ID: "952043|2|LER" File: "EXS02260220.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCXB3212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:16:17 AM

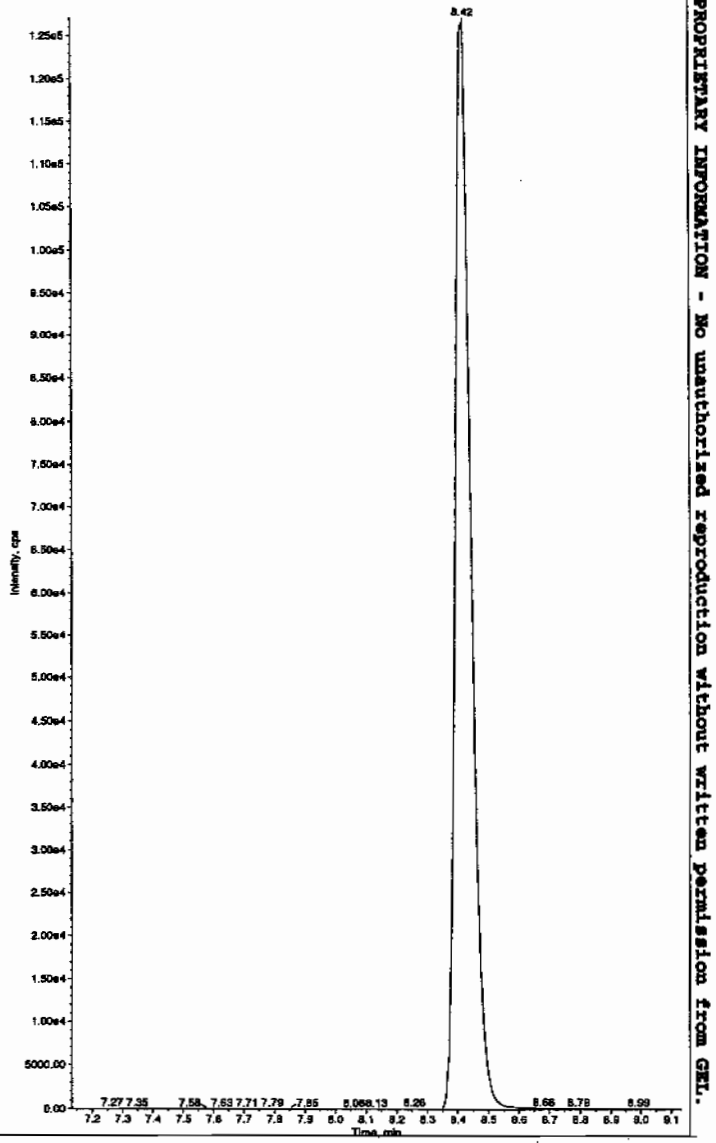
Modified: No



Sample Name: "246677006" Sample ID: "952043|2|LER" File: "EXS02260220.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCXB3212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:16:17 AM

Modified: Yes



Hmm 03/01/10

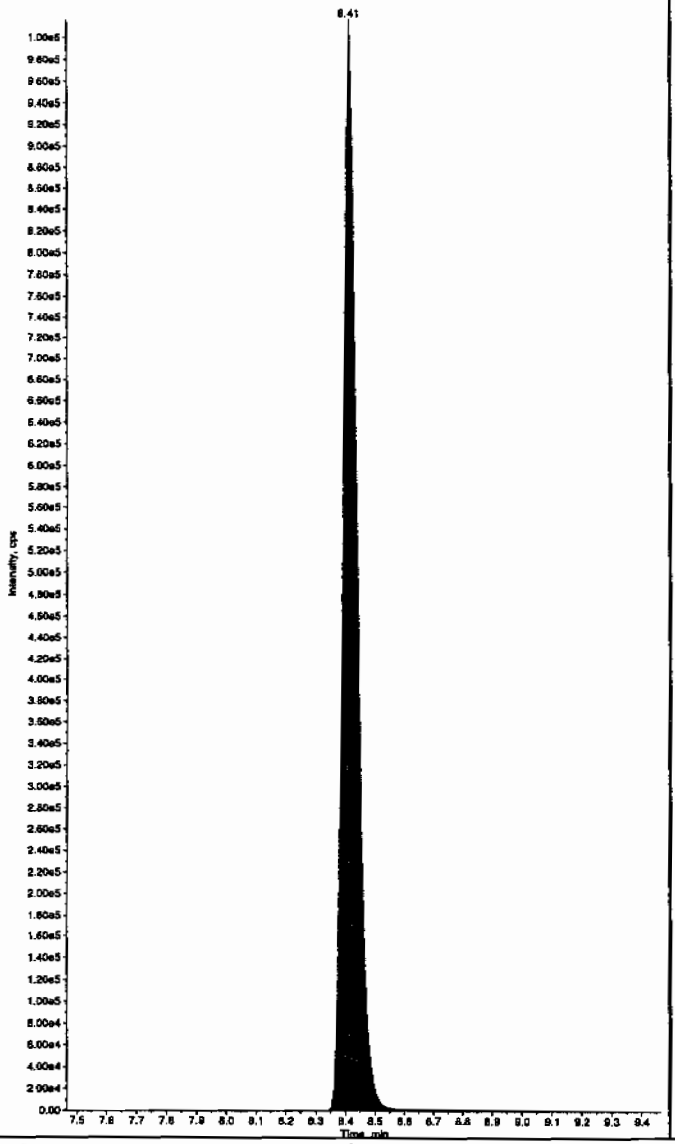
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677006" Sample ID: "952043[2]LER" File: "EXS02260220.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 251. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:16:17 AM

Modified: No
Algorithm: IntelliQuan - IQA
Min. Peak Height: 1460.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

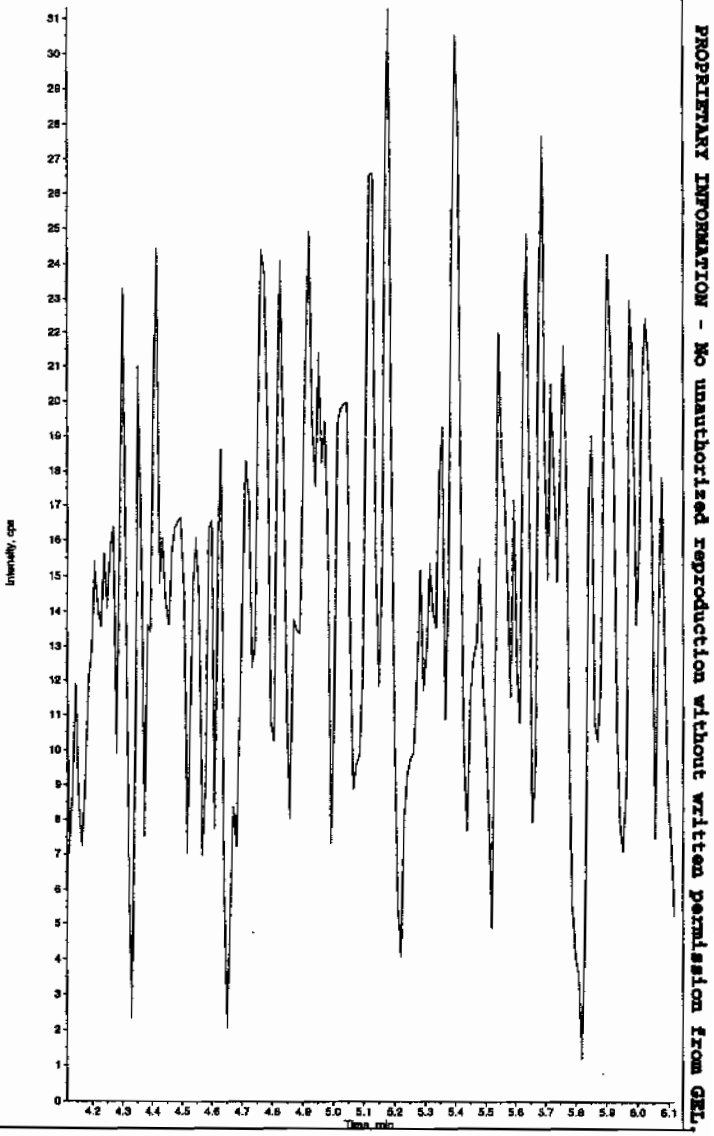
Int. Type: Valley
Retention Time: 8.41 min
Area: 3.46e+006 counts
Height: 1017274.048 cps
Start Time: 8.28 min
End Time: 8.73 min



Sample Name: "246677006" Sample ID: "952043[2]LER" File: "EXS02260220.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:16:17 AM

Modified: No

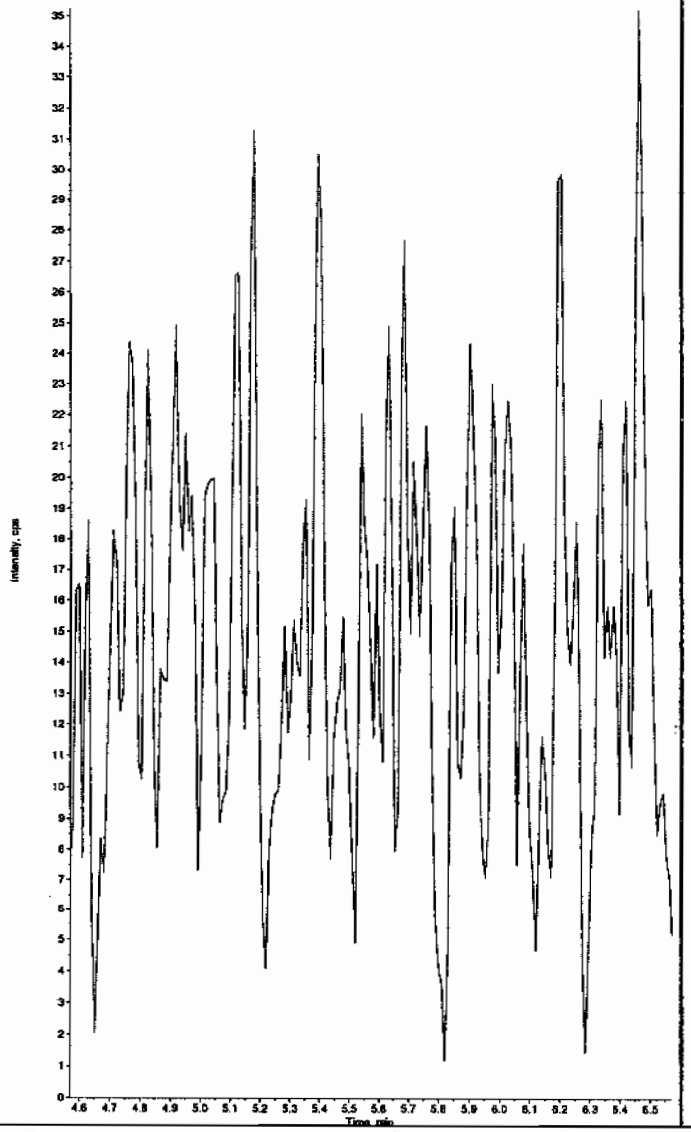


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677006" Sample ID: "952043[2]LER" File: "EXS02260220.wiff"
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: 3/1/2010
Acq. Time: 12:16:17 AM

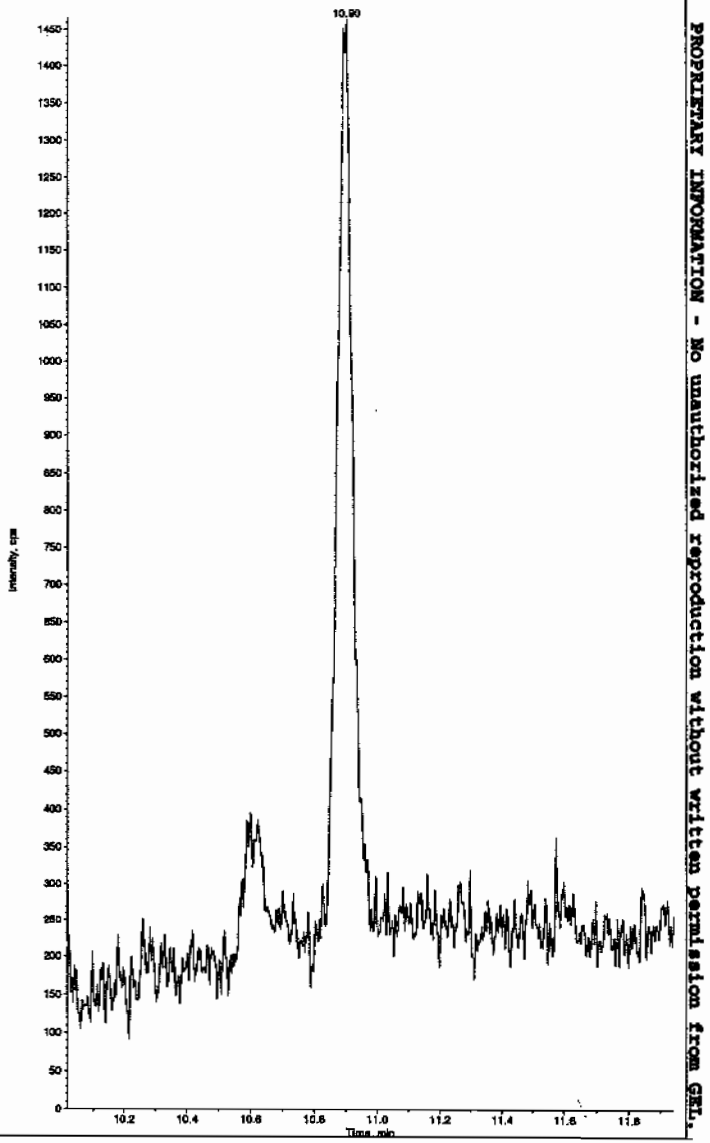
Modified: No



Sample Name: "246677006" Sample ID: "952043[2]LER" File: "EXS02260220.wiff"
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: 3/1/2010
Acq. Time: 12:16:17 AM

Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8182

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677007

Sample Amount 2

Moisture: 2.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312013a

Date Analyzed: 12-MAR-10 21:59

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 =

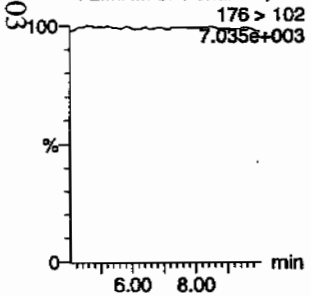
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

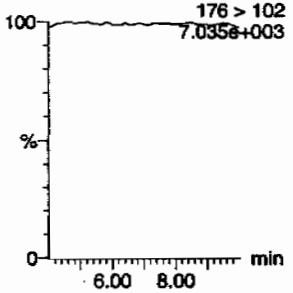
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312013a
Date: 12-Mar-2010
Time: 21:59:53
ID: 246677007 | LANC | 952043 | Soils | 21
Vial: 1:4,A

MAP 3/13/10

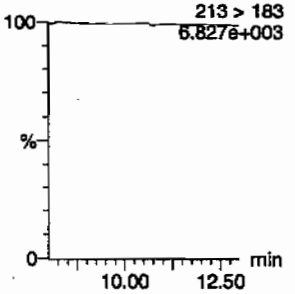
HMX
F2:MRM of 1 channel,AP-
176 > 102
7.035e+003



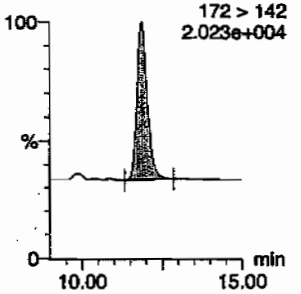
RDX
F2:MRM of 1 channel,AP-
176 > 102
7.035e+003



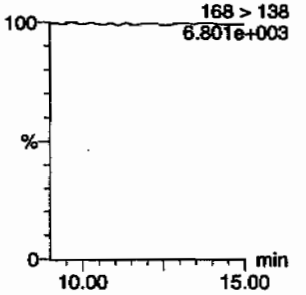
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.827e+003



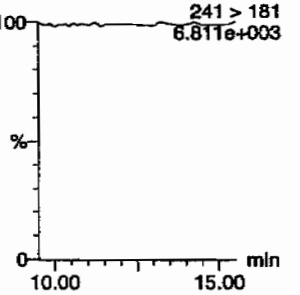
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
2.023e+004



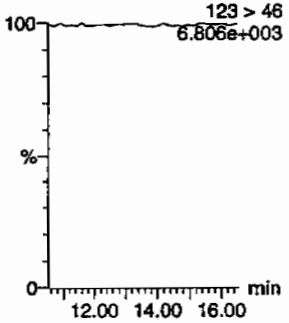
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.801e+003



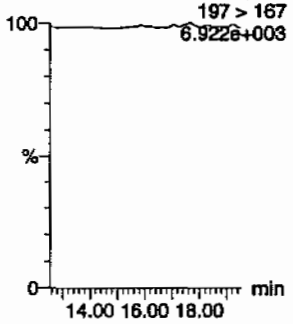
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
6.811e+003



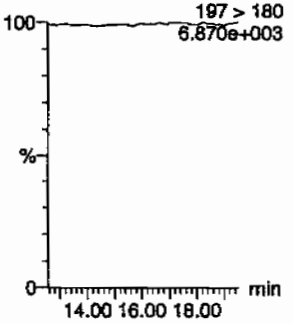
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
6.806e+003



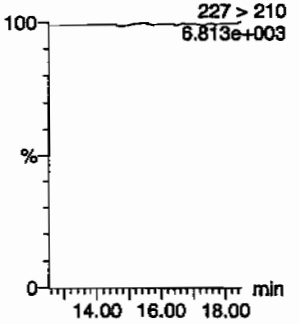
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
6.922e+003



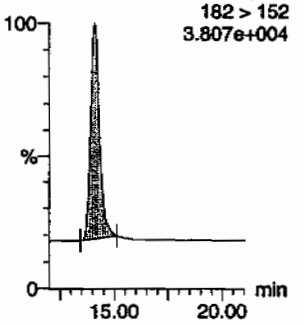
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
6.870e+003



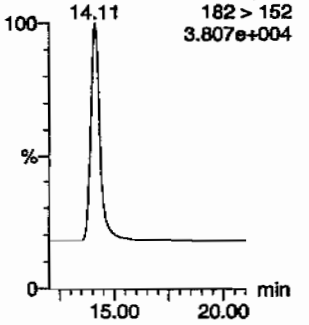
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.813e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
3.807e+004



26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.11
182 > 152
3.807e+004

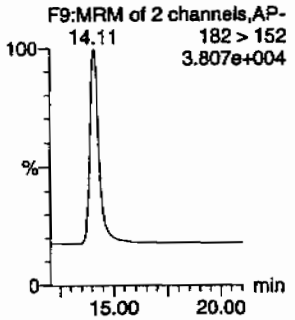


HMK 03/13/10

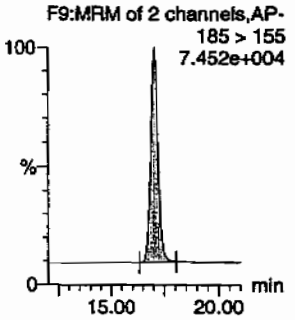
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

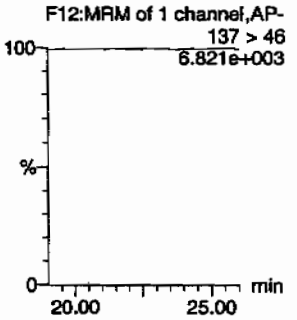
24-dinitrotoluene



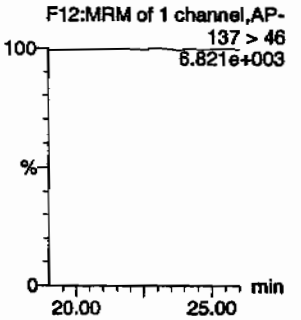
26-dinitrotoluene-d3



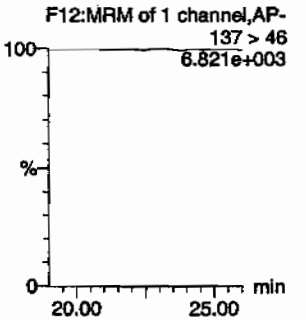
2-Nitrotoluene



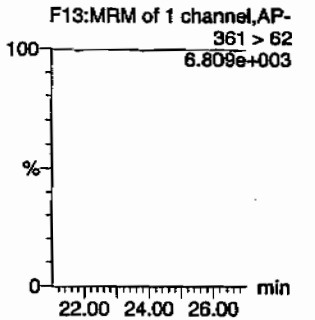
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	nmol	%Rec	%Dev	S/N
246677007	HMX	176 > 102			4983.944									
246677007	RDX	176 > 102			4983.944									
246677007	135-Trinitrobenzene	213 > 183			4983.944									
246677007	13-Dinitrobenzene-d4	172 > 142	11.87	4983.944		4983.944	4983.944	bb			611.2593	122.3	22.3	256.2
246677007	13-Dinitrobenzene	168 > 138			4983.944									
246677007	Tetryl	241 > 181			4983.944									
246677007	Nitrobenzene	123 > 46			4983.944									
246677007	4-Amino-26-dinitrotoluene	197 > 167			27143.250									
246677007	2-Amino-46-dinitrotoluene	197 > 180			27143.250									
246677007	246-Trinitrotoluene	227 > 210			27143.250									
246677007	34-dinitrotoluene	182 > 152	14.11	14539.531	27143.250	14539.531	267.830	bb			262.3068	104.9	4.9	882.2
246677007	26-dinitrotoluene	182 > 152			27143.250									
246677007	24-dinitrotoluene	182 > 152			27143.250									
246677007	26-dinitrotoluene-d3	185 > 155	17.04	27143.250		27143.250	27143.250	bb			595.6217	119.1	19.1	4343.9
246677007	2-Nitrotoluene	137 > 46			27143.250									
246677007	4-Nitrotoluene	137 > 46			27143.250									
246677007	3-Nitrotoluene	137 > 46			27143.250									
246677007	PETN	361 > 62			27143.250									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8182

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677007

Sample Amount 2

Moisture: 2.1

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260221.wiff

Date Analyzed: 01-MAR-10 00:31

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 =

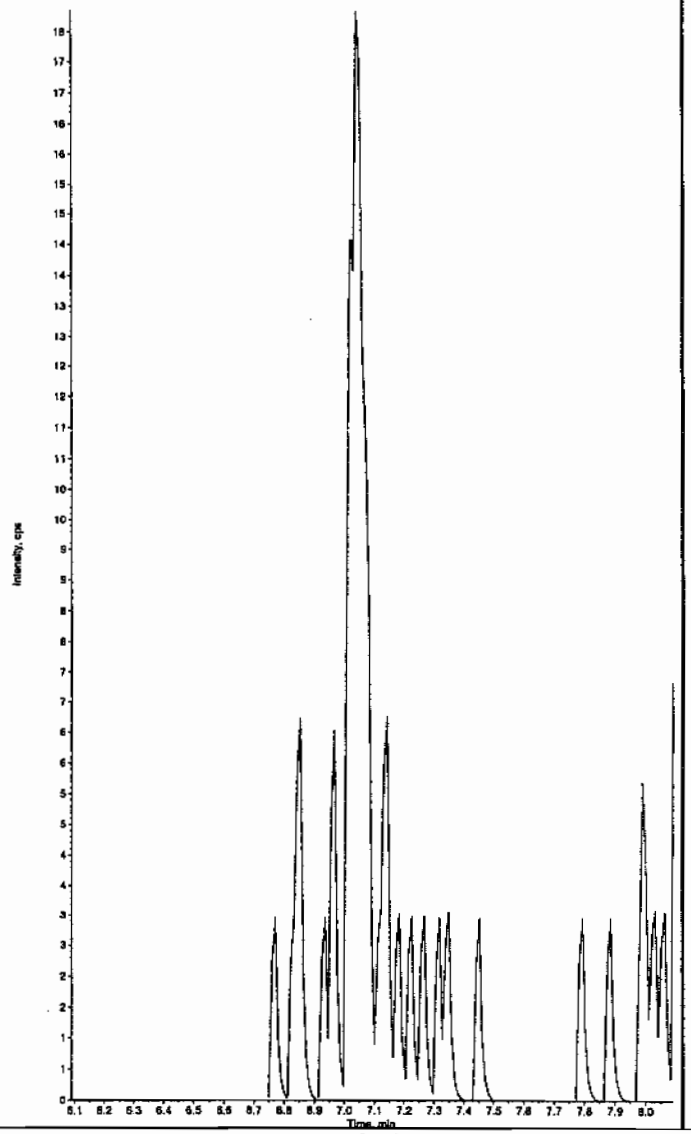
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Sam 3/1/10

Sample Name: "246677007" Sample ID: "952043|2|LER" File: "EXS02260221.wiff"
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: 3/1/2010
Acq. Time: 12:31:57 AM

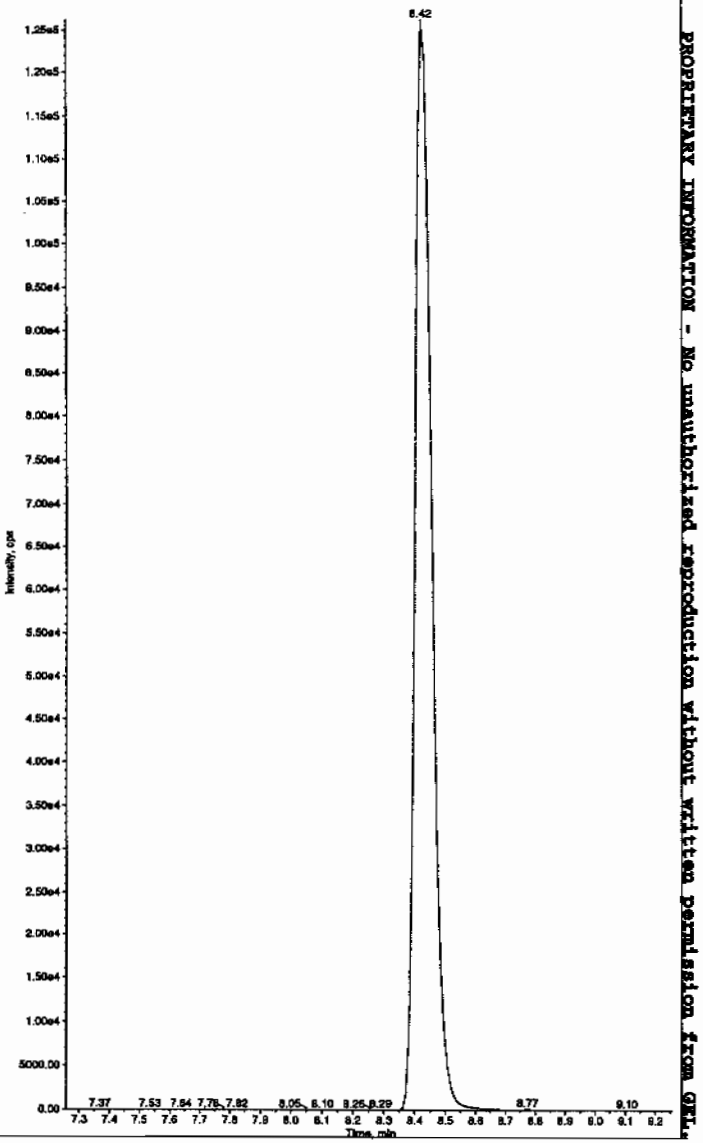
Modified: No



Sample Name: "246677007" Sample ID: "952043|2|LER" File: "EXS02260221.wiff"
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: 3/1/2010
Acq. Time: 12:31:57 AM

Modified: Yes



Hmm 03/01/10

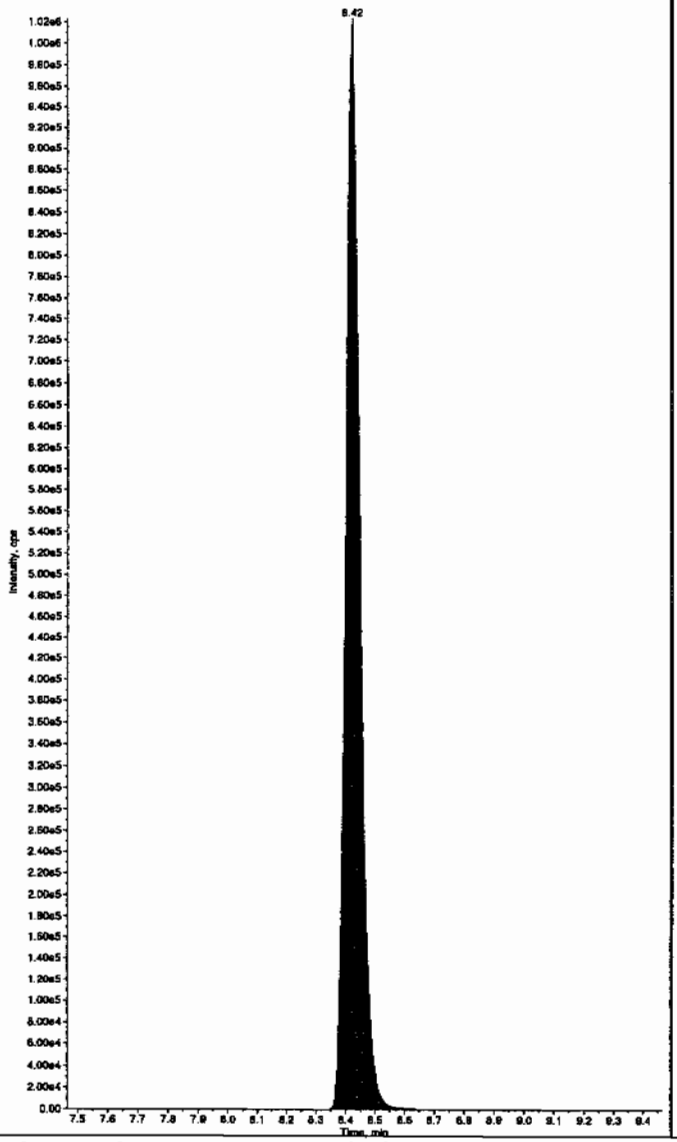
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677007" Sample ID: "952043|2|LER" File: "EXS02260221.wiff"
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: 260. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:31:57 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

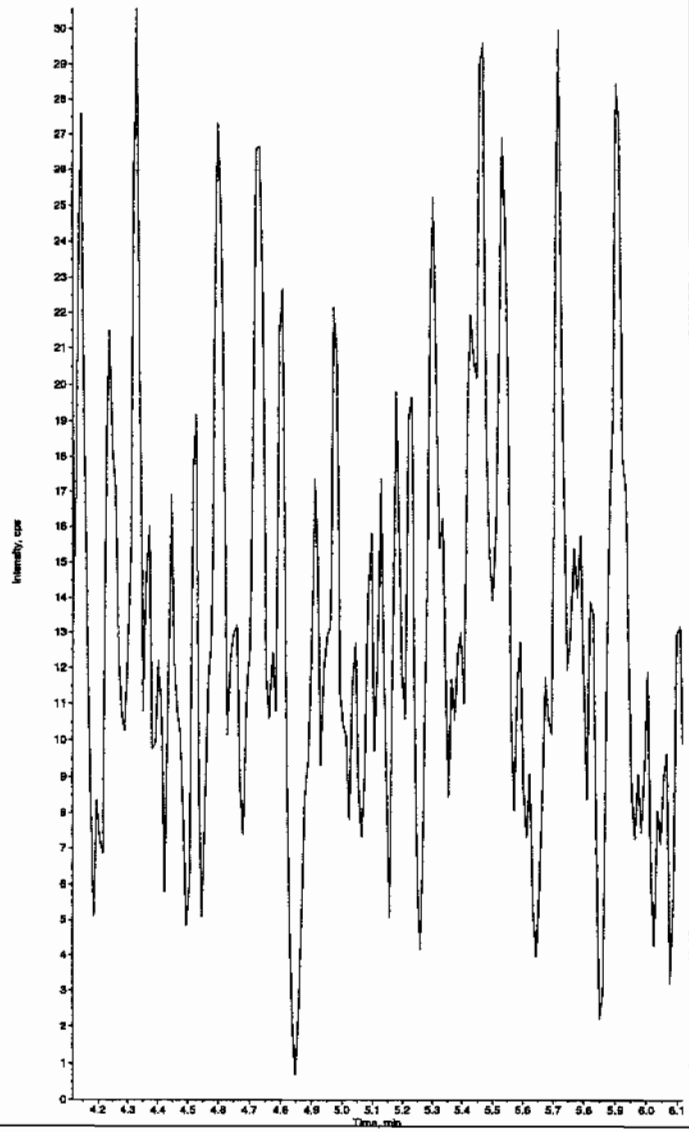
Int. Type: Valley
Retention Time: 8.42 min
Area: 3.57e+006 counts
Height: 1023338.074 cps
Start Time: 8.33 min
End Time: 8.79 min



Sample Name: "246677007" Sample ID: "952043|2|LER" File: "EXS02260221.wiff"
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: 3/1/2010
Acq. Time: 12:31:57 AM

Modified: No

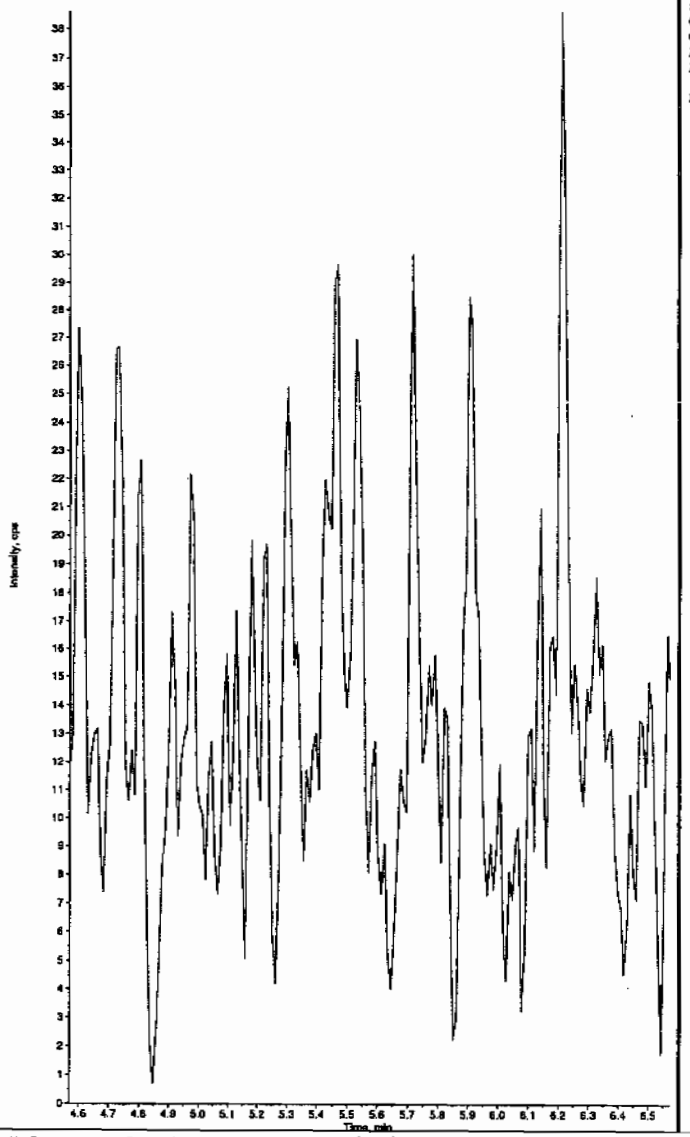


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677007" Sample ID: "952043[2]LER" File: "EXS02260221.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "156.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:31:57 AM

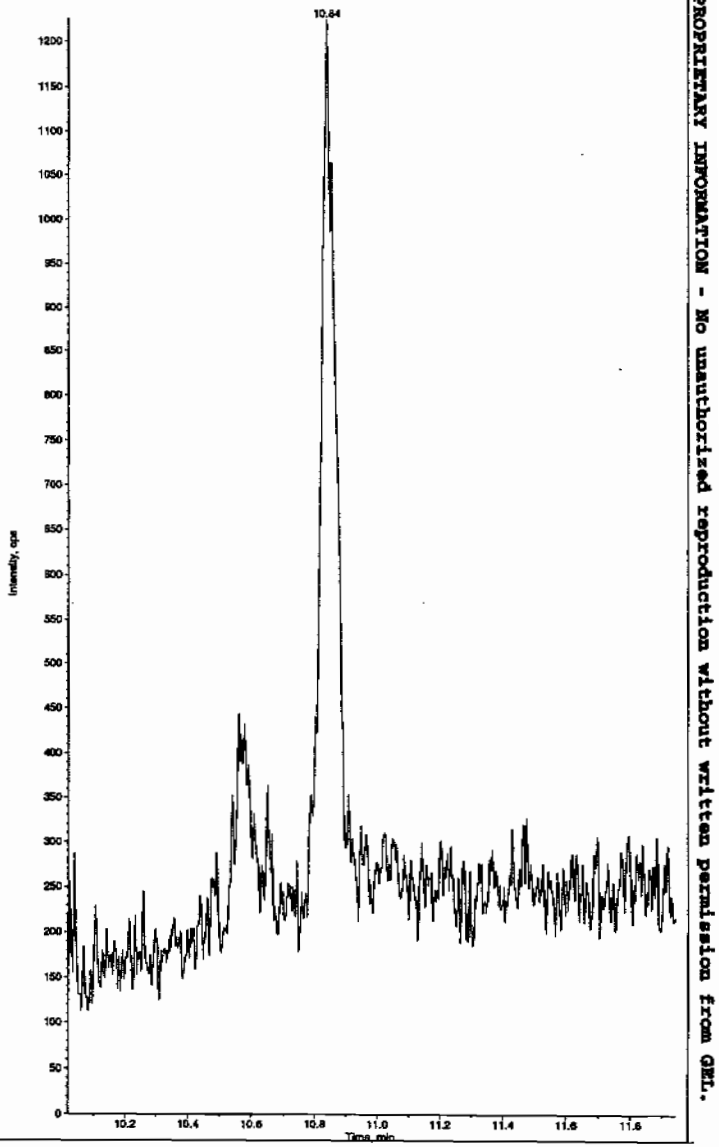
Modified: No



Sample Name: "246677007" Sample ID: "952043[2]LER" File: "EXS02260221.wiff"
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: 3/1/2010
Acq. Time: 12:31:57 AM

Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8210

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677008

Sample Amount 2

Moisture: 6.8

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0312014a

Date Analyzed: 12-MAR-10 22:29

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 =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

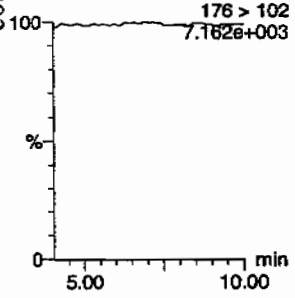
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

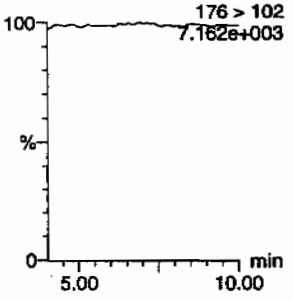
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312014a
Date: 12-Mar-2010
Time: 22:29:23
ID: 246677008 | LANL | 952043 | Soil | 21
Vial: 1:4,B

MTT 3/13/10

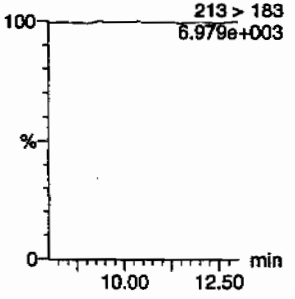
HMX
F2:MRM of 1 channel,AP-
176 > 102
7.162e+003



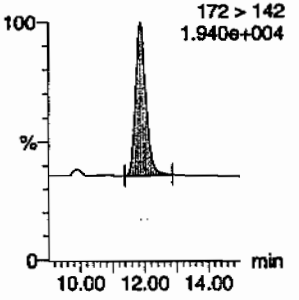
RDX
F2:MRM of 1 channel,AP-
176 > 102
7.162e+003



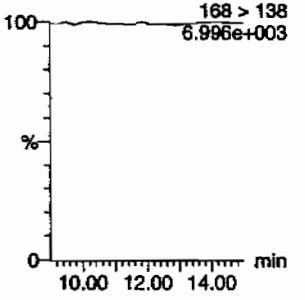
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.979e+003



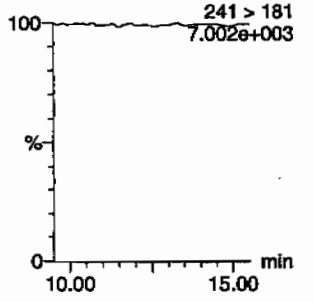
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.940e+004



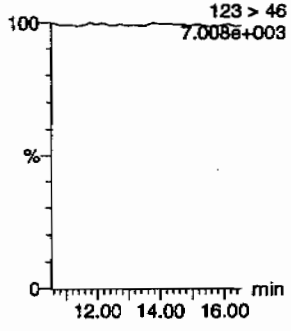
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
6.996e+003



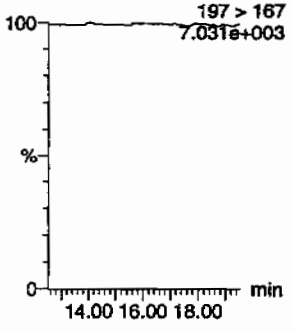
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
7.002e+003



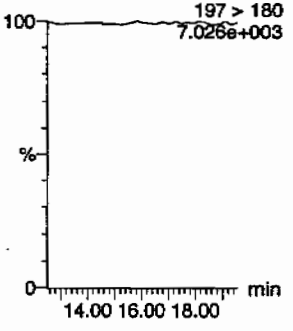
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
7.008e+003



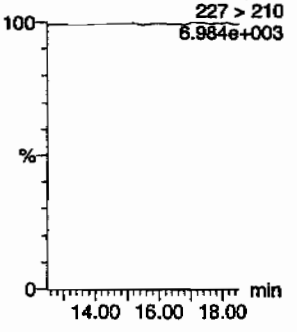
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
7.031e+003



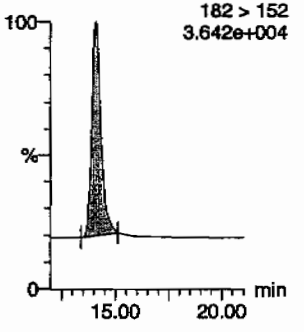
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
7.026e+003



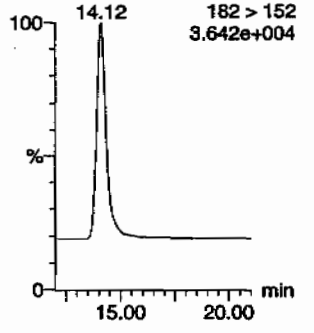
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
6.984e+003



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
3.642e+004



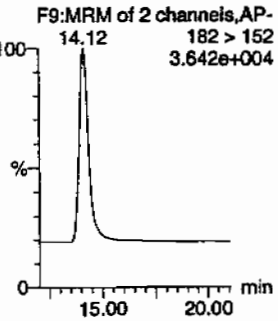
26-dinitrotoluene
F9:MRM of 2 channels,AP-
14.12
182 > 152
3.642e+004



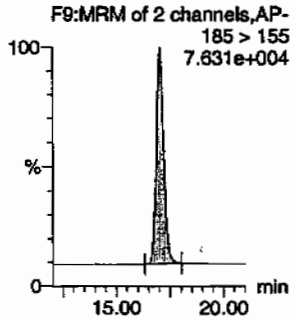
HMM 03/13/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

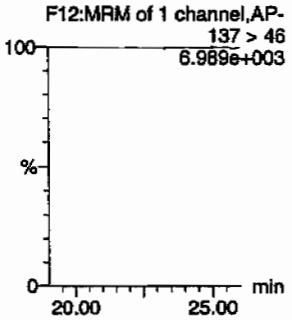
24-dinitrotoluene



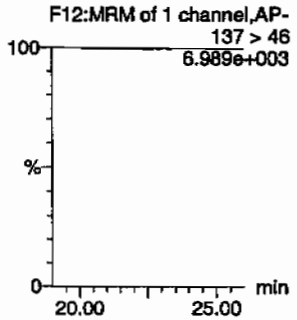
26-dinitrotoluene-d3



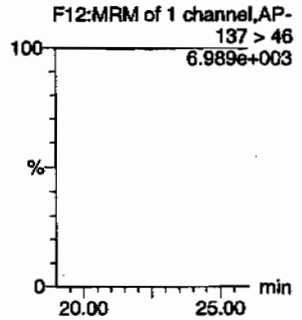
2-Nitrotoluene



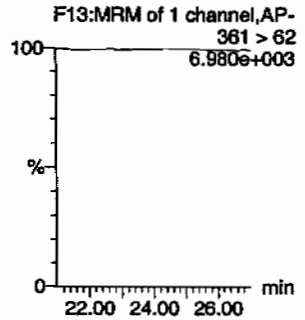
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	RTArea	ISArea	IAbs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
246677008	HMX	176 > 102			4634.151									
246677008	RDX	176 > 102			4634.151									
246677008	135-Trinitrobenzene	213 > 183			4634.151									
246677008	13-Dinitrobenzene-d4	172 > 142	11.87	4634.151		4634.151	4634.151	bb			568.3587	113.7	13.7	317.3
246677008	13-Dinitrobenzene	168 > 138			4634.151									
246677008	Tetryl	241 > 181			4634.151									
246677008	Nitrobenzene	123 > 46			4634.151									
246677008	4-Amino-26-dinitrotoluene	197 > 167			27870.033									
246677008	2-Amino-46-dinitrotoluene	197 > 180			27870.033									
246677008	246-Trinitrotoluene	227 > 210			27870.033									
246677008	34-dinitrotoluene	182 > 152	14.12	14289.295	27870.033	14289.295	256.356	bb			251.0697	100.4	0.4	692.9
246677008	26-dinitrotoluene	182 > 152			27870.033									
246677008	24-dinitrotoluene	182 > 152			27870.033									
246677008	26-dinitrotoluene-d3	185 > 155	17.05	27870.033		27870.033	27870.033	bb			611.5699	122.3	22.3	2043.7
246677008	2-Nitrotoluene	137 > 46			27870.033									
246677008	4-Nitrotoluene	137 > 46			27870.033									
246677008	3-Nitrotoluene	137 > 46			27870.033									
246677008	PETN	361 > 62			27870.033									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8210

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 246677008

Sample Amount 2

Moisture: 6.8

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02260222.wiff

Date Analyzed: 01-MAR-10 00:47

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

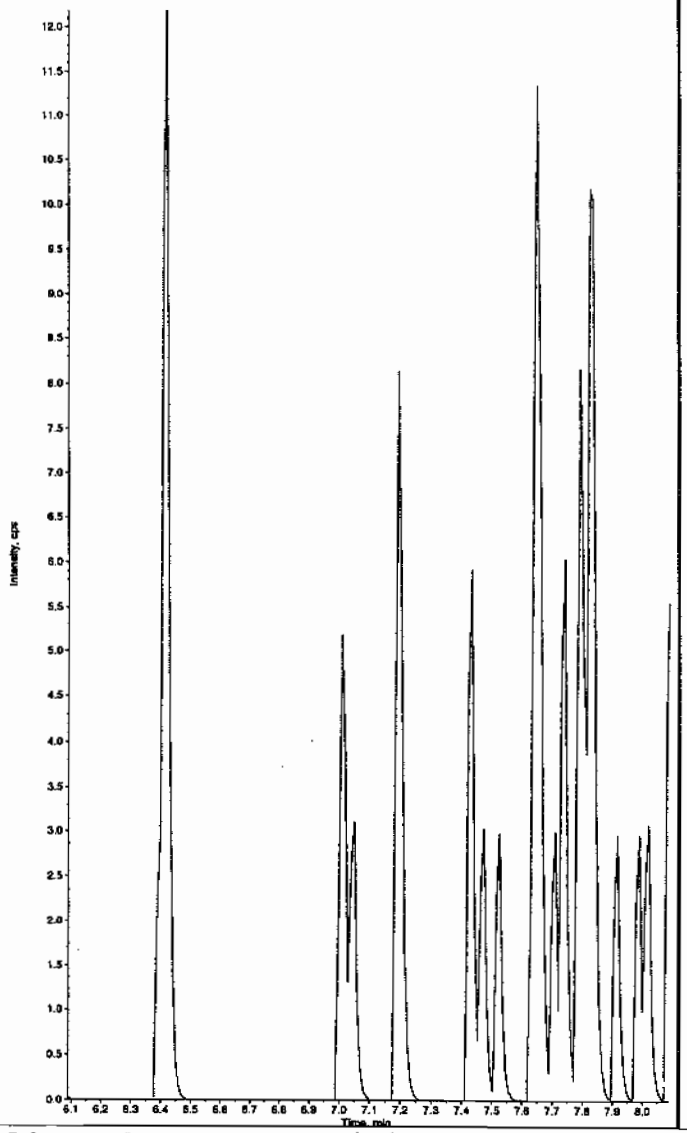
*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Lcu 3/1/10

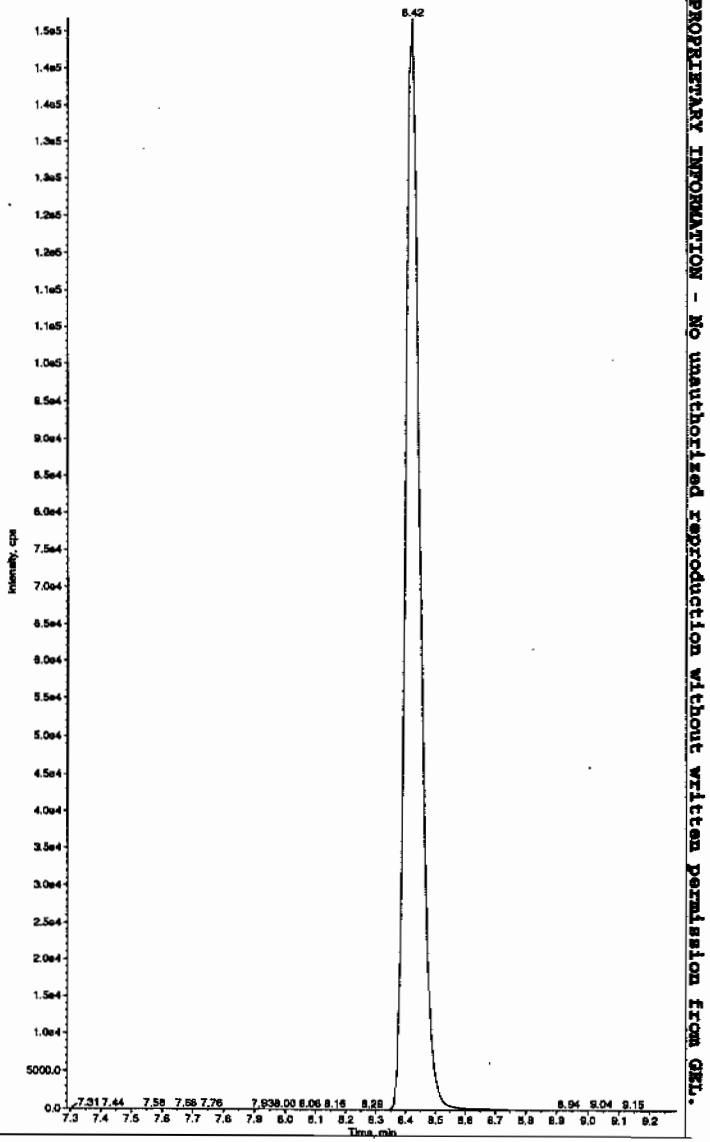
Sample Name: "246677006" Sample ID: "952043|2|LER" File: "EXS02260222.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:47:39 AM

Modified: No



Sample Name: "246677006" Sample ID: "952043|2|LER" File: "EXS02260222.wiff"
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: 3/1/2010
Acq. Time: 12:47:39 AM

Modified: Yes



HMW 03/01/10

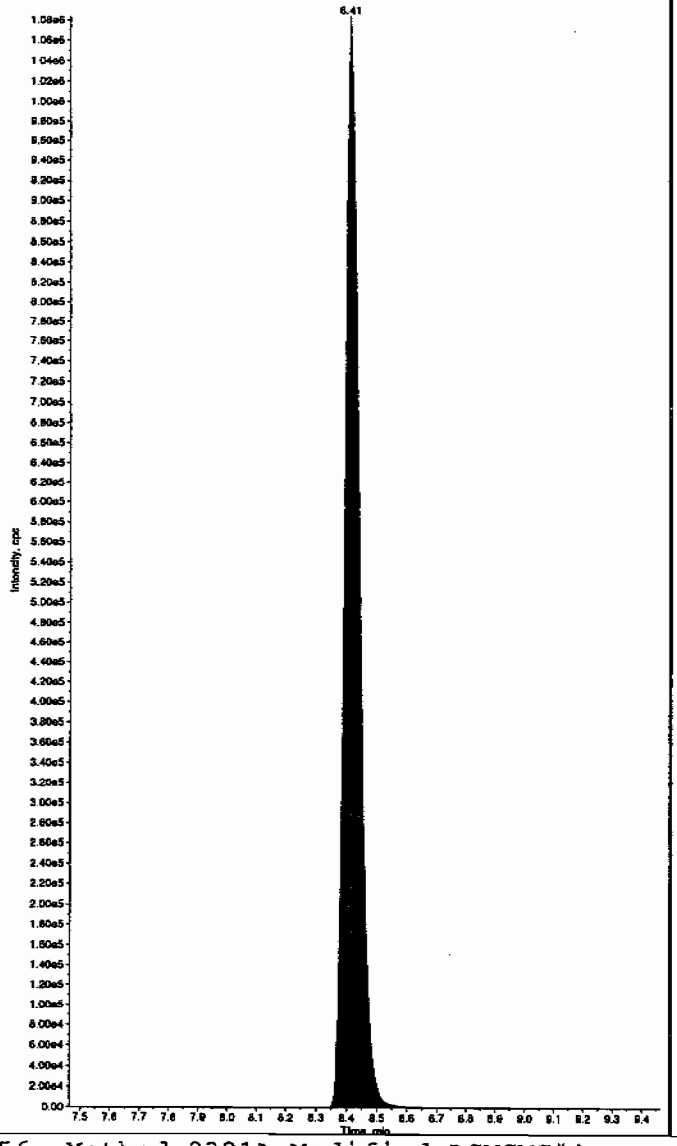
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677006" Sample ID: "952043|2|LER" File: "EXS02260222.wiff"
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: 270. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:47:39 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

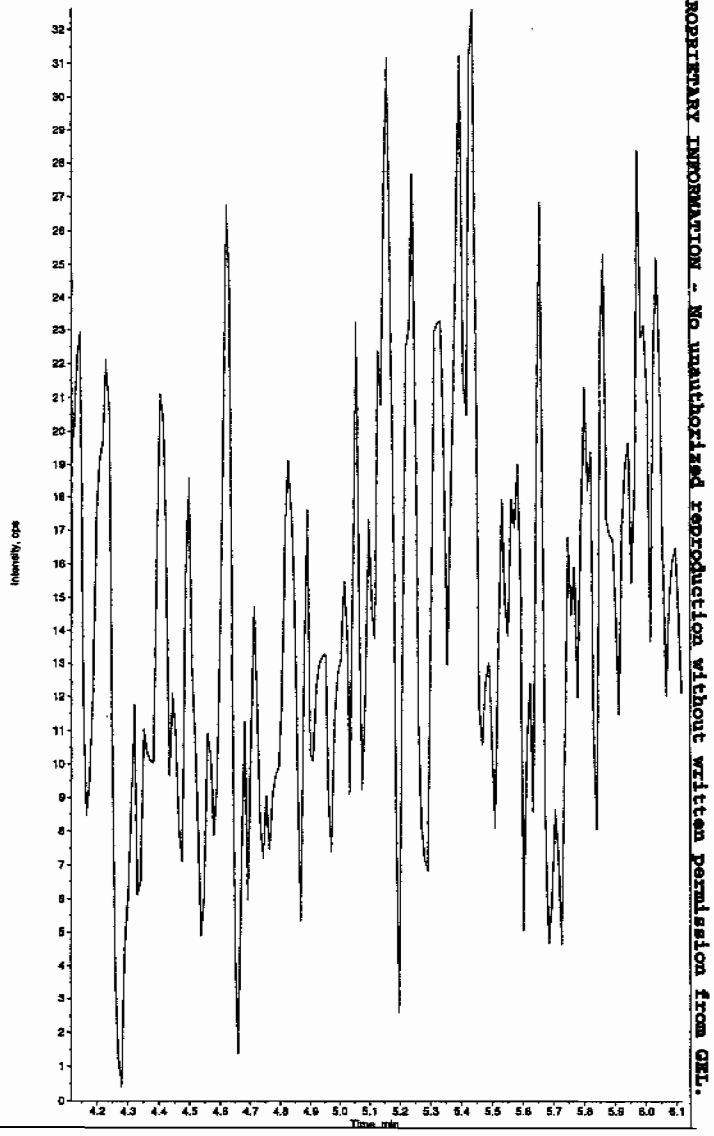
Int. Type: Valley
Retention Time: 8.41 min
Area: 3.69e+006 counts
Height: 1084036.255 cps
Start Time: 8.30 min
End Time: 8.77 min



Sample Name: "246677006" Sample ID: "952043|2|LER" File: "EXS02260222.wiff"
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: 3/1/2010
Acq. Time: 12:47:39 AM

Modified: No

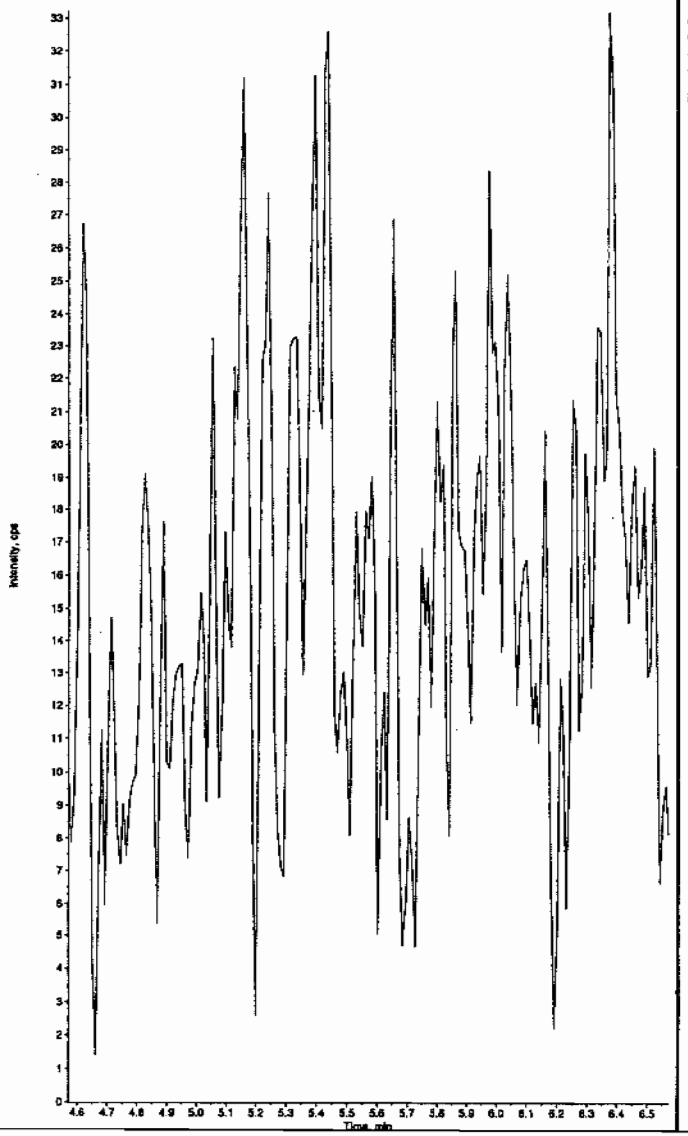


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "246677008" Sample ID: "952043|2|LER" File: "EXS02260222.wiff"
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: 3/1/2010
Acq. Time: 12:47:39 AM

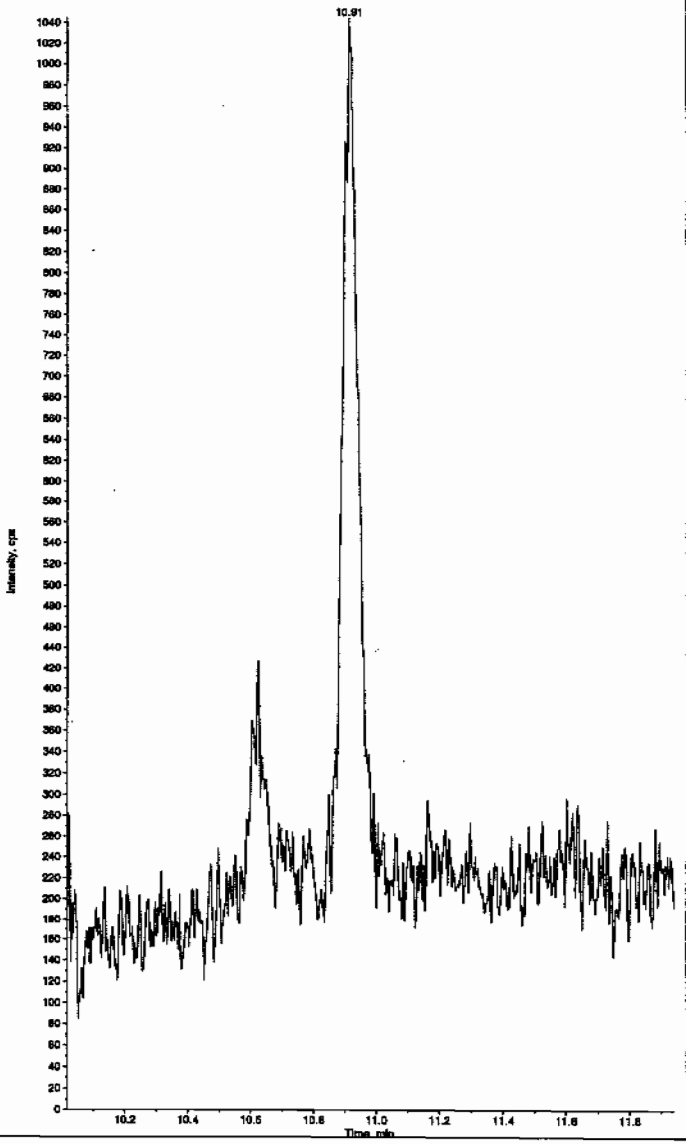
Modified: No



Sample Name: "246677008" Sample ID: "952043|2|LER" File: "EXS02260222.wiff"
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: 3/1/2010
Acq. Time: 12:47:39 AM

Modified: No



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

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
MNX	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)

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1703

Lab Code: GEL

Run Date: 01-MAR-10,11-MAR-10,12-MAR-10,26-FEB-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Calibration Level:	1	2	3	4	5	6	Ave RF	RSD	Q
Data File:	EXP0311003a	EXP0311004a	EXP0311005a	EXP0311006a	EXP0311007a	EXP0311008a			
Parmname									
1,3,5-Trinitrobenzene	3.07	3.11	3.611	3.655	3.747	3.512	3.451	8.397	
1,3-Dinitrobenzene-d4	7.473	8.483	7.267	7.489	7.557	8.053	7.720	5.906	
2,4,6-Trinitrotoluene	.317	.35	.369	.375	.387	.383	0.364	7.27	
2,4-Dinitrotoluene	.259	.22	.271	.287	.258	.261	0.259	8.523	
2,6-Dinitrotoluene	1.203	1.179	1.139	1.174	1.165	1.159	1.170	1.831	
2,6-Dinitrotoluene-d3	44.257	44.831	41.892	43.054	43.974	45.964	43.995	3.207	
2-Amino-4,6-dinitrotoluene	.408	.389	.446	.448	.462	.47	0.437	7.234	
3,4-Dinitrotoluene	1.086	1.022	1.033	1.121	1.057	1.097	1.069	3.628	
4-Amino-2,6-dinitrotoluene	.327	.265	.323	.327	.334	.316	0.315	8.115	
HMX	3.799	3.616	4.194	4.07	4.264	4.082	4.004	6.188	
Nitrobenzene	.668	.74	.734	.753	.768	.712	0.729	4.868	
PETN	.755	.721	.81	.626	.58	.531	0.671	16.196	
RDX	2.83	2.391	2.777	2.78	2.924	2.806	2.751	6.713	
Tetryl	.847	.878	.878	.948	.891	.84	0.880	4.363	
m-Dinitrobenzene	1.478	1.244	1.301	1.257	1.277	1.283	1.307	6.614	
m-Nitrotoluene	.087	.084	.085	.083	.085	.082	0.084	2.246	
o-Nitrotoluene	.141	.121	.137	.142	.139	.133	0.136	5.915	
p-Nitrotoluene	.077	.059	.069	.066	.068	.064	0.067	8.766	

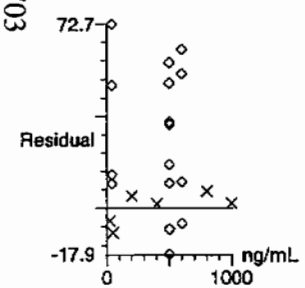
Q column used to flag RSD values outside of Limit (>20%)
* Values outside of QC Limit

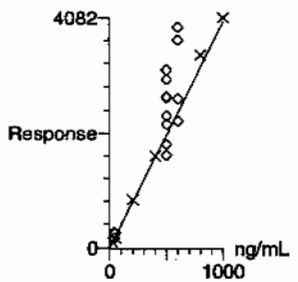
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\031110expa.mdb, Time: Fri Mar 12 10:24:20 2010
Calibration: Untitled, Time: Fri Mar 12 13:25:17 2010

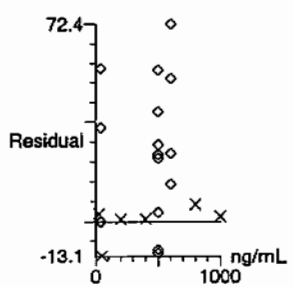
Compound name: HMX
Response Factor: 4.00393
RRF SD: 0.247767, % Relative SD: 6.18809
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

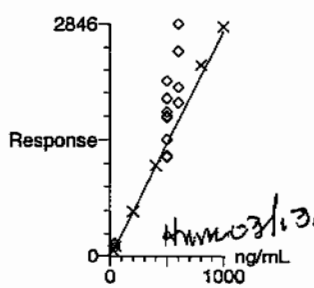




MMT
3/12/10

Compound name: RDX
Response Factor: 2.75118
RRF SD: 0.184679, % Relative SD: 6.71272
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



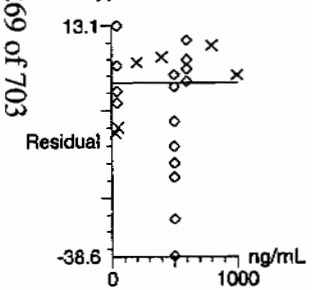


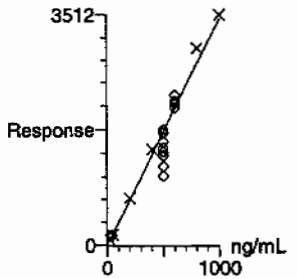
HMM 03/13/10

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

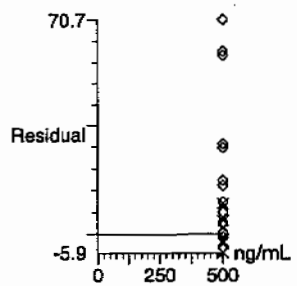
Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

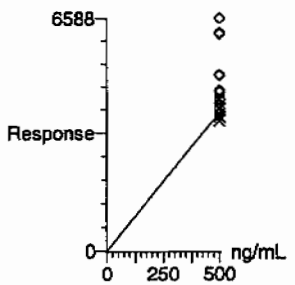
Compound name: 135-Trinitrobenzene
Response Factor: 3.45079
RRF SD: 0.28975, % Relative SD: 8.39663
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF





Compound name: 13-Dinitrobenzene-d4
Response Factor: 7.72025
RRF SD: 0.45594, % Relative SD: 5.90577
Response type: External Std, Area
Curve type: RF

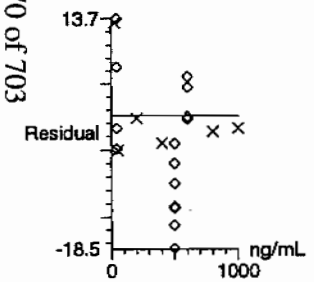


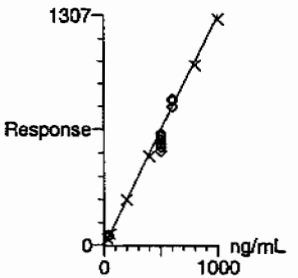


Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

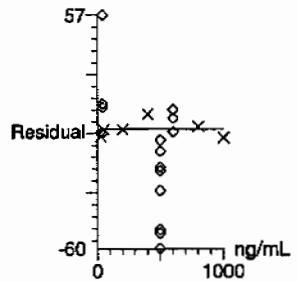
Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

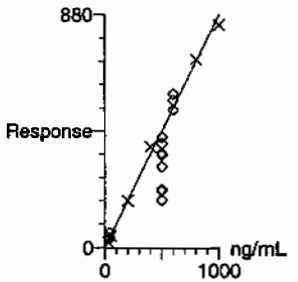
Compound name: 13-Dinitrobenzene
Response Factor: 1.30659
RRF SD: 0.0864131, % Relative SD: 6.61362
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF





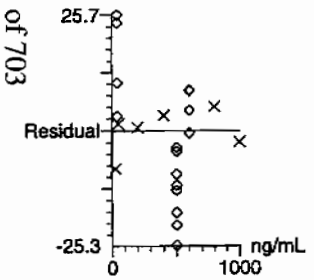
Compound name: Tetryl
Response Factor: 0.880286
RRF SD: 0.0384033, % Relative SD: 4.3626
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

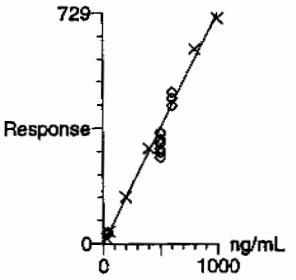




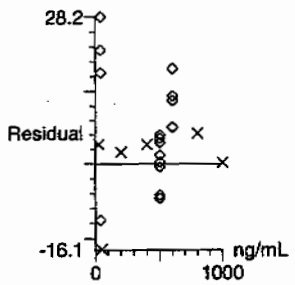
Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

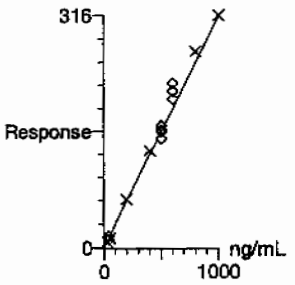
Compound name: Nitrobenzene
Response Factor: 0.729207
RRF SD: 0.0355003, % Relative SD: 4.86834
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF





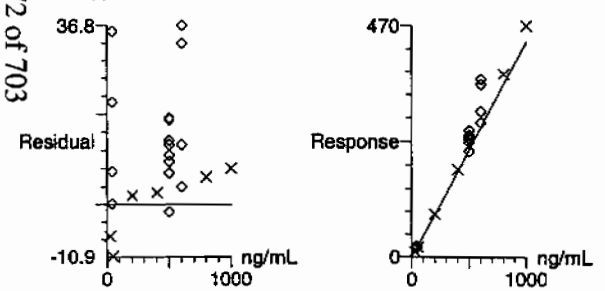
Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.31543
RRF SD: 0.0255967, % Relative SD: 8.11486
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



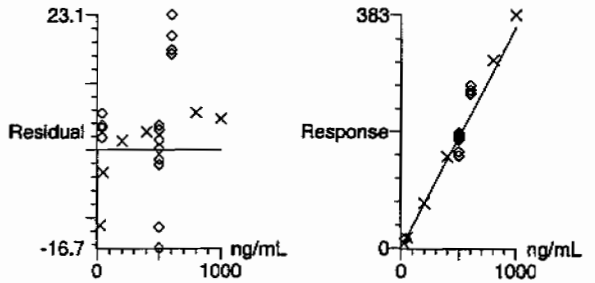


Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.437294
RRF SD: 0.0316324, % Relative SD: 7.23366
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

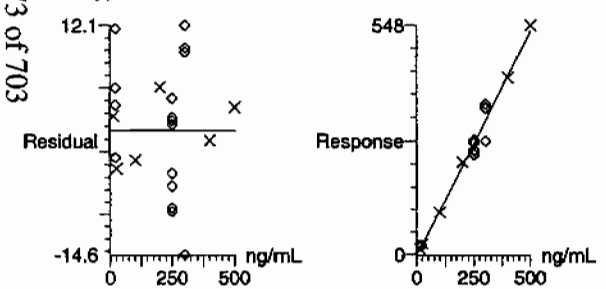


Compound name: 246-Trinitrotoluene
Response Factor: 0.363592
RRF SD: 0.0264349, % Relative SD: 7.27048
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

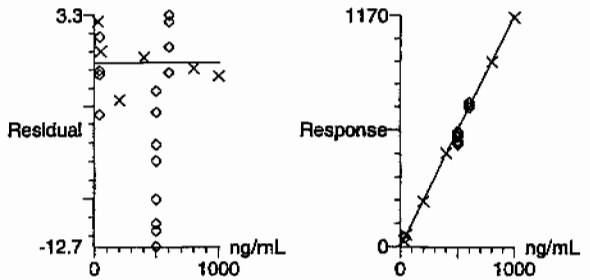


Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Compound name: 34-dinitrotoluene
Response Factor: 1.06925
RRF SD: 0.0387963, % Relative SD: 3.62837
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

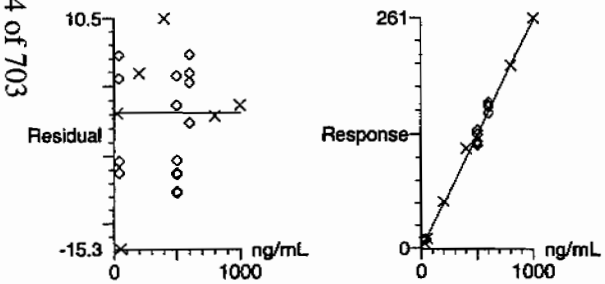


Compound name: 26-dinitrotoluene
Response Factor: 1.16997
RRF SD: 0.0214178, % Relative SD: 1.83063
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

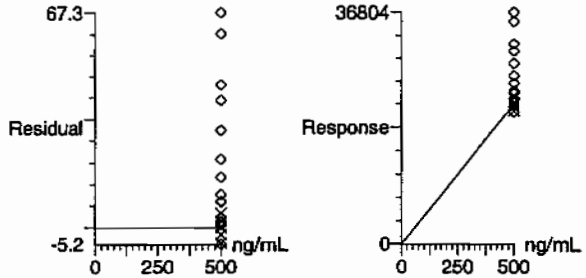


Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.259355
RRF SD: 0.0221048, % Relative SD: 8.52301
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

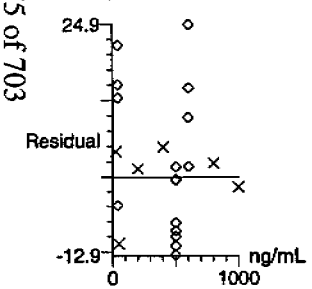


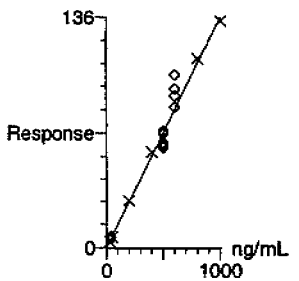
Compound name: 26-dinitrotoluene-d3
Response Factor: 43.9952
RRF SD: 1.41095, % Relative SD: 3.20705
Response type: External Std, Area
Curve type: RF



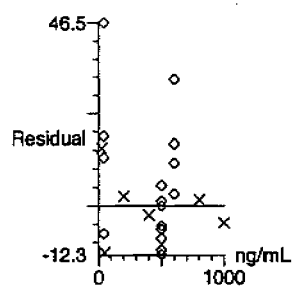
Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

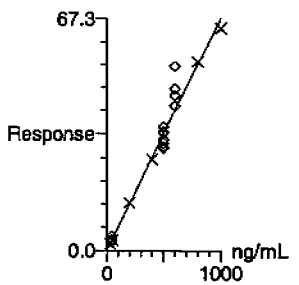
Compound name: 2-Nitrotoluene
Response Factor: 0.135573
RRF SD: 0.0080196, % Relative SD: 5.91531
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF





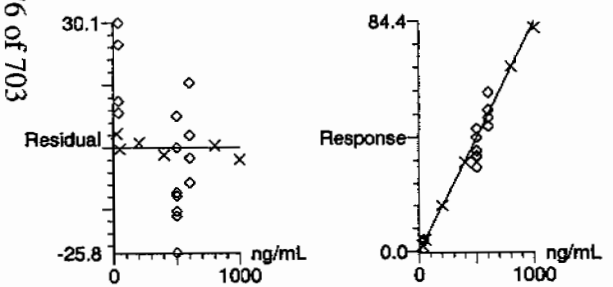
Compound name: 4-Nitrotoluene
Response Factor: 0.0672845
RRF SD: 0.00589796, % Relative SD: 8.7657
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



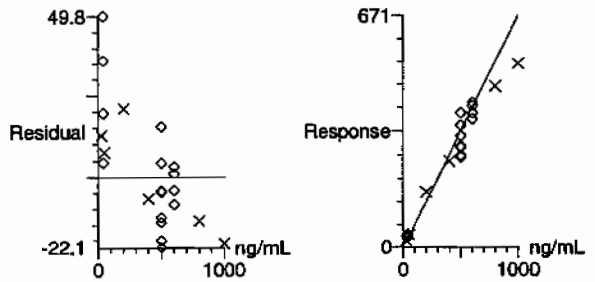


Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0844455
RRF SD: 0.00189664, % Relative SD: 2.246
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Response Factor: 0.67057
RRF SD: 0.108603, % Relative SD: 16.1957
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0311010a

Analysis Date: 11-MAR-10 15:06

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	600	622.404	104	
3,4-Dinitrotoluene	300	328.473	109	
4-Amino-2,6-dinitrotoluene	600	674.155	112	
HMX	600	661.455	110	
Nitrobenzene	600	653.771	109	
PETN	600	607.657	101	
RDX	600	748.938	125	*
Tetryl	600	633.133	106	
m-Dinitrobenzene	600	623.844	104	
m-Nitrotoluene	600	585.212	98	
o-Nitrotoluene	600	610.349	102	
p-Nitrotoluene	600	617.67	103	
1,3,5-Trinitrobenzene	600	658.697	110	
1,3-Dinitrobenzene-d4	500	501.006	100	
2,4,6-Trinitrotoluene	600	738.695	123	*
2,4-Dinitrotoluene	600	638.328	106	
2,6-Dinitrotoluene	600	616.904	103	
2,6-Dinitrotoluene-d3	500	474.141	95	

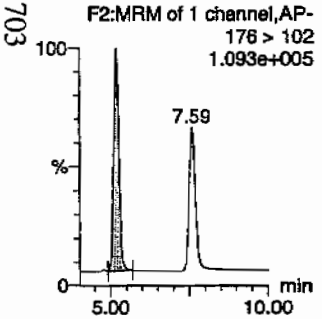
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

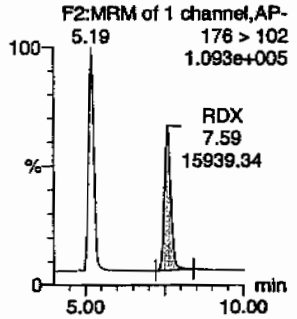
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311010a
Date: 11-Mar-2010
Time: 15:06:30
ID: WXX100311-07ICV
Vial: 1:1,B

MMT 3/12/10

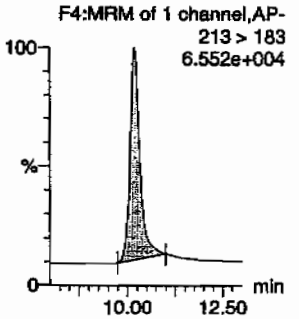
HMX



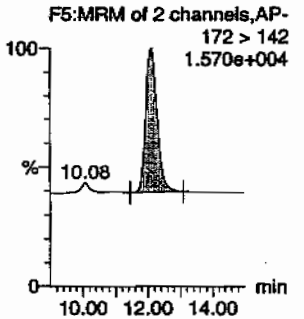
RDX



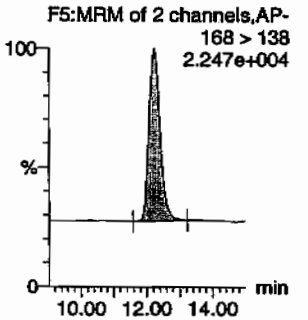
135-Trinitrobenzene



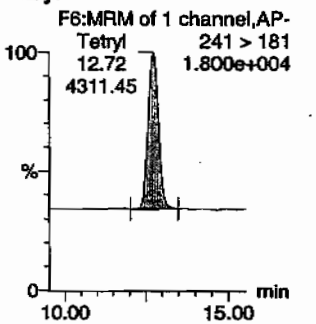
13-Dinitrobenzene-d4



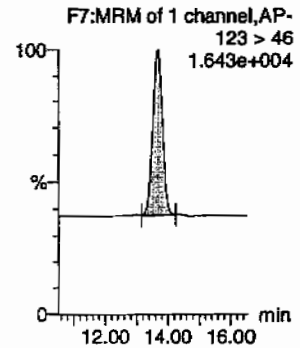
13-Dinitrobenzene



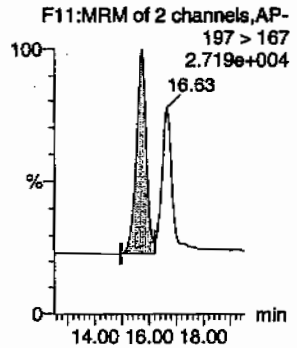
Tetryl



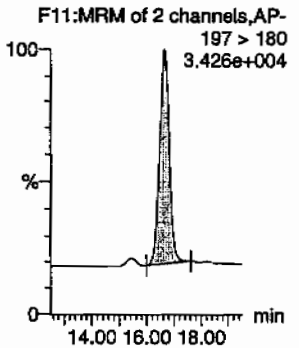
Nitrobenzene



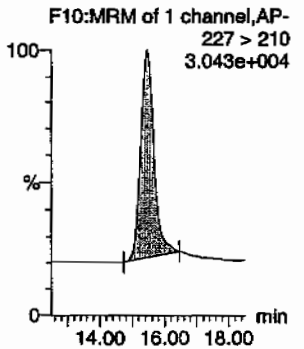
4-Amino-26-dinitrotoluene



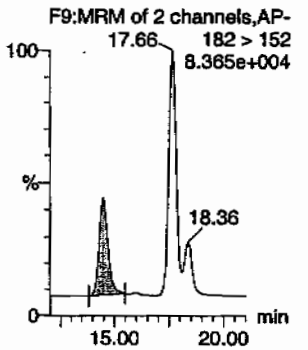
2-Amino-46-dinitrotoluene



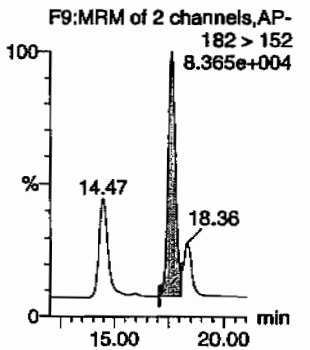
246-Trinitrotoluene



34-dinitrotoluene



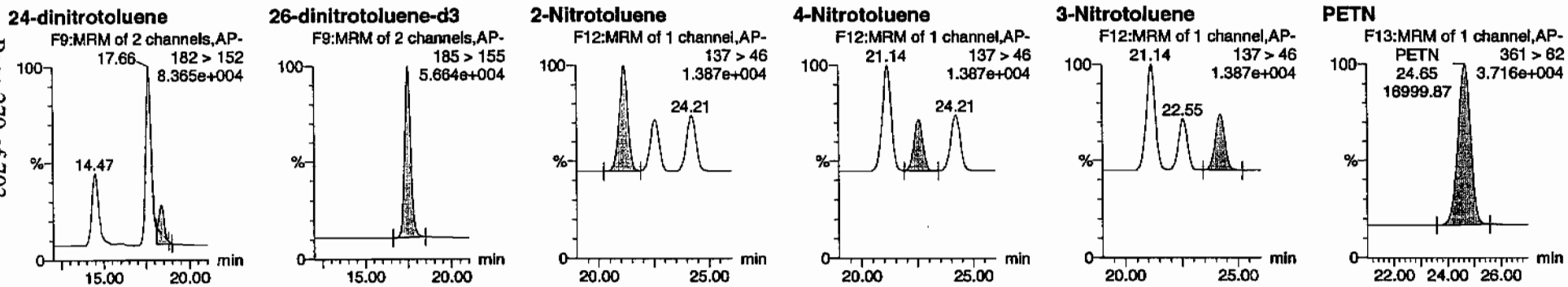
26-dinitrotoluene



MMC 03/13/10

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qid, Time: Fri Mar 12 13:28:30 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
WXX100311-07ICV	HMX	176 > 102	5.19	20487.604	3867.894	20487.604	2648.418	db			661.4554	110.2	10.2	3296.8
WXX100311-07ICV	RDX	176 > 102	7.59	15939.342	3867.894	15939.342	2060.468	bb			748.9385	124.8	24.8	2117.5
WXX100311-07ICV	135-Trinitrobenzene	213 > 183	10.20	17583.617	3867.894	17583.617	2273.022	bb			658.6966	109.8	9.8	2031.8
WXX100311-07ICV	13-Dinitrobenzene-d4	172 > 142	12.10	3867.894		3867.894	3867.894	bb			501.0062	100.2	0.2	325.9
WXX100311-07ICV	13-Dinitrobenzene	168 > 138	12.24	6305.524	3867.894	6305.524	815.111	bb			623.8443	104.0	4.0	366.8
WXX100311-07ICV	Tetryl	241 > 181	12.72	4311.450	3867.894	4311.450	557.338	bb			633.1331	105.5	5.5	272.7
WXX100311-07ICV	Nitrobenzene	123 > 46	13.67	3687.920	3867.894	3687.920	476.735	bb			653.7715	109.0	9.0	268.8
WXX100311-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.71	8871.679	20859.926	8871.679	212.649	MM	12-Mar-10	13:16:25	674.1547	112.4	12.4	313.3
WXX100311-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.63	11355.044	20859.926	11355.044	272.174	bb			622.4042	103.7	3.7	679.9
WXX100311-07ICV	246-Trinitrotoluene	227 > 210	15.45	11205.255	20859.926	11205.255	268.583	bb			738.6947	123.1	23.1	338.6
WXX100311-07ICV	34-dinitrotoluene	182 > 152	14.47	14652.810	20859.926	14652.810	351.219	bb			328.4732	109.5	9.5	666.8
WXX100311-07ICV	26-dinitrotoluene	182 > 152	17.66	30111.650	20859.926	30111.650	721.758	MM	12-Mar-10	13:20:59	616.9039	102.8	2.8	1677.1
WXX100311-07ICV	24-dinitrotoluene	182 > 152	18.36	6906.860	20859.926	6906.860	165.553	MM	12-Mar-10	13:25:33	638.3282	106.4	6.4	362.9
WXX100311-07ICV	26-dinitrotoluene-d3	185 > 155	17.49	20859.926		20859.926	20859.926	bb			474.1409	94.8	-5.2	1465.2
WXX100311-07ICV	2-Nitrotoluene	137 > 46	21.14	3452.198	20859.926	3452.198	82.747	bb			610.3490	101.7	1.7	706.3
WXX100311-07ICV	4-Nitrotoluene	137 > 46	22.55	1733.860	20859.926	1733.860	41.560	bb			617.6697	102.9	2.9	342.8
WXX100311-07ICV	3-Nitrotoluene	137 > 46	24.21	2061.733	20859.926	2061.733	49.419	bb			585.2121	97.5	-2.5	374.6
WXX100311-07ICV	PETN	361 > 62	24.65	16999.873	20859.926	16999.873	407.477	bb			607.6573	101.3	1.3	2057.4

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 03/11/10
Time of Injection: 1506
Standard Number: WXX100311-07ICV
Data File: EXP0311010a

HMX		110.2
RDX		124.8
135-TNB		109.8
13-DNB		104.0
Tetryl		105.5
Nitrobenzene		109.0
4A-26-DNT		112.4
2A-46-DNT		103.7
246-TNT		123.1
34-DNT(surr)		109.5
26-DNT		102.8
24-DNT		106.4
2-NT		101.7
4-NT		102.9
3-NT		97.5
PETN		101.3
Total		1724.6
Average		107.8

MAT 3/12/10

Hnm 03/13/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1703

Lab Code: GEL

Run Date: 01-MAR-10,11-MAR-10,12-MAR-10,26-FEB-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Calibration Level:	1	2	3	4	5	6	Ave RF	RSD	Q
Data File:	EXP0312003a	EXP0312004a	EXP0312005a	EXP0312006a	EXP0312007a	EXP0312008a			
Parmname									
1,3,5-Trinitrobenzene	3.843	3.059	3.316	3.057	3.343	3.456	3.346	8.725	
1,3-Dinitrobenzene-d4	6.659	9.508	7.954	9.169	7.982	7.65	8.154	12.771	
2,4,6-Trinitrotoluene	.348	.387	.352	.357	.377	.39	0.369	4.977	
2,4-Dinitrotoluene	.279	.262	.277	.258	.27	.25	0.266	4.3	
2,6-Dinitrotoluene	1.232	1.163	1.13	1.14	1.154	1.131	1.158	3.322	
2,6-Dinitrotoluene-d3	36.708	45.543	50.406	53.097	43.365	44.31	45.572	12.607	
2-Amino-4,6-dinitrotoluene	.614	.598	.48	.46	.484	.477	0.519	13.171	
3,4-Dinitrotoluene	1.071	.972	.985	.979	1.067	1.052	1.021	4.614	
4-Amino-2,6-dinitrotoluene	.487	.309	.316	.309	.338	.329	0.348	19.842	
Nitrobenzene	.769	.651	.833	.737	.758	.783	0.755	7.99	
RDX	4.355	2.97	2.794	3.072	2.816	2.904	3.152	18.977	
Tetryl	1.393	.894	.97	.955	.985	1.006	1.034	17.435	
m-Dinitrobenzene	1.244	1.145	1.215	1.174	1.221	1.231	1.205	3.134	
m-Nitrotoluene	.088	.112	.086	.083	.089	.089	0.091	11.55	
o-Nitrotoluene	.203	.185	.142	.138	.152	.148	0.161	16.391	

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

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1703

Lab Code: GEL

Run Date: 01-MAR-10,11-MAR-10,12-MAR-10,26-FEB-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

Calibration Level:	1	2	3	4	5	6	Slope	Intercept	COD	Q
Data File:	EXP0312003a	EXP0312004a	EXP0312005a	EXP0312006a	EXP0312007a	EXP0312008a				
Parmname										
PETN	1225.93	2246.05	7460.63	15390.1	26090.8	30326.3	.692	15.463	.9959	
p-Nitrotoluene	109.852	197.13	720.234	1473.58	2657.98	3286.78	.074	.092	.998	

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

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1703

Lab Code: GEL

Run Date: 01-MAR-10,11-MAR-10,12-MAR-10,26-FEB-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:	EXP0312003a	EXP0312004a	EXP0312005a	EXP0312006a	EXP0312007a	EXP0312008a					
Parmname:											
HMX	1087.04	2016.74	6634.49	15593.6	27207.9	33049.8	4.009	.0002718	35.813	.9999	

Quadradic 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

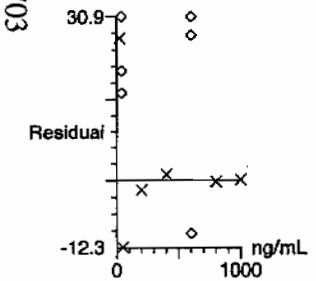
Q column used to flag COD outside of Limit (<0.990)
* Values outside of QC Limit

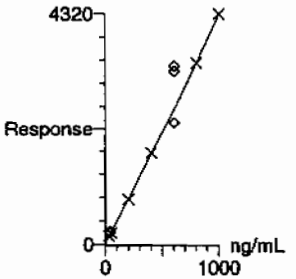
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\031210expa.mdb, Time: Sat Mar 13 08:11:23 2010
Calibration: Untitled, Time: Sat Mar 13 08:42:21 2010

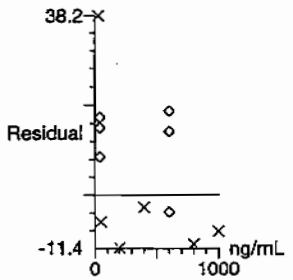
Compound name: HMX
Coefficient of Determination: 0.999870
Calibration curve: 0.000271825 * x^2 + 4.00943 * x + 35.8125
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None

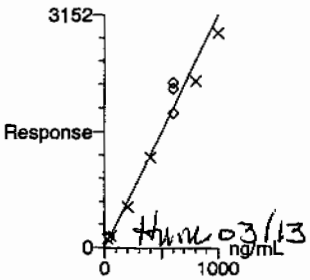




MM
3/13/10

Compound name: RDX
Response Factor: 3.15183
RRF SD: 0.598118, % Relative SD: 18.9769
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

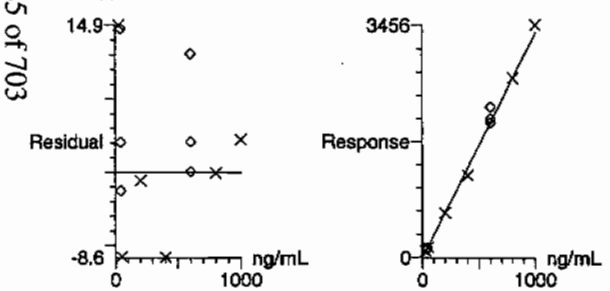




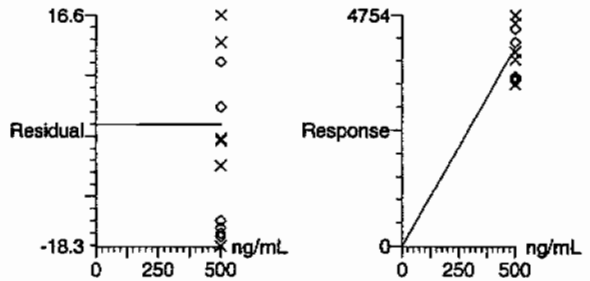
HWM 03/13/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

Compound name: 135-Trinitrobenzene
Response Factor: 3.34535
RRF SD: 0.291895, % Relative SD: 8.7254
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

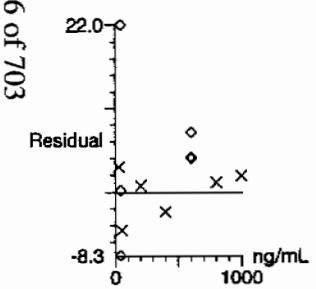


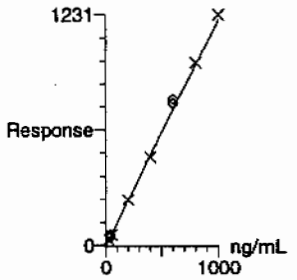
Compound name: 13-Dinitrobenzene-d4
Response Factor: 8.15357
RRF SD: 1.04131, % Relative SD: 12.7713
Response type: External Std, Area
Curve type: RF



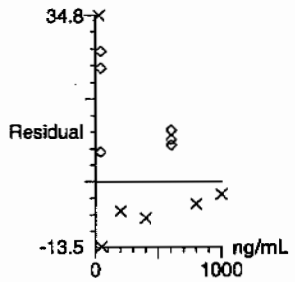
Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

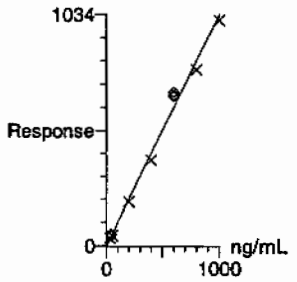
Compound name: 13-Dinitrobenzene
Response Factor: 1.20488
RRF SD: 0.0377662, % Relative SD: 3.13444
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF





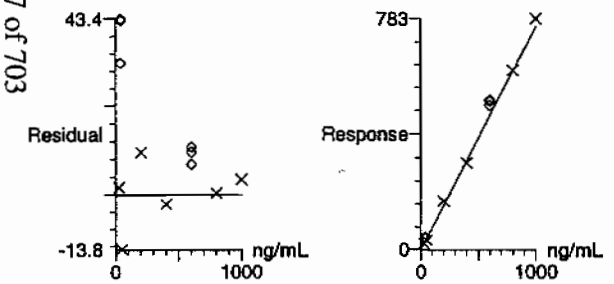
Compound name: Tetryl
Response Factor: 1.03365
RRF SD: 0.18022, % Relative SD: 17.4353
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



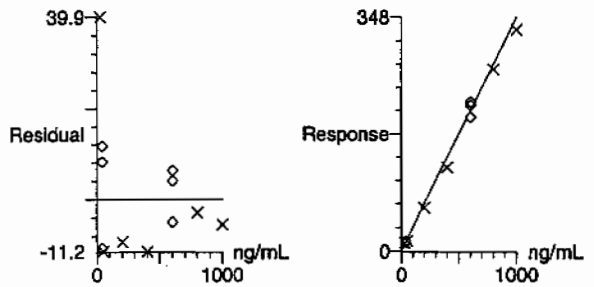


Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

Compound name: Nitrobenzene
Response Factor: 0.755442
RRF SD: 0.0603565, % Relative SD: 7.98955
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

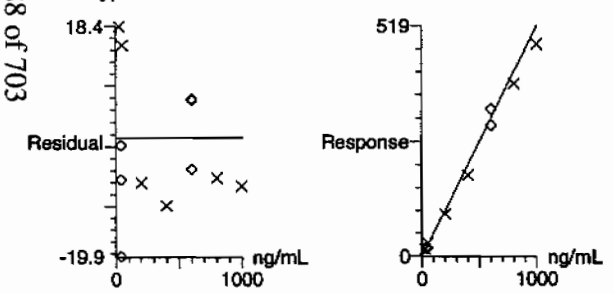


Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.347978
RRF SD: 0.0690453, % Relative SD: 19.8418
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

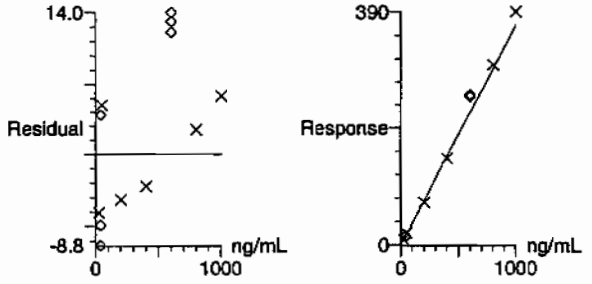


Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.518822
RRF SD: 0.0683347, % Relative SD: 13.1711
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

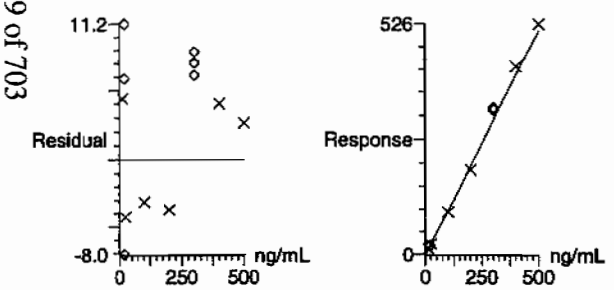


Compound name: 246-Trinitrotoluene
Response Factor: 0.368491
RRF SD: 0.01834, % Relative SD: 4.97707
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

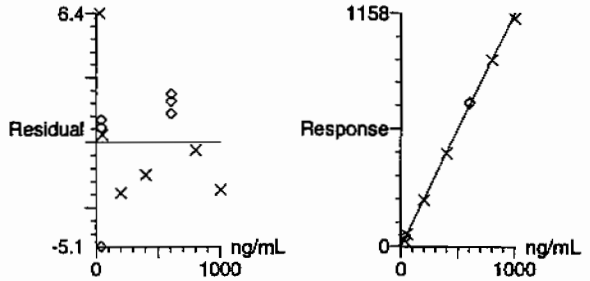


Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

Compound name: 34-dinitrotoluene
Response Factor: 1.02105
RRF SD: 0.0471095, % Relative SD: 4.61381
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

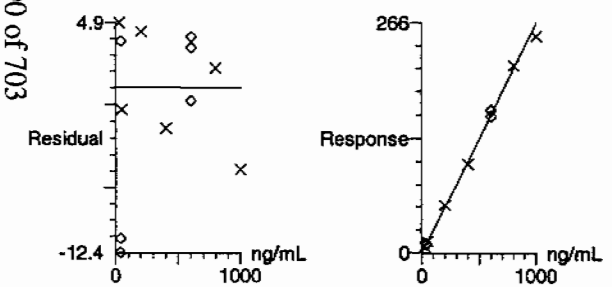


Compound name: 26-dinitrotoluene
Response Factor: 1.15834
RRF SD: 0.0384742, % Relative SD: 3.3215
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

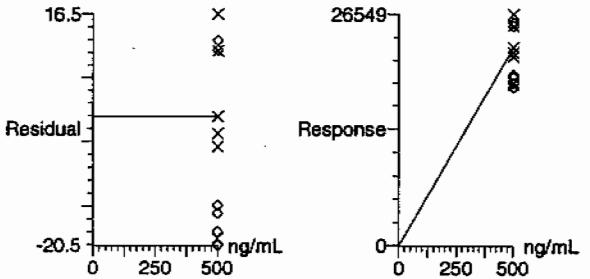


Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.266109
RRF SD: 0.0114435, % Relative SD: 4.3003
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

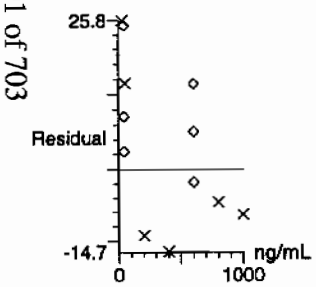


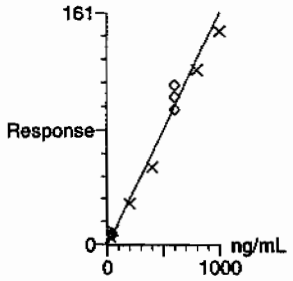
Compound name: 26-dinitrotoluene-d3
Response Factor: 45.5713
RRF SD: 5.74507, % Relative SD: 12.6068
Response type: External Std, Area
Curve type: RF



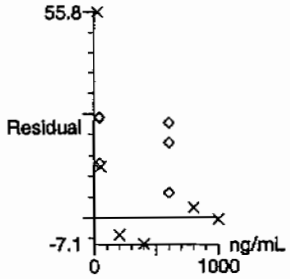
Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

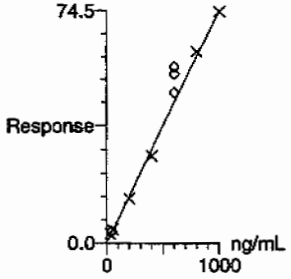
Compound name: 2-Nitrotoluene
Response Factor: 0.161474
RRF SD: 0.0264665, % Relative SD: 16.3906
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF





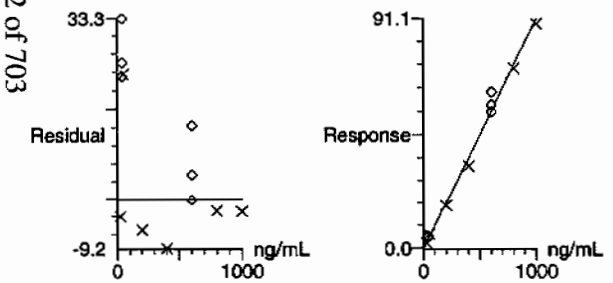
Compound name: 4-Nitrotoluene
Correlation coefficient: r = 0.998998, r^2 = 0.997997
Calibration curve: 0.0744581 * x + 0.0916133
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



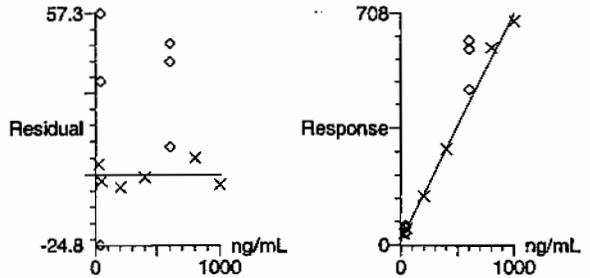


Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0911274
RRF SD: 0.0105252, % Relative SD: 11.55
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Correlation coefficient: r = 0.997933, r^2 = 0.995871
Calibration curve: 0.692473 * x + 15.4633
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): 10-1703

Lab Code: GEI

GEL Sample ID: WXXICV

GEL Data File EXP0312010a

Analysis Date: 12-MAR-10 20:31

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p-Nitrotoluene	600	641.092	107	
1,3,5-Trinitrobenzene	600	672.246	112	
1,3-Dinitrobenzene-d4	500	513.424	103	
2,4,6-Trinitrotoluene	600	672.611	112	
2,4-Dinitrotoluene	600	618.13	103	
2,6-Dinitrotoluene	600	612.113	102	
2,6-Dinitrotoluene-d3	500	553.706	111	
2-Amino-4,6-dinitrotoluene	600	568.534	95	
3,4-Dinitrotoluene	300	323.731	108	
4-Amino-2,6-dinitrotoluene	600	570.962	95	
HMX	600	541.274	90	
Nitrobenzene	600	669.626	112	
PETN	600	657.44	110	
RDX	600	578.635	96	
Tetryl	600	653.106	109	
m-Dinitrobenzene	600	646.665	108	
m-Nitrotoluene	600	598.872	100	
o-Nitrotoluene	600	586.354	98	

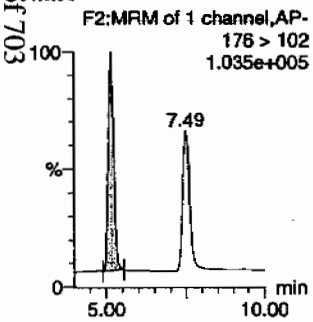
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

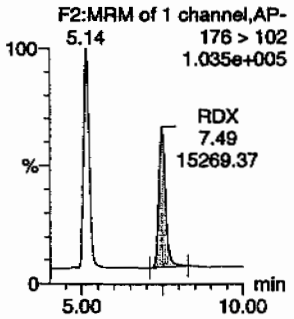
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312010a
Date: 12-Mar-2010
Time: 20:31:28
ID: WXX100312-07ICV
Vial: 1:1,B

MMP 3/13/10

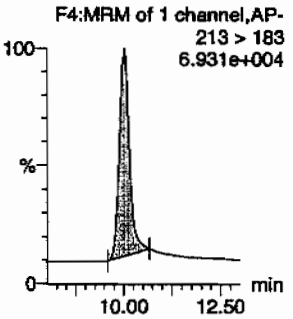
HMX



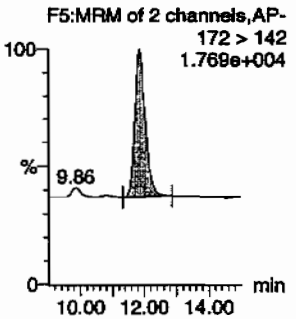
RDX



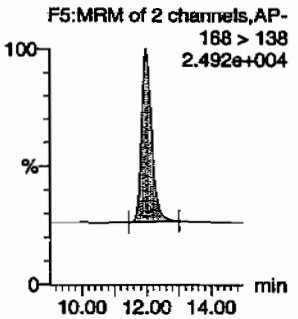
135-Trinitrobenzene



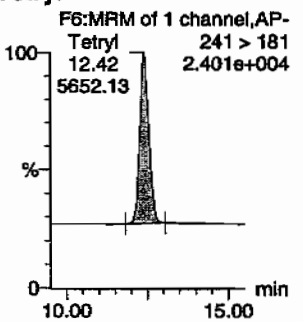
13-Dinitrobenzene-d4



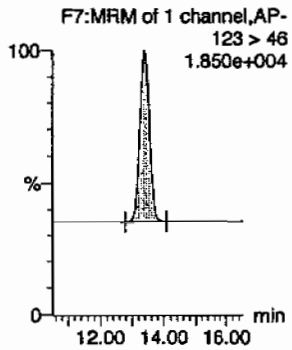
13-Dinitrobenzene



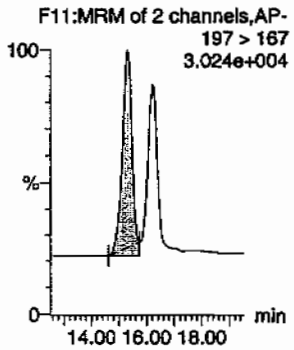
Tetryl



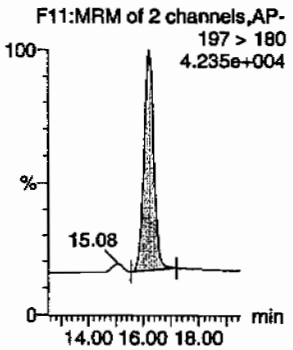
Nitrobenzene



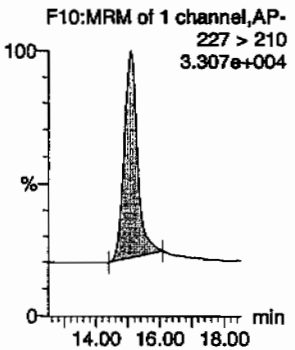
4-Amino-26-dinitrotoluene



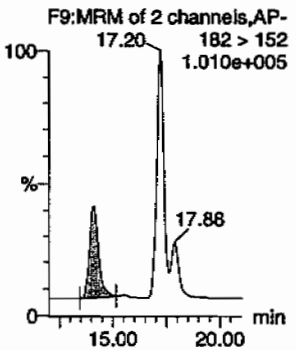
2-Amino-46-dinitrotoluene



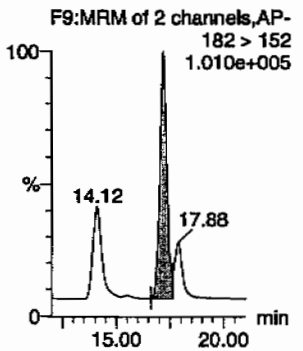
246-Trinitrotoluene



34-dinitrotoluene



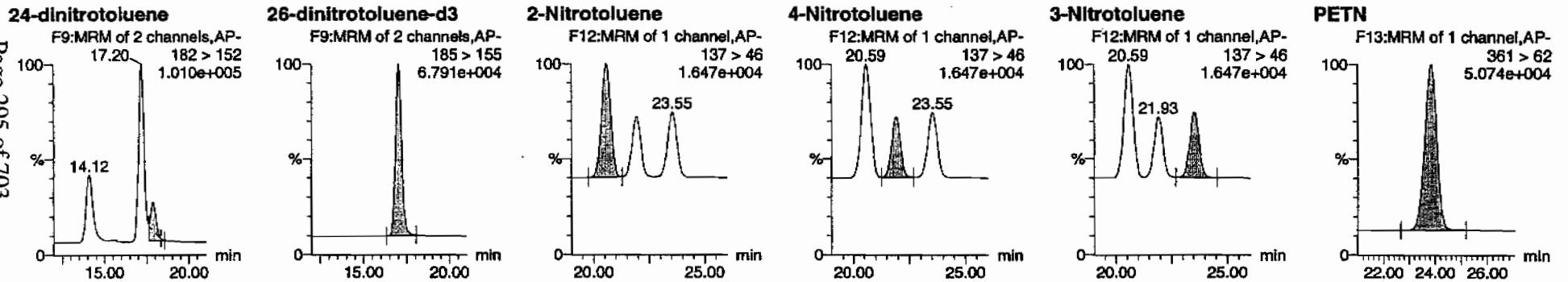
26-dinitrotoluene



HMM 03/13/10

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Amount	%Rec	%Dev	S/N
WXX100312-07ICV	HMX	176 > 102	5.14	19136.541	4186.237	19136.541	2285.649	bb			541.2736	90.2	-9.8	1932.2
WXX100312-07ICV	RDX	176 > 102	7.49	15269.367	4186.237	15269.367	1823.758	bb			578.6348	96.4	-3.6	1232.7
WXX100312-07ICV	135-Trinitrobenzene	213 > 183	10.04	18828.818	4186.237	18828.818	2248.895	bb			672.2457	112.0	12.0	2033.2
WXX100312-07ICV	13-Dinitrobenzene-d4	172 > 142	11.87	4186.237		4186.237	4186.237	bb			513.4240	102.7	2.7	416.8
WXX100312-07ICV	13-Dinitrobenzene	168 > 138	12.00	6523.436	4186.237	6523.436	779.153	bb			646.6647	107.8	7.8	592.4
WXX100312-07ICV	Tetryl	241 > 181	12.42	5652.126	4186.237	5652.126	675.084	bb			653.1055	108.9	8.9	528.6
WXX100312-07ICV	Nitrobenzene	123 > 46	13.37	4235.332	4186.237	4235.332	505.864	bb			669.6259	111.6	11.6	310.8
WXX100312-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.29	10026.750	25233.098	10026.750	198.683	MM	13-Mar-10	08:34:23	570.9621	95.2	-4.8	482.4
WXX100312-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.19	14885.931	25233.098	14885.931	294.968	bb			568.5344	94.8	-5.2	540.4
WXX100312-07ICV	246-Trinitrotoluene	227 > 210	15.10	12508.093	25233.098	12508.093	247.851	bb			672.6113	112.1	12.1	260.5
WXX100312-07ICV	34-dinitrotoluene	182 > 152	14.12	16681.432	25233.098	16681.432	330.547	bb			323.7306	107.9	7.9	360.2
WXX100312-07ICV	26-dinitrotoluene	182 > 152	17.20	35782.281	25233.098	35782.281	709.035	MM	13-Mar-10	08:36:53	612.1133	102.0	2.0	969.9
WXX100312-07ICV	24-dinitrotoluene	182 > 152	17.88	8301.185	25233.098	8301.185	164.490	MM	13-Mar-10	08:39:03	618.1300	103.0	3.0	210.3
WXX100312-07ICV	26-dinitrotoluene-d3	185 > 155	17.03	25233.098		25233.098	25233.098	bb			553.7060	110.7	10.7	4238.2
WXX100312-07ICV	2-Nitrotoluene	137 > 46	20.59	4778.174	25233.098	4778.174	94.681	bb			586.3541	97.7	-2.3	966.6
WXX100312-07ICV	4-Nitrotoluene	137 > 46	21.93	2413.600	25233.098	2413.600	47.826	bb			641.0917	106.8	6.8	518.1
WXX100312-07ICV	3-Nitrotoluene	137 > 46	23.55	2754.124	25233.098	2754.124	54.574	bb			598.8721	99.8	-0.2	558.6
WXX100312-07ICV	PETN	361 > 62	23.85	23755.580	25233.098	23755.580	470.723	bb			657.4399	109.6	9.6	11711.4

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 03/12/10
Time of Injection: 2031
Standard Number: WXX100312-07ICV
Data File: EXP0312010a

HMX	90.2
RDX	96.4
135-TNB	112.0
13-DNB	107.8
Tetryl	108.9
Nitrobenzene	111.6
4A-26-DNT	95.2
2A-46-DNT	94.8
246-TNT	112.1
34-DNT(surr)	107.9
26-DNT	102.0
24-DNT	103.0
2-NT	97.7
4-NT	106.8
3-NT	99.8
PETN	109.6
Total	1655.8
Average	103.5

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1703

Lab Code: GEL

Run Date: 01-MAR-10,11-MAR-10,12-MAR-10,26-FEB-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:	EXS02260003.wifl	EXS02260004.wifl	EXS02260005.wifl	EXS02260006.wifl	EXS02260007.wifl	EXS02260008.wifl	EXS02260009.wifl					
Parmname:												
2,4-Diamino-6-nitrotoluene	80600	158000	383000	773000	1220000	1610000	3220000	-10100	1620	.001	.9999	
2,6-Diamino-4-nitrotoluene	113000	219000	551000	1070000	1680000	2170000	4260000	-5880	2240	-.055	.9999	
3,4-Dinitrotoluene	365000	719000	1740000	3170000	4890000	6230000	11300000	2650	14600	-3.26	.9979	
3,5-Dinitroaniline	531000	1010000	2370000	4530000	6700000	8310000	13900000	41000	9760	-1.41	.9999	
TATB	50800	103000	279000	574000	909000	1230000	2540000	-18200	1200	.04	.9999	
tris(o-cresyl) phosphate	893000	1730000	4120000	7610000	11100000	14100000	23200000	92000	16500	-2.46	1	

Quadradic 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

022610ICAL

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.82e+004			
a1	1.2e+003			
a2	0.0401			

Correlation coefficient 0.9999
Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	4.1e+004			
a1	9.76e+003			
a2	-1.41			

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	2.65e+003			
a1	1.46e+004			
a2	-3.26			

Correlation coefficient 0.9979
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	-5.88e+003			
a1	2.24e+003			
a2	-0.055			

Correlation coefficient 0.9999
Use Area

Ken
3/1/10

HNW
03/01/10

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

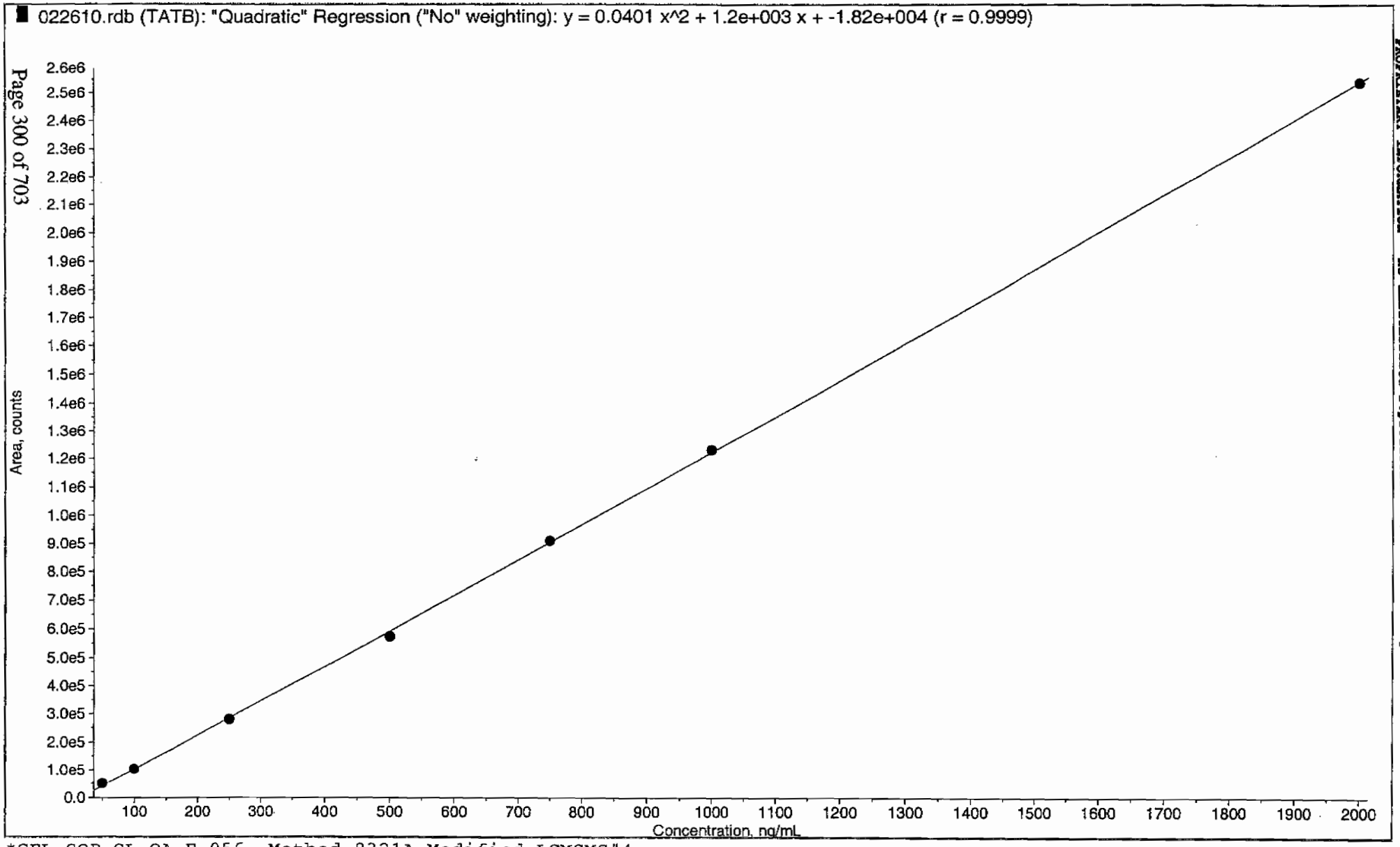
Fit	Quadratic	Weighting	None	Iterate No
a0	-1.01e+004			
a1	1.62e+003			
a2	0.000677			

Correlation coefficient 0.9999
Use Area

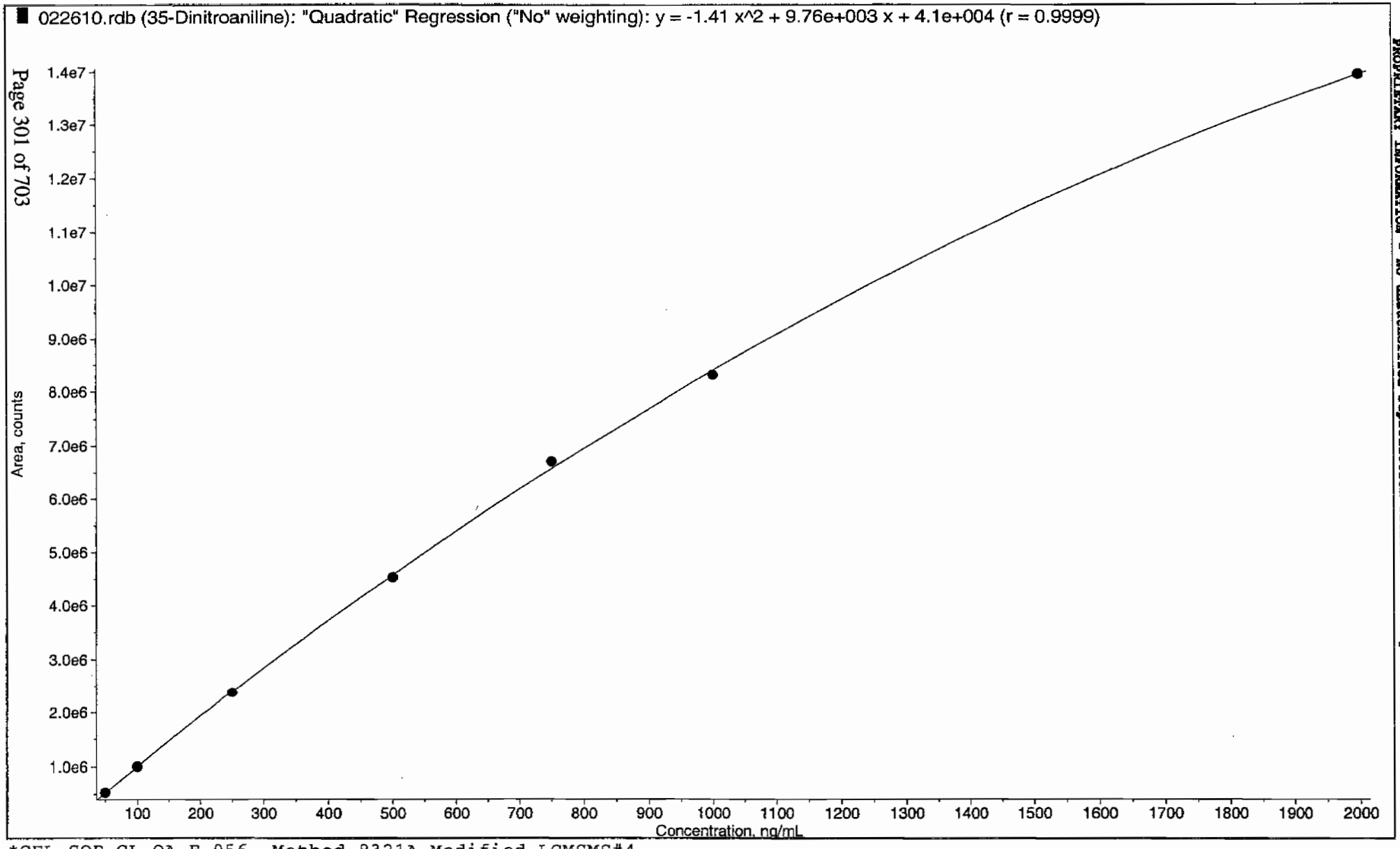
Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	9.2e+004			
a1	1.65e+004			
a2	-2.46			

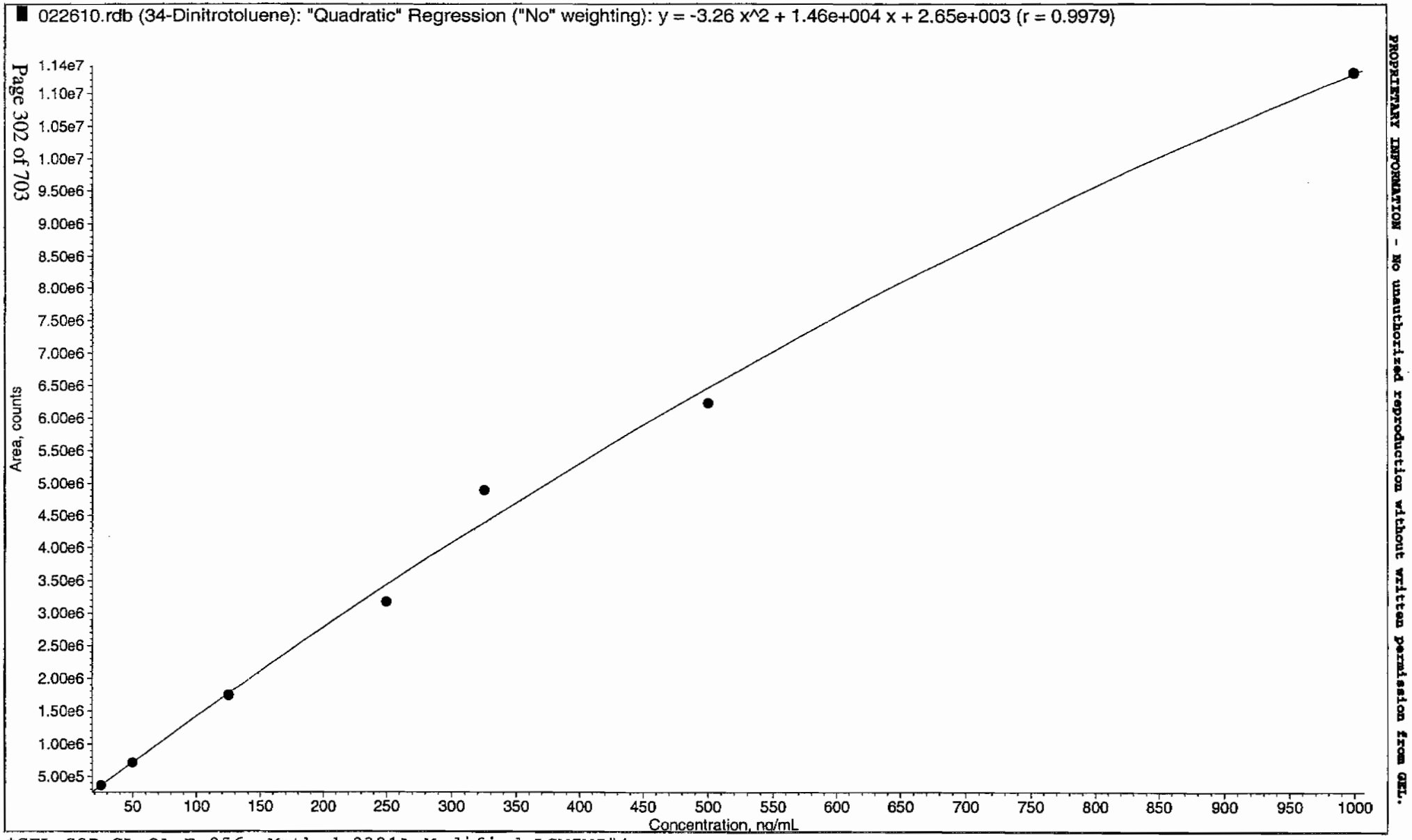
Correlation coefficient 1.0000
Use Area



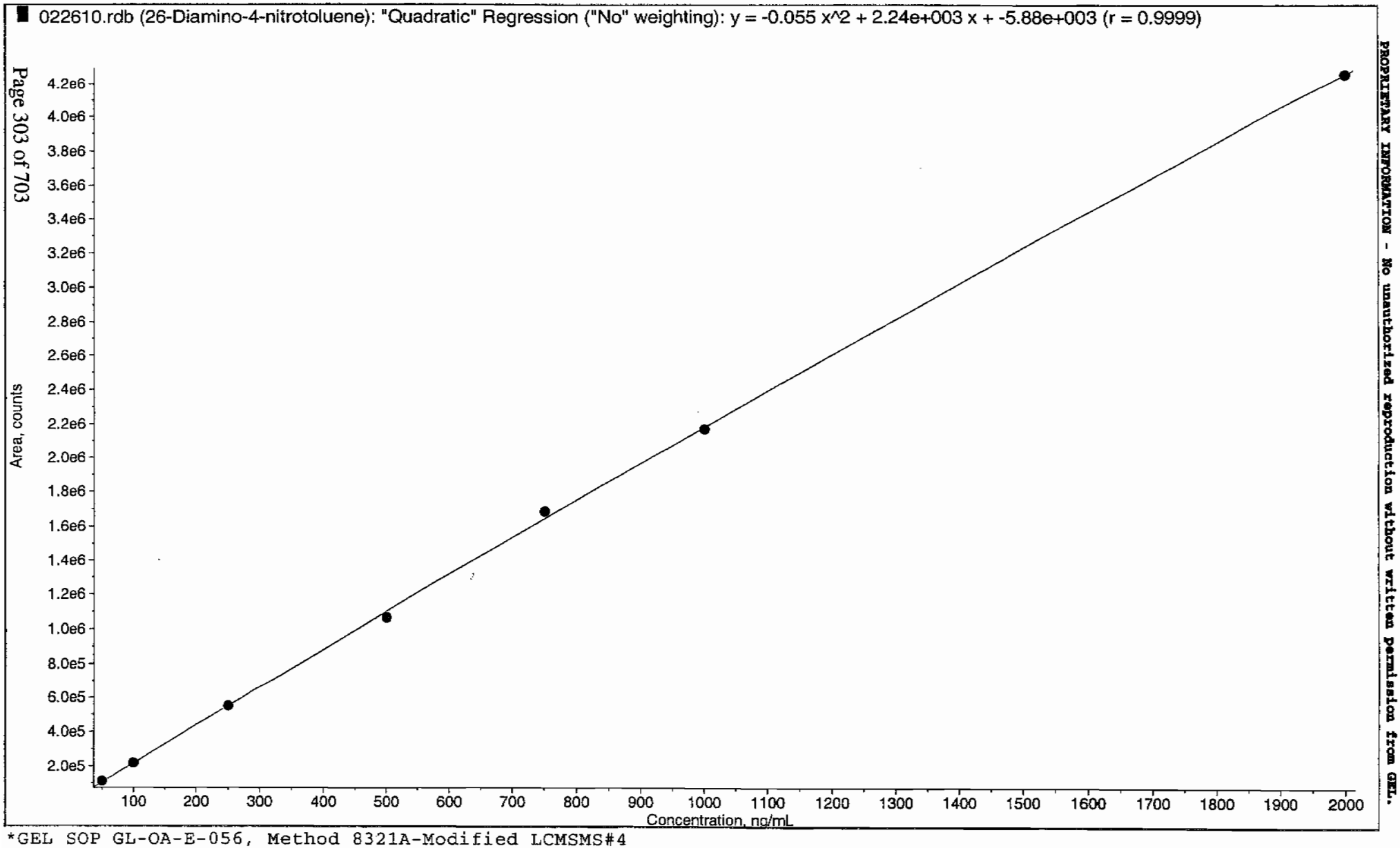
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



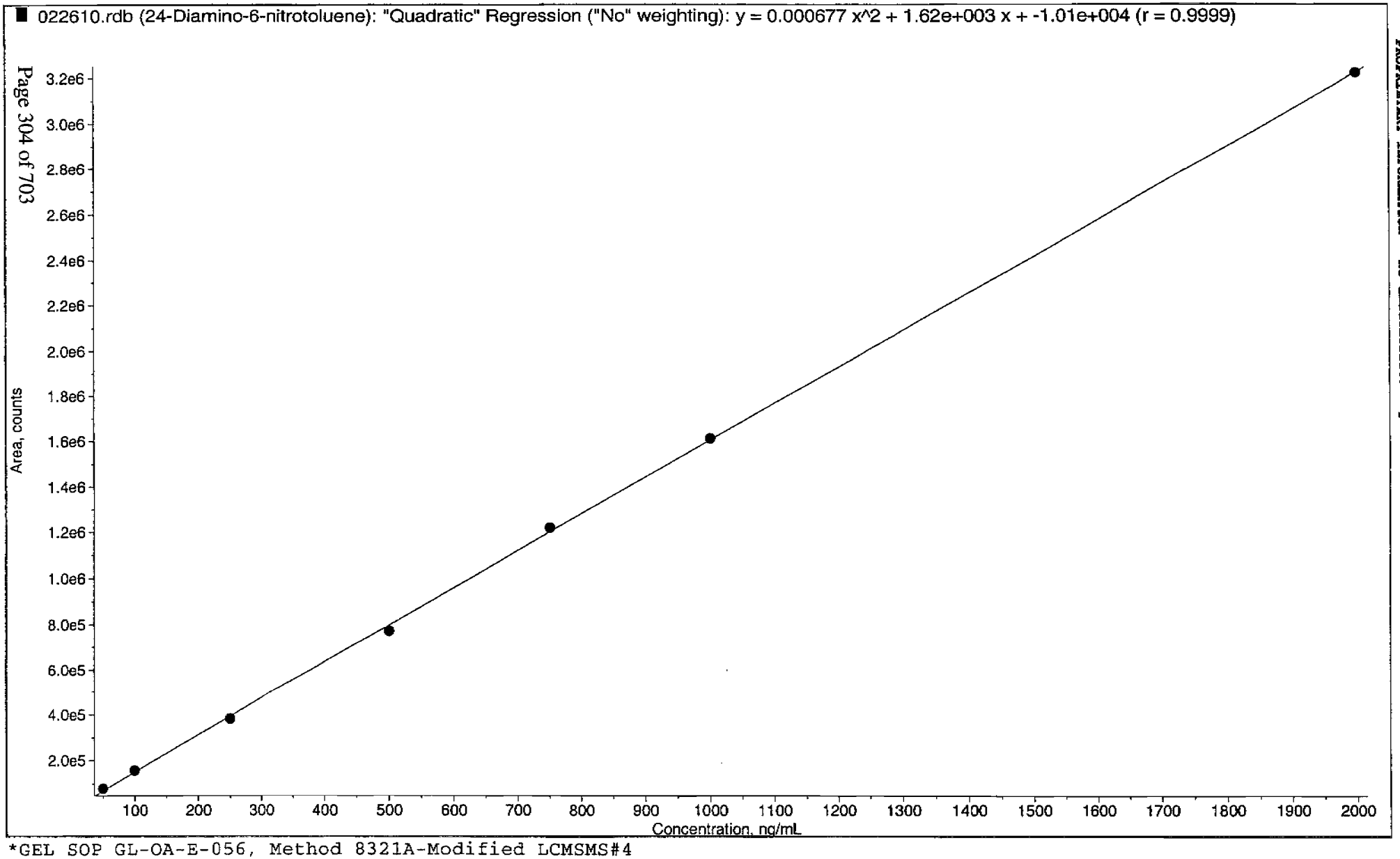
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



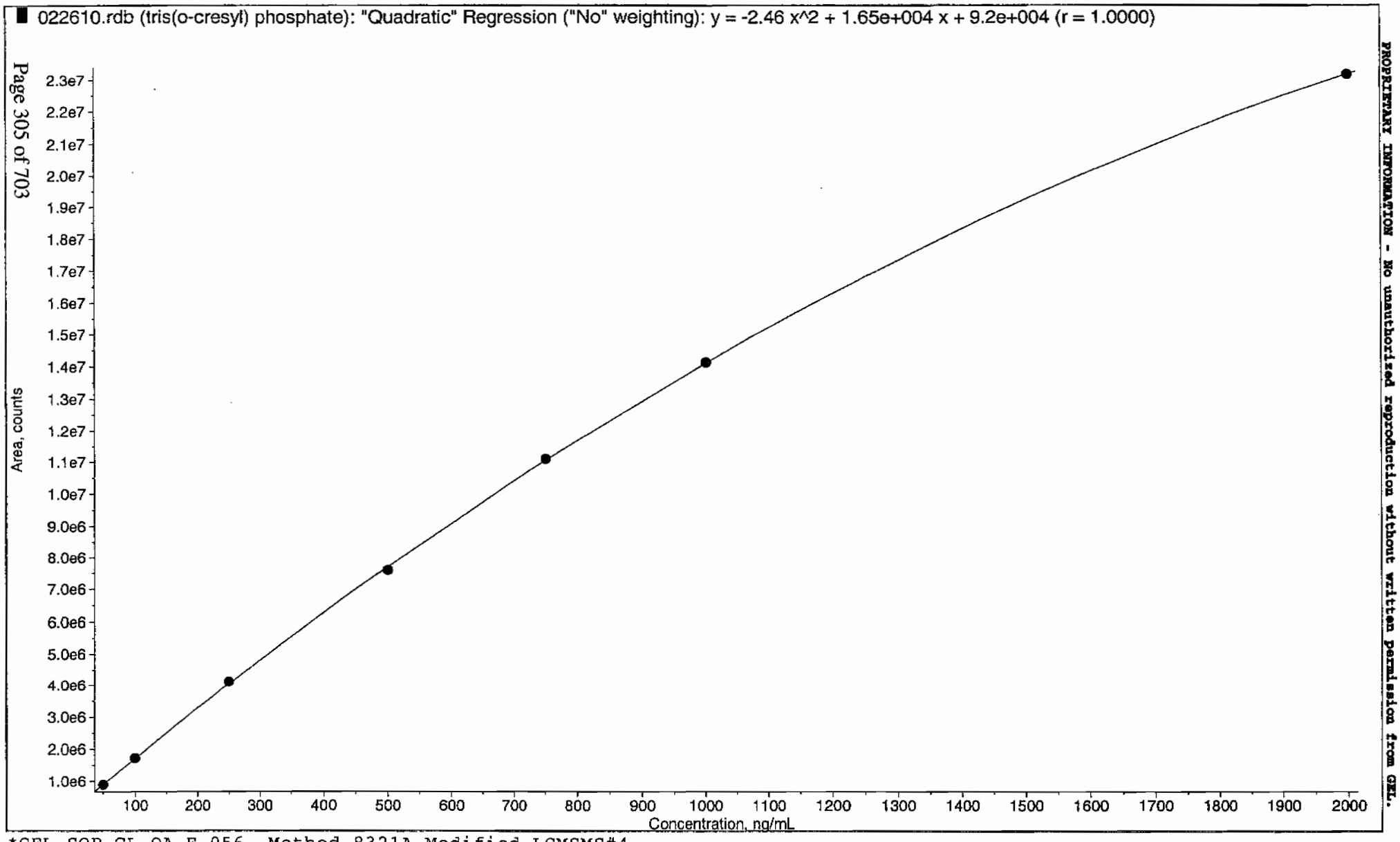
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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



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



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

7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10–1703

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS02260011.wiff

Analysis Date: 26–FEB–10 17:31

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	500	483	97	
2,6–Diamino–4–nitrotoluene	500	465	93	
3,4–Dinitrotoluene	250	226	90	
3,5–Dinitroaniline	500	474	95	
TATB	500	472	95	
tris(o–cresyl) phosphate	500	494	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 70–130%
OtherTarget Analytes 80–120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

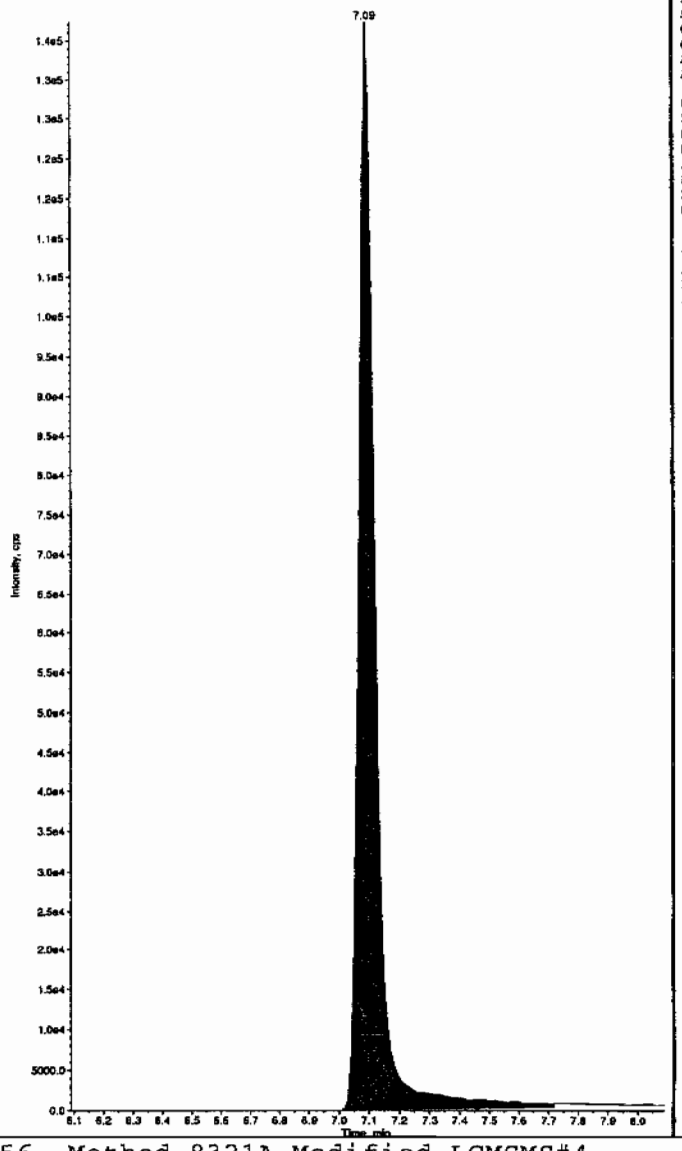
Lar 3/1/10

Sample Name: "WXX100226-26ICV" Sample ID: "[1]LER" File: "EXS02260011.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 472. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:31:06 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.09 min
Area: 5.57e+005 counts
Height: 137406.067 cps
Start Time: 7.00 min
End Time: 7.72 min

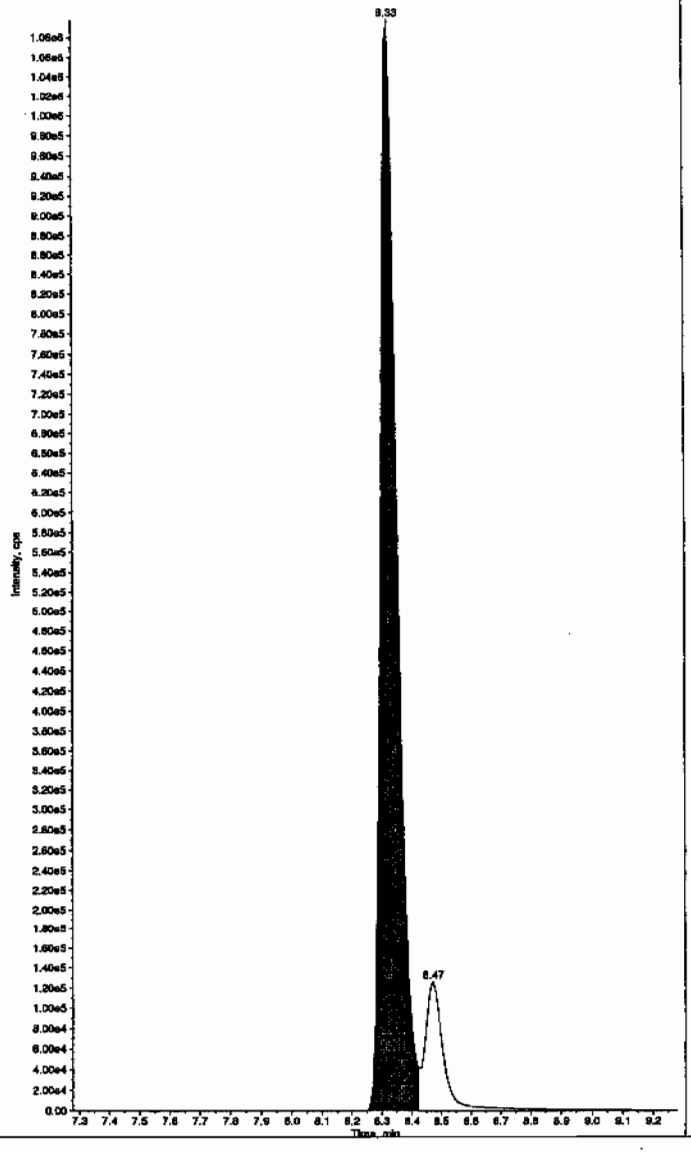


Sample Name: "WXX100226-26ICV" Sample ID: "[1]LER" File: "EXS02260011.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 474. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:31:06 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: 8.28 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.33 min
Area: 4.35e+006 counts
Height: 1097292.725 cps
Start Time: 8.24 min
End Time: 8.42 min



Hmm 03/01/10

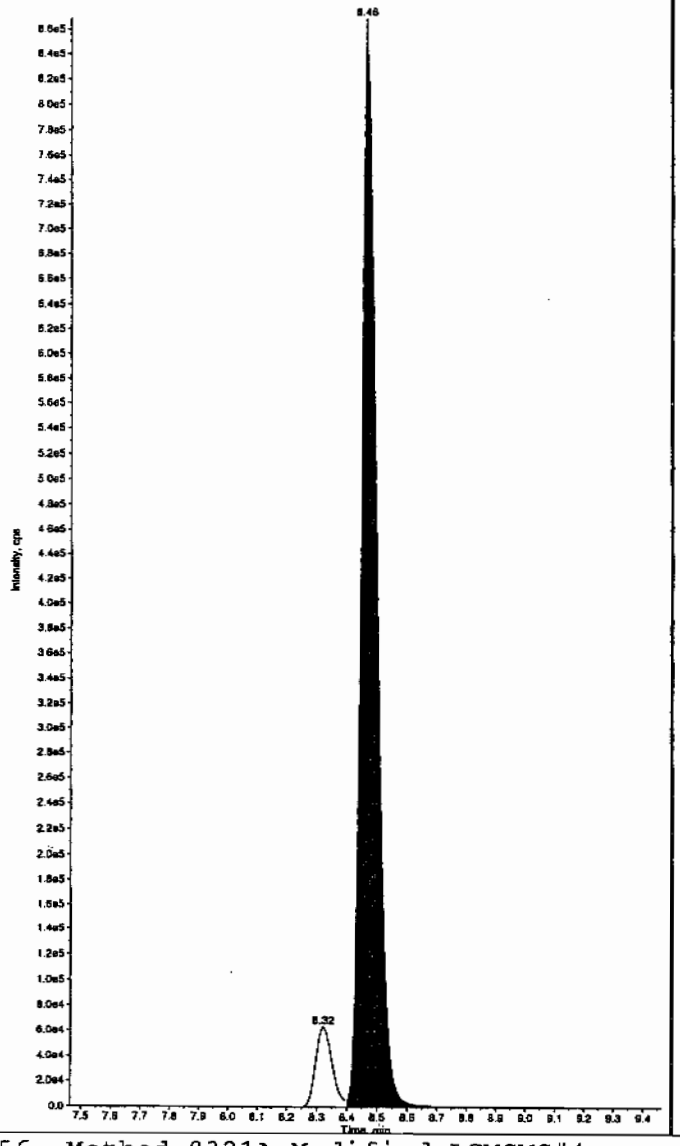
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26ICV" Sample ID: "|1|LER" File: "EXS02260011.wiff"
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: 226. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:31:06 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.46 min
Area: 3.12e+006 counts
Height: 369437.378 cps
Start Time: 8.40 min
End Time: 8.83 min

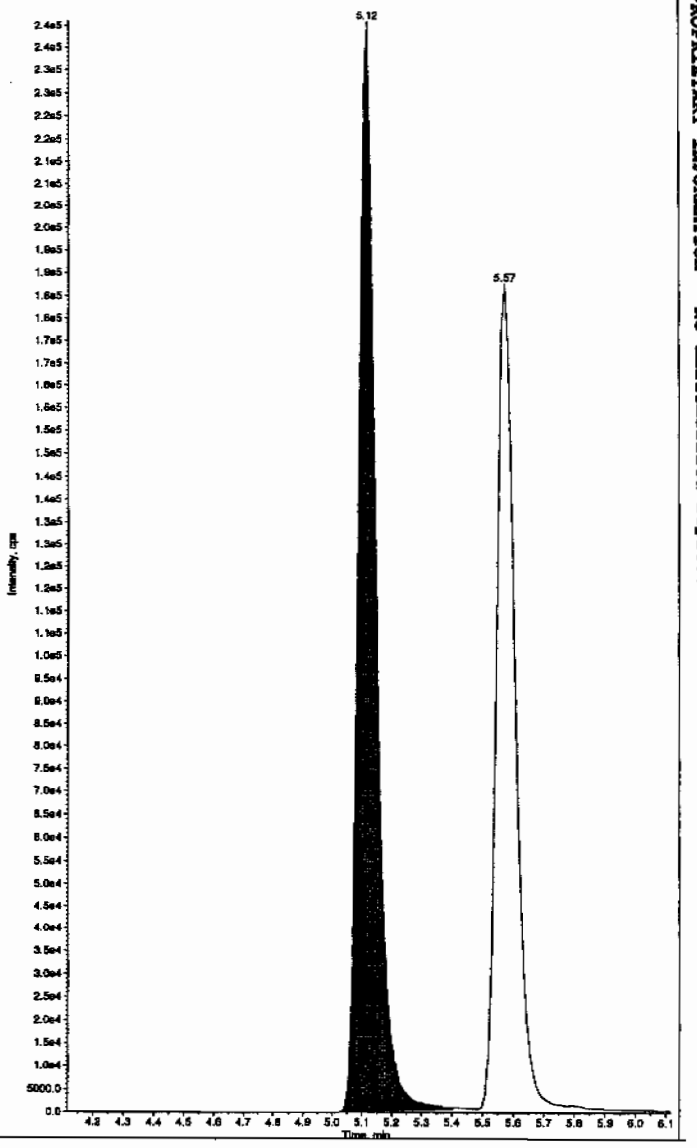


Sample Name: "WXX100226-26ICV" Sample ID: "|1|LER" File: "EXS02260011.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 465. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:31:06 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.12 min
Area: 1.02e+006 counts
Height: 240925.003 cps
Start Time: 5.01 min
End Time: 5.41 min



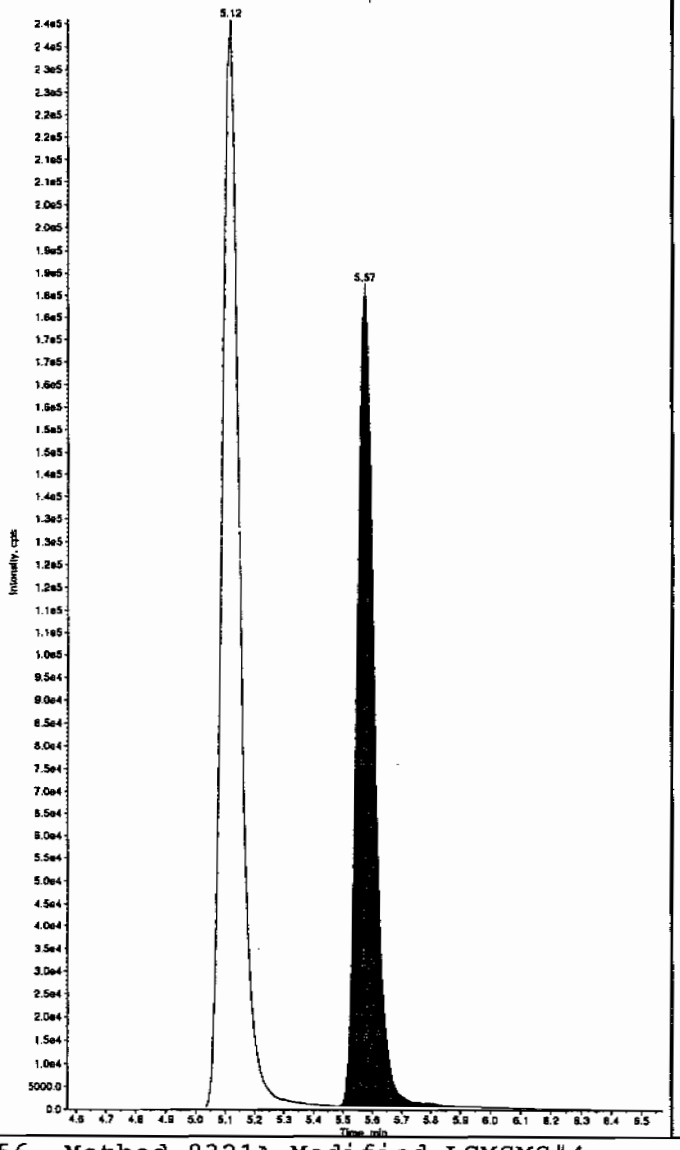
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26ICV" Sample ID: "[1]LER" File: "EXS02260011.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 483. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:31:06 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.57 min
Area: 7.72e+005 counts
Height: 182073.196 cps
Start Time: 5.49 min
End Time: 5.92 min

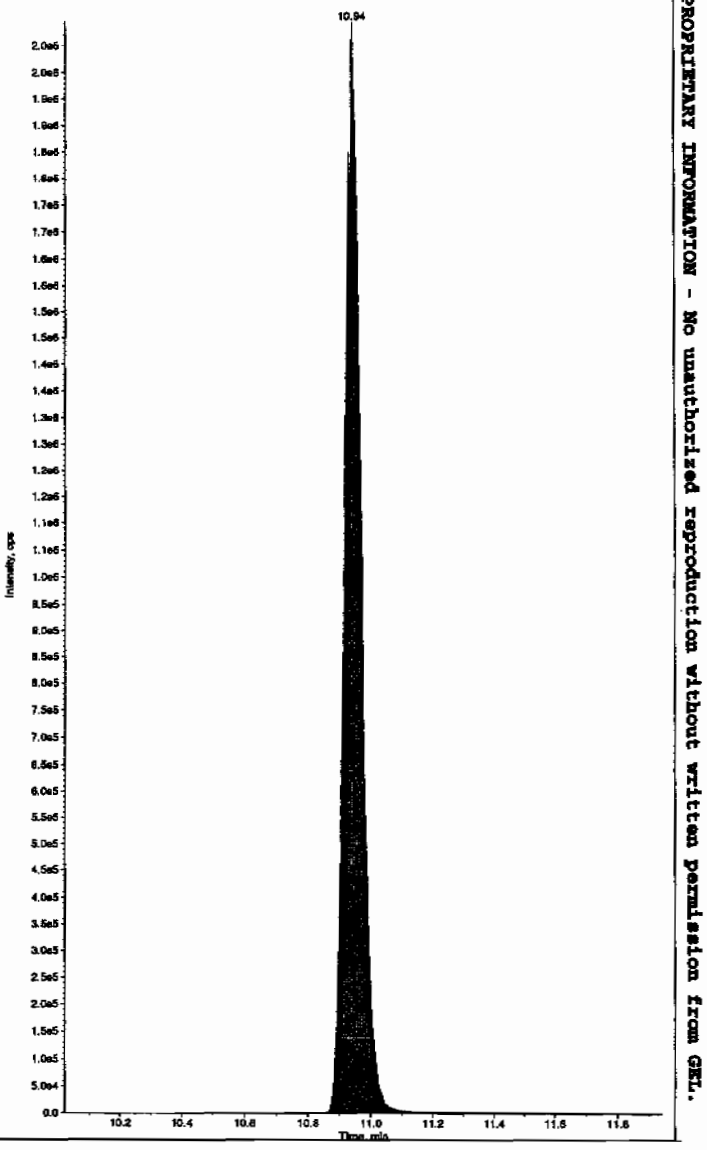


Sample Name: "WXX100226-26ICV" Sample ID: "[1]LER" File: "EXS02260011.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 494. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 5:31:06 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: 7.63e+006 counts
Height: 2044473.877 cps
Start Time: 10.8 min
End Time: 11.3 min



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

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1703

Lab Code: GEL

Run Date: 01-MAR-10,11-MAR-10,12-MAR-10,26-FEB-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:	EXS03010003.wifl	EXS03010004.wifl	EXS03010005.wifl	EXS03010006.wifl	EXS03010007.wifl	EXS03010008.wifl	EXS03010009.wifl					
Parmname:												
2,4-Diamino-6-nitrotoluene	63600	134000	332000	632000	1000000	1320000	2520000	-9230	1370	-.055	.9999	
2,6-Diamino-4-nitrotoluene	91200	188000	474000	956000	1400000	1830000	3670000	6230	1860	-.014	.9999	
3,4-Dinitrotoluene	296000	604000	1440000	2810000	4210000	5760000	10400000	-77900	13100	-2.67	.999	
3,5-Dinitroaniline	436000	871000	2060000	3980000	5810000	7200000	13000000	75700	8100	-.824	.9998	
TATB	50800	111000	287000	578000	908000	1260000	2600000	-14200	1190	.058	.9999	
tris(o-cresyl) phosphate	864000	1800000	4120000	7770000	11400000	14300000	24200000	110000	16500	-2.25	1	

Quadradic 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

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.42e+004			
a1	1.19e+003			
a2	0.0579			

Correlation coefficient 0.9999
Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	7.57e+004			
a1	8.1e+003			
a2	-0.824			

Correlation coefficient 0.9998
Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-7.79e+004			
a1	1.31e+004			
a2	-2.67			

Correlation coefficient 0.9990
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	6.23e+003			
a1	1.86e+003			
a2	-0.0141			

Correlation coefficient 0.9999
Use Area

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

LCM 3/3/10

dhm 03/04/10

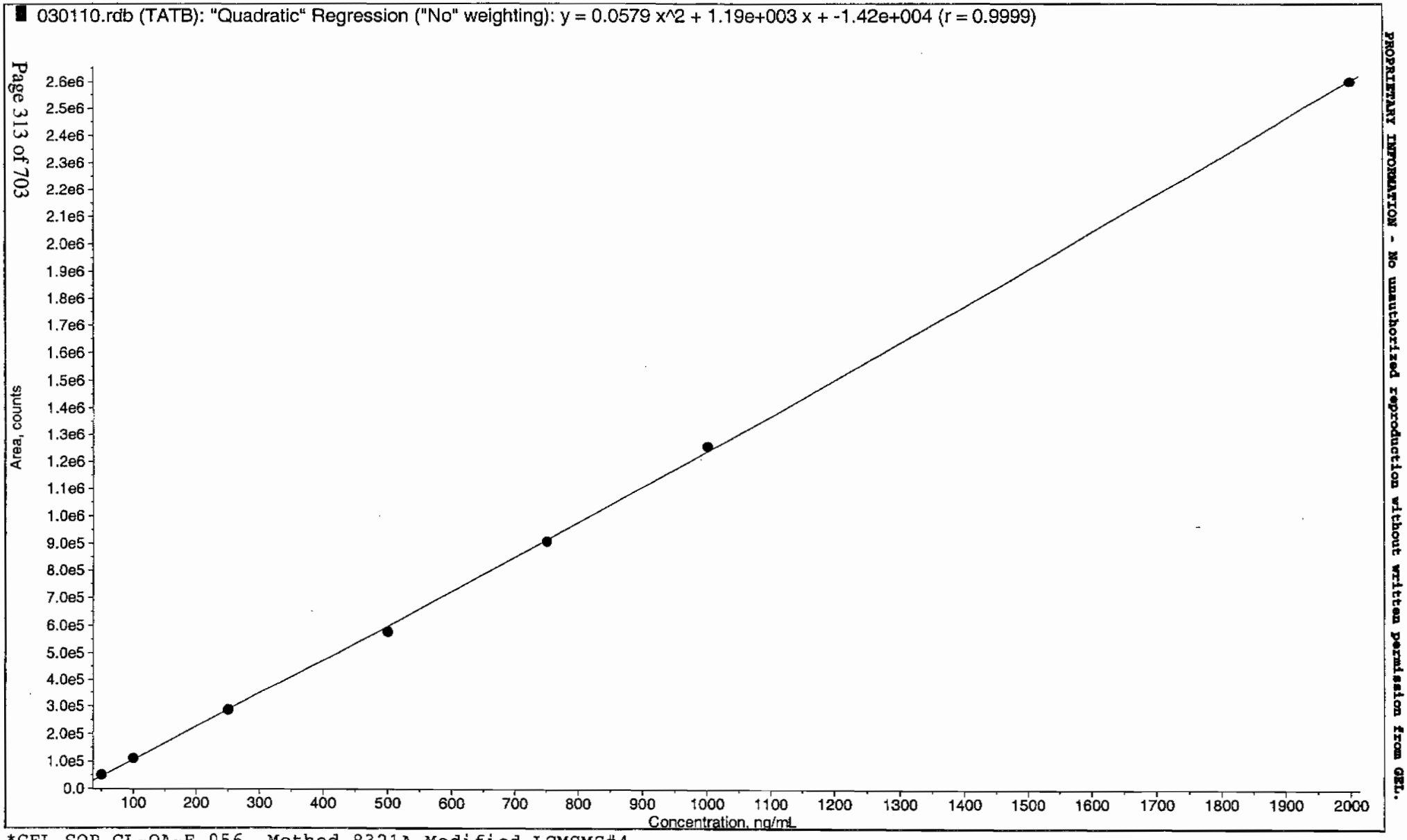
Fit	Quadratic	Weighting	None	Iterate No
a0	-9.23e+003			
a1	1.37e+003			
a2	-0.0545			

Correlation coefficient 0.9999
Use Area

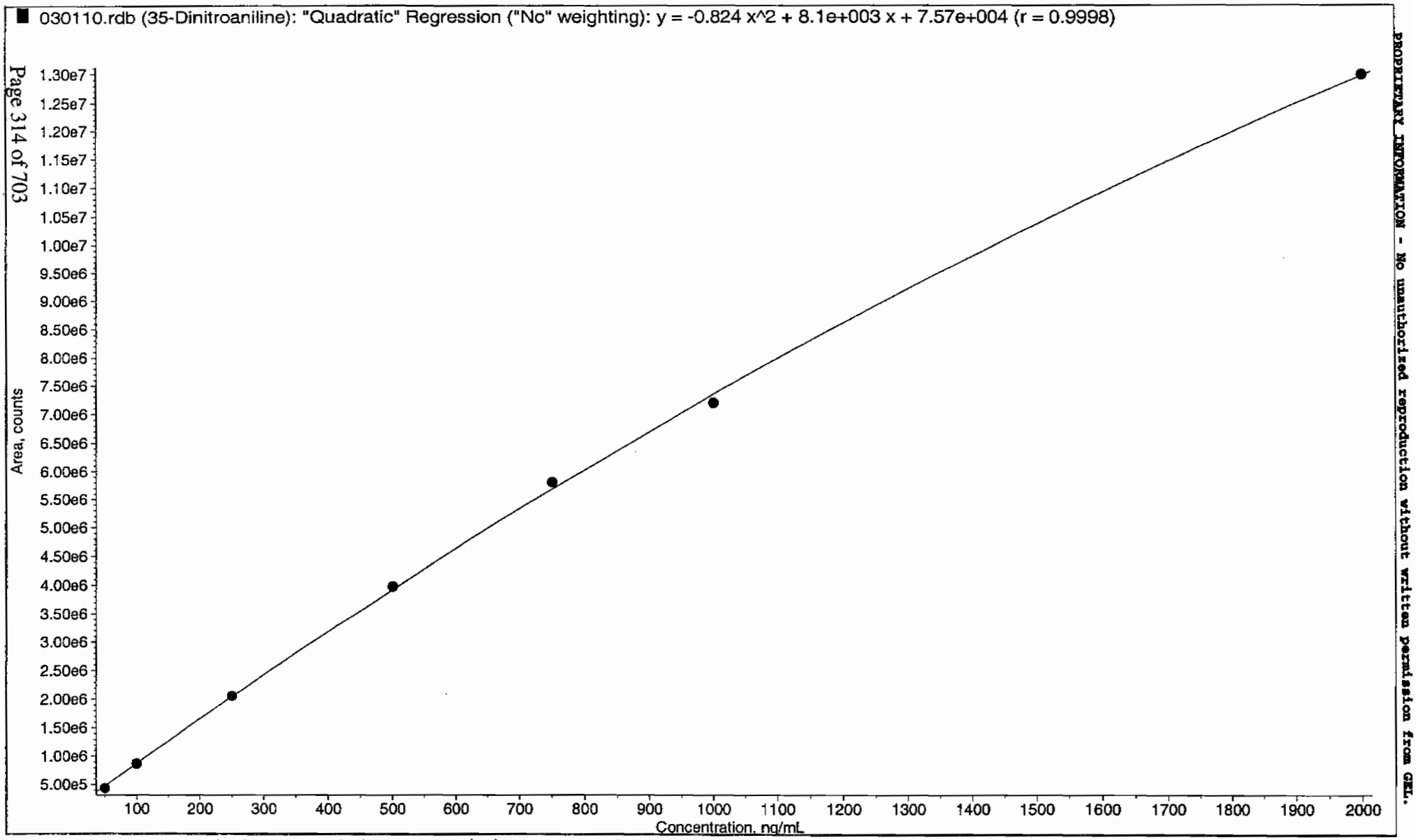
Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	1.1e+005			
a1	1.65e+004			
a2	-2.25			

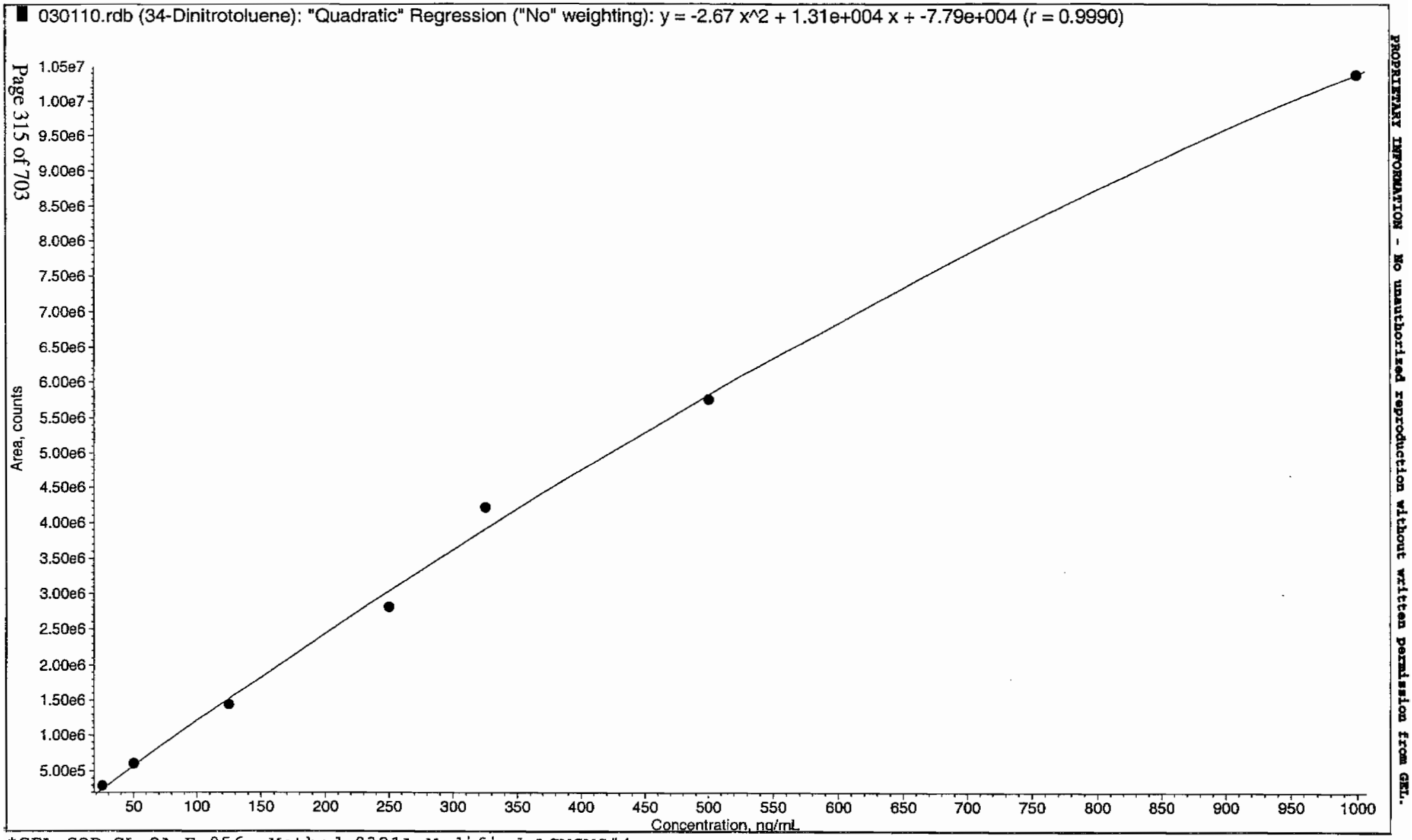
Correlation coefficient 1.0000
Use Area



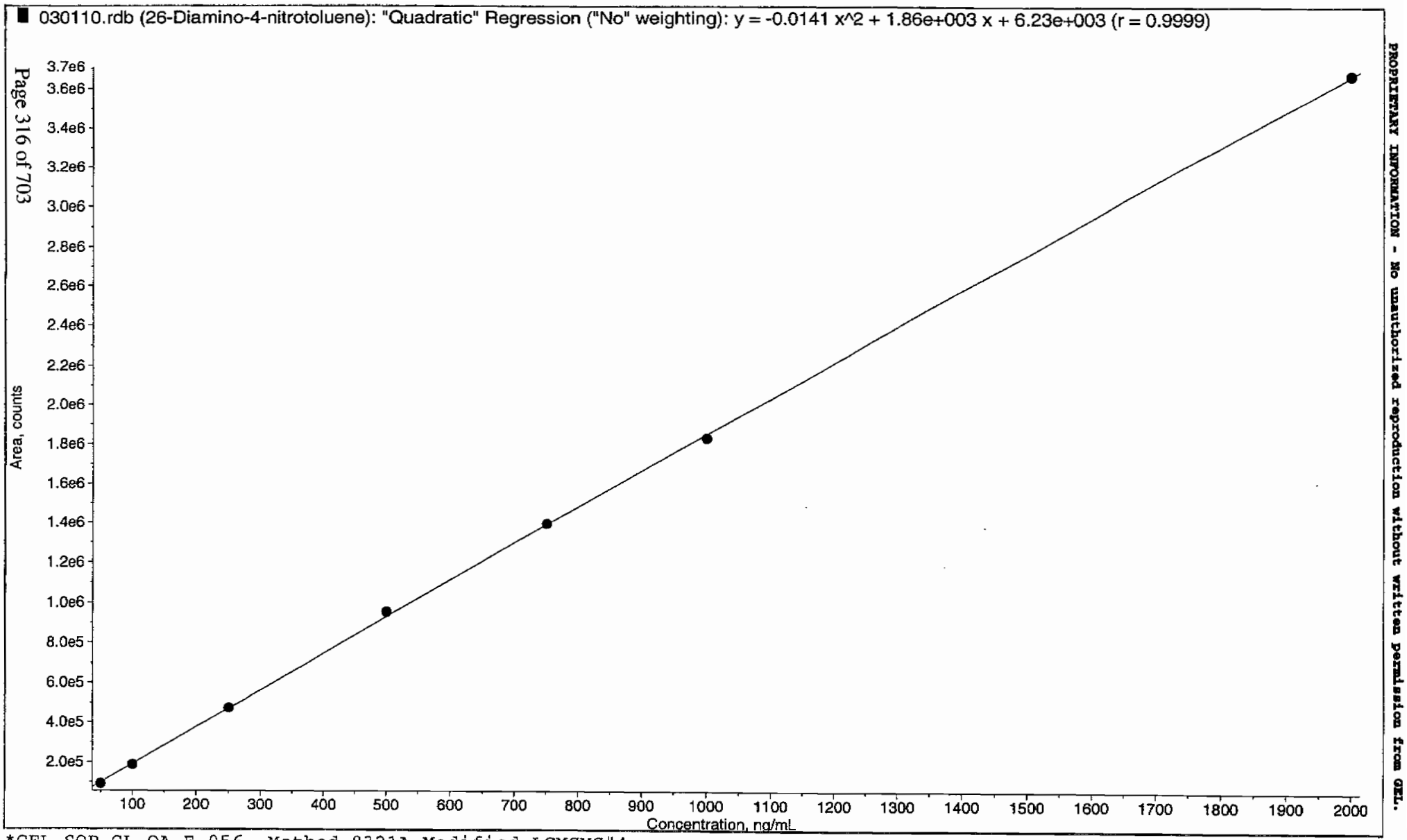
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



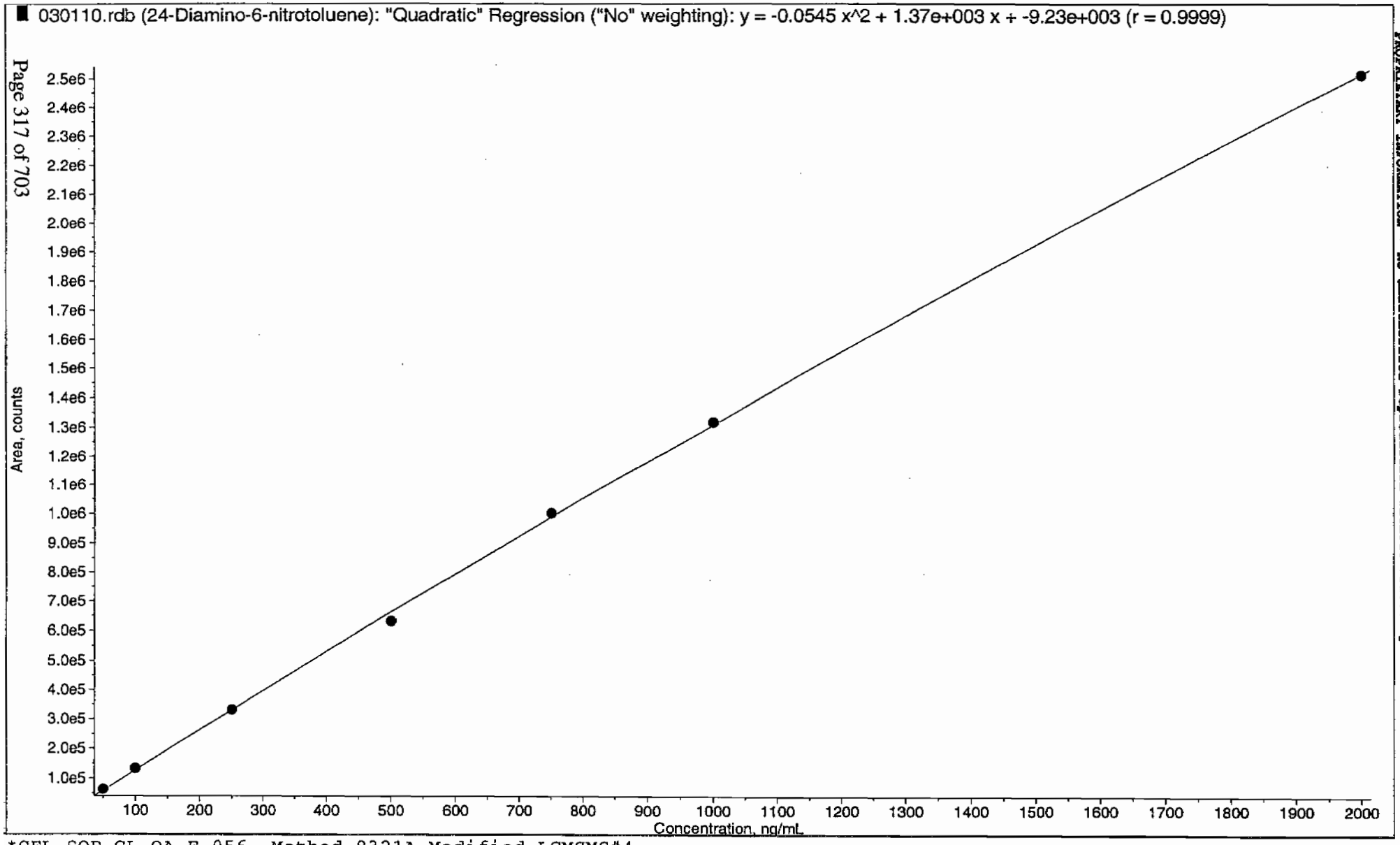
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



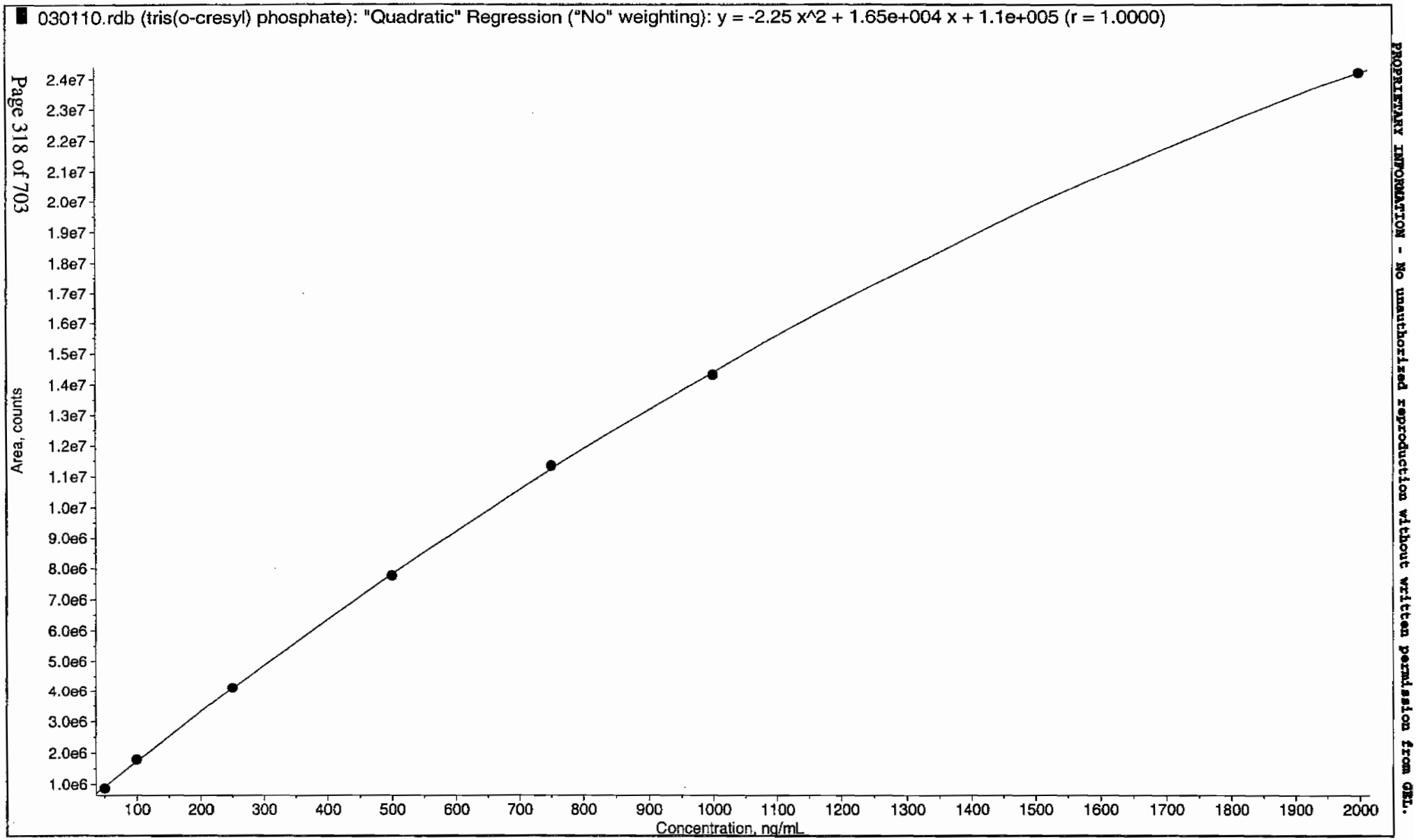
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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



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



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

7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03010011.wiff

Analysis Date: 01-MAR-10 11:40

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	503	101	
2,6-Diamino-4-nitrotoluene	500	483	97	
3,4-Dinitrotoluene	250	232	93	
3,5-Dinitroaniline	500	506	101	
TATB	500	495	99	
tris(o-cresyl) phosphate	500	480	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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

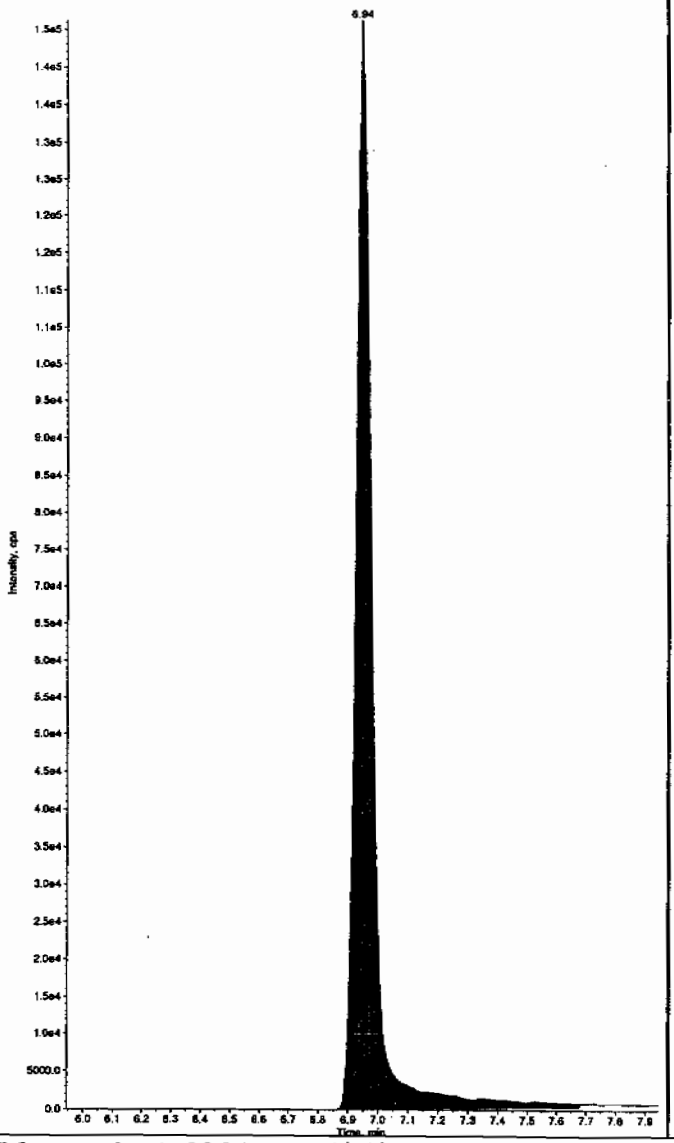
Lan 3/3/10

Sample Name: "WXX100301-26ICV" Sample ID: "[1]LER" File: "EXS03010011.wiff"
Peak Name: "TATB" Mass(as): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 495. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:40:26 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.94 min
Area: 5.91e+005 counts
Height: 146373.276 cps
Start Time: 6.85 min
End Time: 7.68 min

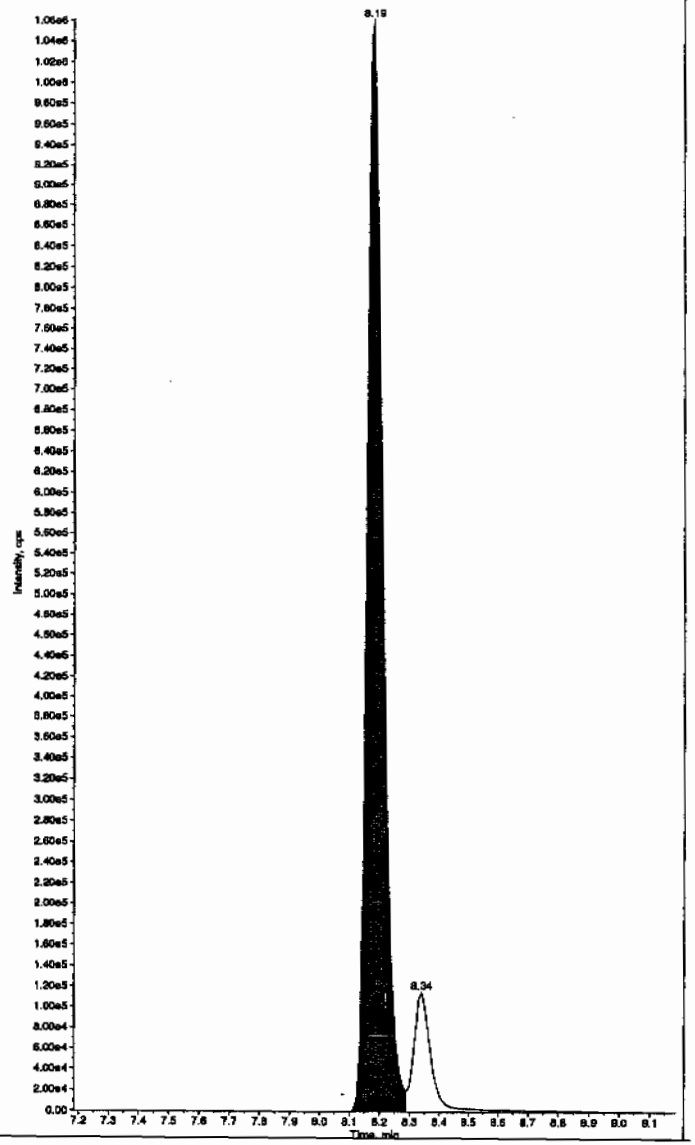


Sample Name: "WXX100301-26ICV" Sample ID: "[1]LER" File: "EXS03010011.wiff"
Peak Name: "35-Dinitroaniline" Mass(as): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 506. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:40:26 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: 8.19 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.19 min
Area: 3.96e+006 counts
Height: 1061462.891 cps
Start Time: 8.09 min
End Time: 8.29 min



Hnm 03/04/10

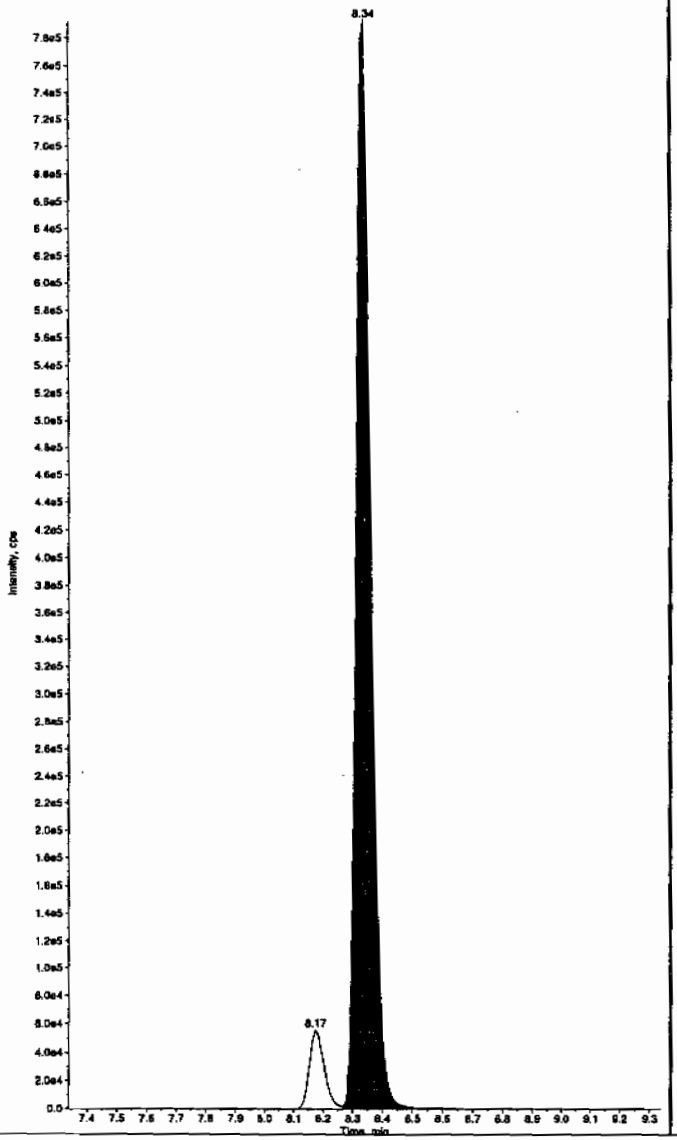
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-26ICV" Sample ID: "[1]LER" File: "EXS03010011.wiff"
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: 232. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:40:26 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.34 min
Area: 2.82e+006 counts
Height: 792388.123 cps
Start Time: 8.27 min
End Time: 8.67 min

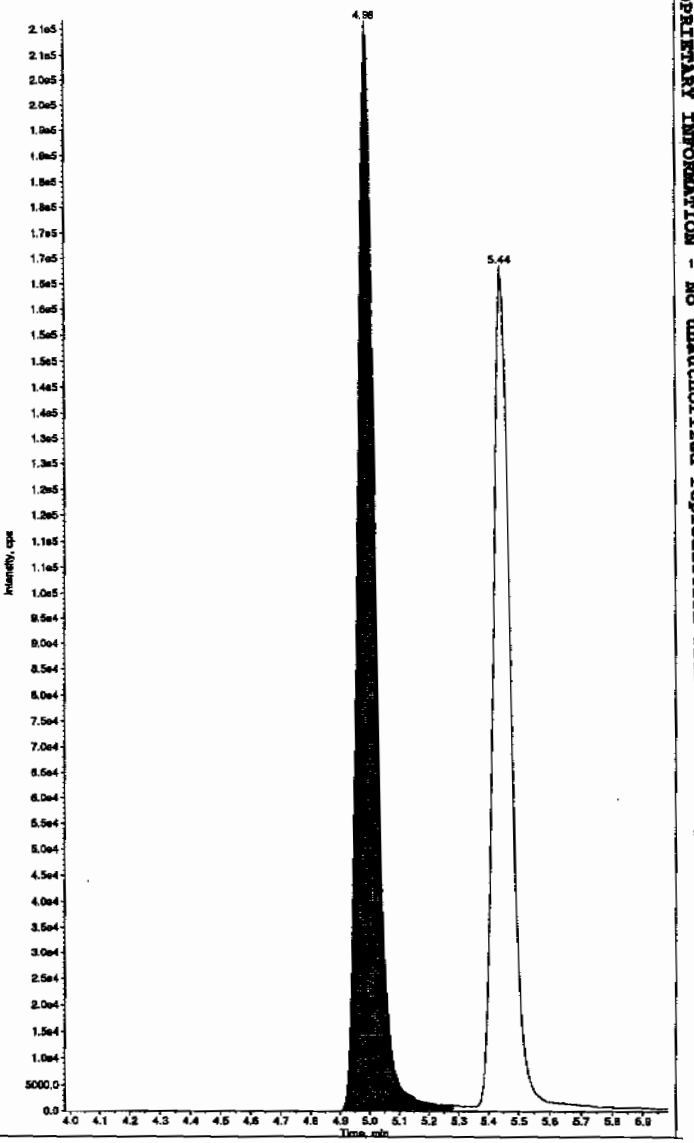


Sample Name: "WXX100301-26ICV" Sample ID: "[1]LER" File: "EXS03010011.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 483. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:40:26 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: 4.98 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.98 min
Area: 9.01e+005 counts
Height: 211703.171 cps
Start Time: 4.89 min
End Time: 5.28 min



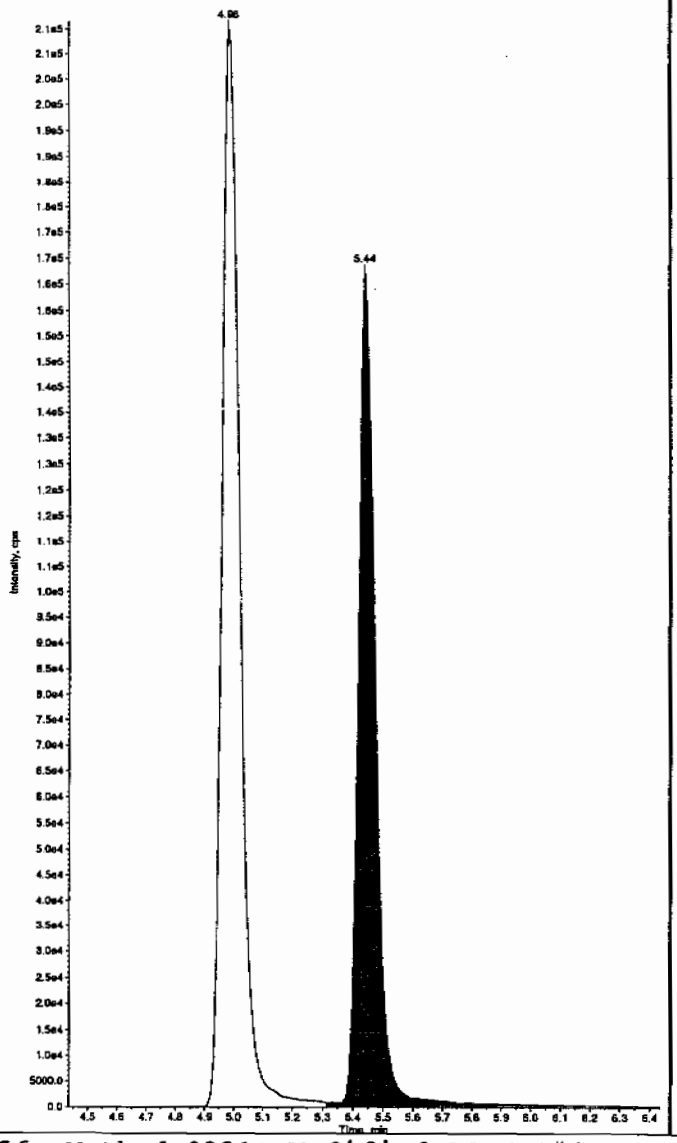
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-26ICV" Sample ID: "[1]LER" File: "EXS03010011.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 503. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:40:26 AM

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: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.44 min
Area: 6.63e+005 counts
Height: 163585.648 cps
Start Time: 5.31 min
End Time: 6.14 min

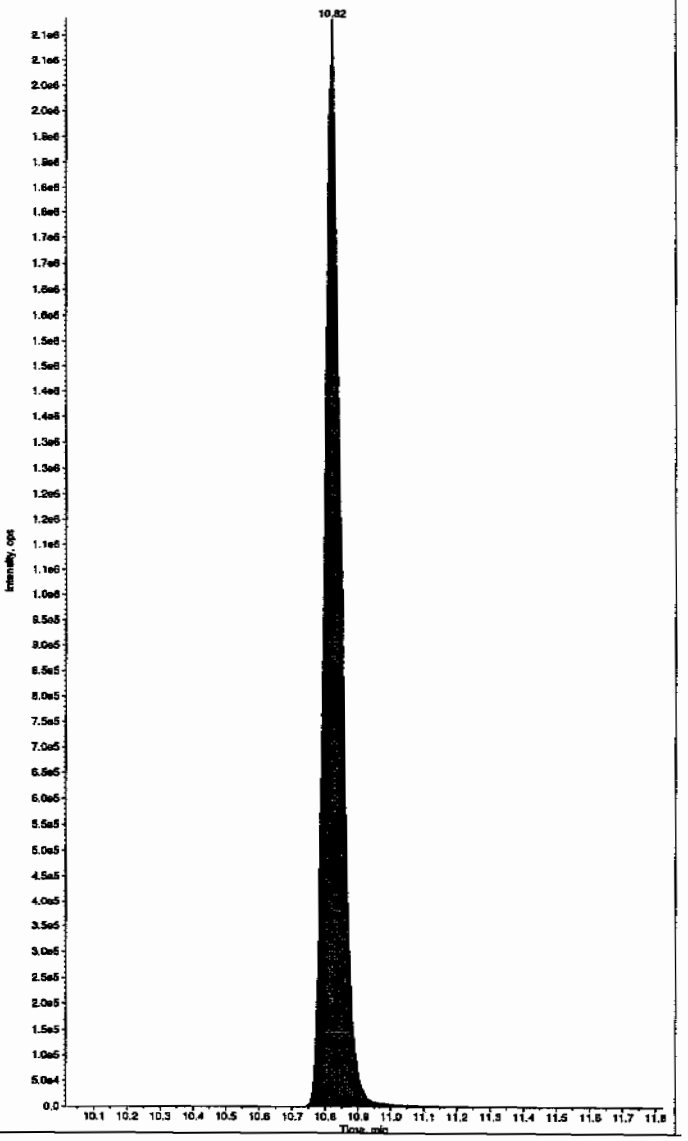


Sample Name: "WXX100301-26ICV" Sample ID: "[1]LER" File: "EXS03010011.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 480. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 11:40:26 AM

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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 7.53e+006 counts
Height: 2135354.004 cps
Start Time: 10.7 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0311012a

Analysis Date: 11-MAR-10 16:05

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	40	42.522	106	
2,6-Dinitrotoluene	40	39.765	99	
2,6-Dinitrotoluene-d3	500	504.886	101	
2-Amino-4,6-dinitrotoluene	40	40.066	100	
3,4-Dinitrotoluene	20	19.365	97	
4-Amino-2,6-dinitrotoluene	40	35.743	89	
HMX	40	43.838	110	
Nitrobenzene	40	41.253	103	
PETN	40	47.76	119	
RDX	40	40.059	100	
Tetryl	40	39.211	98	
m-Dinitrobenzene	40	42.747	107	
m-Nitrotoluene	40	49.905	125	
o-Nitrotoluene	40	45.128	113	
p-Nitrotoluene	40	47.006	118	
1,3,5-Trinitrobenzene	40	41.596	104	
1,3-Dinitrobenzene-d4	500	519.529	104	
2,4,6-Trinitrotoluene	40	41.706	104	

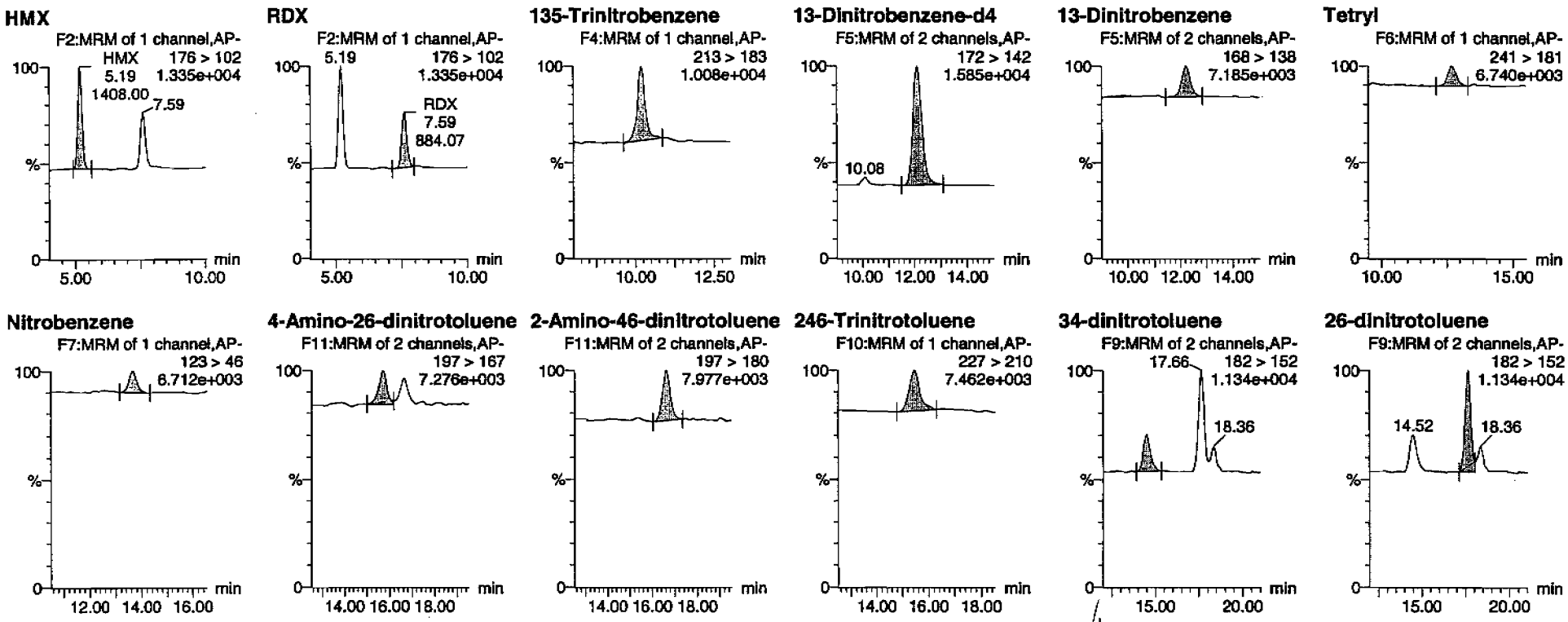
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311012a
Date: 11-Mar-2010
Time: 16:05:27
ID: WXX100311-08CRI
Vial: 1:1,C

MATP 3/12/10

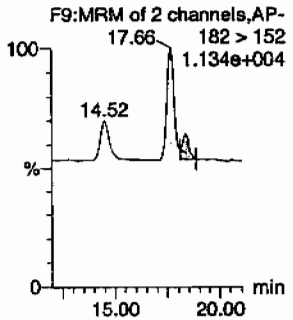


Amm 03/13/10

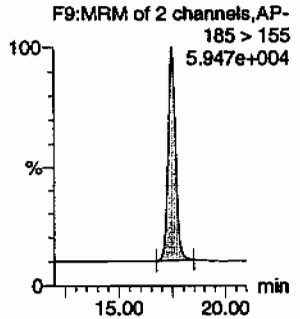
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

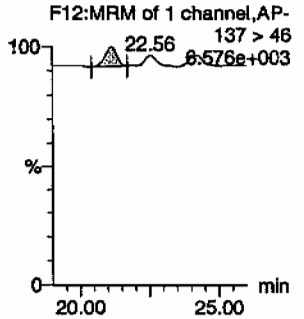
24-dinitrotoluene



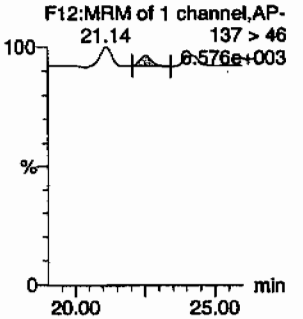
26-dinitrotoluene-d3



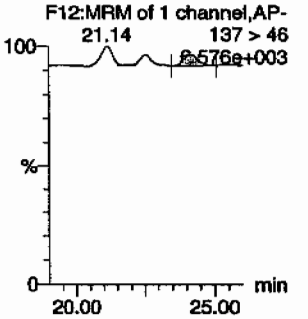
2-Nitrotoluene



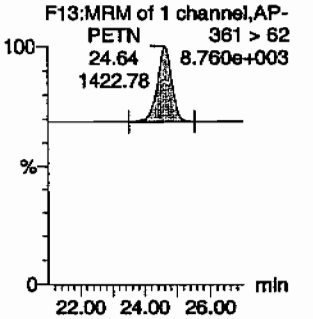
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100311-08CRI	HMX	176 > 102	5.19	1408.003	4010.892	1408.003	175.522	bb			43.8376	109.6	9.6	223.4
WXX100311-08CRI	RDX	176 > 102	7.59	884.070	4010.892	884.070	110.209	bb			40.0586	100.1	0.1	119.3
WXX100311-08CRI	135-Trinitrobenzene	213 > 183	10.20	1151.427	4010.892	1151.427	143.538	bb			41.5956	104.0	4.0	149.6
WXX100311-08CRI	13-Dinitrobenzene-d4	172 > 142	12.10	4010.892		4010.892	4010.892	bb			519.5286	103.9	3.9	622.4
WXX100311-08CRI	13-Dinitrobenzene	168 > 138	12.24	448.037	4010.892	448.037	55.853	bb			42.7467	106.9	6.9	71.1
WXX100311-08CRI	Tetryl	241 > 181	12.72	276.887	4010.892	276.887	34.517	bb			39.2110	98.0	-2.0	28.7
WXX100311-08CRI	Nitrobenzene	123 > 46	13.67	241.313	4010.892	241.313	30.082	bb			41.2533	103.1	3.1	17.8
WXX100311-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.71	500.869	22212.570	500.869	11.274	MM	12-Mar-10	13:16:33	35.7431	89.4	-10.6	30.3
WXX100311-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.63	778.348	22212.570	778.348	17.520	bb			40.0656	100.2	0.2	59.9
WXX100311-08CRI	246-Trinitrotoluene	227 > 210	15.45	673.659	22212.570	673.659	15.164	bb			41.7059	104.3	4.3	34.8
WXX100311-08CRI	34-dinitrotoluene	182 > 152	14.52	919.862	22212.570	919.862	20.706	bb			19.3649	96.8	-3.2	75.7
WXX100311-08CRI	26-dinitrotoluene	182 > 152	17.66	2066.839	22212.570	2066.839	46.524	MM	12-Mar-10	13:21:06	39.7652	99.4	-0.6	212.3
WXX100311-08CRI	24-dinitrotoluene	182 > 152	18.36	489.936	22212.570	489.936	11.028	MM	12-Mar-10	13:25:46	42.5223	106.3	6.3	50.5
WXX100311-08CRI	26-dinitrotoluene-d3	185 > 155	17.49	22212.570		22212.570	22212.570	bb			504.8861	101.0	1.0	1874.0
WXX100311-08CRI	2-Nitrotoluene	137 > 46	21.14	271.802	22212.570	271.802	6.118	bb			45.1283	112.8	12.8	47.4
WXX100311-08CRI	4-Nitrotoluene	137 > 46	22.56	140.507	22212.570	140.507	3.163	bb			47.0061	117.5	17.5	25.3
WXX100311-08CRI	3-Nitrotoluene	137 > 46	24.23	187.220	22212.570	187.220	4.214	bb			49.9053	124.8	24.8	26.3
WXX100311-08CRI	PETN	361 > 62	24.64	1422.783	22212.570	1422.783	32.027	bb			47.7601	119.4	19.4	276.4

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	03/11/10
Time of Injection	1605
Standard Number	WXX100311-08CRI
Data File	EXP0311012a

HMX		109.6
RDX		100.1
135-TNB		104.0
13-DNB		106.9
Tetryl		98.0
Nitrobenzene		103.1
4A-26-DNT		89.4
2A-46-DNT		100.2
246-TNT		104.3
34-DNT(surr)		96.8
26-DNT		99.4
24-DNT		106.3
2-NT		112.8
4-NT		117.5
3-NT		124.8
PETN		119.4
Total		1692.6
Average		105.8

MAT 3/12/10

HMW 03/12/10

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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0311023a

Analysis Date: 11-MAR-10 21:32

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	618.944	103	
1,3-Dinitrobenzene-d4	500	502.581	101	
2,4,6-Trinitrotoluene	600	699.285	117	
2,4-Dinitrotoluene	600	625.901	104	
2,6-Dinitrotoluene	600	595.752	99	
2,6-Dinitrotoluene-d3	500	551.669	110	
2-Amino-4,6-dinitrotoluene	600	673.419	112	
3,4-Dinitrotoluene	300	256.112	85	
4-Amino-2,6-dinitrotoluene	600	642.58	107	
HMX	600	563.244	94	
Nitrobenzene	600	597.022	100	
PETN	600	549.734	92	
RDX	600	681.502	114	
Tetryl	600	660.593	110	
m-Dinitrobenzene	600	632.81	105	
m-Nitrotoluene	600	548.504	91	
o-Nitrotoluene	600	686.862	114	
p-Nitrotoluene	600	664.566	111	

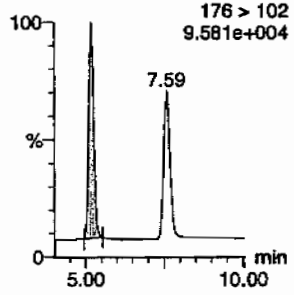
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

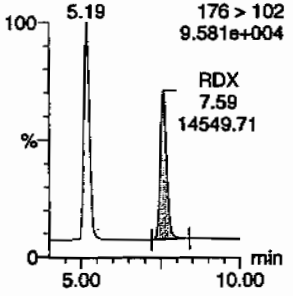
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311023a
Date: 11-Mar-2010
Time: 21:32:50
ID: WXX100311-07CCV
Vial: 1:1,B

MMP 3/12/10

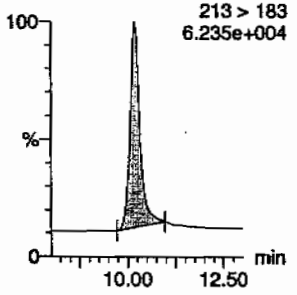
HMX
F2:MRM of 1 channel,AP-
176 > 102
9.581e+004



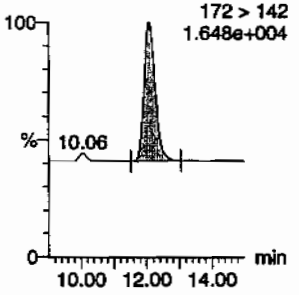
RDX
F2:MRM of 1 channel,AP-
5.19
176 > 102
9.581e+004



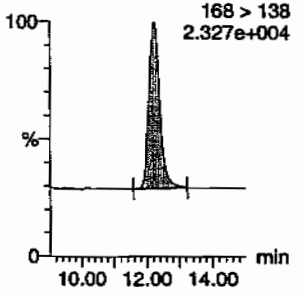
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
6.235e+004



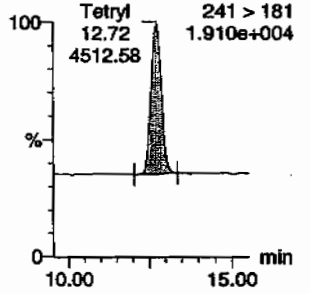
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.648e+004



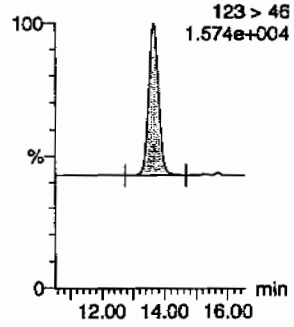
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
2.327e+004



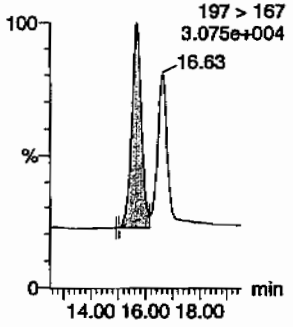
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
1.910e+004



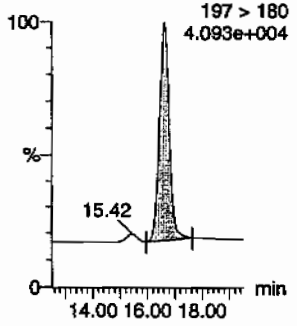
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
1.574e+004



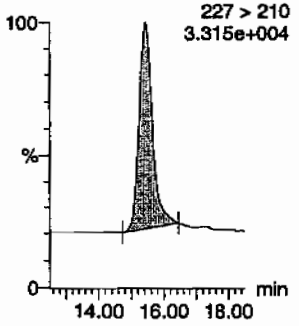
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
3.075e+004



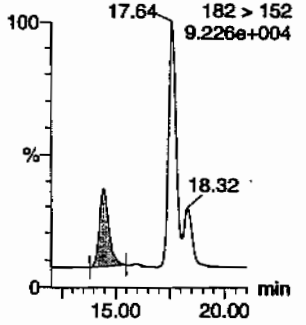
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
4.093e+004



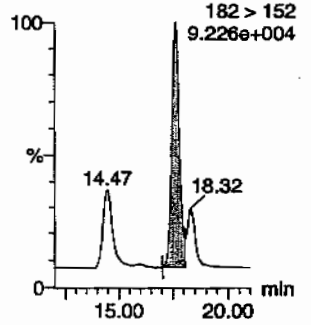
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
3.315e+004



34-dinitrotoluene
F9:MRM of 2 channels,AP-
17.64
182 > 152
9.226e+004



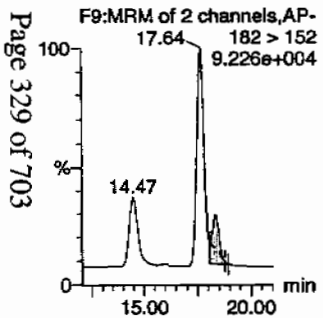
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
9.226e+004



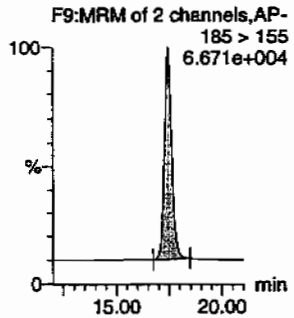
MMC 03/10/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

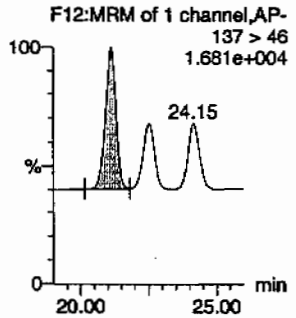
24-dinitrotoluene



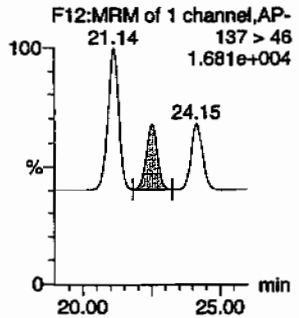
26-dinitrotoluene-d3



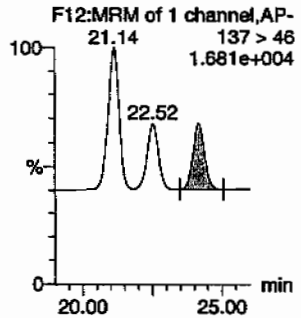
2-Nitrotoluene



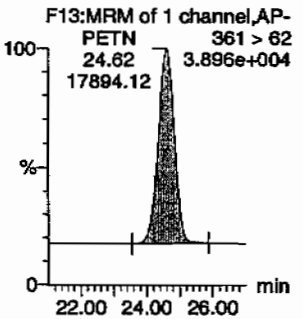
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	RArea	ISArea	AbsResp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
WXX100311-07CCV	HMX	176 > 102	5.19	17500.467	3880.049	17500.467	2255.186	bb			563.2438	93.9	-6.1	1353.2
WXX100311-07CCV	RDX	176 > 102	7.59	14549.705	3880.049	14549.705	1874.938	bb			681.5023	113.6	13.6	928.7
WXX100311-07CCV	135-Trinitrobenzene	213 > 183	10.18	16574.363	3880.049	16574.363	2135.845	bb			618.9441	103.2	3.2	925.1
WXX100311-07CCV	13-Dinitrobenzene-d4	172 > 142	12.10	3880.049		3880.049	3880.049	bb			502.5806	100.5	0.5	545.9
WXX100311-07CCV	13-Dinitrobenzene	168 > 138	12.24	6416.244	3880.049	6416.244	826.825	bb			632.8099	105.5	5.5	802.2
WXX100311-07CCV	Tetryl	241 > 181	12.72	4512.580	3880.049	4512.580	581.511	bb			660.5929	110.1	10.1	413.1
WXX100311-07CCV	Nitrobenzene	123 > 46	13.67	3378.382	3880.049	3378.382	435.353	bb			597.0224	99.5	-0.5	457.3
WXX100311-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.68	9838.845	24270.777	9838.845	202.689	MM	12-Mar-10	13:17:20	642.5796	107.1	7.1	372.9
WXX100311-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.63	14294.618	24270.777	14294.618	294.482	bb			673.4189	112.2	12.2	1123.8
WXX100311-07CCV	246-Trinitrotoluene	227 > 210	15.45	12341.890	24270.777	12341.890	254.254	bb			699.2846	116.5	16.5	644.0
WXX100311-07CCV	34-dinitrotoluene	182 > 152	14.47	13292.972	24270.777	13292.972	273.847	bb			256.1122	85.4	-14.6	703.6
WXX100311-07CCV	26-dinitrotoluene	182 > 152	17.64	33833.996	24270.777	33833.996	697.011	MM	12-Mar-10	13:21:56	595.7517	99.3	-0.7	2202.3
WXX100311-07CCV	24-dinitrotoluene	182 > 152	18.32	7879.760	24270.777	7879.760	162.330	MM	12-Mar-10	13:26:32	625.9008	104.3	4.3	498.9
WXX100311-07CCV	26-dinitrotoluene-d3	185 > 155	17.47	24270.777		24270.777	24270.777	bb			551.6686	110.3	10.3	2681.4
WXX100311-07CCV	2-Nitrotoluene	137 > 46	21.14	4520.205	24270.777	4520.205	93.120	bb			686.8624	114.5	14.5	809.2
WXX100311-07CCV	4-Nitrotoluene	137 > 46	22.52	2170.534	24270.777	2170.534	44.715	bb			664.5657	110.8	10.8	371.9
WXX100311-07CCV	3-Nitrotoluene	137 > 46	24.15	2248.379	24270.777	2248.379	46.319	bb			548.5036	91.4	-8.6	375.4
WXX100311-07CCV	PETN	361 > 62	24.62	17894.121	24270.777	17894.121	368.635	bb			549.7339	91.6	-8.4	2093.8

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 03/11/10
Time of Injection: 2132
Standard Number: WXX100311-07CCV
Data File: EXP0311023a

HMX		93.9
RDX		113.6
135-TNB		103.2
13-DNB		105.5
Tetryl		110.1
Nitrobenzene		99.5
4A-26-DNT		107.1
2A-46-DNT		112.2
246-TNT		116.5
34-DNT(surr)		85.4
26-DNT		99.3
24-DNT		104.3
2-NT		114.5
4-NT		110.8
3-NT		91.4
PETN		91.6
Total		1658.9
Average		103.7

MAP 3/12/10

Hmc 03/13/10

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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0311025a

Analysis Date: 11-MAR-10 22:31

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	40	39.28	98	
m-Nitrotoluene	40	44.464	111	
o-Nitrotoluene	40	45.982	115	
p-Nitrotoluene	40	37.164	93	
1,3,5-Trinitrobenzene	40	45.234	113	
1,3-Dinitrobenzene-d4	500	495.314	99	
2,4,6-Trinitrotoluene	40	41.515	104	
2,4-Dinitrotoluene	40	37.87	95	
2,6-Dinitrotoluene	40	38.538	96	
2,6-Dinitrotoluene-d3	500	510.255	102	
2-Amino-4,6-dinitrotoluene	40	42.736	107	
3,4-Dinitrotoluene	20	20.96	105	
4-Amino-2,6-dinitrotoluene	40	48.817	122	
HMX	40	45.284	113	
Nitrobenzene	40	50.267	126	
PETN	40	54.381	136	*
RDX	40	39.929	100	
Tetryl	40	45.173	113	

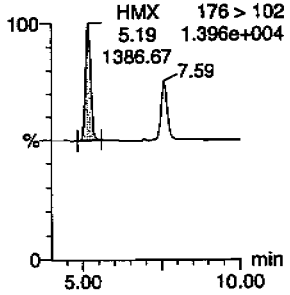
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

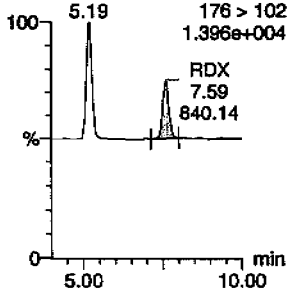
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311025a
Date: 11-Mar-2010
Time: 22:31:55
ID: WXX100311-08CRI
Vial: 1:1,C

MM 3/12/10

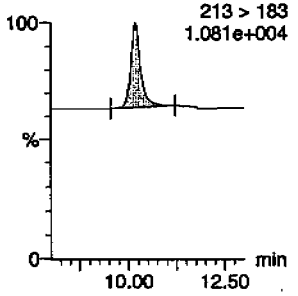
HMX
F2:MRM of 1 channel,AP-
HMX 176 > 102
5.19 1.396e+004
1386.67
7.59



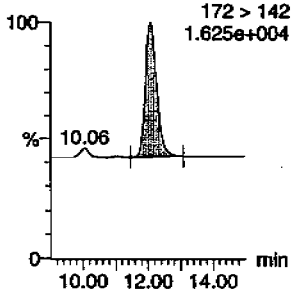
RDX
F2:MRM of 1 channel,AP-
5.19 176 > 102
1.396e+004
RDX
7.59
840.14



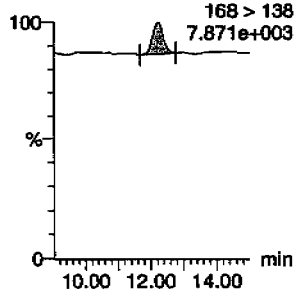
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
1.081e+004



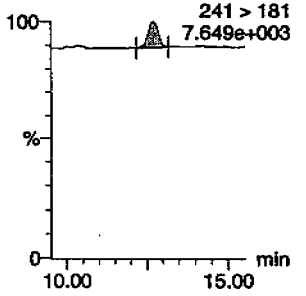
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.625e+004



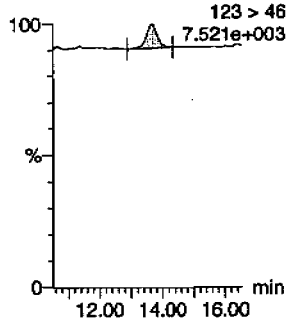
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
7.871e+003



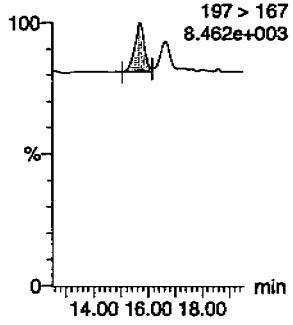
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
7.649e+003



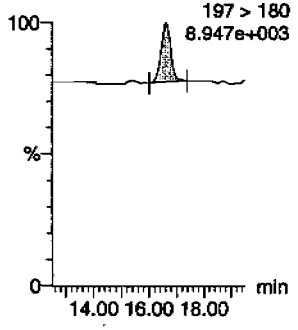
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
7.521e+003



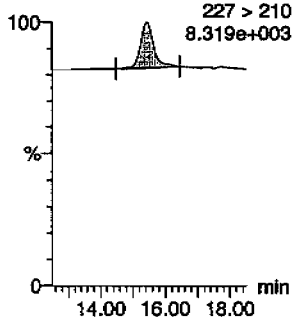
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
8.462e+003



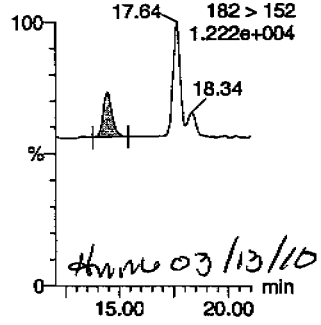
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
8.947e+003



246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
8.319e+003

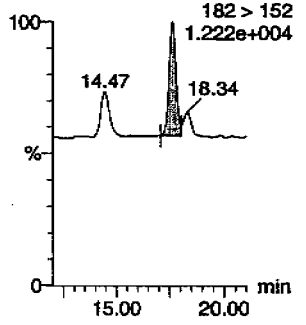


34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
1.222e+004
17.64
18.34



HMM 03/13/10

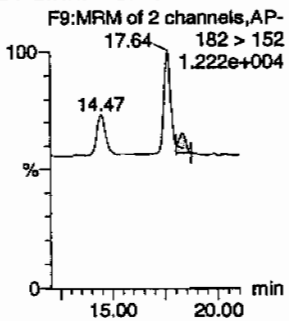
26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
1.222e+004
14.47
18.34



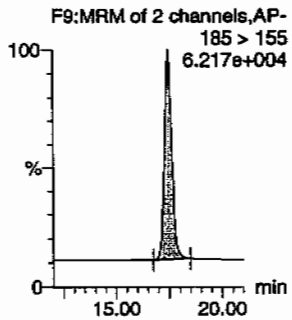
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

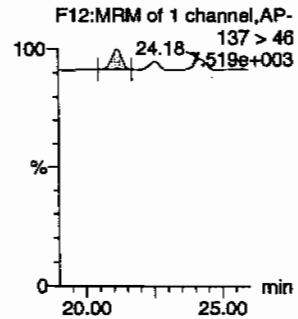
24-dinitrotoluene



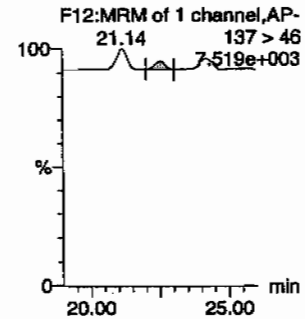
26-dinitrotoluene-d3



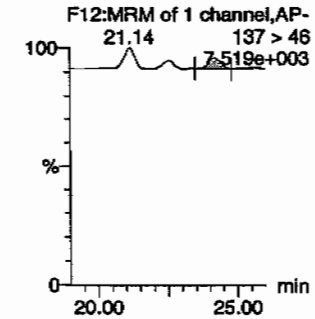
2-Nitrotoluene



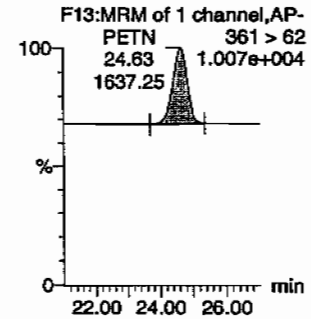
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	IntArea	IS Area	%Abs Resp	Response	Flags	Mod Date	Mod Time	ug/mL	%Rec	%Dev	S/N
WXX100311-08CRI	HMX	176 > 102	5.19	1386.669	3823.948	1386.669	181.314	bb			45.2840	113.2	13.2	211.5
WXX100311-08CRI	RDX	176 > 102	7.59	840.139	3823.948	840.139	109.852	bb			39.9291	99.8	-0.2	106.9
WXX100311-08CRI	135-Trinitrobenzene	213 > 183	10.18	1193.793	3823.948	1193.793	156.094	bb			45.2344	113.1	13.1	153.4
WXX100311-08CRI	13-Dinitrobenzene-d4	172 > 142	12.10	3823.948		3823.948	3823.948	bb			495.3139	99.1	-0.9	242.1
WXX100311-08CRI	13-Dinitrobenzene	168 > 138	12.24	392.512	3823.948	392.512	51.323	bb			39.2799	98.2	-1.8	38.8
WXX100311-08CRI	Tetryl	241 > 181	12.72	304.121	3823.948	304.121	39.765	bb			45.1732	112.9	12.9	36.0
WXX100311-08CRI	Nitrobenzene	123 > 46	13.63	280.334	3823.948	280.334	36.655	bb			50.2670	125.7	25.7	15.2
WXX100311-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.71	691.349	22448.762	691.349	15.398	MM	12-Mar-10	13:17:28	48.8170	122.0	22.0	33.4
WXX100311-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.63	839.045	22448.762	839.045	18.688	bb			42.7356	106.8	6.8	41.6
WXX100311-08CRI	246-Trinitrotoluene	227 > 210	15.45	677.699	22448.762	677.699	15.094	bb			41.5146	103.8	3.8	70.7
WXX100311-08CRI	34-dinitrotoluene	182 > 152	14.47	1006.194	22448.762	1006.194	22.411	bb			20.9595	104.8	4.8	36.7
WXX100311-08CRI	26-dinitrotoluene	182 > 152	17.64	2024.365	22448.762	2024.365	45.089	MM	12-Mar-10	13:22:17	38.5383	96.3	-3.7	93.1
WXX100311-08CRI	24-dinitrotoluene	182 > 152	18.34	440.971	22448.762	440.971	9.822	MM	12-Mar-10	13:26:41	37.8699	94.7	-5.3	18.8
WXX100311-08CRI	26-dinitrotoluene-d3	185 > 155	17.47	22448.762		22448.762	22448.762	bb			510.2547	102.1	2.1	2264.3
WXX100311-08CRI	2-Nitrotoluene	137 > 46	21.14	279.890	22448.762	279.890	6.234	bb			45.9823	115.0	15.0	30.6
WXX100311-08CRI	4-Nitrotoluene	137 > 46	22.56	112.269	22448.762	112.269	2.501	bb			37.1640	92.9	-7.1	11.7
WXX100311-08CRI	3-Nitrotoluene	137 > 46	24.18	168.580	22448.762	168.580	3.755	bb			44.4639	111.2	11.2	15.7
WXX100311-08CRI	PETN	361 > 62	24.63	1637.248	22448.762	1637.248	36.466	bb			54.3811	136.0	36.0	601.4

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	03/11/10
Time of Injection	2231
Standard Number	WXX100311-08CRI
Data File	EXP0311025a

HMX	113.2
RDX	99.8
135-TNB	113.1
13-DNB	98.2
Tetryl	112.9
Nitrobenzene	125.7
4A-26-DNT	122.0
2A-46-DNT	106.8
246-TNT	103.8
34-DNT(surr)	104.8
26-DNT	96.3
24-DNT	94.7
2-NT	115.0
4-NT	92.9
3-NT	111.2
PETN	136.0
Total	1746.4
Average	109.2

LMT 3/12/10

HMM 03/13/10

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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312012a

Analysis Date: 12-MAR-10 21:30

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	45.799	114	
1,3-Dinitrobenzene-d4	500	547.071	109	
2,4,6-Trinitrotoluene	40	36.476	91	
2,4-Dinitrotoluene	40	35.483	89	
2,6-Dinitrotoluene	40	40.439	101	
2,6-Dinitrotoluene-d3	500	561.726	112	
2-Amino-4,6-dinitrotoluene	40	32.031	80	
3,4-Dinitrotoluene	20	18.407	92	
4-Amino-2,6-dinitrotoluene	40	35.806	90	
HMX	40	46.688	117	
Nitrobenzene	40	57.342	143	*
PETN	40	30.08	75	
RDX	40	46.627	117	
Tetryl	40	49.542	124	
m-Dinitrobenzene	40	36.677	92	
m-Nitrotoluene	40	49.051	123	
o-Nitrotoluene	40	43.65	109	
p-Nitrotoluene	40	50.834	127	

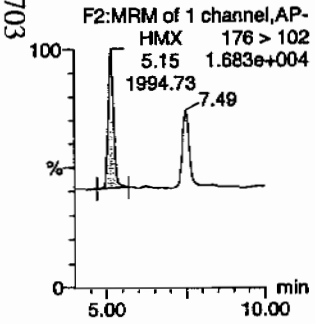
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

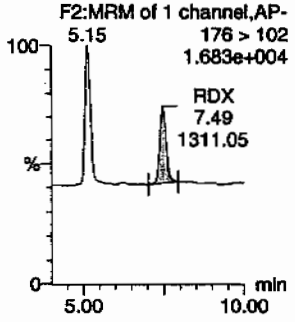
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312012a
Date: 12-Mar-2010
Time: 21:30:25
ID: WXX100312-08CRI
Vial: 1:1,C

MM 3/13/10

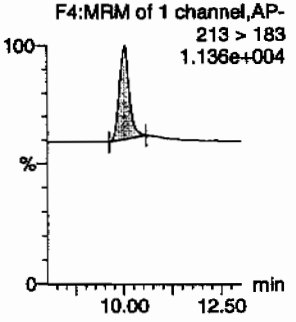
HMX



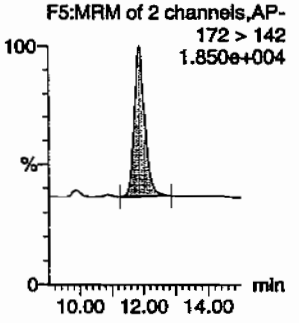
RDX



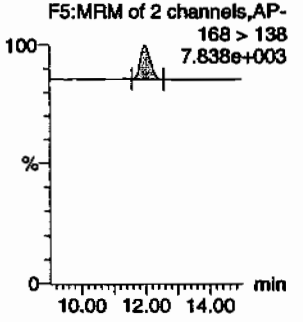
135-Trinitrobenzene



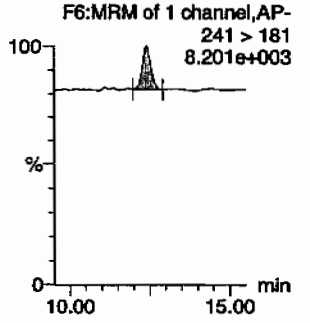
13-Dinitrobenzene-d4



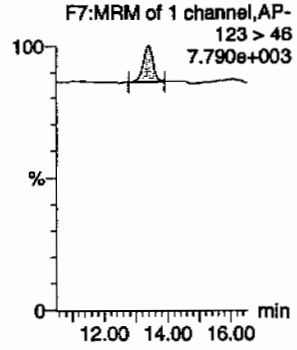
13-Dinitrobenzene



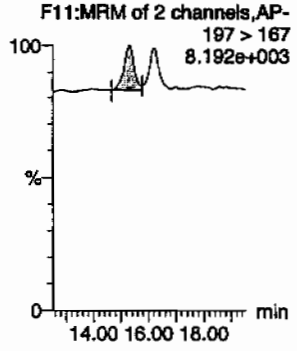
Tetryl



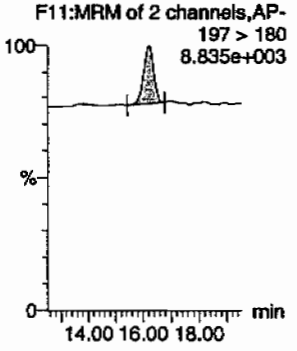
Nitrobenzene



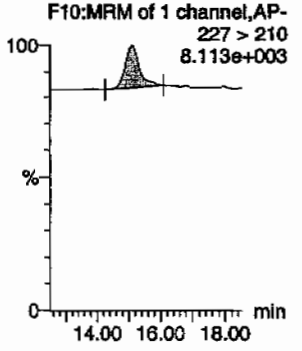
4-Amino-26-dinitrotoluene



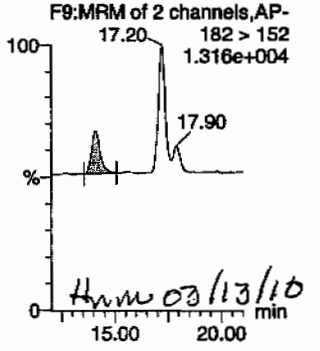
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

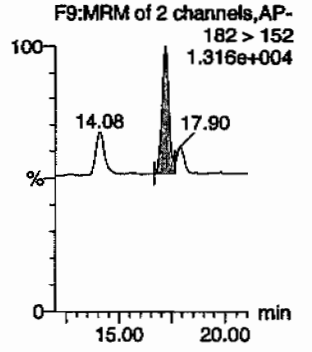


34-dinitrotoluene



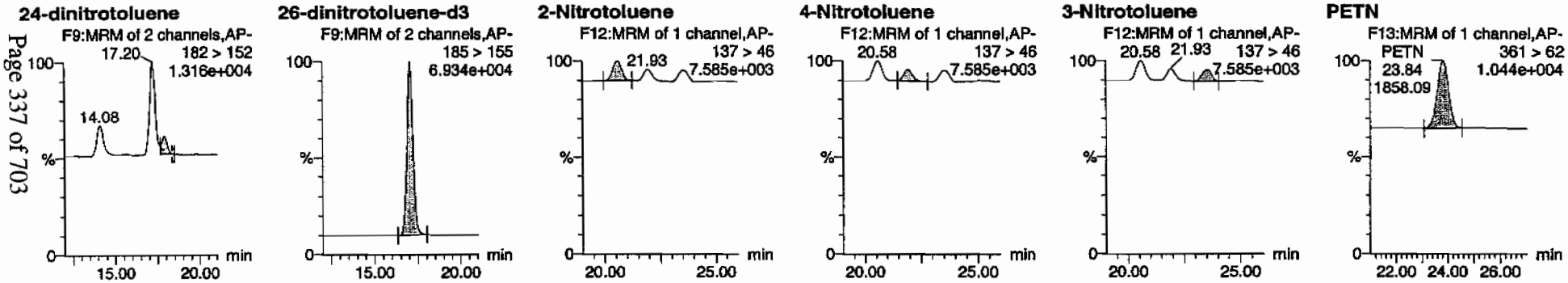
HMM 03/13/10

26-dinitrotoluene



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

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100312-08CRI	HMX	176 > 102	5.15	1994.729	4460.583	1994.729	223.595	bb			46.6875	116.7	16.7	237.2
WXX100312-08CRI	RDX	176 > 102	7.49	1311.053	4460.583	1311.053	146.960	bb			46.6268	116.6	16.6	132.0
WXX100312-08CRI	135-Trinitrobenzene	213 > 183	10.04	1366.854	4460.583	1366.854	153.215	bb			45.7994	114.5	14.5	53.9
WXX100312-08CRI	13-Dinitrobenzene-d4	172 > 142	11.87	4460.583		4460.583	4460.583	bb			547.0714	109.4	9.4	490.6
WXX100312-08CRI	13-Dinitrobenzene	168 > 138	11.97	394.236	4460.583	394.236	44.191	bb			36.6768	91.7	-8.3	55.7
WXX100312-08CRI	Tetryl	241 > 181	12.42	456.842	4460.583	456.842	51.209	bb			49.5416	123.9	23.9	34.1
WXX100312-08CRI	Nitrobenzene	123 > 46	13.41	386.449	4460.583	386.449	43.318	bb			57.3415	143.4	43.4	51.4
WXX100312-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.32	637.897	25598.588	637.897	12.460	MM	13-Mar-10	08:34:31	35.8057	89.5	-10.5	23.1
WXX100312-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.22	850.819	25598.588	850.819	16.618	bb			32.0311	80.1	-19.9	55.7
WXX100312-08CRI	246-Trinitrotoluene	227 > 210	15.10	688.149	25598.588	688.149	13.441	bb			36.4762	91.2	-8.8	45.0
WXX100312-08CRI	34-dinitrotoluene	182 > 152	14.08	962.240	25598.588	962.240	18.795	bb			18.4072	92.0	-8.0	84.3
WXX100312-08CRI	26-dinitrotoluene	182 > 152	17.20	2398.158	25598.588	2398.158	46.842	MM	13-Mar-10	08:36:59	40.4386	101.1	1.1	257.4
WXX100312-08CRI	24-dinitrotoluene	182 > 152	17.90	483.426	25598.588	483.426	9.442	MM	13-Mar-10	08:39:12	35.4833	88.7	-11.3	50.3
WXX100312-08CRI	26-dinitrotoluene-d3	185 > 155	17.05	25598.588		25598.588	25598.588	bb			561.7262	112.3	12.3	1835.9
WXX100312-08CRI	2-Nitrotoluene	137 > 46	20.58	360.850	25598.588	360.850	7.048	bb			43.6495	109.1	9.1	59.5
WXX100312-08CRI	4-Nitrotoluene	137 > 46	21.93	198.470	25598.588	198.470	3.877	bb			50.8335	127.1	27.1	34.3
WXX100312-08CRI	3-Nitrotoluene	137 > 46	23.56	228.846	25598.588	228.846	4.470	bb			49.0511	122.6	22.6	34.9
WXX100312-08CRI	PETN	361 > 62	23.84	1858.090	25598.588	1858.090	36.293	bb			30.0799	75.2	-24.8	288.6

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	03/12/10
Time of Injection	2130
Standard Number	WXX100312-08CRI
Data File	EXP0312012a

HMX	116.7
RDX	116.6
135-TNB	114.5
13-DNB	91.7
Tetryl	123.9
Nitrobenzene	143.4
4A-26-DNT	89.5
2A-46-DNT	80.1
246-TNT	91.2
34-DNT(surr)	92.0
26-DNT	101.1
24-DNT	88.7
2-NT	109.1
4-NT	127.1
3-NT	122.6
PETN	75.2
Total	1683.4
Average	105.2

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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0312023a

Analysis Date: 13-MAR-10 02:54

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	622.996	104	
2,6-Dinitrotoluene	600	608.385	101	
2,6-Dinitrotoluene-d3	500	422.845	85	
2-Amino-4,6-dinitrotoluene	600	636.175	106	
3,4-Dinitrotoluene	300	326.602	109	
4-Amino-2,6-dinitrotoluene	600	624.512	104	
HMX	600	764.688	127	*
Nitrobenzene	600	644.903	107	
PETN	600	840.152	140	*
RDX	600	681.544	114	
Tetryl	600	665.305	111	
m-Dinitrobenzene	600	626.313	104	
m-Nitrotoluene	600	627.508	105	
o-Nitrotoluene	600	639.724	107	
p-Nitrotoluene	600	721.15	120	*
1,3,5-Trinitrobenzene	600	618.532	103	
1,3-Dinitrobenzene-d4	500	421.958	84	
2,4,6-Trinitrotoluene	600	678.687	113	

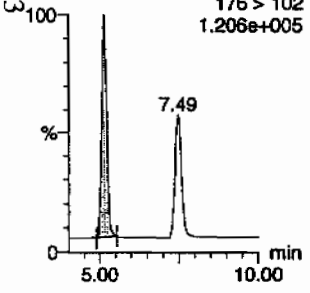
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

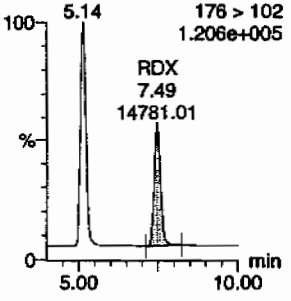
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312023a
Date: 13-Mar-2010
Time: 02:54:45
ID: WXX100312-07CCV
Vial: 1:1,B

MATT 3/13/10

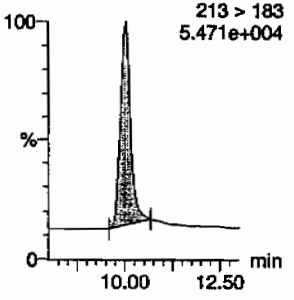
HMX
F2:MRM of 1 channel,AP-
176 > 102
1.206e+005



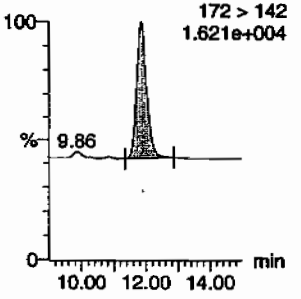
RDX
F2:MRM of 1 channel,AP-
176 > 102
1.206e+005



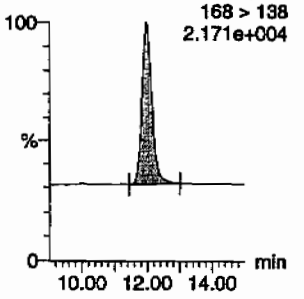
135-Trinitrobenzene
F4:MRM of 1 channel,AP-
213 > 183
5.471e+004



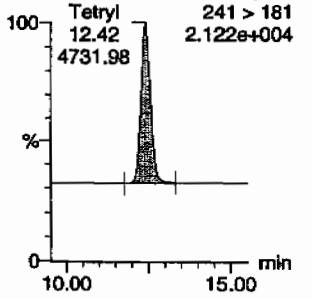
13-Dinitrobenzene-d4
F5:MRM of 2 channels,AP-
172 > 142
1.621e+004



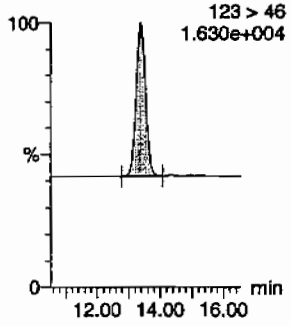
13-Dinitrobenzene
F5:MRM of 2 channels,AP-
168 > 138
2.171e+004



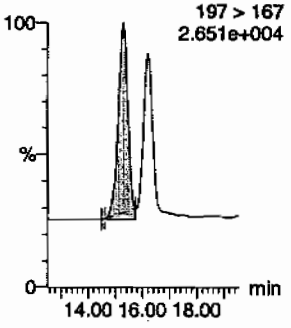
Tetryl
F6:MRM of 1 channel,AP-
241 > 181
2.122e+004



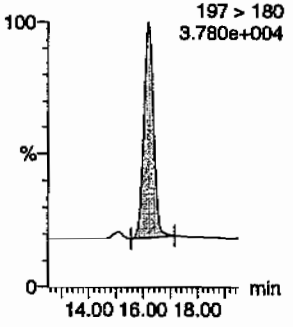
Nitrobenzene
F7:MRM of 1 channel,AP-
123 > 46
1.630e+004



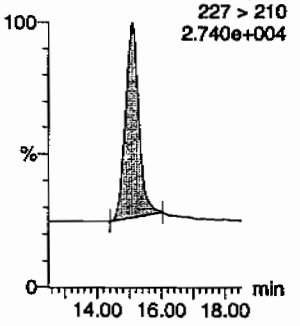
4-Amino-26-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 167
2.651e+004



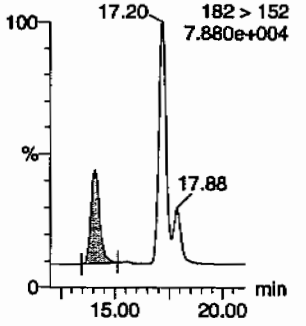
2-Amino-46-dinitrotoluene
F11:MRM of 2 channels,AP-
197 > 180
3.780e+004



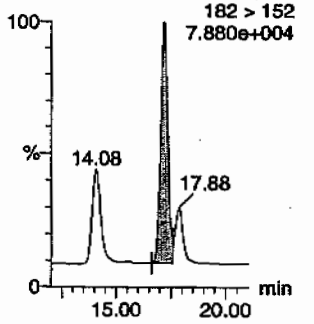
246-Trinitrotoluene
F10:MRM of 1 channel,AP-
227 > 210
2.740e+004



34-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.880e+004



26-dinitrotoluene
F9:MRM of 2 channels,AP-
182 > 152
7.880e+004

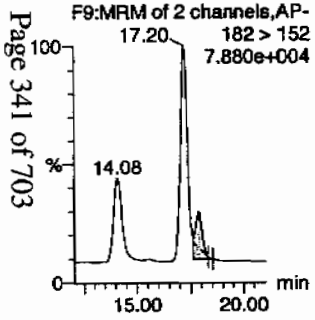


HMW 03/13/10

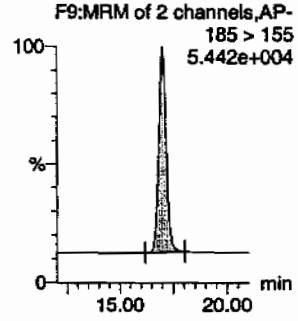
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

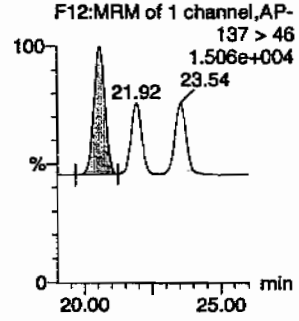
24-dinitrotoluene



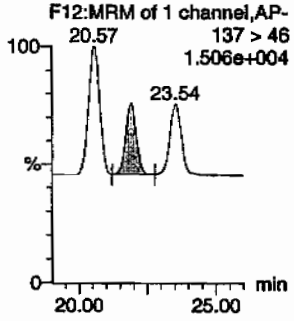
26-dinitrotoluene-d3



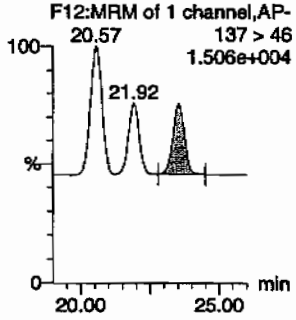
2-Nitrotoluene



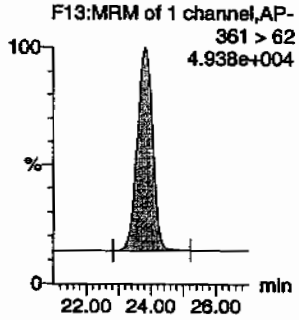
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	mg/ml	%Rec	%Dev	S/N
WXX100312-07CCV	HMX	176 > 102	5.14	22436.828	3440.466	22436.828	3260.725	bb			764.6882	127.4	27.4	4236.5
WXX100312-07CCV	RDX	176 > 102	7.49	14781.006	3440.466	14781.006	2148.111	bb			681.5442	113.6	13.6	2341.8
WXX100312-07CCV	135-Trinitrobenzene	213 > 183	10.04	14238.045	3440.466	14238.045	2069.203	bb			618.5316	103.1	3.1	978.4
WXX100312-07CCV	13-Dinitrobenzene-d4	172 > 142	11.87	3440.466		3440.466	3440.466	bb			421.9584	84.4	-15.6	236.1
WXX100312-07CCV	13-Dinitrobenzene	168 > 138	11.97	5192.569	3440.466	5192.569	754.632	bb			626.3132	104.4	4.4	447.0
WXX100312-07CCV	Tetryl	241 > 181	12.42	4731.980	3440.466	4731.980	687.695	bb			665.3053	110.9	10.9	335.8
WXX100312-07CCV	Nitrobenzene	123 > 46	13.37	3352.302	3440.466	3352.302	487.187	bb			644.9031	107.5	7.5	265.0
WXX100312-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.29	8375.213	19269.600	8375.213	217.317	MM	13-Mar-10	08:34:54	624.5121	104.1	4.1	293.9
WXX100312-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.19	12720.319	19269.600	12720.319	330.062	bb			636.1750	106.0	6.0	625.1
WXX100312-07CCV	246-Trinitrotoluene	227 > 210	15.07	9638.264	19269.600	9638.264	250.090	bb			678.6873	113.1	13.1	898.9
WXX100312-07CCV	34-dinitrotoluene	182 > 152	14.08	12851.990	19269.600	12851.990	333.478	bb			326.6019	108.9	8.9	514.6
WXX100312-07CCV	26-dinitrotoluene	182 > 152	17.20	27159.211	19269.600	27159.211	704.717	MM	13-Mar-10	08:37:13	608.3855	101.4	1.4	1337.3
WXX100312-07CCV	24-dinitrotoluene	182 > 152	17.88	6389.213	19269.600	6389.213	165.785	MM	13-Mar-10	08:39:32	622.9956	103.8	3.8	297.5
WXX100312-07CCV	26-dinitrotoluene-d3	185 > 155	17.03	19269.600		19269.600	19269.600	bb			422.8451	84.6	-15.4	1530.7
WXX100312-07CCV	2-Nitrotoluene	137 > 46	20.57	3981.042	19269.600	3981.042	103.299	bb			639.7240	106.6	6.6	539.0
WXX100312-07CCV	4-Nitrotoluene	137 > 46	21.92	2072.910	19269.600	2072.910	53.787	bb			721.1499	120.2	20.2	299.8
WXX100312-07CCV	3-Nitrotoluene	137 > 46	23.54	2203.794	19269.600	2203.794	57.183	bb			627.5083	104.6	4.6	298.4
WXX100312-07CCV	PETN	361 > 62	23.84	23017.361	19269.600	23017.361	597.245	bb			840.1515	140.0	40.0	3870.7

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: Restek
Date of Analysis: 03/13/10
Time of Injection: 0254
Standard Number: WXX100312-07CCV
Data File: EXP0312023a

HMX	127.4
RDX	113.6
135-TNB	103.1
13-DNB	104.4
Tetryl	110.9
Nitrobenzene	107.5
4A-26-DNT	104.1
2A-46-DNT	106.0
246-TNT	113.1
34-DNT(surr)	108.9
26-DNT	101.4
24-DNT	103.8
2-NT	106.6
4-NT	120.2
3-NT	104.6
PETN	140.0
Total	1775.6
Average	111.0

MTT 3/13/10

HMM 03/13/10

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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0312025a

Analysis Date: 13-MAR-10 03:53

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	40	39.493	99	
3,4-Dinitrotoluene	20	21.325	107	
4-Amino-2,6-dinitrotoluene	40	43.277	108	
HMX	40	48.329	121	
Nitrobenzene	40	57.139	143	*
PETN	40	62.908	157	*
RDX	40	43.269	108	
Tetryl	40	50.918	127	
m-Dinitrobenzene	40	40.107	100	
m-Nitrotoluene	40	50.015	125	
o-Nitrotoluene	40	41.249	103	
p-Nitrotoluene	40	50.675	127	
1,3,5-Trinitrobenzene	40	39.25	98	
1,3-Dinitrobenzene-d4	500	417.84	84	
2,4,6-Trinitrotoluene	40	41.567	104	
2,4-Dinitrotoluene	40	35.055	88	
2,6-Dinitrotoluene	40	40.294	101	
2,6-Dinitrotoluene-d3	500	408.448	82	

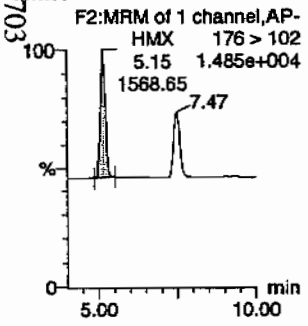
Recovery Limits:
3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene , 2,4-Diamino-6-nitrotoluene 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

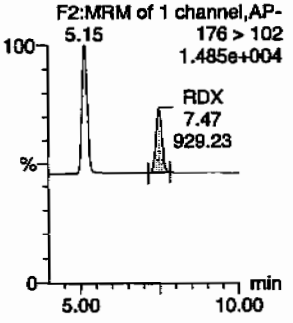
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0312025a
Date: 13-Mar-2010
Time: 03:53:43
ID: WXX100312-08CRI
Vial: 1:1,C

MMT 3/13/10

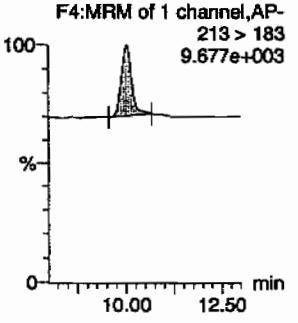
HMX



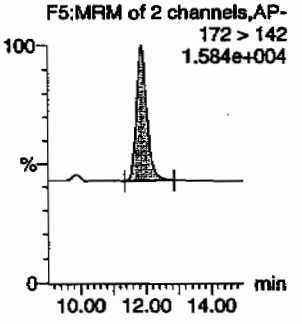
RDX



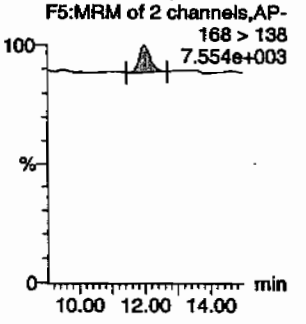
135-Trinitrobenzene



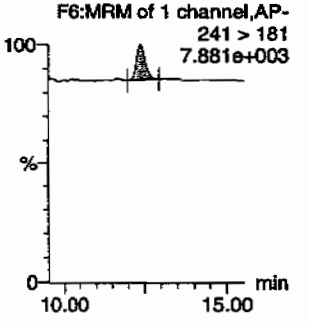
13-Dinitrobenzene-d4



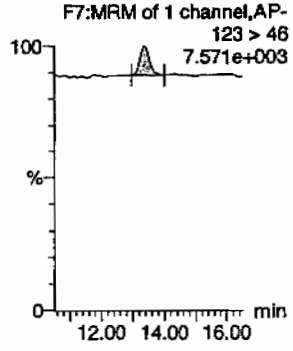
13-Dinitrobenzene



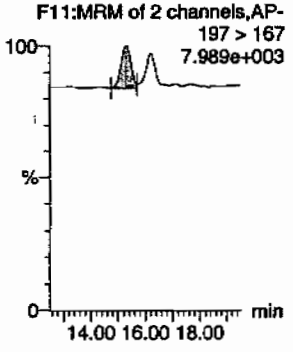
Tetryl



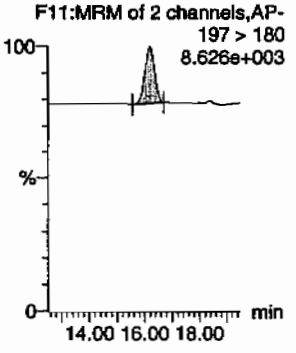
Nitrobenzene



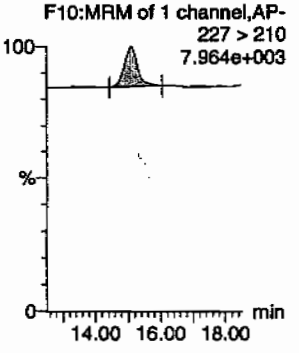
4-Amino-26-dinitrotoluene



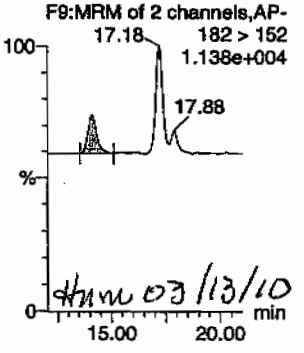
2-Amino-46-dinitrotoluene



246-Trinitrotoluene

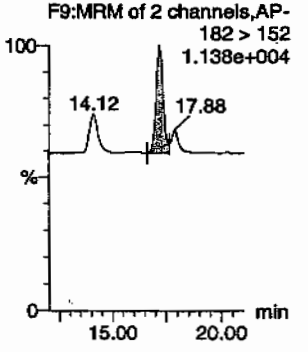


34-dinitrotoluene



dhm 03/13/10

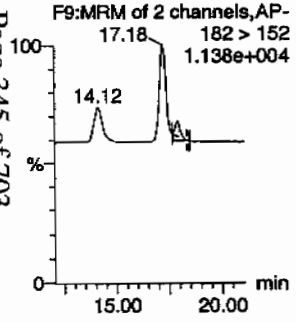
26-dinitrotoluene



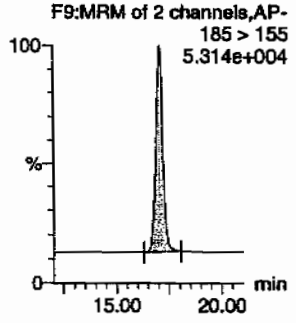
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031210expA.qld, Time: Sat Mar 13 08:42:21 2010

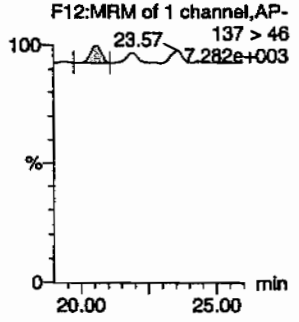
24-dinitrotoluene



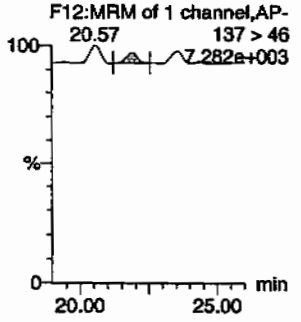
26-dinitrotoluene-d3



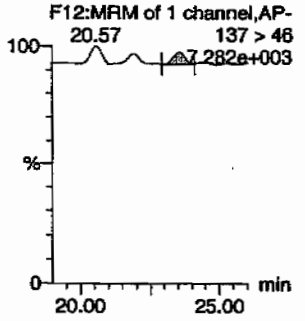
2-Nitrotoluene



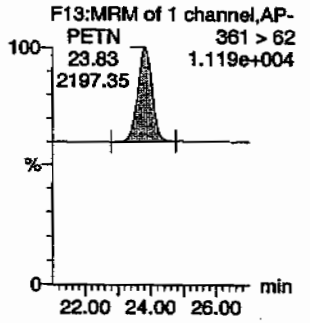
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	ISArea	AbsResp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
WXX100312-08CRI	HMX	176 > 102	5.15	1568.647	3406.884	1568.647	230.217	bb			48.3285	120.8	20.8	492.9
WXX100312-08CRI	RDX	176 > 102	7.47	929.227	3406.884	929.227	136.375	bb			43.2685	108.2	8.2	253.0
WXX100312-08CRI	135-Trinitrobenzene	213 > 183	10.04	894.690	3406.884	894.690	131.306	bb			39.2504	98.1	-1.9	164.7
WXX100312-08CRI	13-Dinitrobenzene-d4	172 > 142	11.87	3406.884		3406.884	3406.884	bb			417.8397	83.6	-16.4	400.8
WXX100312-08CRI	13-Dinitrobenzene	168 > 138	11.98	329.269	3406.884	329.269	48.324	bb			40.1070	100.3	0.3	37.6
WXX100312-08CRI	Tetryl	241 > 181	12.42	358.621	3406.884	358.621	52.632	bb			50.9183	127.3	27.3	40.7
WXX100312-08CRI	Nitrobenzene	123 > 46	13.36	294.118	3406.884	294.118	43.165	bb			57.1390	142.8	42.8	25.3
WXX100312-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.32	560.622	18613.510	560.622	15.060	MM	13-Mar-10	08:35:10	43.2772	108.2	8.2	32.5
WXX100312-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.19	762.784	18613.510	762.784	20.490	bb			39.4934	98.7	-1.3	91.9
WXX100312-08CRI	246-Trinitrotoluene	227 > 210	15.10	570.212	18613.510	570.212	15.317	bb			41.5673	103.9	3.9	87.7
WXX100312-08CRI	34-dinitrotoluene	182 > 152	14.12	810.573	18613.510	810.573	21.774	bb			21.3248	106.6	6.6	28.2
WXX100312-08CRI	26-dinitrotoluene	182 > 152	17.18	1737.552	18613.510	1737.552	46.674	MM	13-Mar-10	08:37:24	40.2943	100.7	0.7	78.0
WXX100312-08CRI	24-dinitrotoluene	182 > 152	17.88	347.275	18613.510	347.275	9.329	MM	13-Mar-10	08:39:44	35.0554	87.6	-12.4	16.1
WXX100312-08CRI	26-dinitrotoluene-d3	185 > 155	17.05	18613.510		18613.510	18613.510	bb			408.4481	81.7	-18.3	2098.2
WXX100312-08CRI	2-Nitrotoluene	137 > 46	20.57	247.955	18613.510	247.955	6.661	bb			41.2490	103.1	3.1	31.2
WXX100312-08CRI	4-Nitrotoluene	137 > 46	21.92	143.874	18613.510	143.874	3.865	bb			50.6750	126.7	26.7	17.2
WXX100312-08CRI	3-Nitrotoluene	137 > 46	23.57	169.670	18613.510	169.670	4.558	bb			50.0147	125.0	25.0	21.0
WXX100312-08CRI	PETN	361 > 62	23.83	2197.346	18613.510	2197.346	59.026	bb			62.9083	157.3	57.3	539.1

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor:	UltraScientific
Date of Analysis	03/13/10
Time of Injection	0353
Standard Number	WXX100312-08CRI
Data File	EXP0312025a

HMX		120.8
RDX		108.2
135-TNB		98.1
13-DNB		100.3
Tetryl		127.3
Nitrobenzene		142.8
4A-26-DNT		108.2
2A-46-DNT		98.7
246-TNT		103.9
34-DNT(surr)		106.6
26-DNT		100.7
24-DNT		87.6
2-NT		103.1
4-NT		126.7
3-NT		125.0
PETN		157.3
Total		1815.3
Average		113.5

HMP 3/13/10

HMM 03/13/10

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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260013.wiff

Analysis Date: 26-FEB-10 18:02

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	104	104	
3,4-Dinitrotoluene	50	46.1	92	
3,5-Dinitroaniline	100	94.6	95	
TATB	100	105	105	
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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

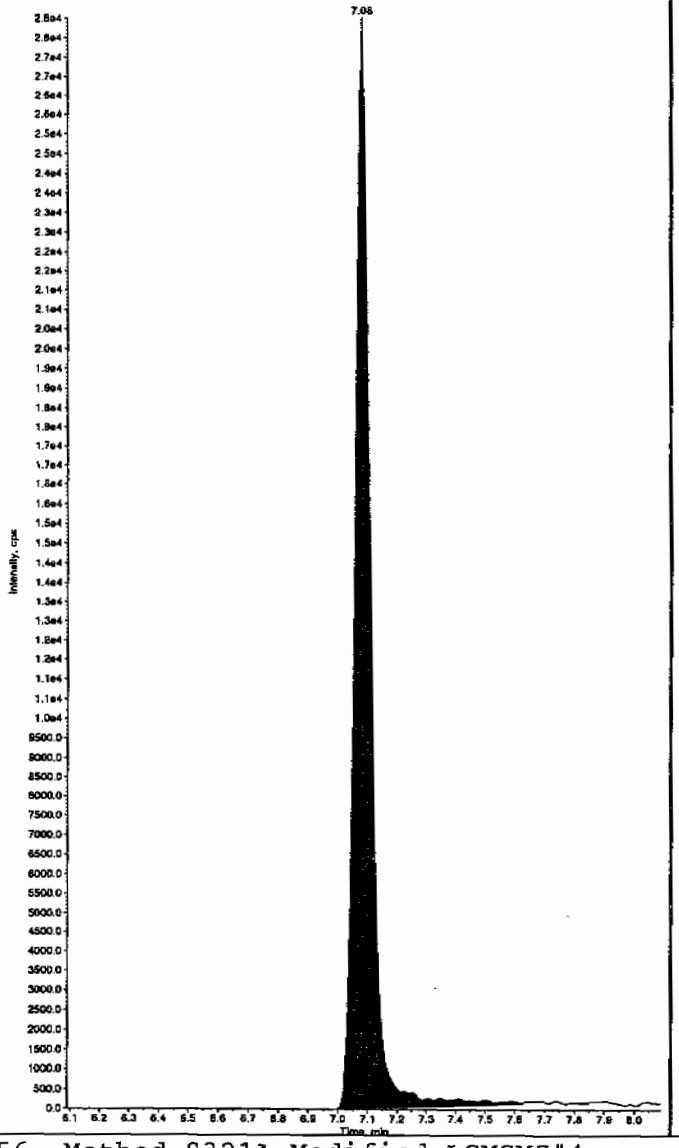
Lur 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260013.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 105. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 6:02:29 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 sec
Expected RT: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.08 min
Area: 1.09e+005 counts
Height: 28029.306 cps
Start Time: 6.99 min
End Time: 7.63 min

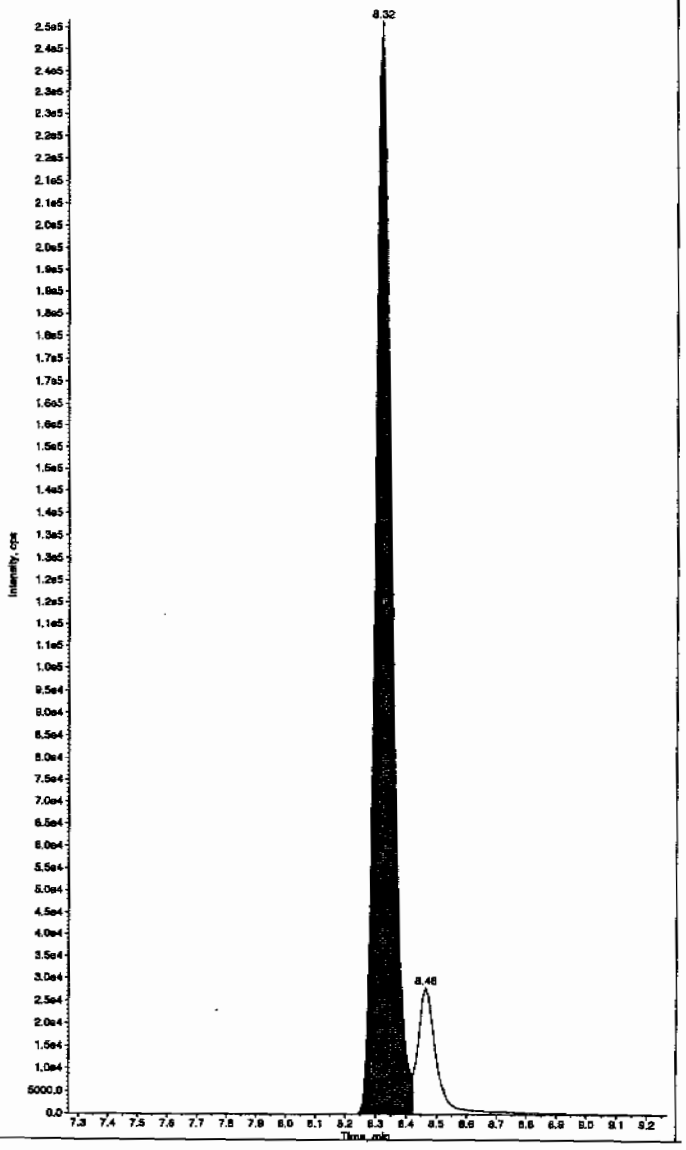


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260013.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 94.6 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 6:02:29 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: 8.27 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.32 min
Area: 9.52e+005 counts
Height: 246685.013 cps
Start Time: 8.22 min
End Time: 8.42 min



Hnm 03/01/10

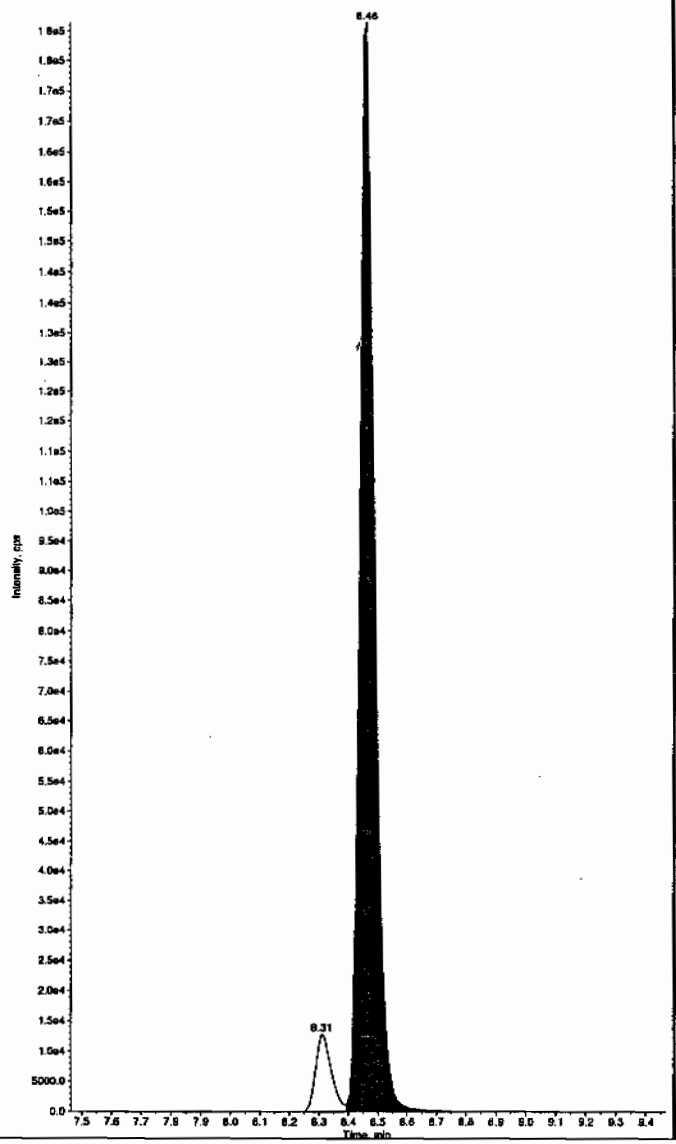
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260013.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 46.1 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 6:02:29 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.46 min
Area: 6.66e+005 counts
Height: 181473.358 cps
Start Time: 8.39 min
End Time: 8.79 min

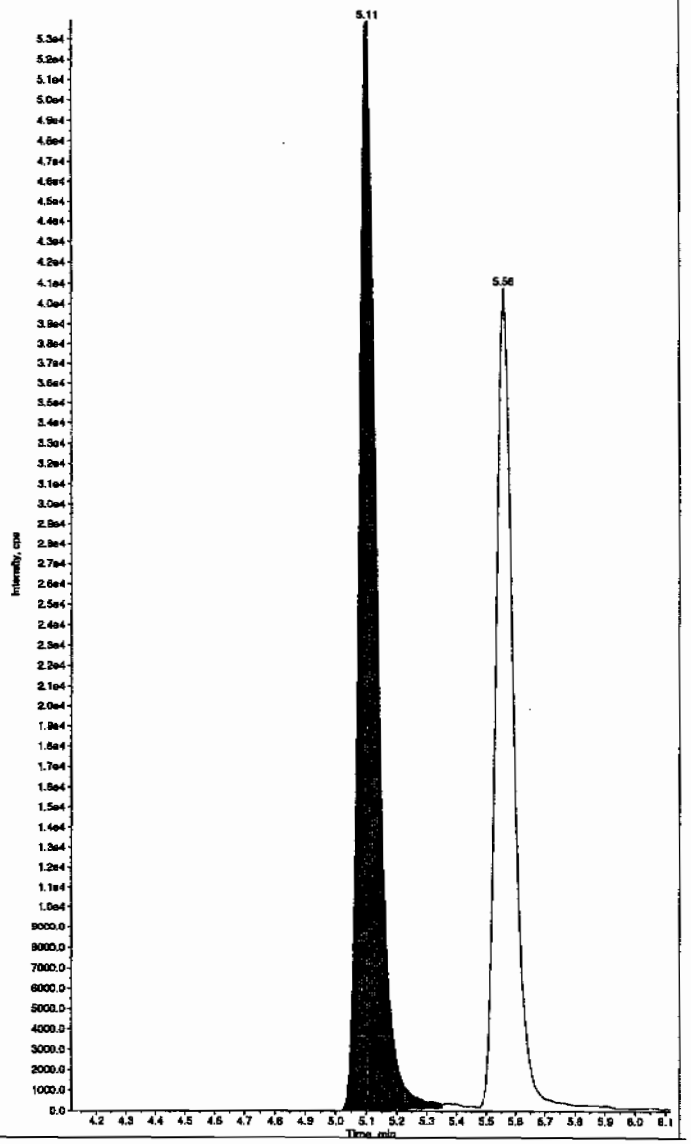


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260013.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 104. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 6:02:29 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.11 min
Area: 2.28e+005 counts
Height: 53935.883 cps
Start Time: 5.01 min
End Time: 5.35 min



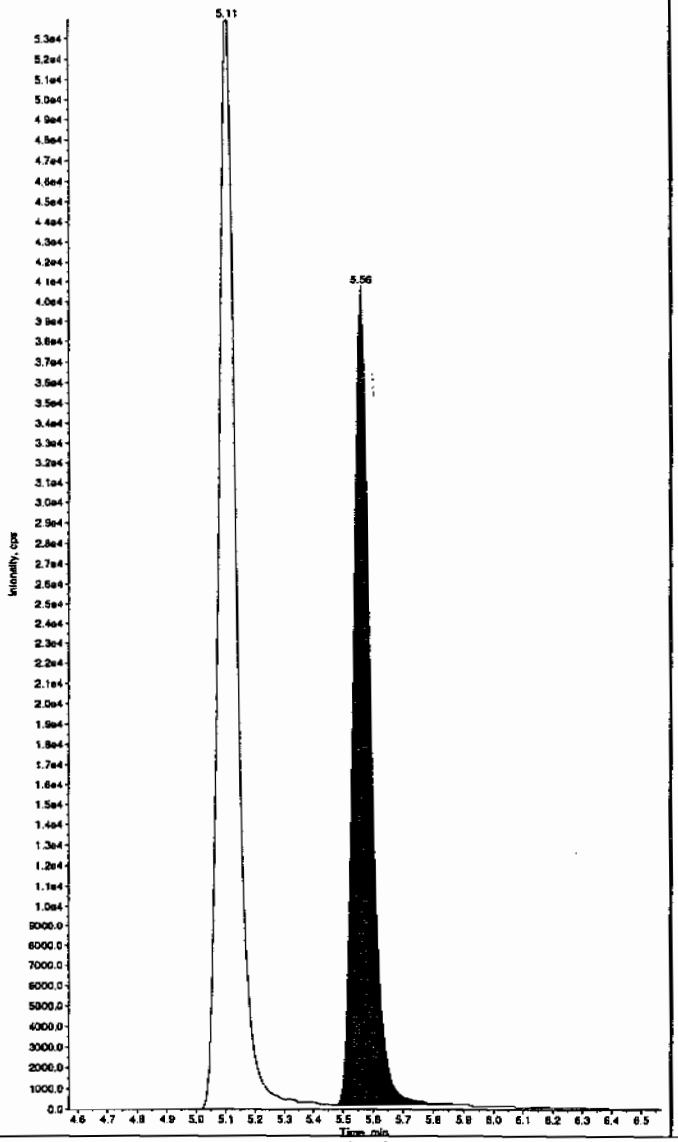
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260013.wlf"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 110. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 6:02:29 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.56 min
Area: 1.68e+005 counts
Height: 40613.808 cps
Start Time: 5.48 min
End Time: 5.80 min

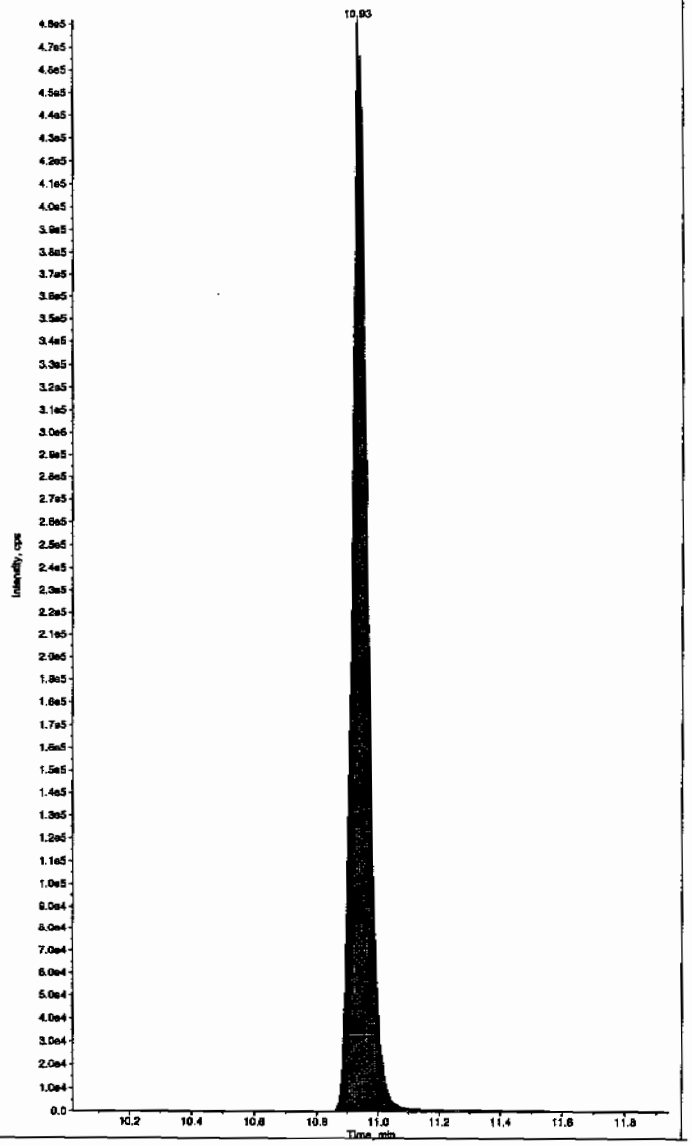


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260013.wlf"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 103. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 6:02:29 PM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 6000.00 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: 1.76e+006 counts
Height: 481600.250 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260024.wiff

Analysis Date: 26-FEB-10 20:55

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	536	107	
2,6-Diamino-4-nitrotoluene	500	541	108	
3,4-Dinitrotoluene	250	219	88	
3,5-Dinitroaniline	500	464	93	
TATB	500	493	99	
tris(o-cresyl) phosphate	500	498	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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

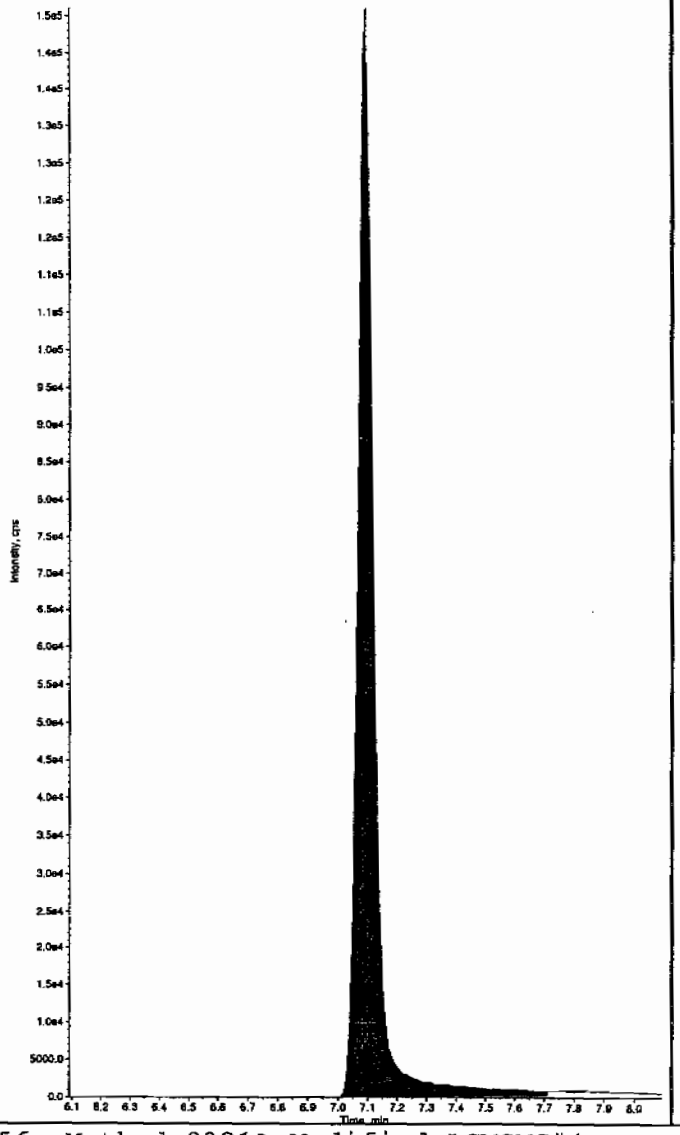
Before Lean 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260024.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 493. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 8:55:16 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.09 min
Area: 5.82e+005 counts
Height: 146054.626 cps
Start Time: 6.99 min
End Time: 7.71 min

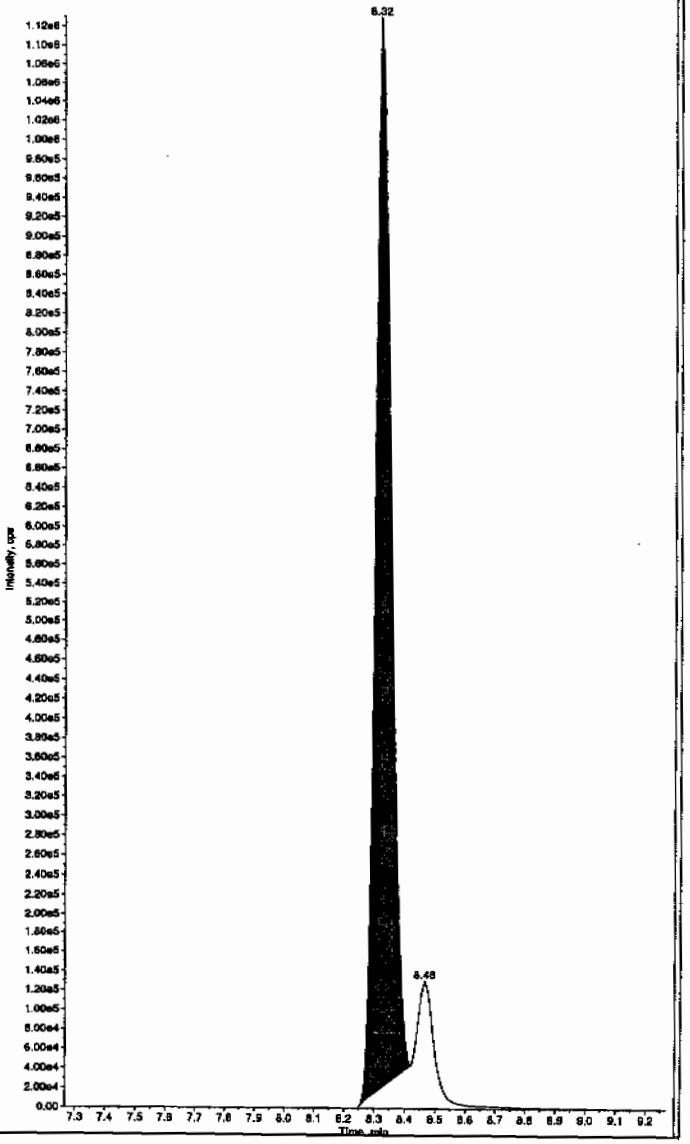


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260024.wiff"
Peak Name: "3S-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 439. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 8:55:16 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: 8.27 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.32 min
Area: 4.06e+006 counts
Height: 1111148.438 cps
Start Time: 8.26 min
End Time: 8.42 min



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

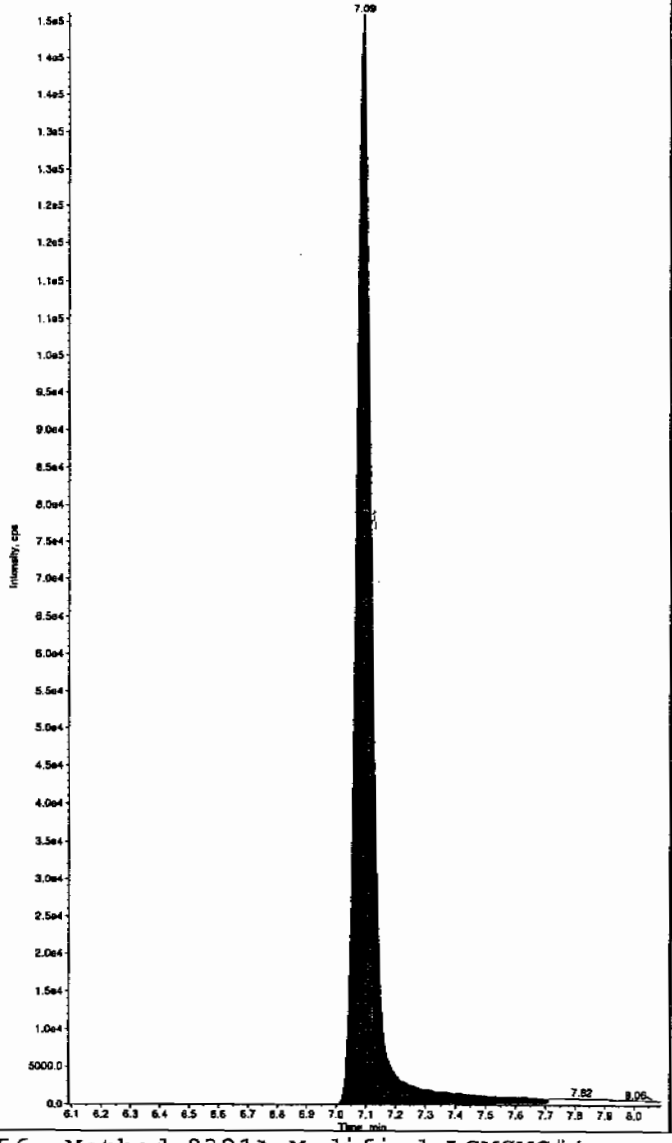
after Ker 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260024.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 493. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 8:55:16 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.09 min
Area: 5.82e+005 counts
Height: 146054.626 cps
Start Time: 6.99 min
End Time: 7.71 min

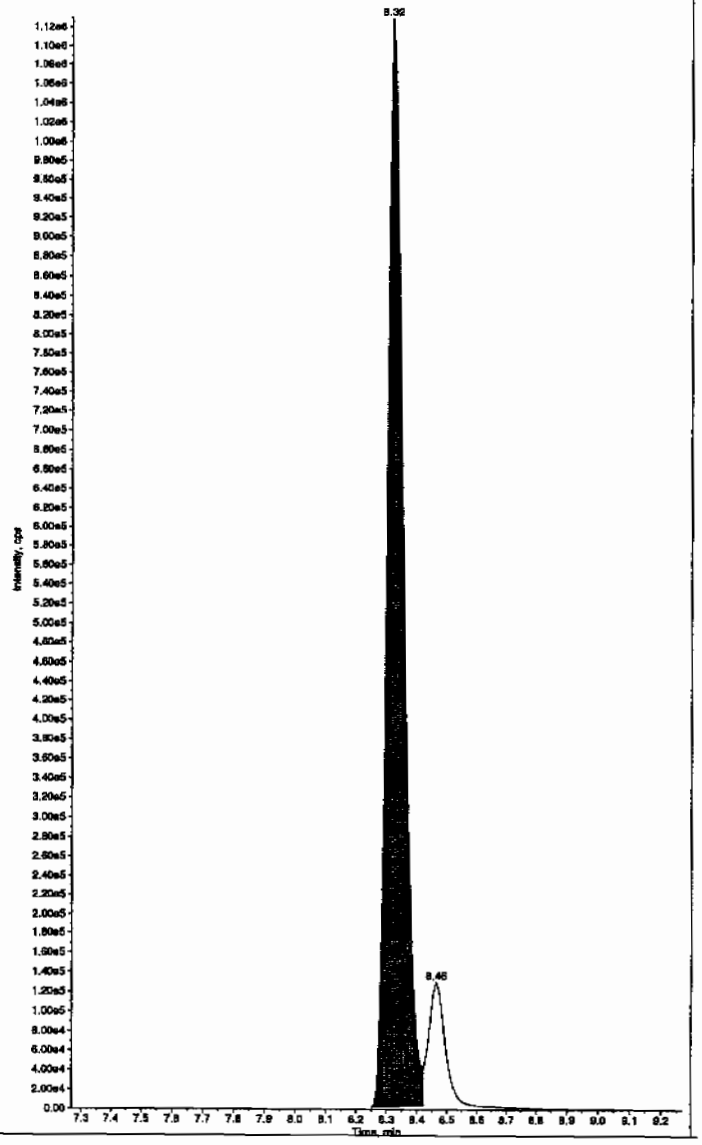


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260024.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 464. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 8:55:16 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.27 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.32 min
Area: 4.27e+006 counts
Height: 1136132.036 cps
Start Time: 8.26 min
End Time: 8.42 min



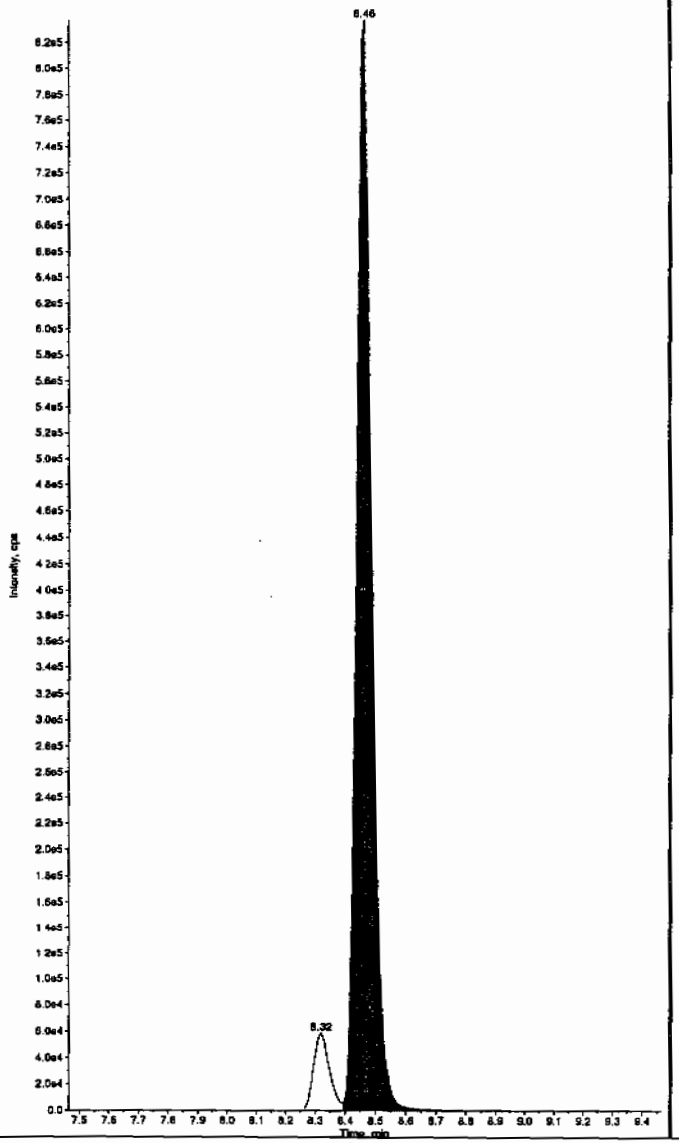
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260024.wiff"
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: 219. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 8:55:16 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.46 min
Area: 3.04e+006 counts
Height: 637212.036 cps
Start Time: 8.39 min
End Time: 8.82 min

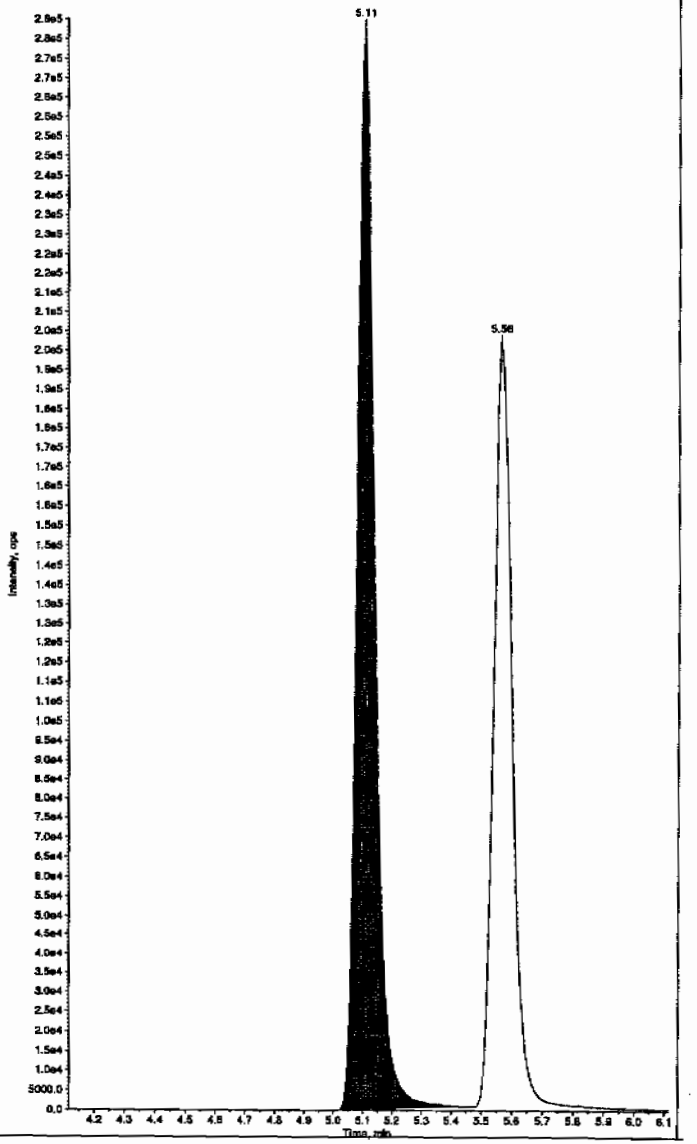


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260024.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 541. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 8:55:16 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.11 min
Area: 1.19e+006 counts
Height: 280100.037 cps
Start Time: 5.01 min
End Time: 5.41 min



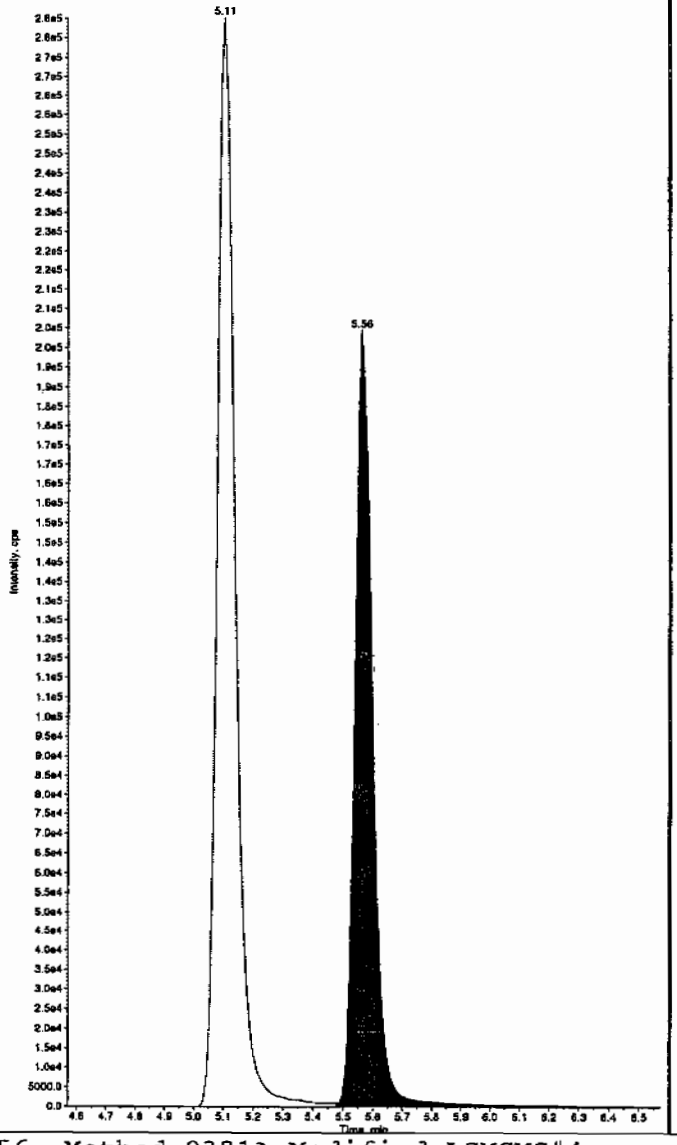
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-25CCV" Sample ID: "|1|LER" File: "EXS02250024.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 536. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 8:55:16 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.56 min
Area: 8.57e+005 counts
Height: 199263.412 cps
Start Time: 5.48 min
End Time: 6.09 min

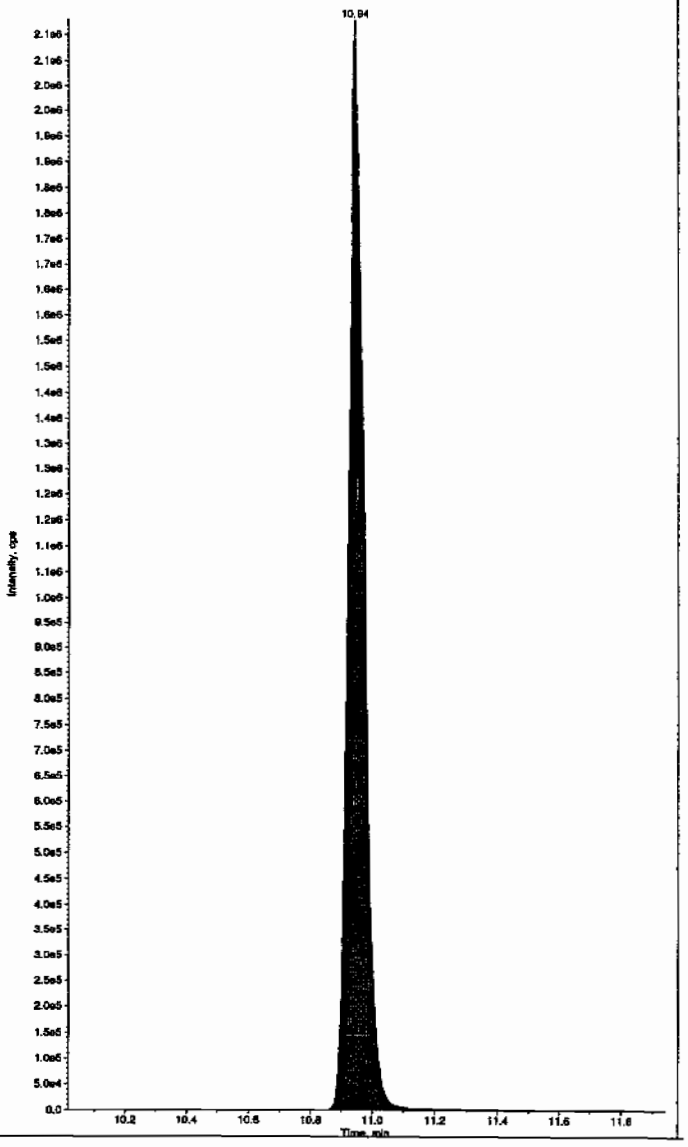


Sample Name: "WXX100226-25CCV" Sample ID: "|1|LER" File: "EXS02250024.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 498. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 8:55:16 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: 7.70e+006 counts
Height: 2130550.781 cps
Start Time: 10.8 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260026.wiff

Analysis Date: 26-FEB-10 21:26

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6--nitrotoluene	100	104	104	
2,6-Diamino-4-nitrotoluene	100	109	109	
3,4-Dinitrotoluene	50	43.5	87	
3,5-Dinitroaniline	100	91.3	91	
TATB	100	105	105	
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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

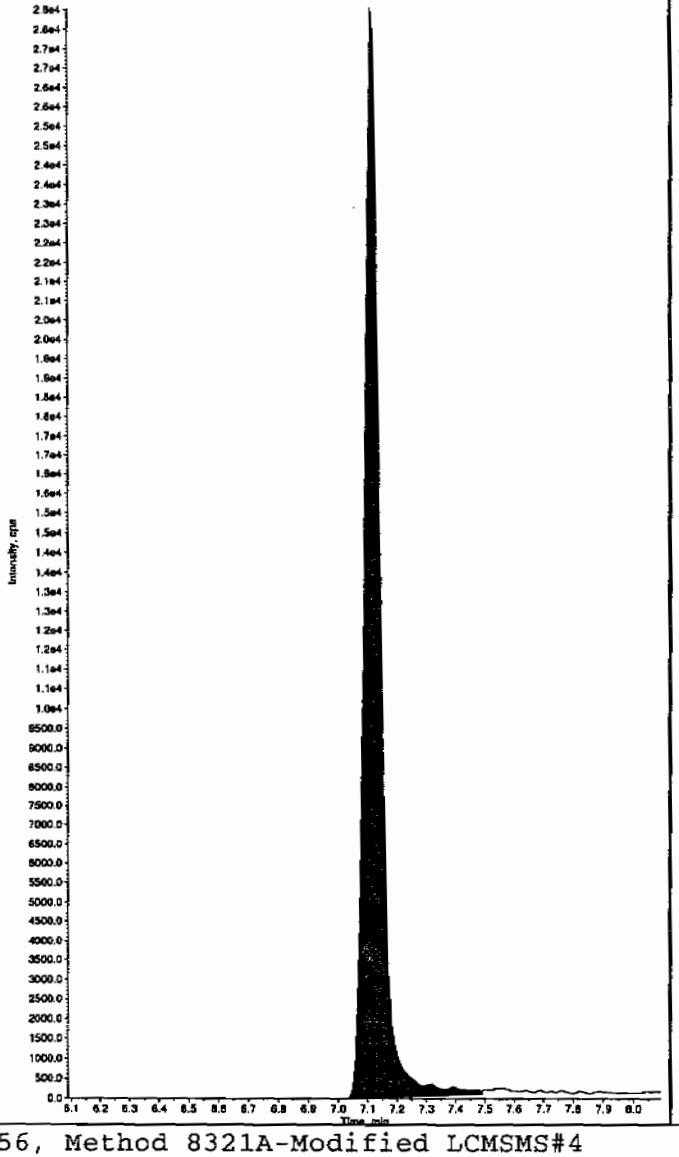
Before Run 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260026.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 105. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:26:41 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.11 min
Area: 1.08e+005 counts
Height: 28018.894 cps
Start Time: 7.03 min
End Time: 7.49 min

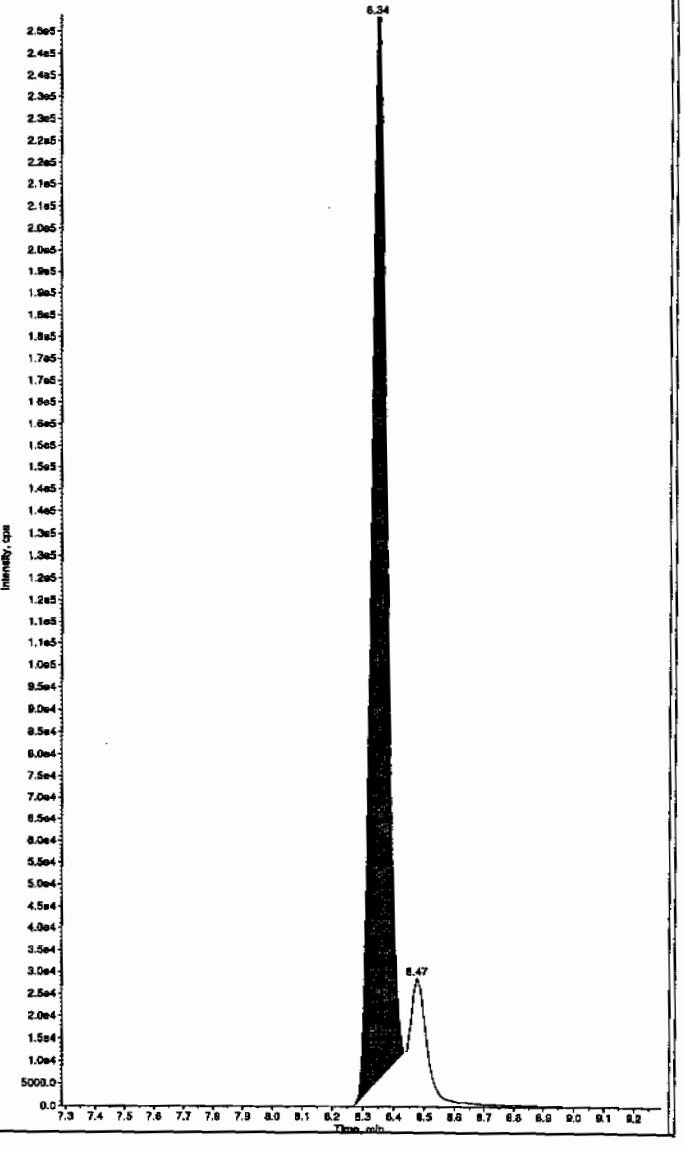


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260026.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 85.6 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:26:41 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: 8.29 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.34 min
Area: 8.66e+005 counts
Height: 243722.839 cps
Start Time: 8.28 min
End Time: 8.43 min



Hm 03/01/10

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

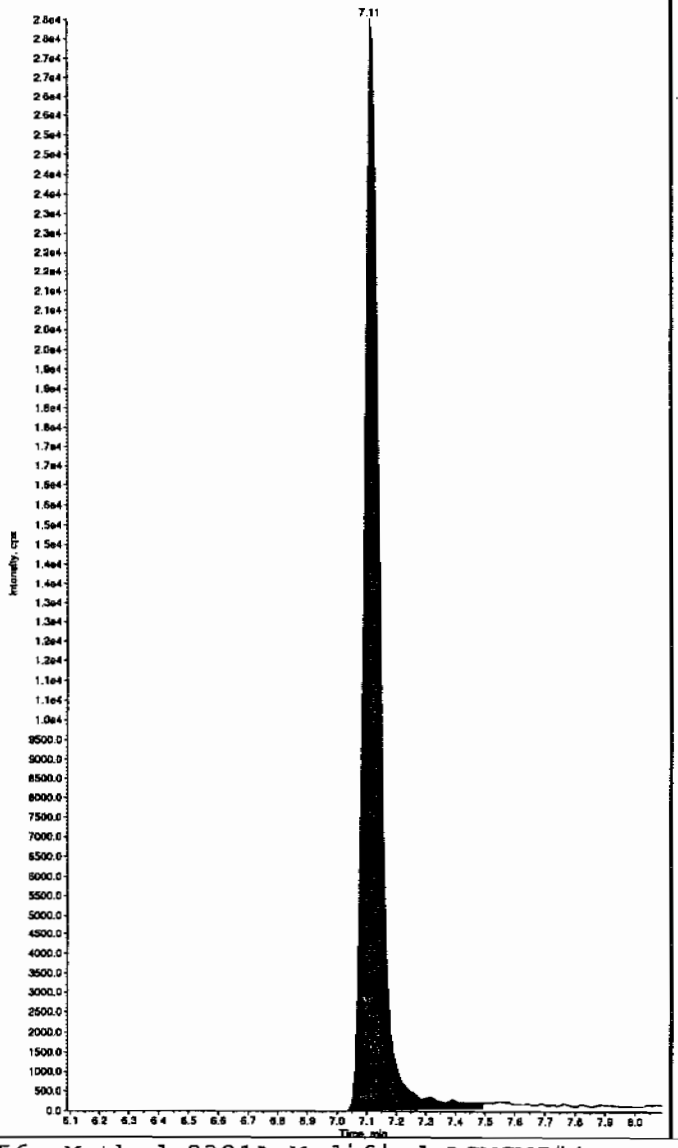
After Ran 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260026.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 105. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:26:41 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.11 min
Area: 1.08e+005 counts
Height: 28016.894 cps
Start Time: 7.03 min
End Time: 7.49 min

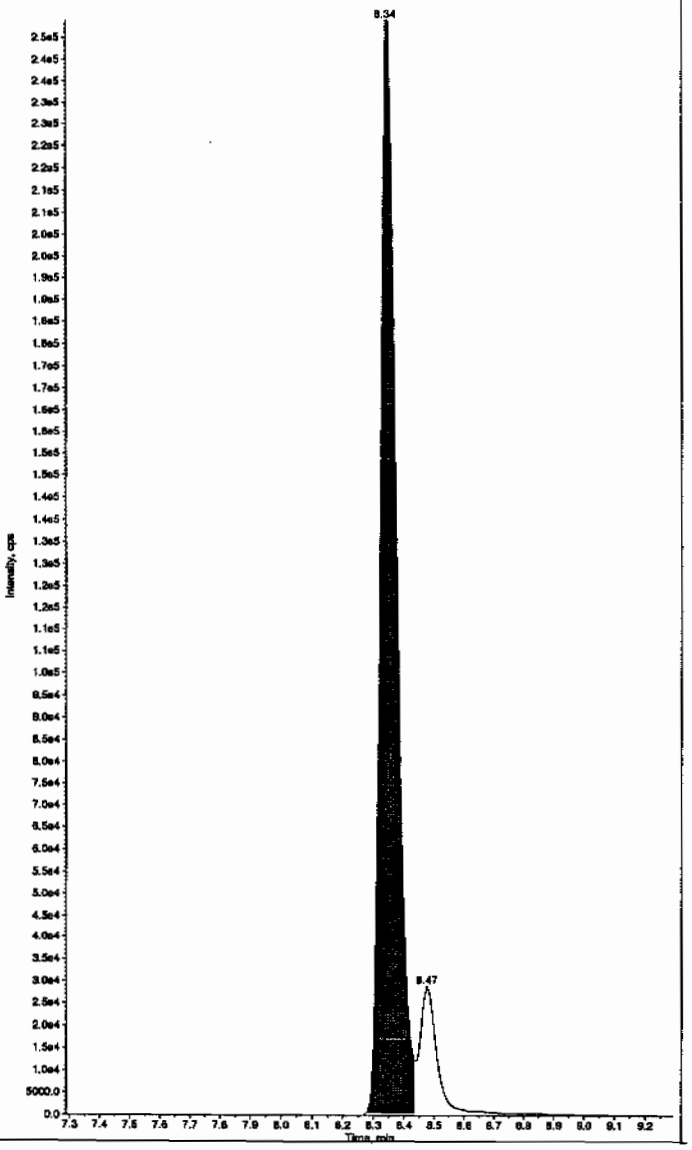


Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260026.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 91.3 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:26:41 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.29 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.35 min
Area: 9.21e+005 counts
Height: 255293.764 cps
Start Time: 8.28 min
End Time: 8.43 min



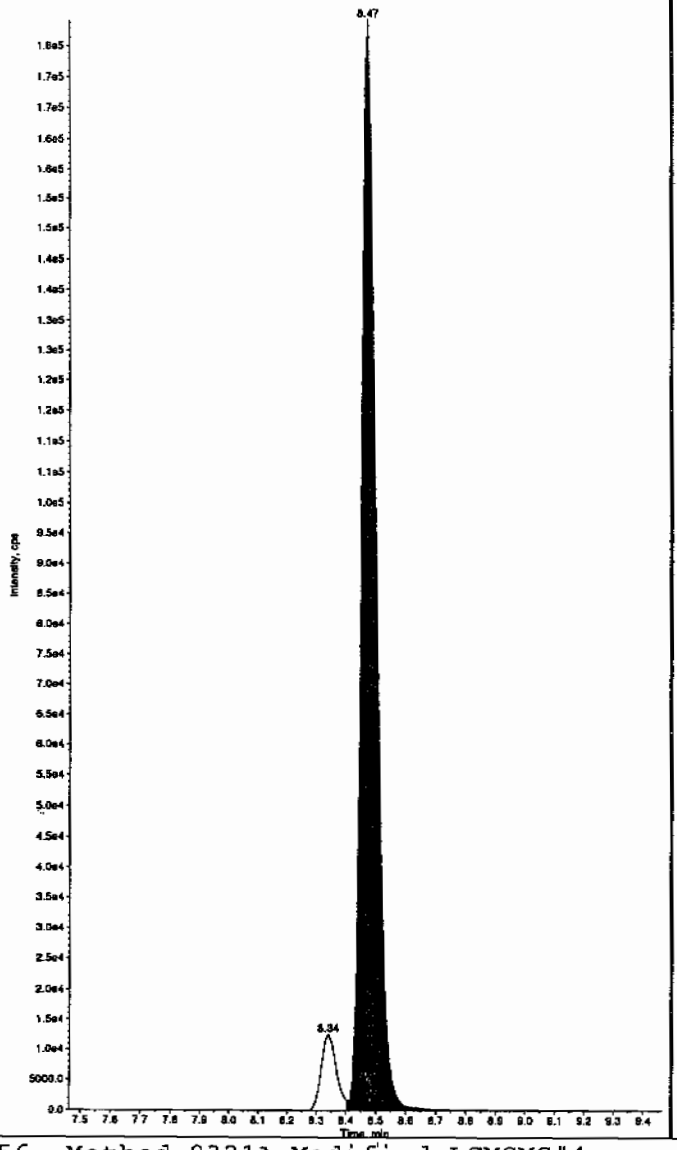
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260026.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 43.5 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:26:41 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: 15.0 sec
Expected RT: 8.45 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.47 min
Area: 6.30e+005 counts
Height: 179327.957 cps
Start Time: 8.40 min
End Time: 8.81 min

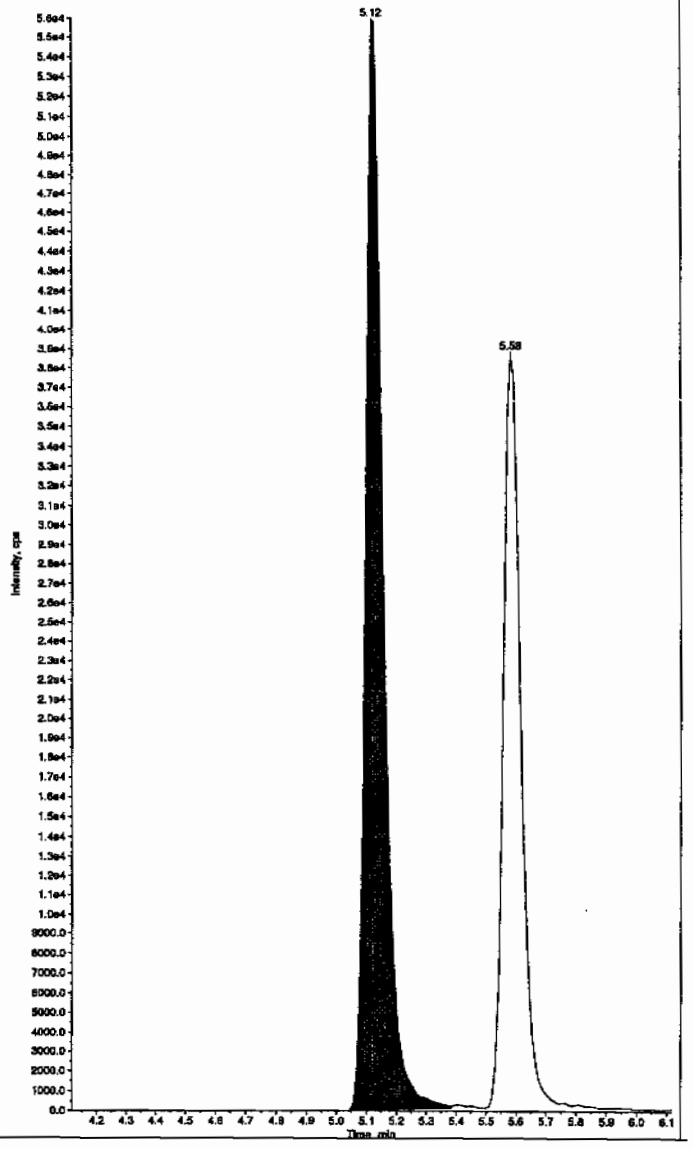


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260026.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 109. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:26:41 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.12 min
Area: 2.38e+005 counts
Height: 56011.360 cps
Start Time: 5.00 min
End Time: 5.38 min



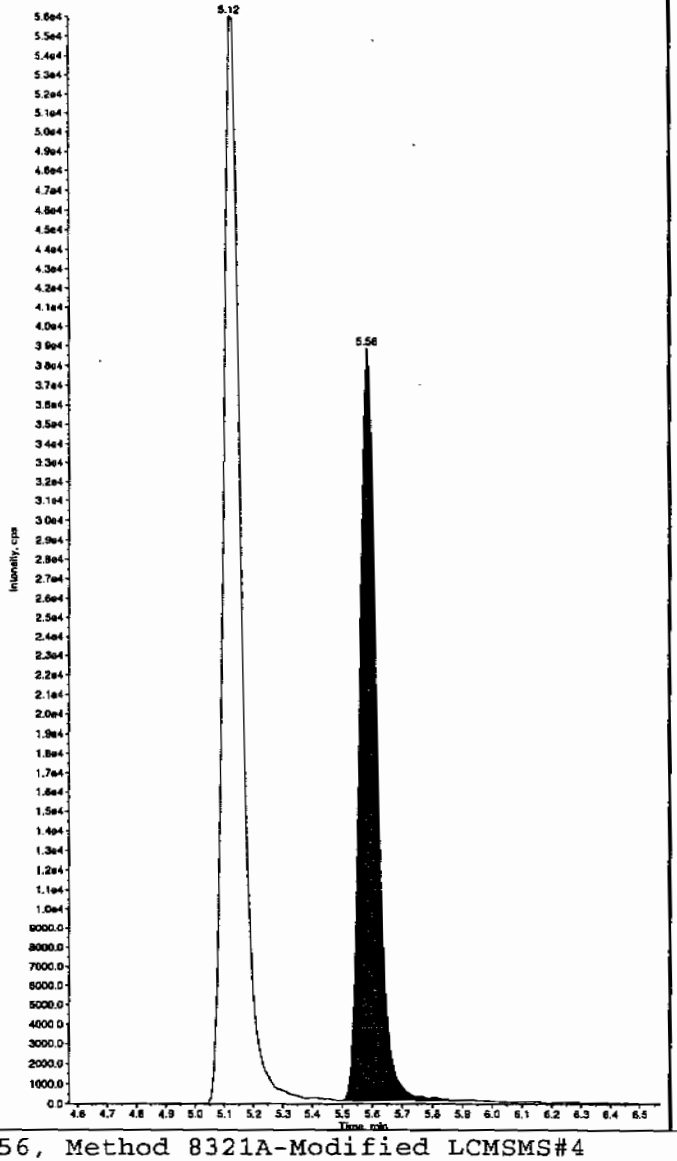
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260026.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 104. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:26:41 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.58 min
Area: 1.58e+005 counts
Height: 38749.264 cps
Start Time: 5.50 min
End Time: 5.89 min

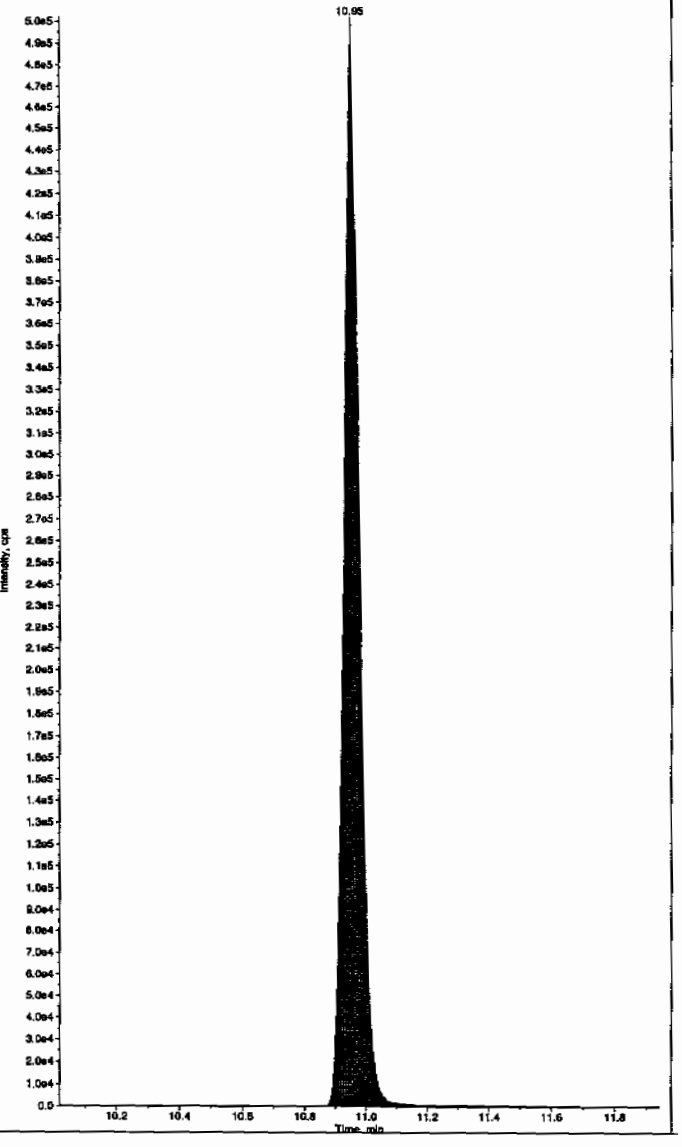


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260026.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 104. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 9:26:41 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: 1.77e+006 counts
Height: 501760.681 cps
Start Time: 10.9 min
End Time: 11.3 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260037.wiff

Analysis Date: 27-FEB-10 00:19

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	482	96	
2,6-Diamino-4-nitrotoluene	500	477	96	
3,4-Dinitrotoluene	250	222	89	
3,5-Dinitroaniline	500	469	94	
TATB	500	487	97	
tris(o-cresyl) phosphate	500	491	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 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

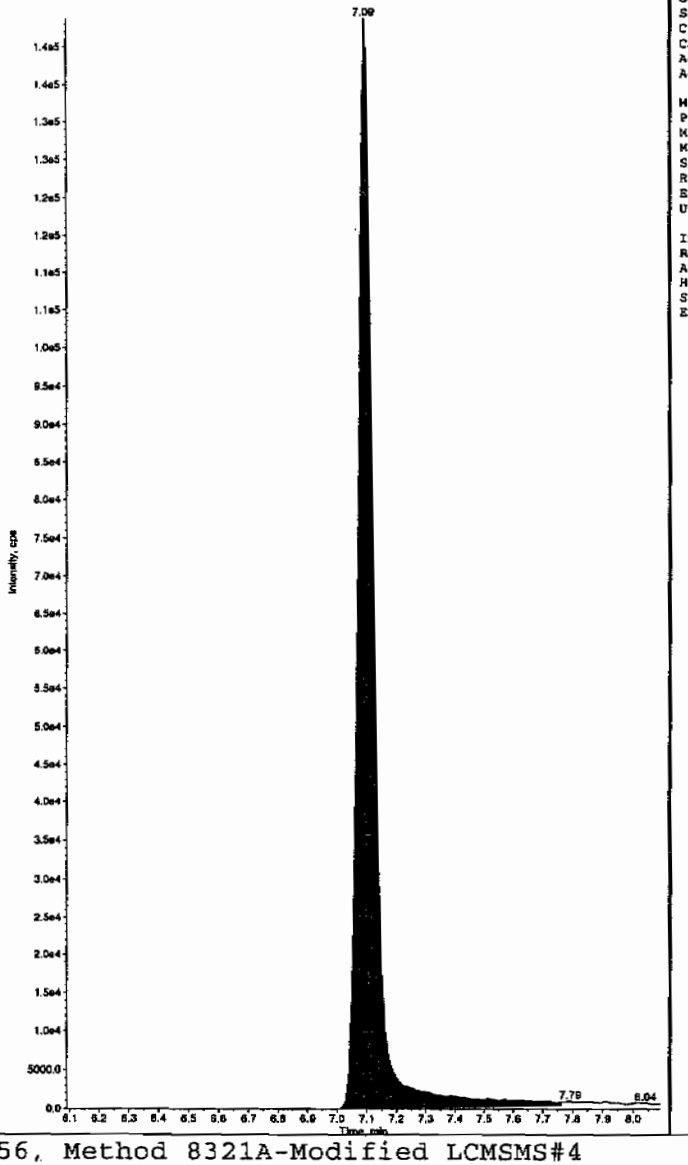
Lcn 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "1|LER" File: "EXS02260037.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 487. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:19:36 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.09 min
Area: 5.75e+005 counts
Height: 143670.853 cps
Start Time: 7.00 min
End Time: 7.76 min

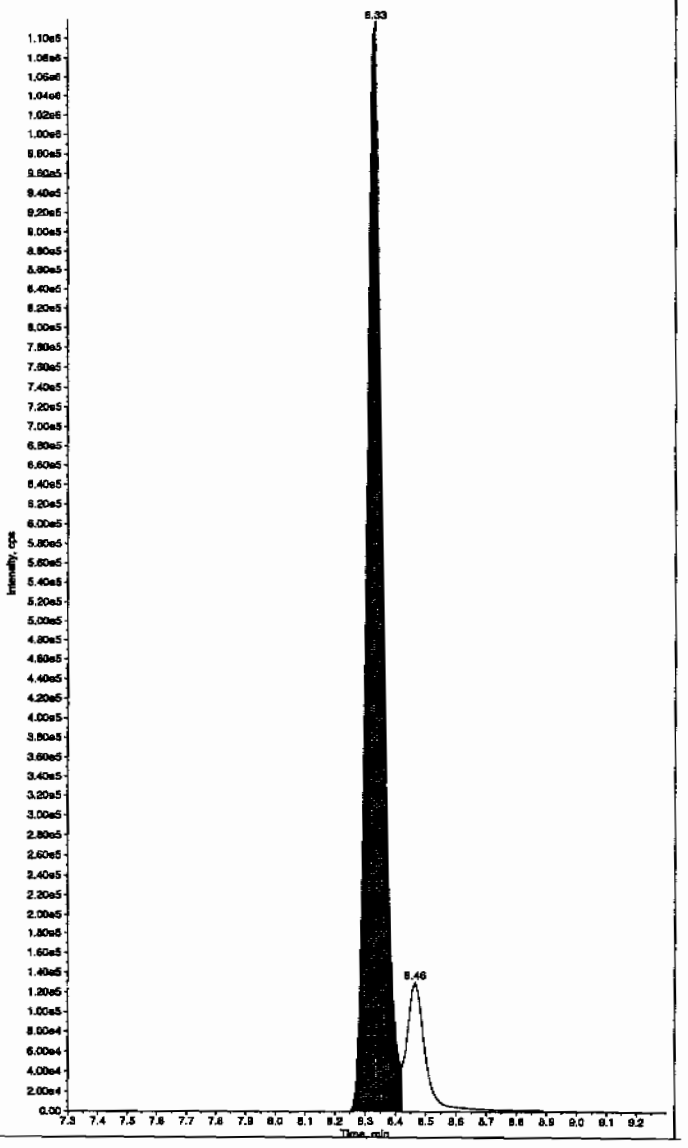


Sample Name: "WXX100226-26CCV" Sample ID: "1|LER" File: "EXS02260037.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 469. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:19:36 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: 8.30 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.33 min
Area: 4.31e+006 counts
Height: 1119113.281 cps
Start Time: 8.24 min
End Time: 8.42 min



Ahm 03/01/10

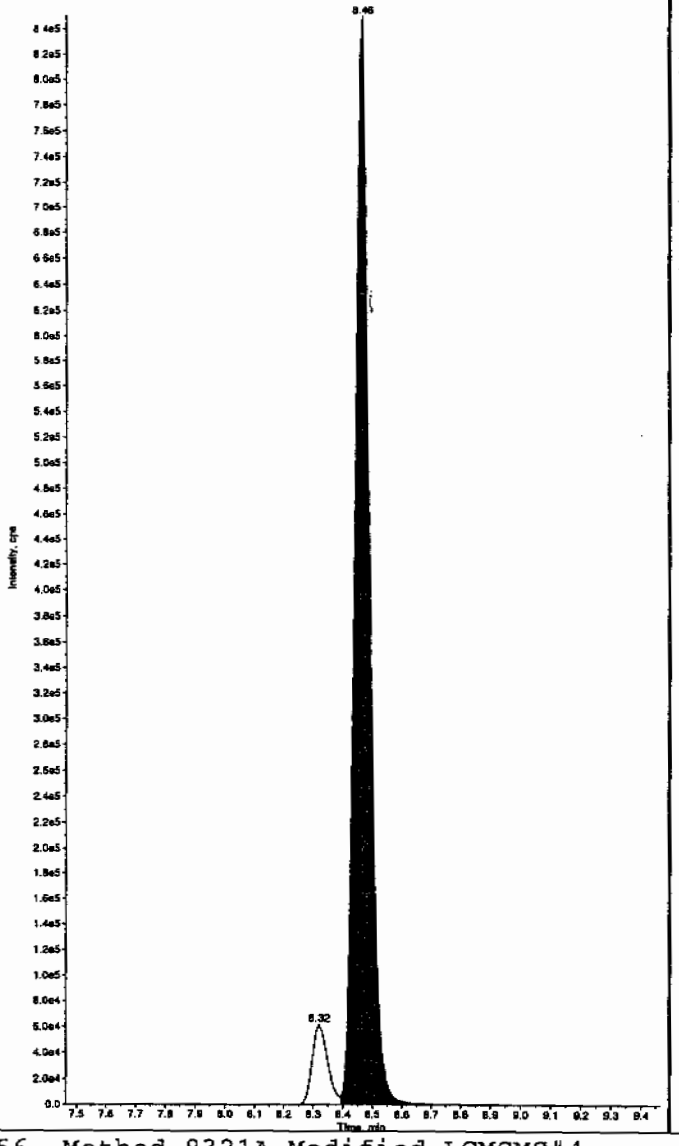
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260037.wiff"
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: 222. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:19:36 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.46 min
Area: 3.08e+006 counts
Height: 850868.896 cps
Start Time: 8.39 min
End Time: 8.79 min

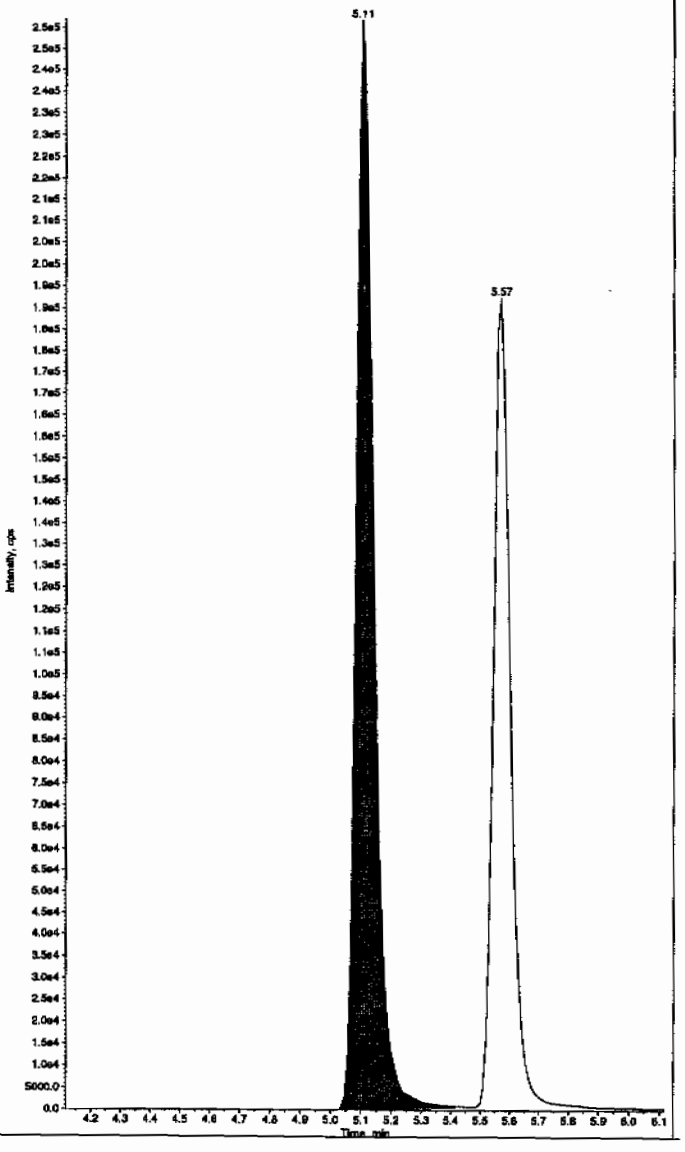


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260037.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 477. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:19:36 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.11 min
Area: 1.05e+006 counts
Height: 251884.293 cps
Start Time: 5.01 min
End Time: 5.42 min



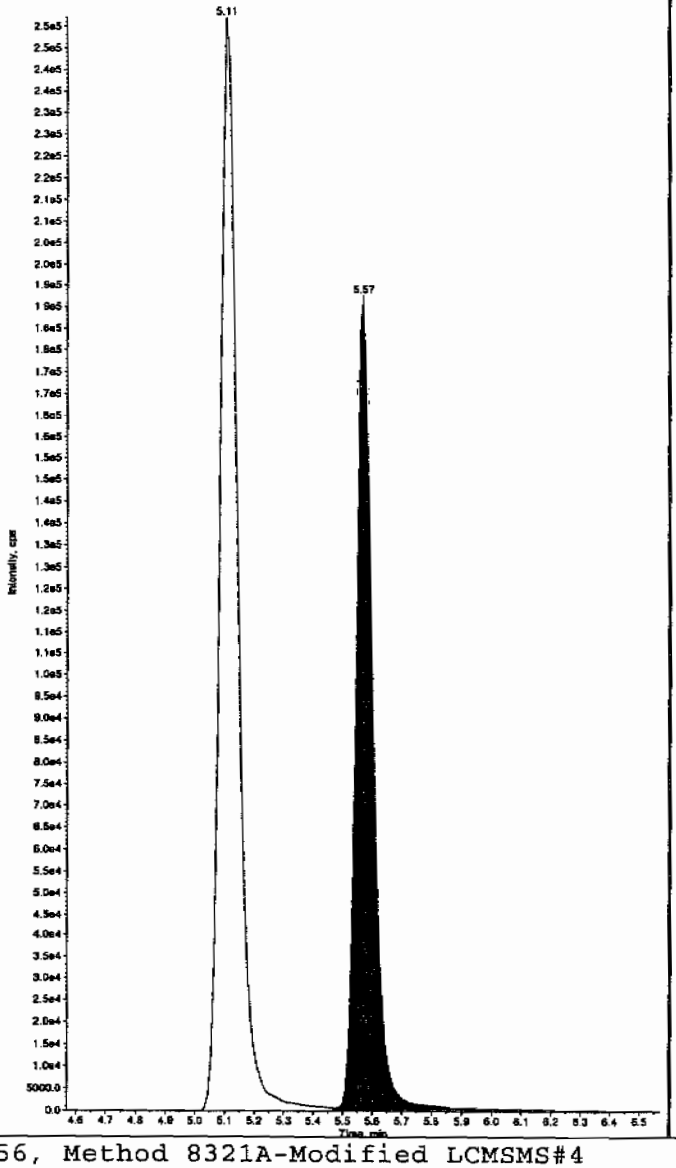
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260037.wiff"
Peak Name: "2,4-Diamino-6-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 482. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:19:36 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.57 min
Area: 7.69e+005 counts
Height: 187302.551 cps
Start Time: 5.47 min
End Time: 6.07 min

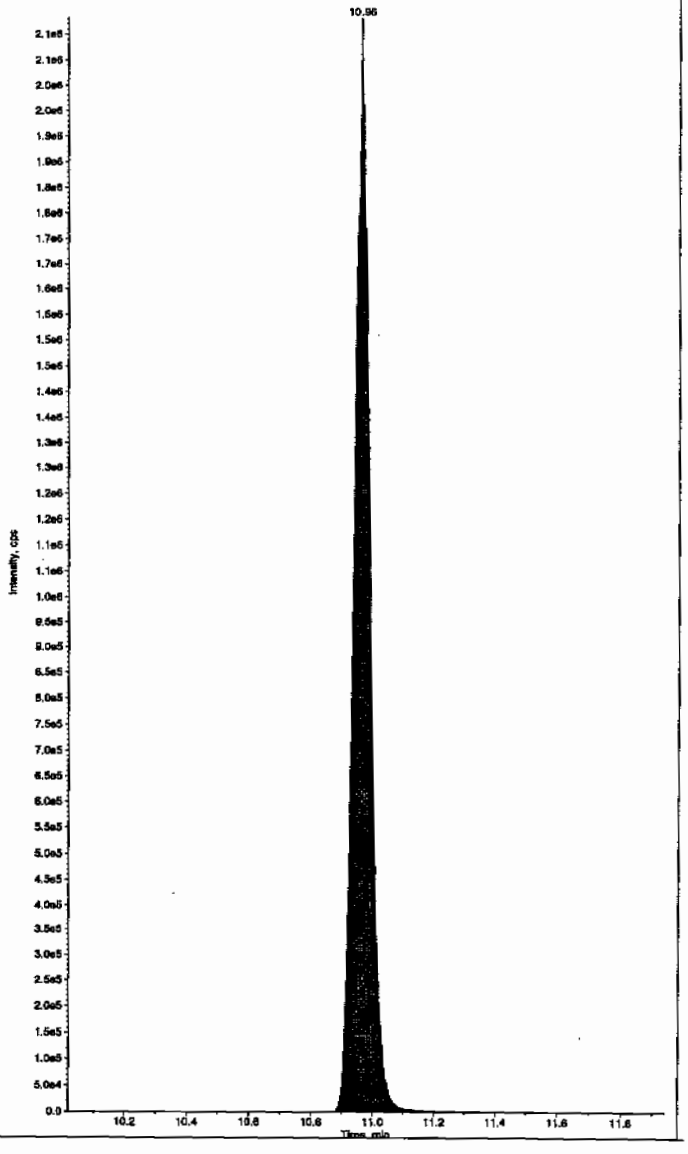


Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260037.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 491. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:19:36 AM

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: 11.0 min
Area: 7.60e+006 counts
Height: 2133710.449 cps
Start Time: 10.8 min
End Time: 11.3 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): 10–1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260039.wiff

Analysis Date: 27–FEB–10 00:51

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	100	103	103	
2,6–Diamino–4–nitrotoluene	100	102	102	
3,4–Dinitrotoluene	50	43.9	88	
3,5–Dinitroaniline	100	91.6	92	
TATB	100	107	107	
tris(o–cresyl) phosphate	100	102	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 50–150%
OtherTarget Analytes 70–130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

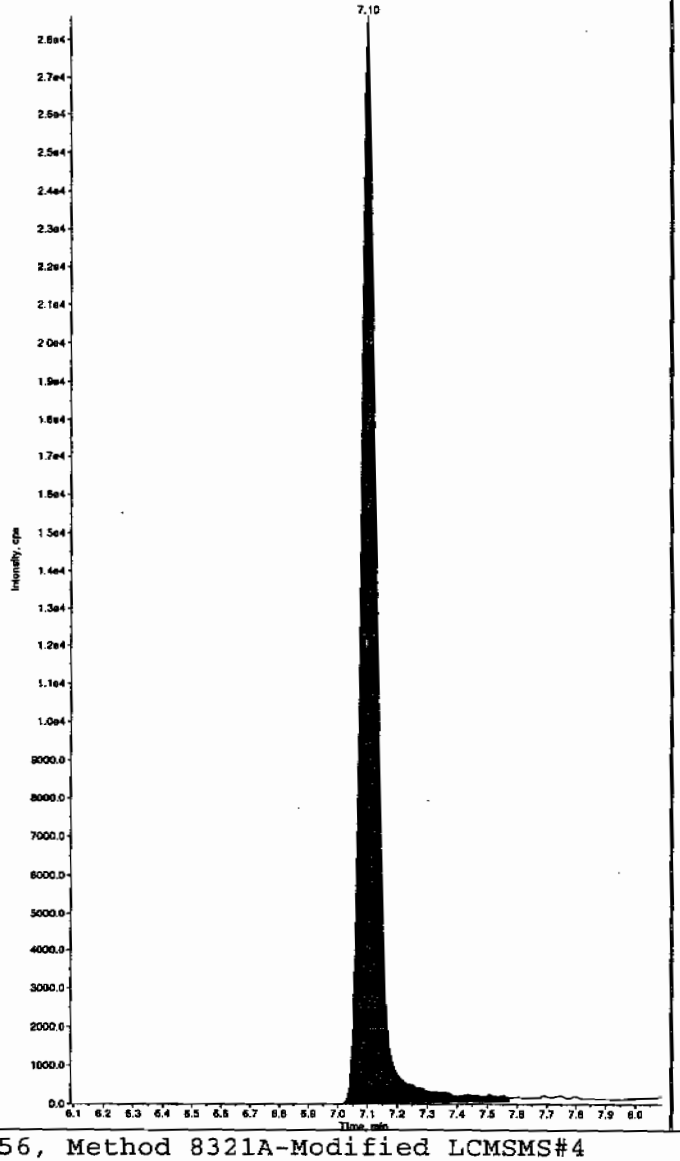
Ran 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260039.wiff"
Peak Name: "TATB" Mass(as): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 107. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:51:00 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.10 min
Area: 1.11e+005 counts
Height: 28614.511 cps
Start Time: 7.00 min
End Time: 7.58 min

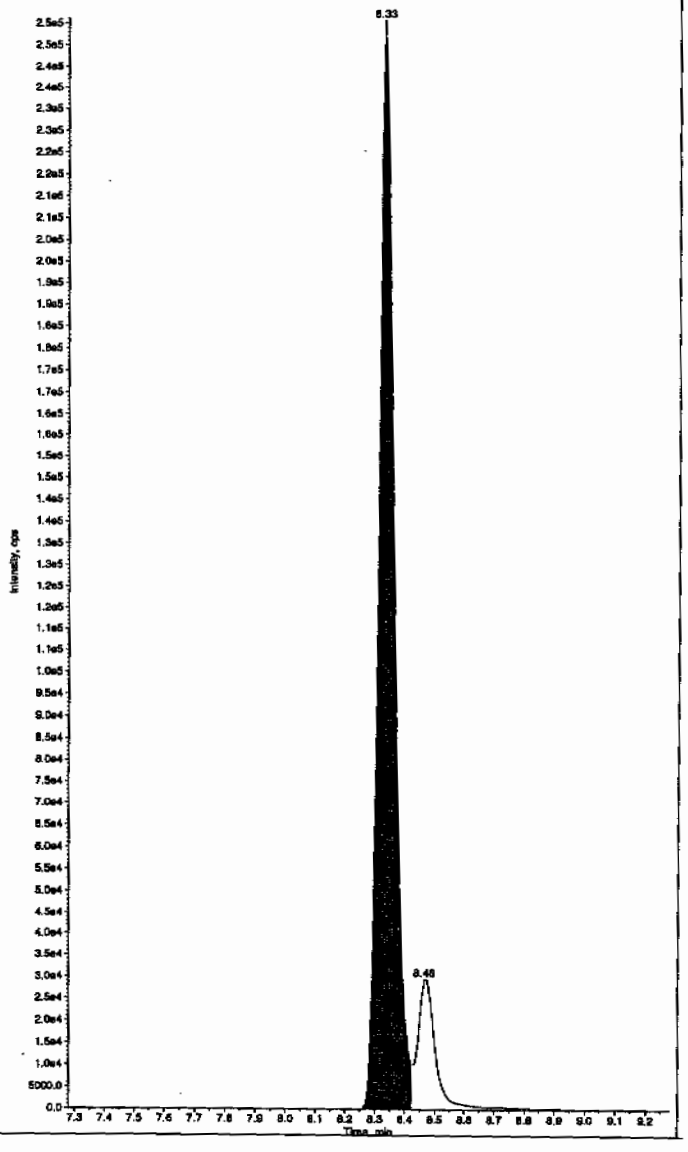


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260039.wiff"
Peak Name: "35-Dinitroaniline" Mass(as): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 91.6 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:51:00 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: 8.28 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.33 min
Area: 9.23e+005 counts
Height: 251086.685 cps
Start Time: 8.24 min
End Time: 8.42 min



Hnm 03/01/10

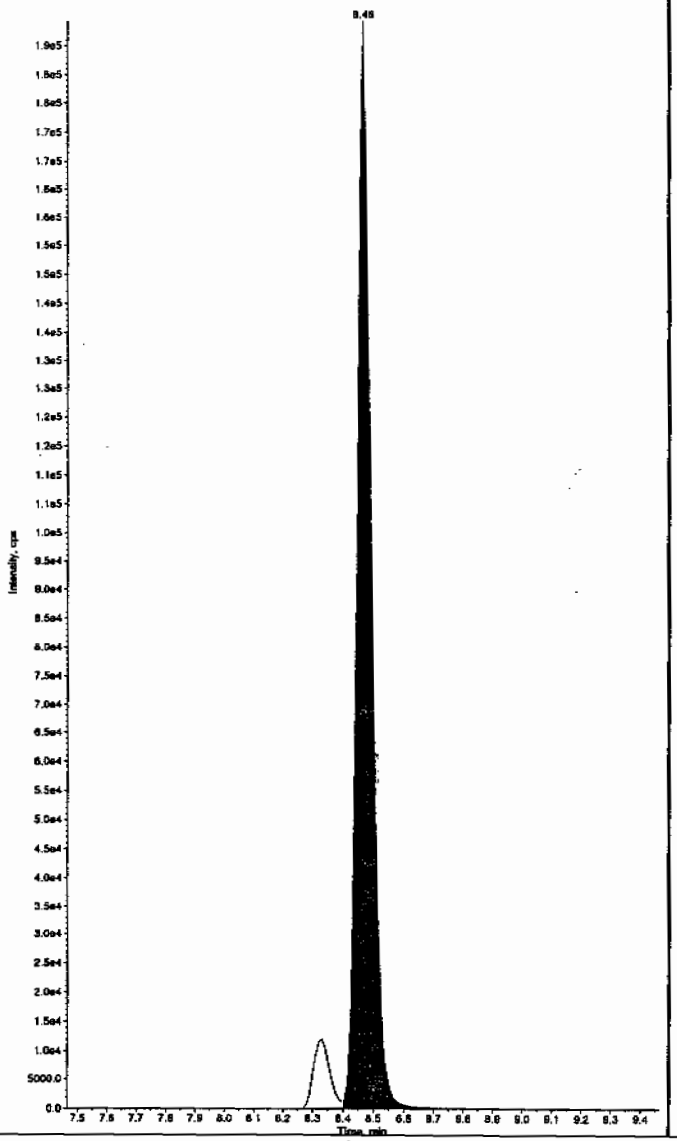
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260039.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 43.9 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:51:00 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.46 min
Area: 6.35e+005 counts
Height: 189587.891 cps
Start Time: 8.40 min
End Time: 8.76 min

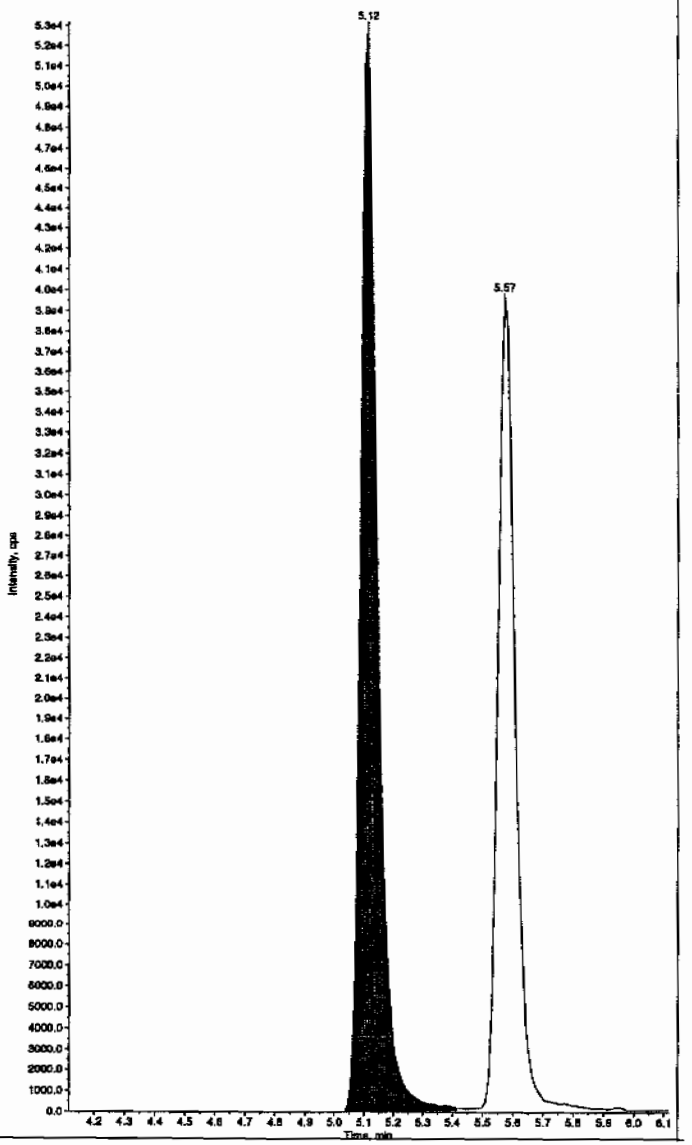


Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260039.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 102. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:51:00 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.12 min
Area: 2.21e+005 counts
Height: 53184.658 cps
Start Time: 4.97 min
End Time: 5.42 min



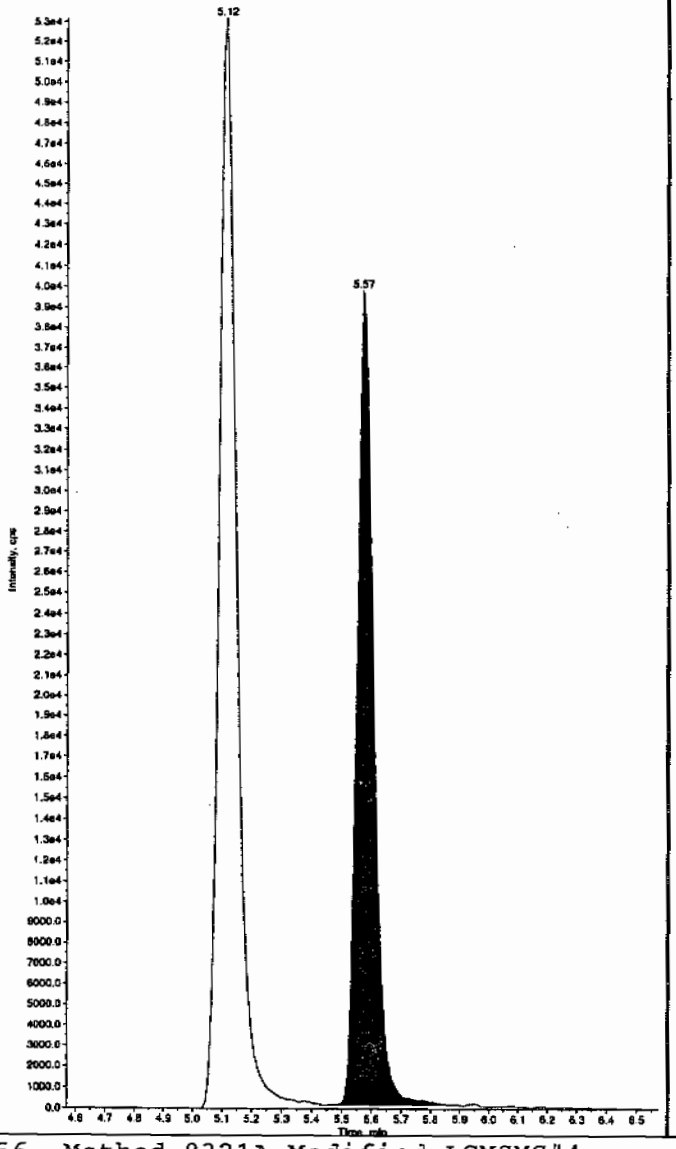
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100225-27CRI" Sample ID: "[1]LER" File: "EXS02260039.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 103. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:51:00 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.57 min
Area: 1.57e+005 counts
Height: 39630.726 cps
Start Time: 5.46 min
End Time: 5.87 min

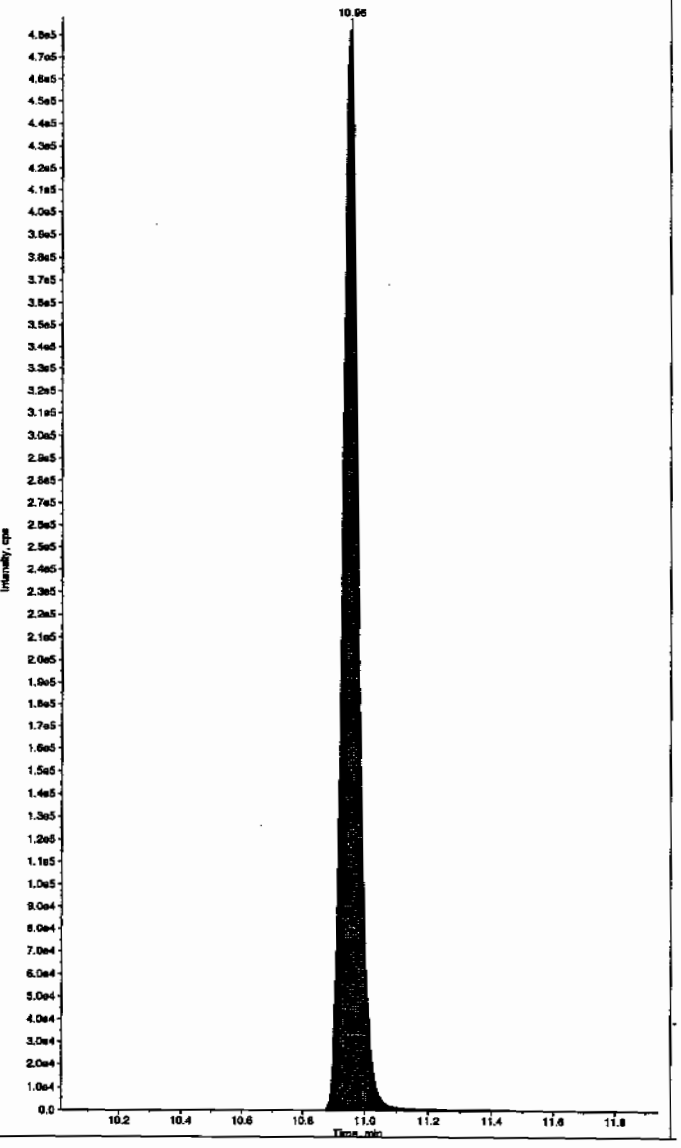


Sample Name: "WXX100225-27CRI" Sample ID: "[1]LER" File: "EXS02260039.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 102. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 12:51:00 AM

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: 11.0 min
Area: 1.75e+006 counts
Height: 488172.638 cps
Start Time: 10.8 min
End Time: 11.3 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260050.wiff

Analysis Date: 27-FEB-10 03:43

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	250	226	91	
3,5-Dinitroaniline	500	482	96	
TATB	500	521	104	
tris(o-cresyl) phosphate	500	513	103	
2,4-Diamino-6-nitrotoluene	500	556	111	
2,6-Diamino-4-nitrotoluene	500	574	115	

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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

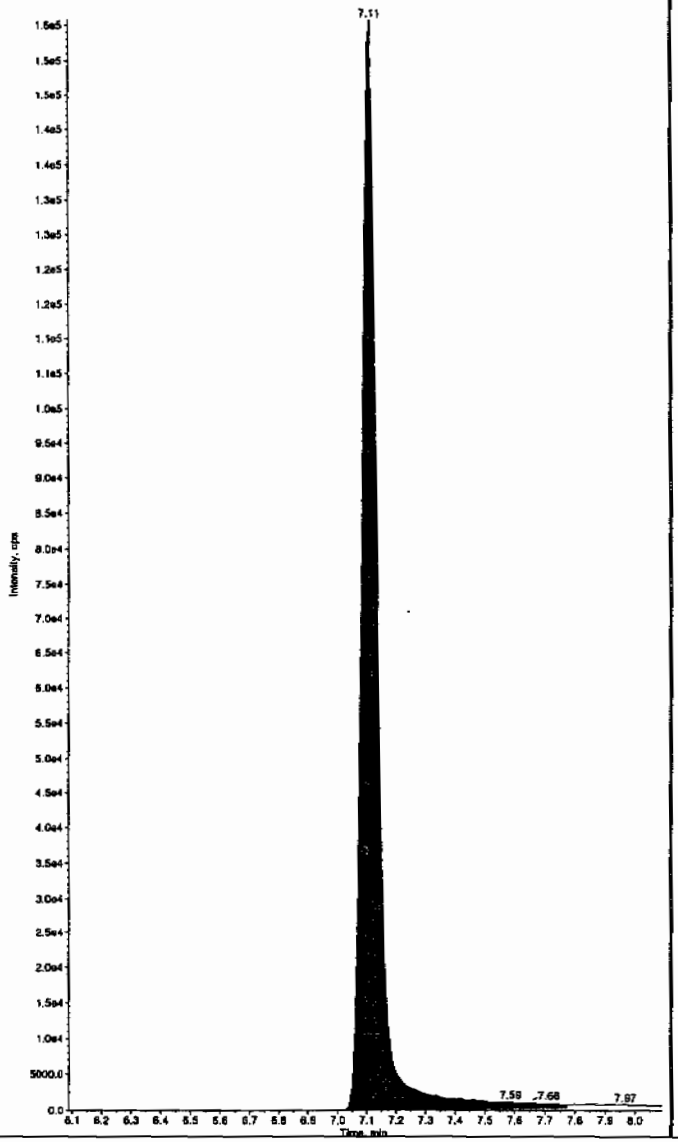
Ran 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260050.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 521. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 3:43:44 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.11 min
Area: 6.17e+005 counts
Height: 155759.445 cps
Start Time: 7.02 min
End Time: 7.77 min

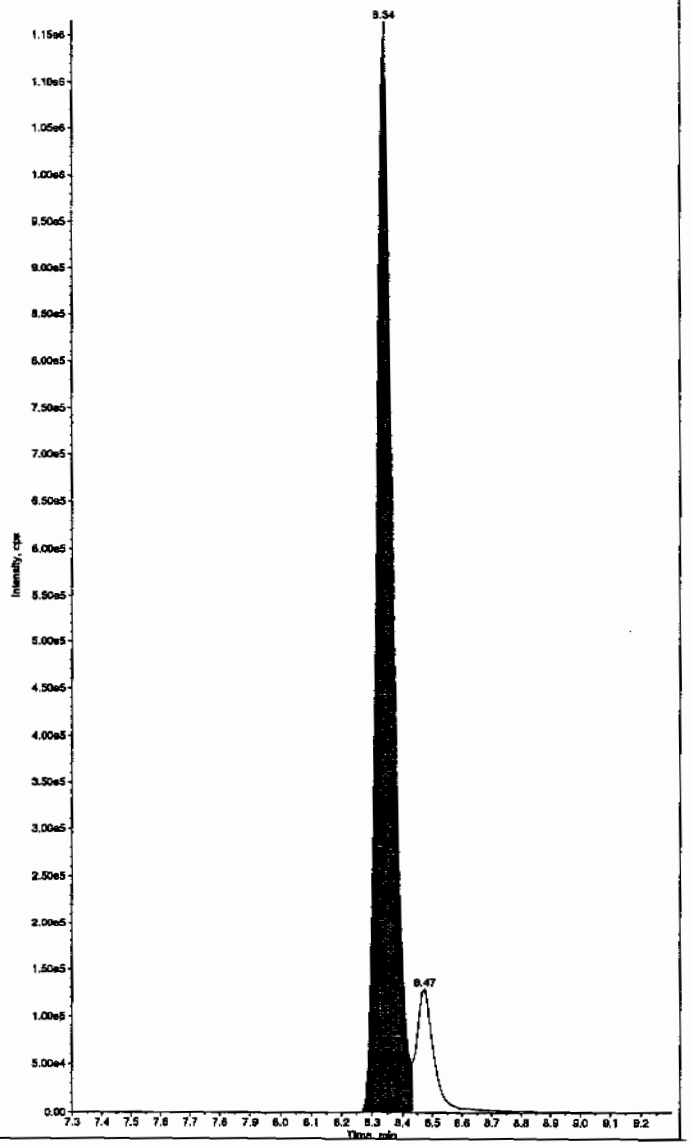


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260050.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 482. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 3:43:44 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: 8.30 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.34 min
Area: 4.42e+006 counts
Height: 1165491.943 cps
Start Time: 8.25 min
End Time: 8.43 min



Hnm 03/01/10

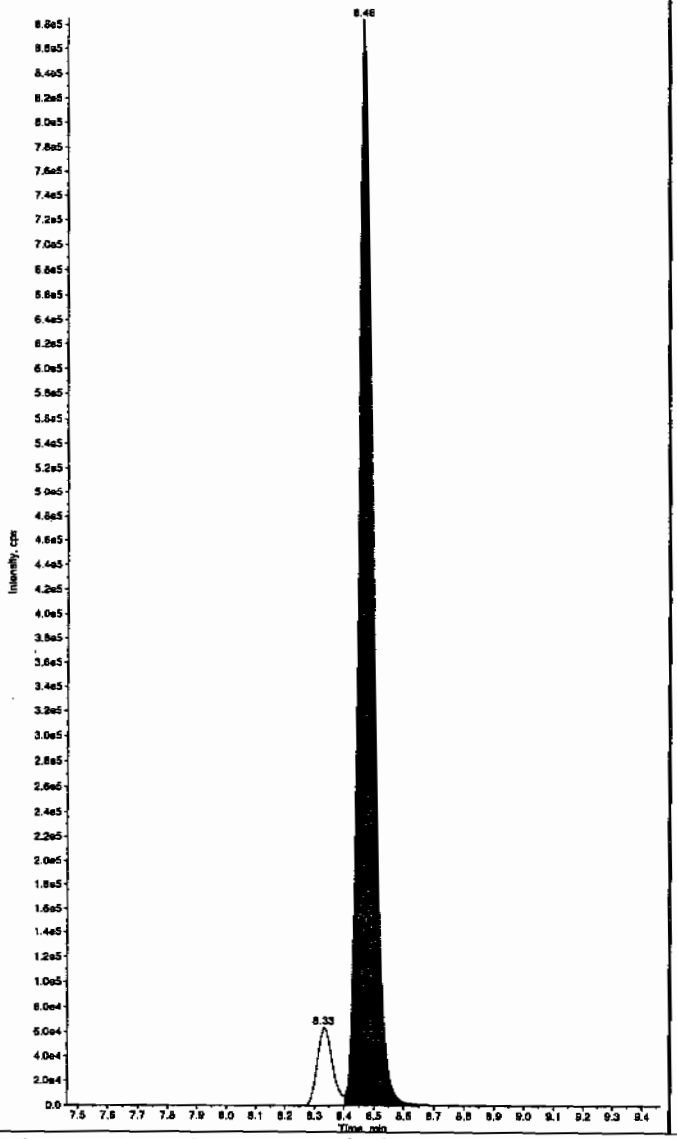
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260050.wiff"
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: 226. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 3:43:44 AM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.46 min
Area: 3.13e+006 counts
Height: 884715.454 cps
Start Time: 8.40 min
End Time: 8.79 min

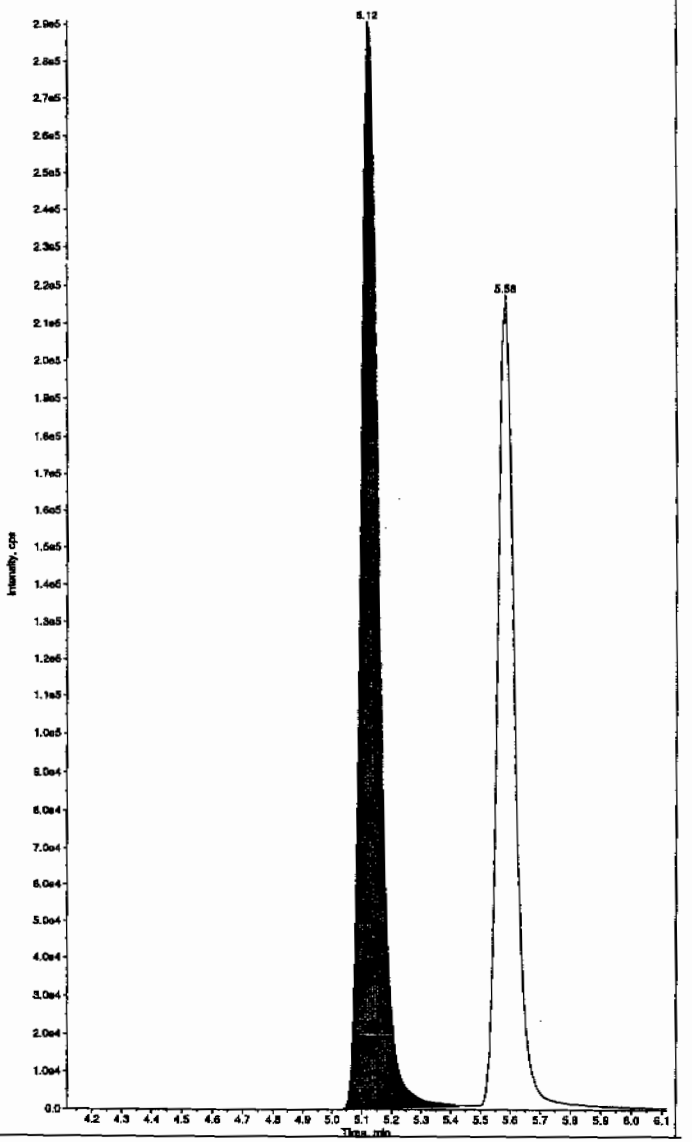


Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260050.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 574. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 3:43:44 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.12 min
Area: 1.26e+006 counts
Height: 290760.040 cps
Start Time: 5.02 min
End Time: 5.43 min



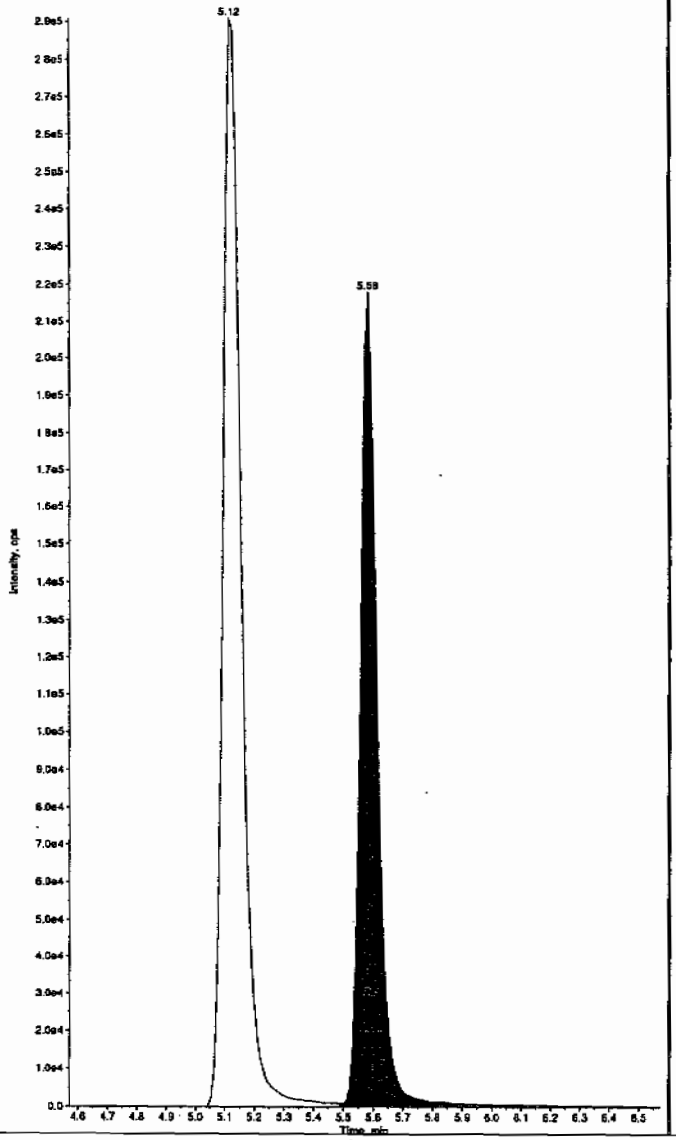
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260050.wiff"
Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 556. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 3:43:44 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.58 min
Area: 8.90e+005 counts
Height: 217654.068 cps
Start Time: 5.49 min
End Time: 6.08 min

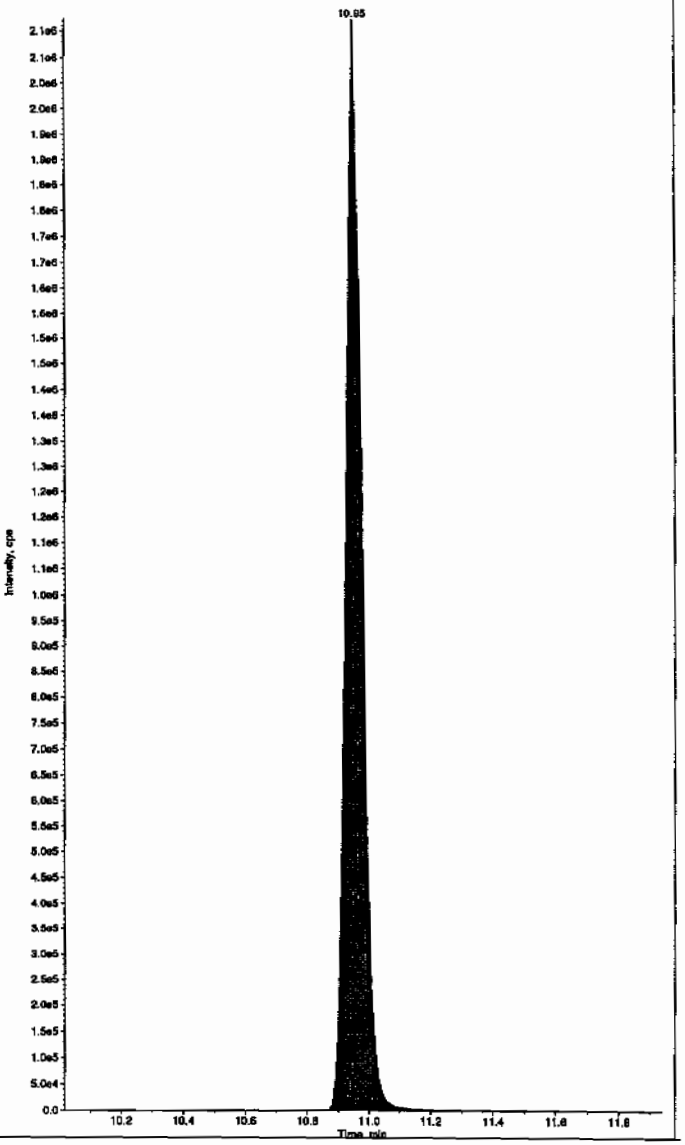


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260050.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 513. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 3:43:44 AM

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: 7.90e+006 counts
Height: 2125021.484 cps
Start Time: 10.8 min
End Time: 11.2 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): 10–1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260052.wiff

Analysis Date: 27–FEB–10 04:15

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	100	119	119	
2,6–Diamino–4–nitrotoluene	100	121	121	
3,4–Dinitrotoluene	50	46.3	93	
3,5–Dinitroaniline	100	92.4	92	
TATB	100	109	109	
tris(o–cresyl) phosphate	100	102	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 50–150%
OtherTarget Analytes 70–130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

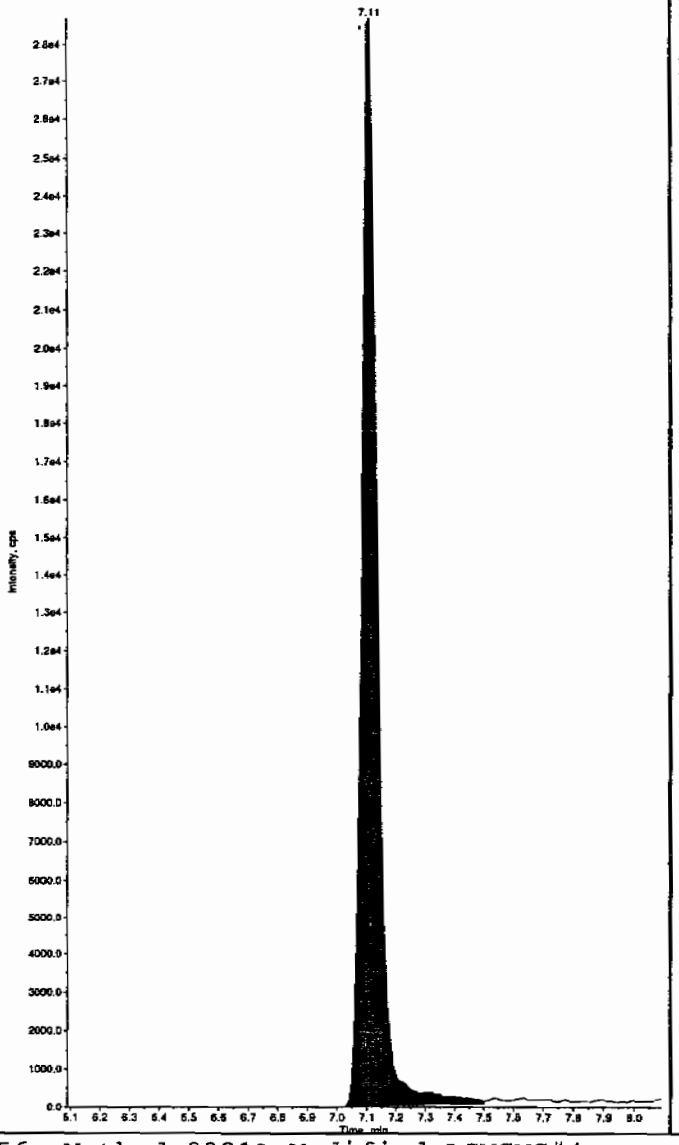
Before Scan 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260052.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 109. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:15:10 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.11 min
Area: 1.13e+005 counts
Height: 28701.506 cps
Start Time: 7.02 min
End Time: 7.50 min

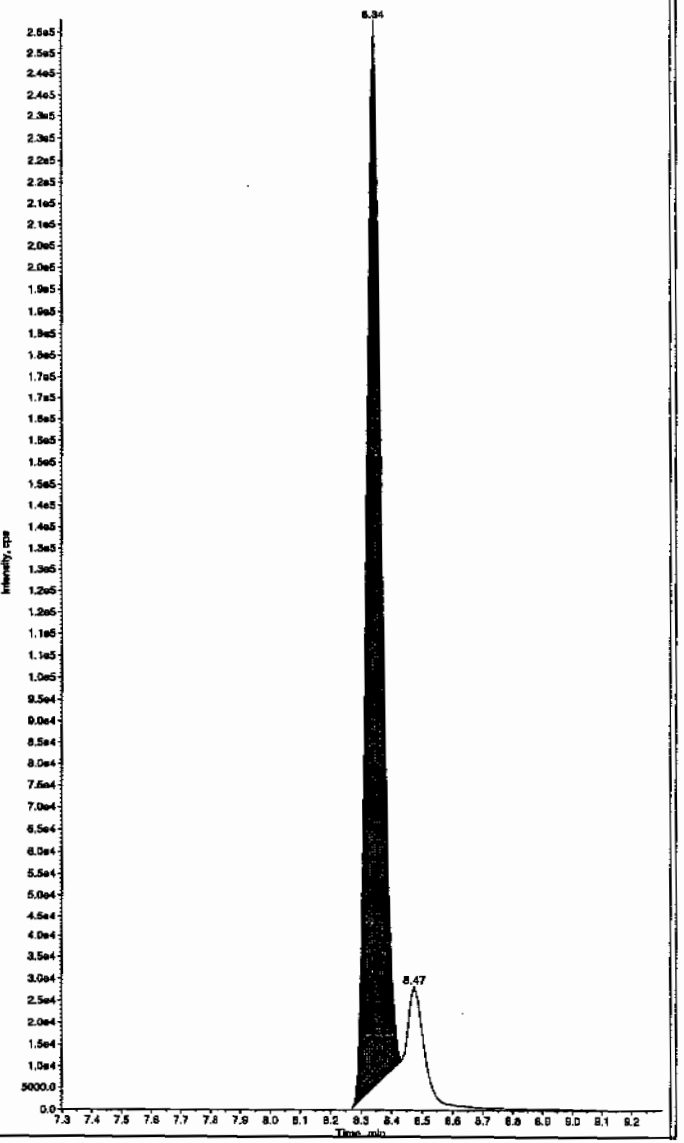


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260052.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 86.8 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:15:10 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: 8.30 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.34 min
Area: 8.78e+005 counts
Height: 248106.522 cps
Start Time: 8.27 min
End Time: 8.43 min



HMM 03/01/10

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

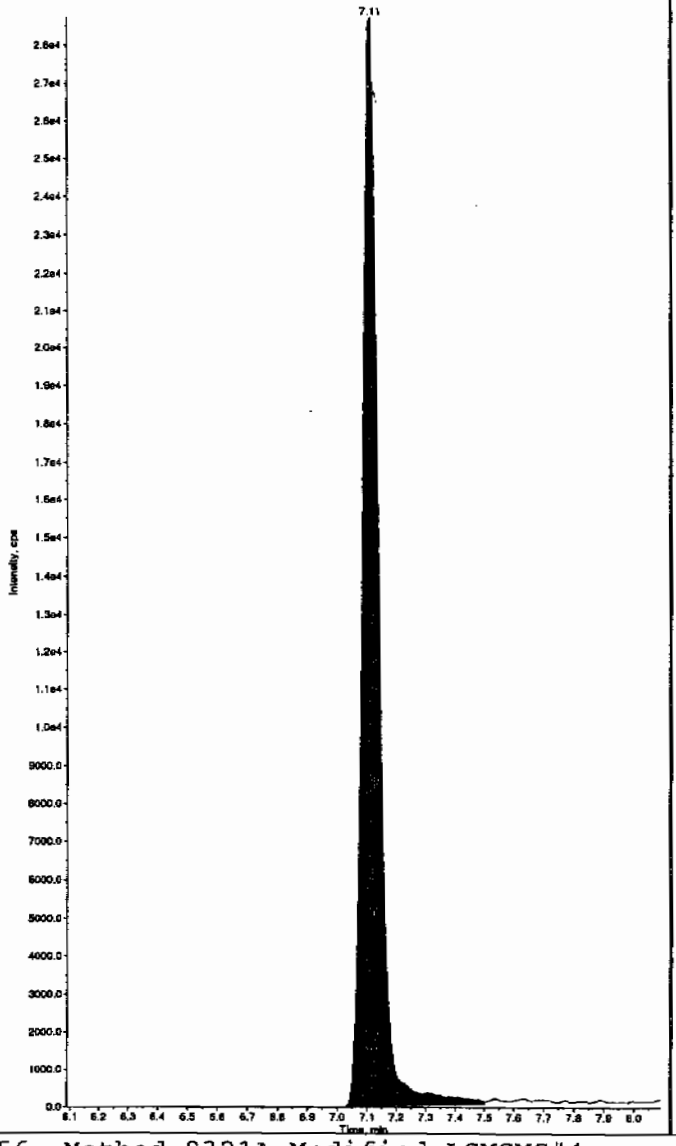
after Scan 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260052.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 109. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:15:10 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.11 min
Area: 1.13e+005 counts
Height: 28701.506 cps
Start Time: 7.02 min
End Time: 7.50 min

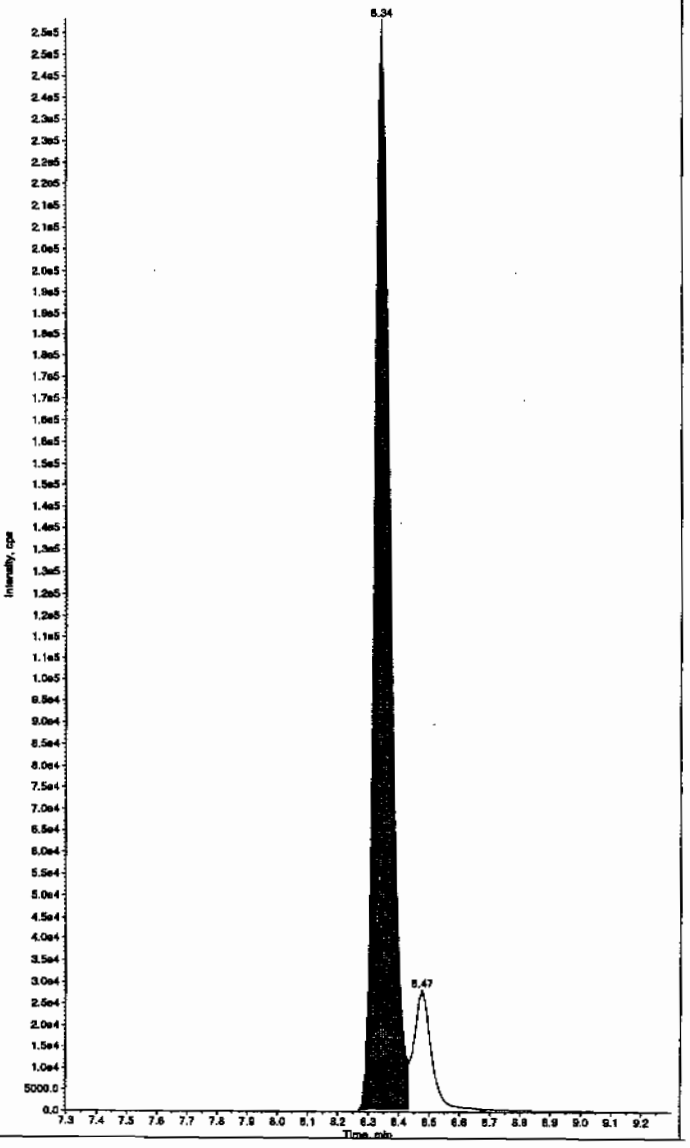


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260052.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 92.4 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:15:10 AM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.30 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.34 min
Area: 9.31e+005 counts
Height: 252788.637 cps
Start Time: 8.27 min
End Time: 8.43 min



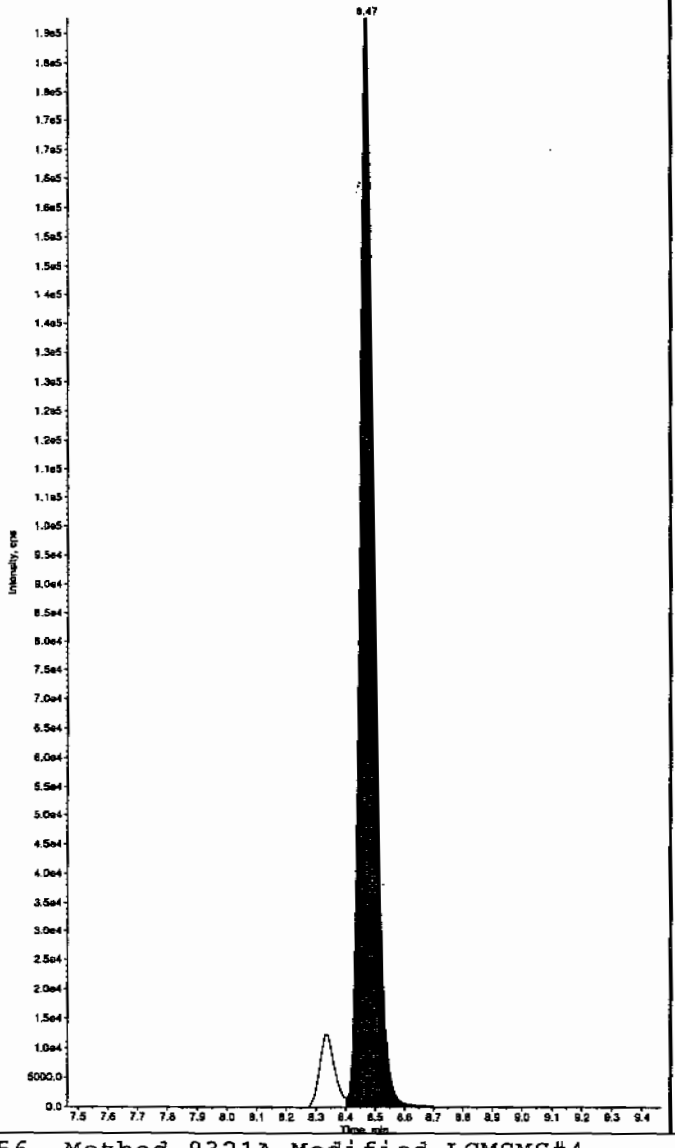
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260052.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 46.3 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:15:10 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.47 min
Area: 6.70e+005 counts
Height: 187516.296 cps
Start Time: 8.40 min
End Time: 8.79 min

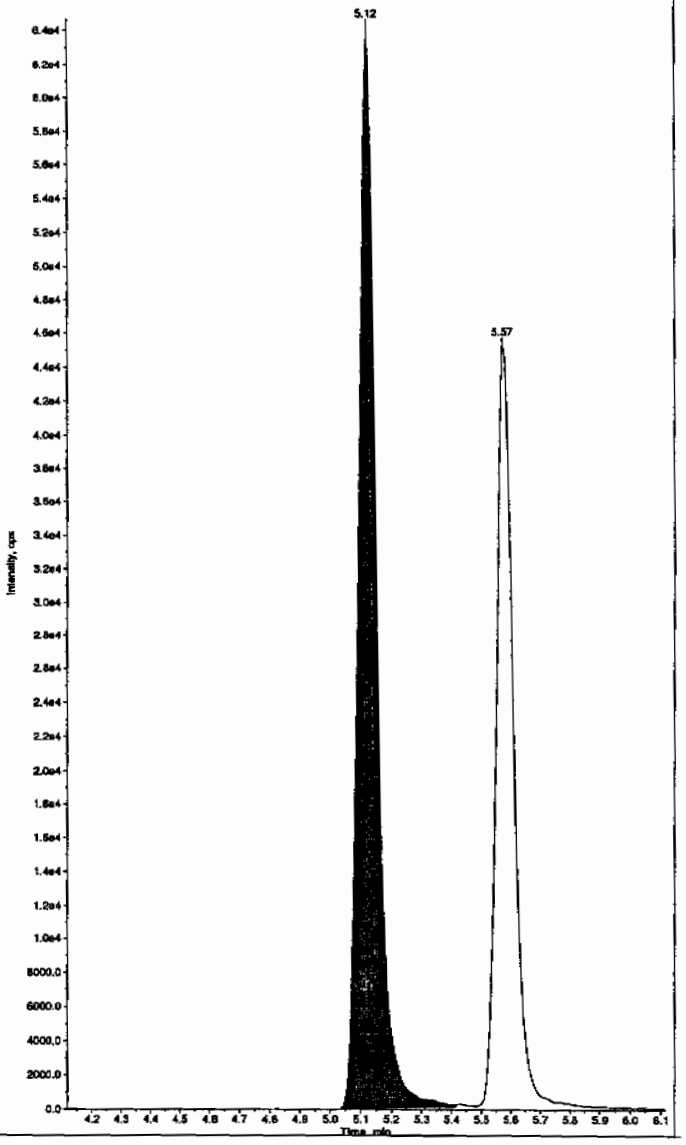


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260052.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 121. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:15:10 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.12 min
Area: 2.64e+005 counts
Height: 64638.481 cps
Start Time: 5.02 min
End Time: 5.42 min



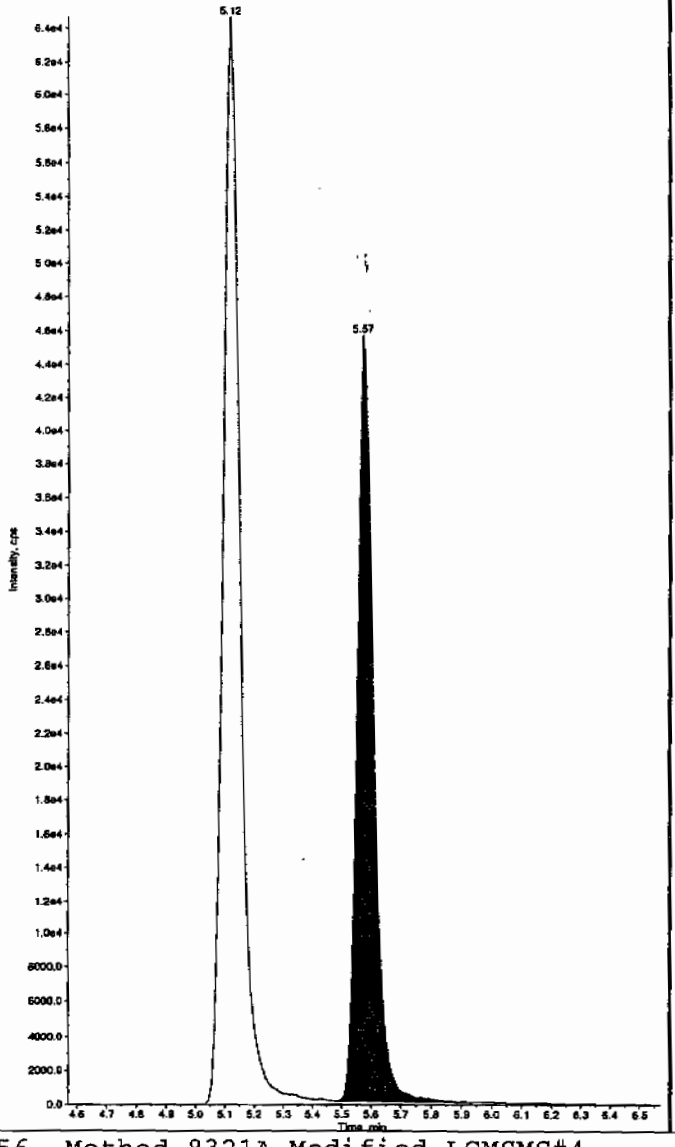
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260052.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 119. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:15:10 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.57 min
Area: 1.32e+005 counts
Height: 45589.886 cps
Start Time: 5.48 min
End Time: 5.93 min

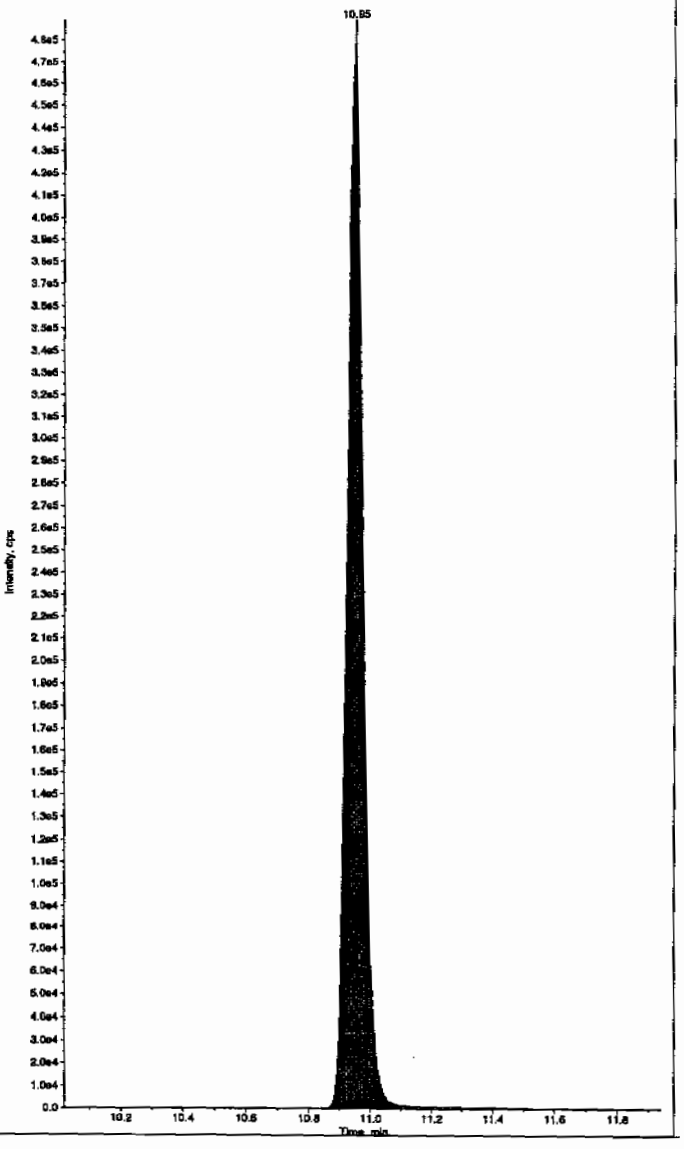


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260052.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 102. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:15:10 AM

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: 11.0 min
Area: 1.75e+006 counts
Height: 488648.682 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10–1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260060.wiff

Analysis Date: 27–FEB–10 06:20

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	500	571	114	
2,6–Diamino–4–nitrotoluene	500	590	118	
3,4–Dinitrotoluene	250	232	93	
3,5–Dinitroaniline	500	480	96	
TATB	500	542	108	
tris(o–cresyl) phosphate	500	485	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%
OtherTarget Analytes 80–120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

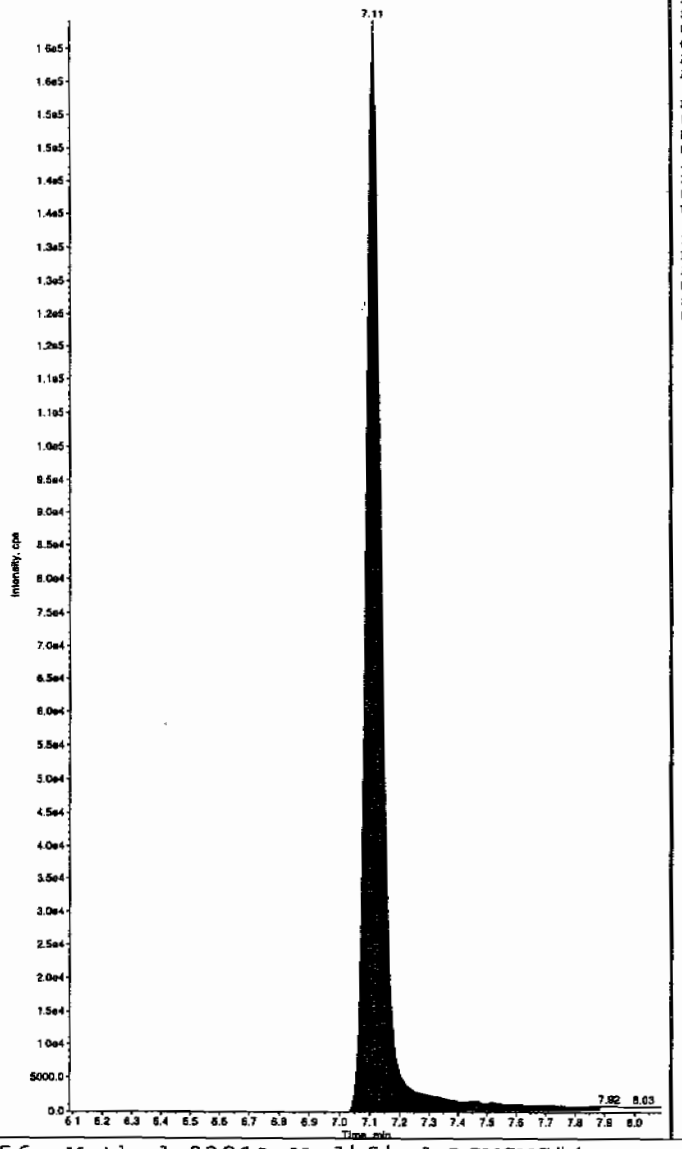
Lcn 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260060.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 542. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:20:48 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.11 min
Area: 6.43e+005 counts
Height: 164211.945 cps
Start Time: 7.01 min
End Time: 7.89 min

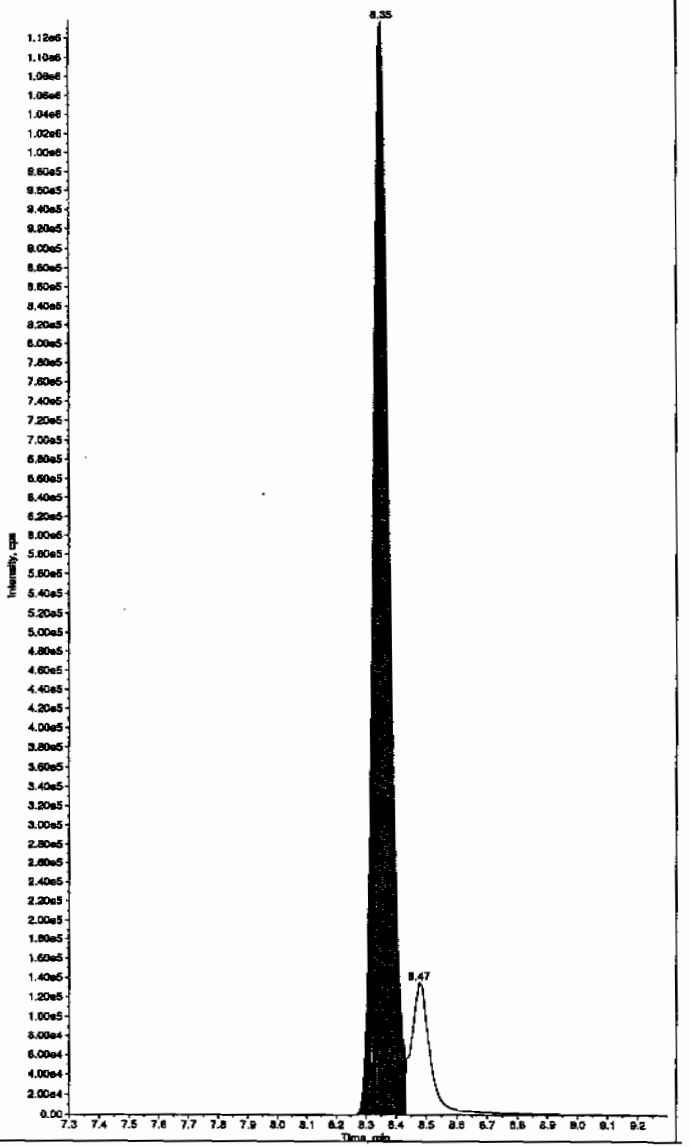


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260060.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 480. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:20:48 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: 8.30 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.35 min
Area: 4.40e+006 counts
Height: 1138583.862 cps
Start Time: 8.25 min
End Time: 8.43 min



Hmm 03/01/10

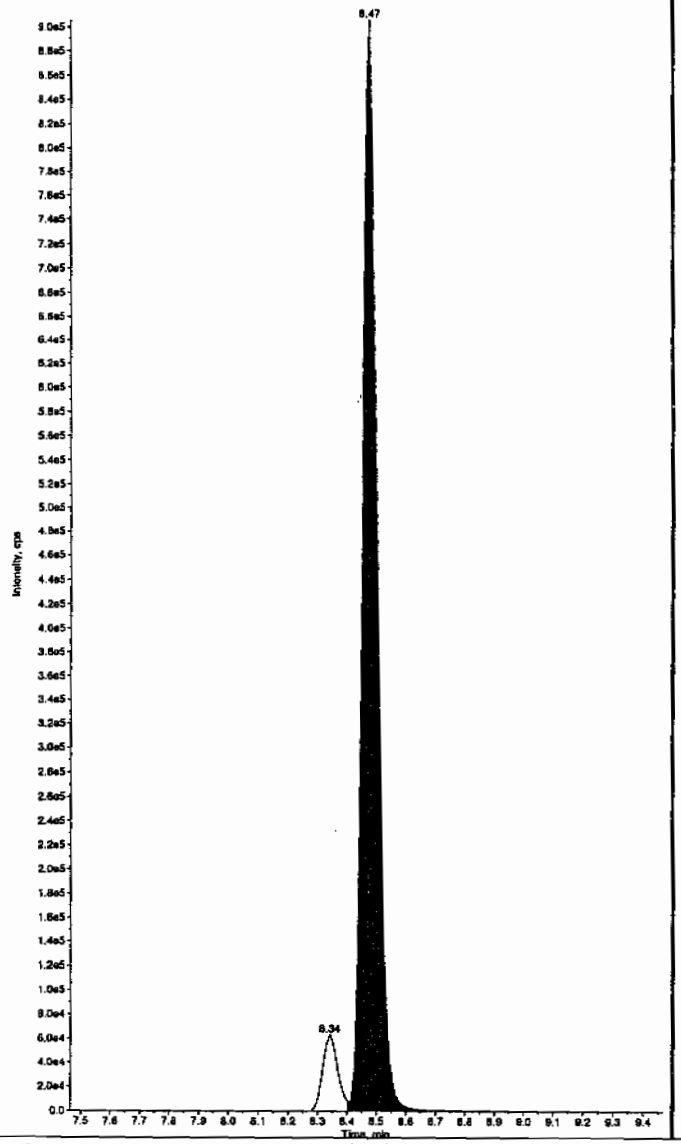
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260060.wiff"
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: 232. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:20:48 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.47 min
Area: 3.20e+006 counts
Height: 905951.782 cps
Start Time: 8.40 min
End Time: 8.84 min

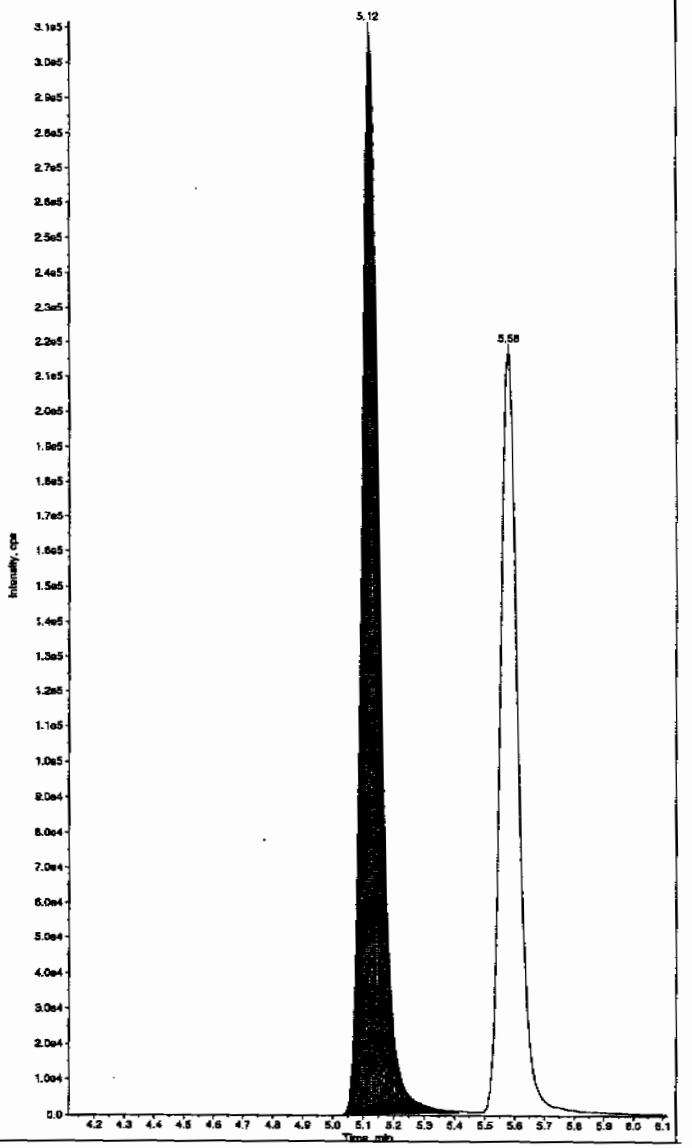


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260060.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "165.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 590. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:20:48 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.12 min
Area: 1.30e+006 counts
Height: 311600.555 cps
Start Time: 5.02 min
End Time: 5.42 min



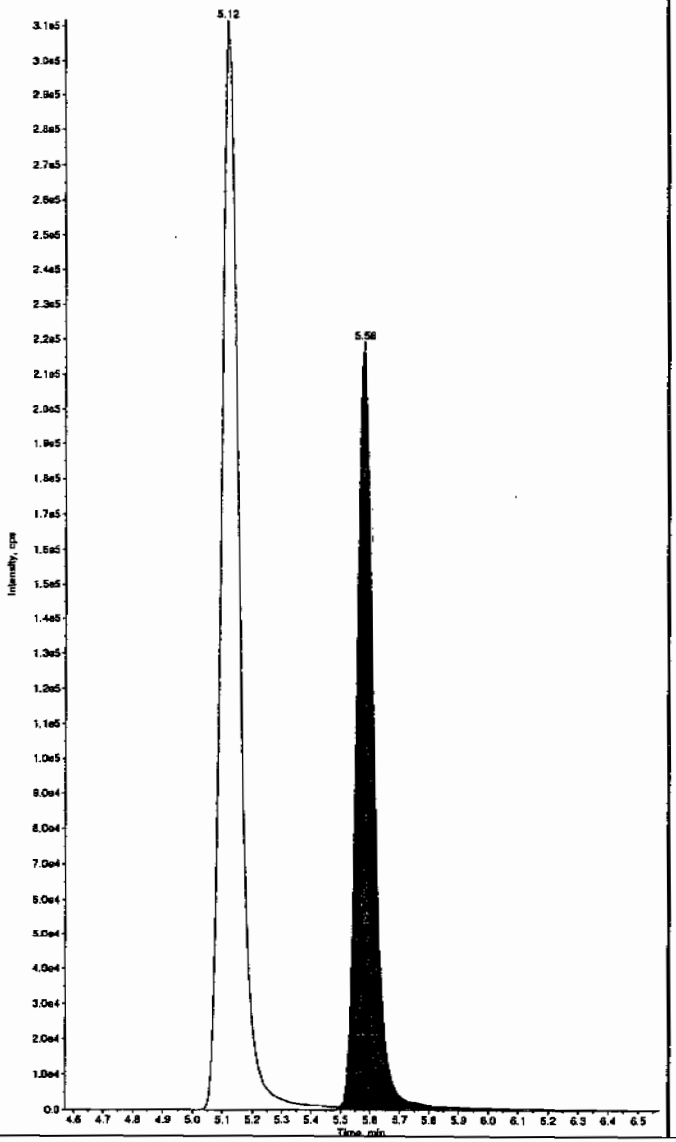
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260060.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 571. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:20:48 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.58 min
Area: 9.14e+005 counts
Height: 219210.556 cps
Start Time: 5.49 min
End Time: 6.07 min

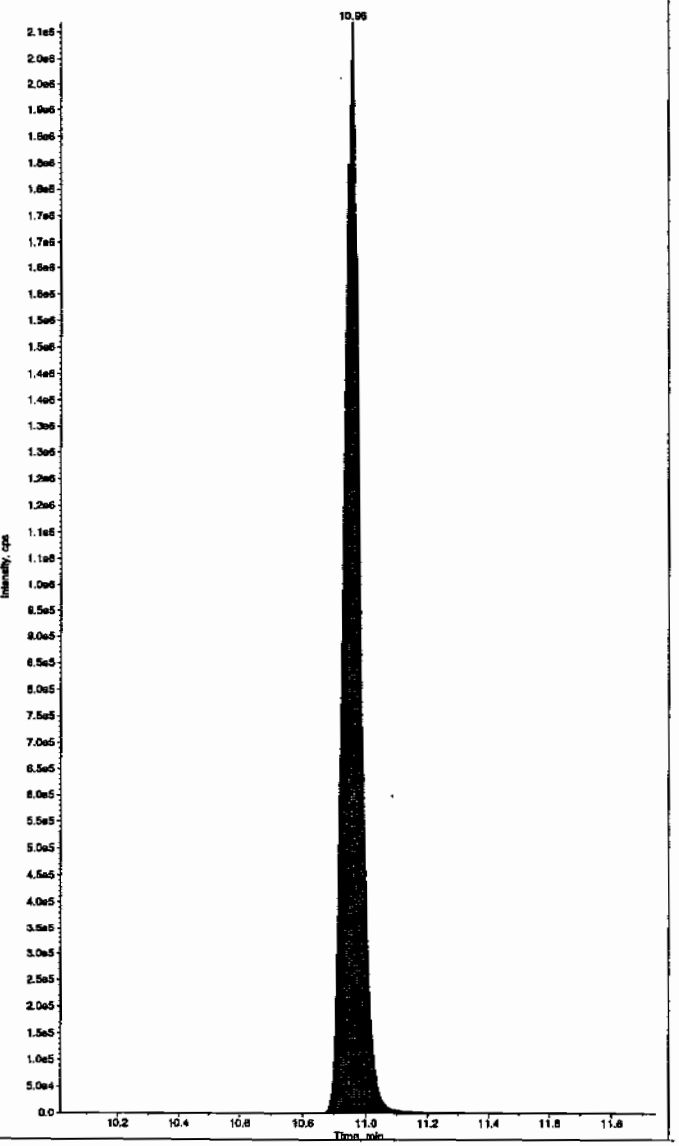


Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260060.wiff"
Peak Name: "Iris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 485. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:20:48 AM

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: 11.0 min
Area: 7.50e+006 counts
Height: 2068702.393 cps
Start Time: 10.9 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260062.wiff

Analysis Date: 27-FEB-10 06:52

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	115	115	
2,6-Diamino-4-nitrotoluene	100	115	115	
3,4-Dinitrotoluene	50	45.9	92	
3,5-Dinitroaniline	100	93	93	
TATB	100	117	117	
tris(o-cresyl) phosphate	100	96.2	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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

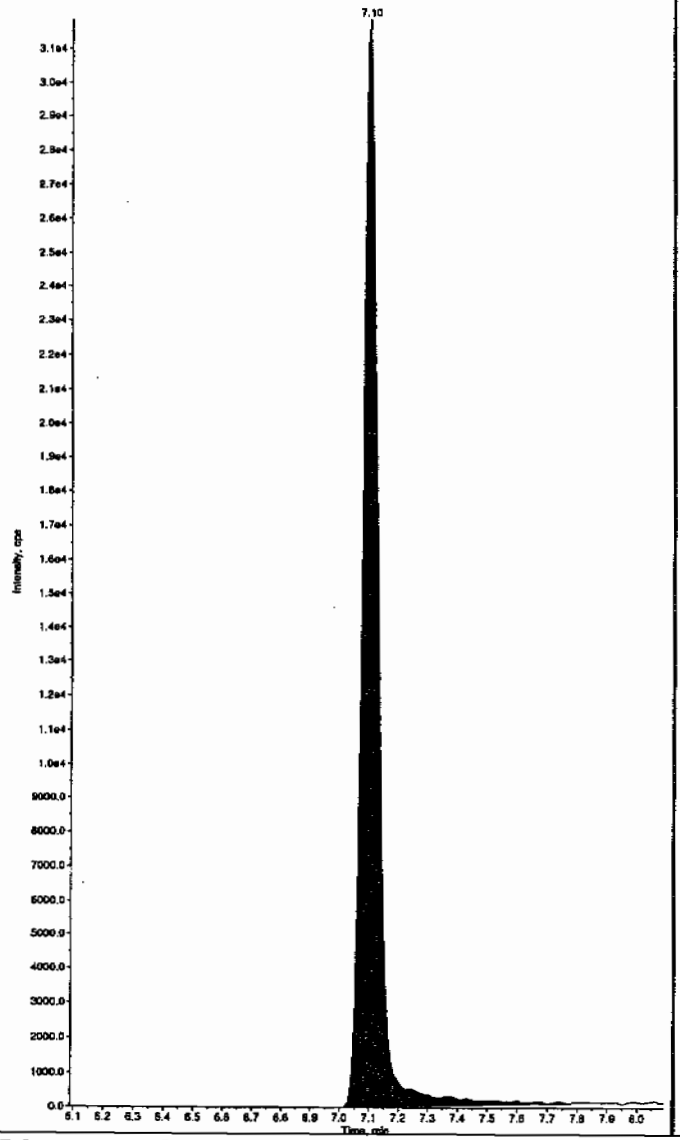
Rcn 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02250062.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 117. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:52:11 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.10 min
Area: 1.23e+005 counts
Height: 31840.464 cps
Start Time: 6.99 min
End Time: 7.77 min

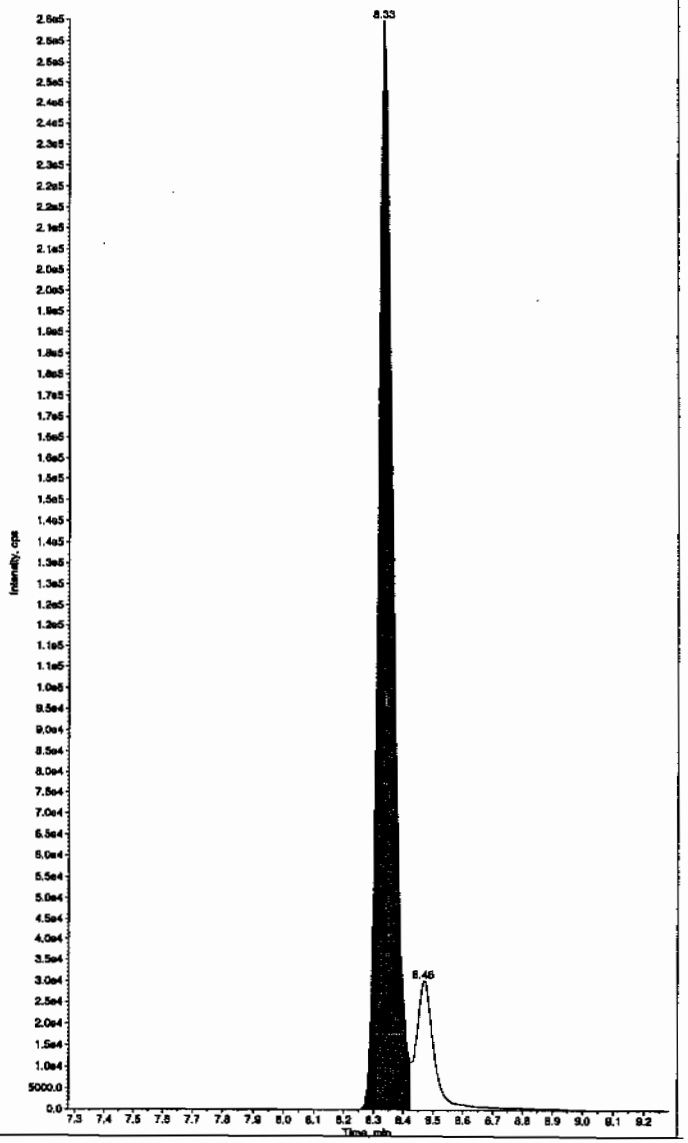


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02250062.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "152.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 93.0 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:52:11 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: 8.28 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.33 min
Area: 9.37e+005 counts
Height: 260031.525 cps
Start Time: 8.23 min
End Time: 8.42 min



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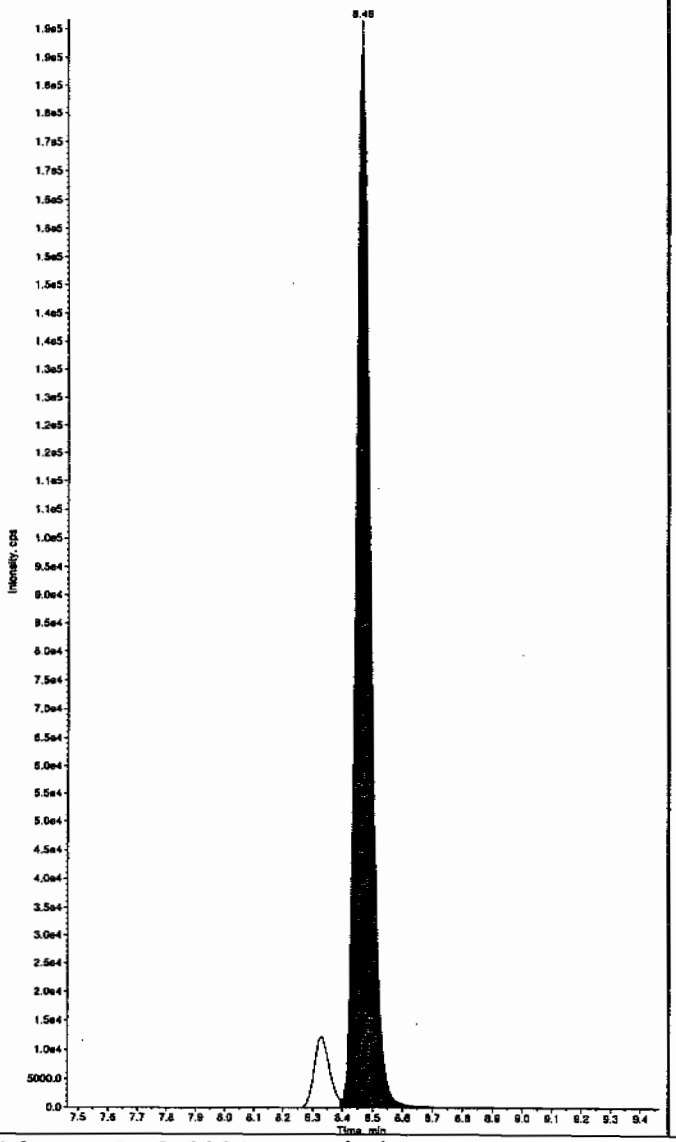
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02250062.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 45.9 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:52:11 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.46 min
Area: 6.63e+005 counts
Height: 191753.464 cps
Start Time: 8.39 min
End Time: 8.81 min

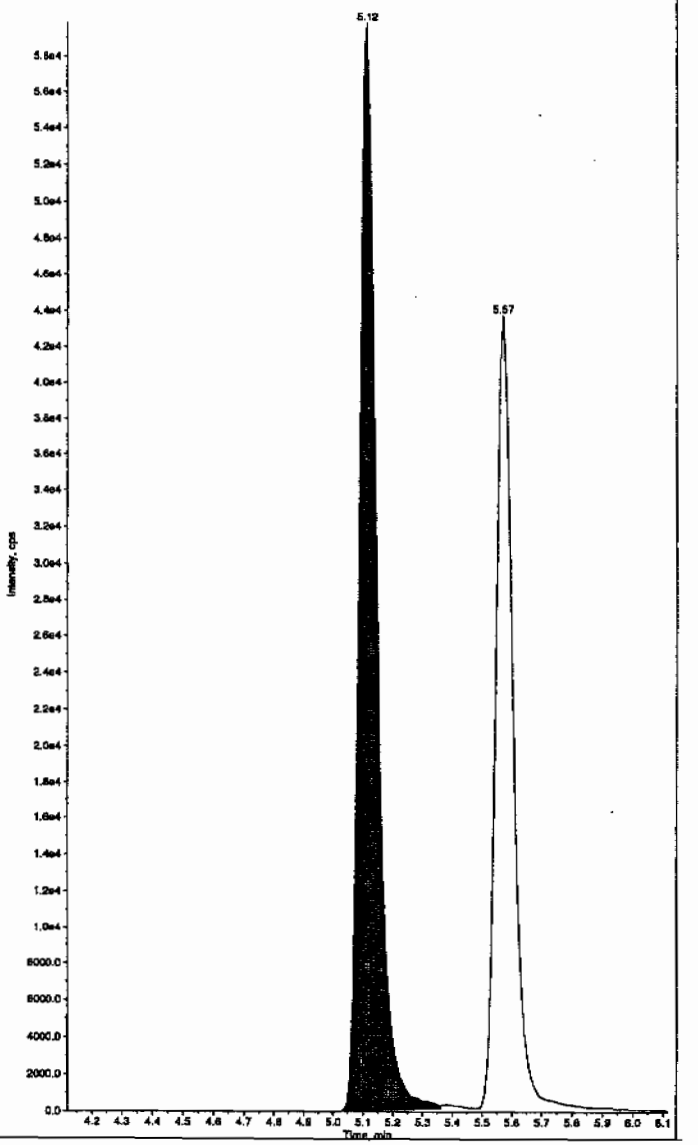


Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02250062.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 115. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:52:11 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.12 min
Area: 2.52e+005 counts
Height: 59789.192 cps
Start Time: 5.00 min
End Time: 5.36 min



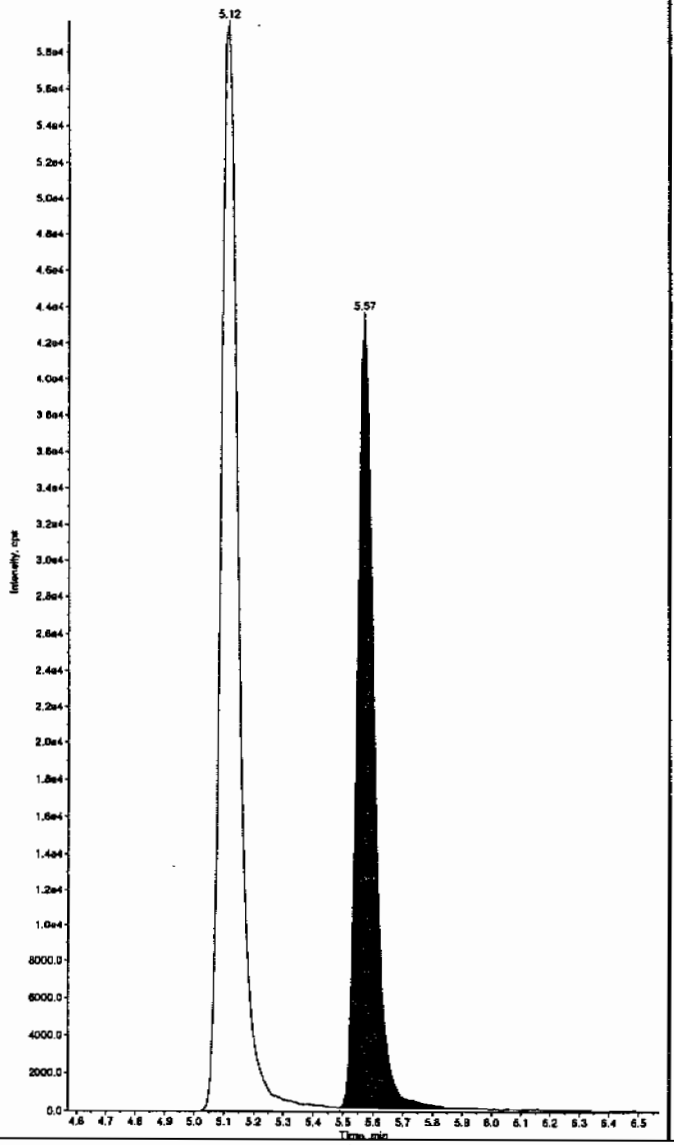
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02250062.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 115. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:52:11 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.57 min
Area: 1.76e+005 counts
Height: 43545.845 cps
Start Time: 5.49 min
End Time: 5.95 min

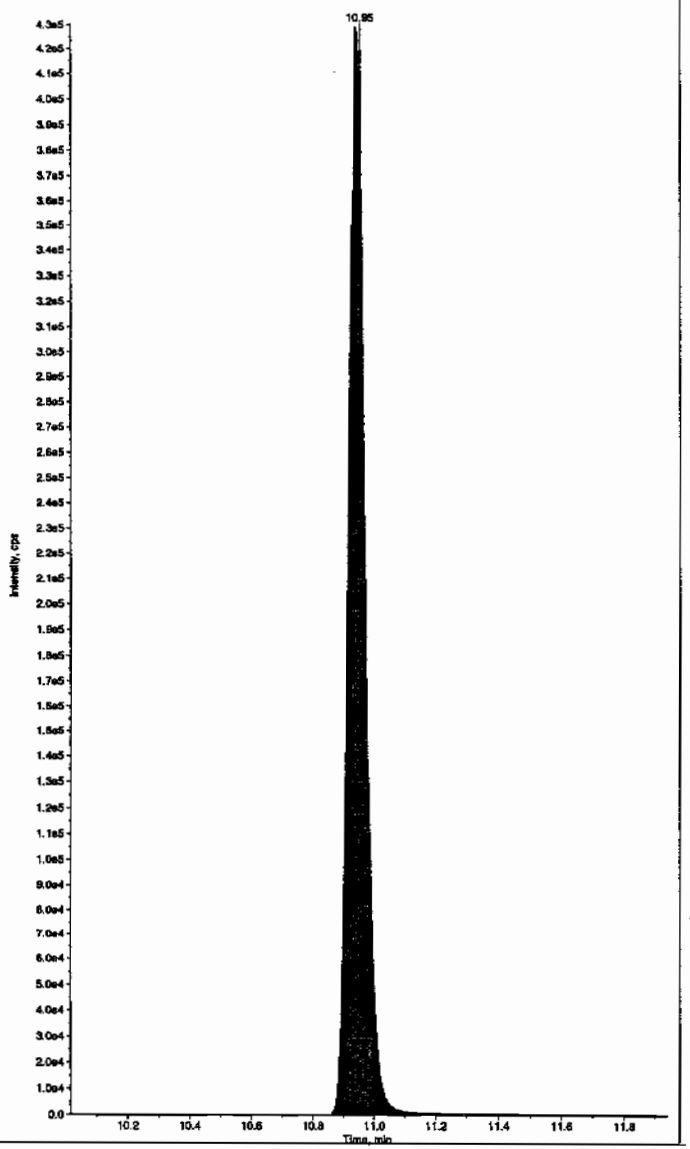


Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02250062.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 96.2 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 6:52:11 AM

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: 11.0 min
Area: 1.66e+006 counts
Height: 430343.140 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260073.wiff

Analysis Date: 27-FEB-10 09:44

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	546	109	
2,6-Diamino-4-nitrotoluene	500	540	108	
3,4-Dinitrotoluene	250	227	91	
3,5-Dinitroaniline	500	497	99	
TATB	500	538	108	
tris(o-cresyl) phosphate	500	493	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 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

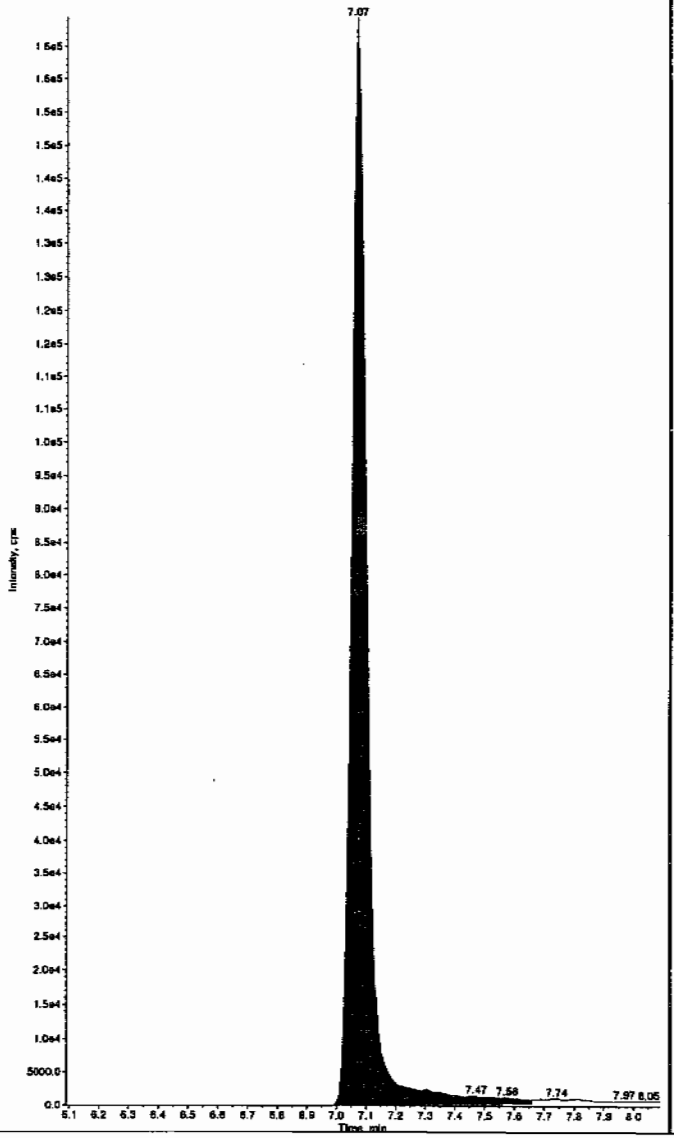
Lan 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260073.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 538. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 9:44:55 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.07 min
Area: 6.38e+005 counts
Height: 164661.864 cps
Start Time: 6.98 min
End Time: 7.66 min

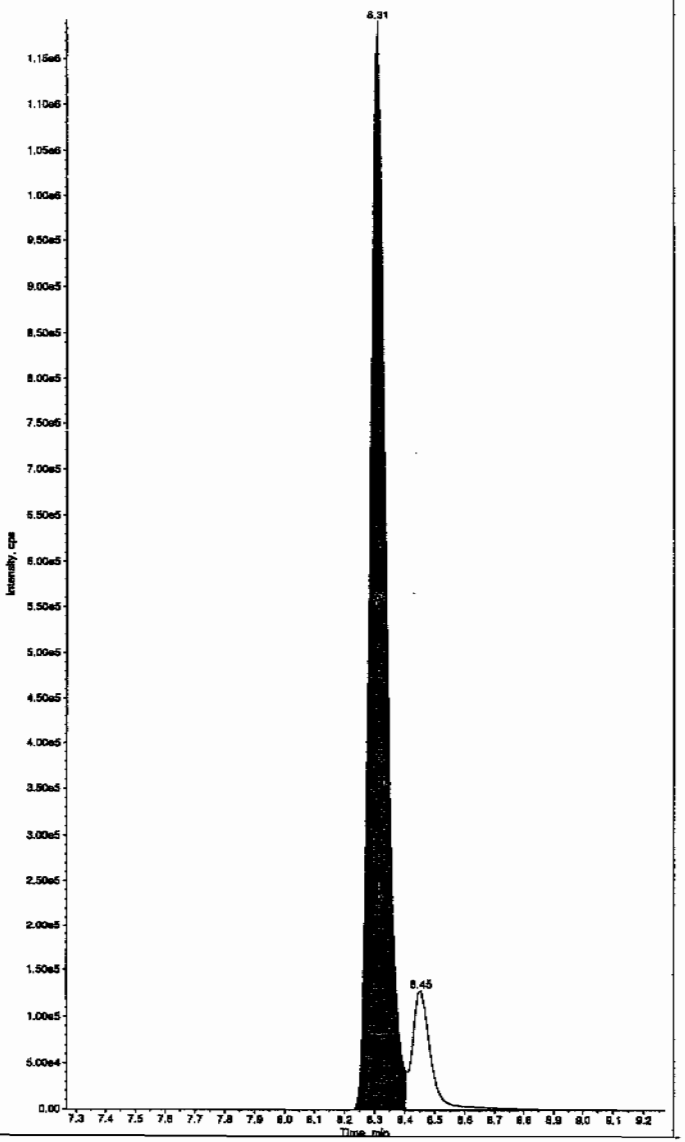


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260073.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 497. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 9:44:55 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: 8.27 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.31 min
Area: 4.54e+006 counts
Height: 1194238.525 cps
Start Time: 8.21 min
End Time: 8.40 min



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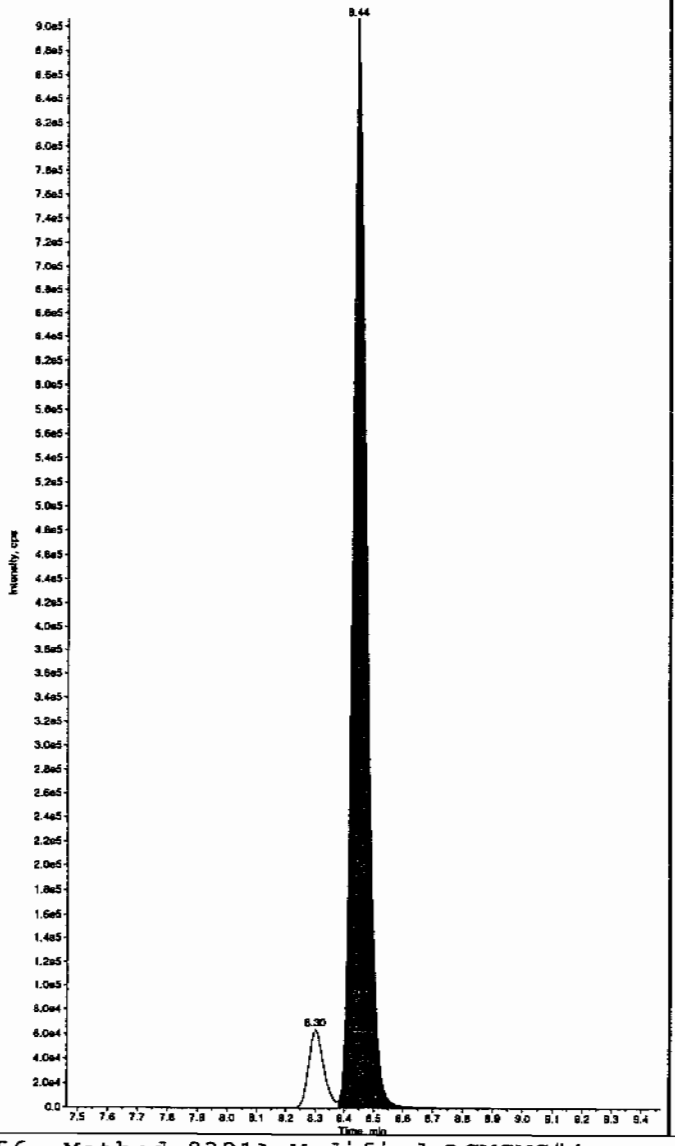
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260073.wiff"
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: 227. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 9:44:55 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.44 min
Area: 3.14e+006 counts
Height: 906183.472 cps
Start Time: 8.38 min
End Time: 8.77 min

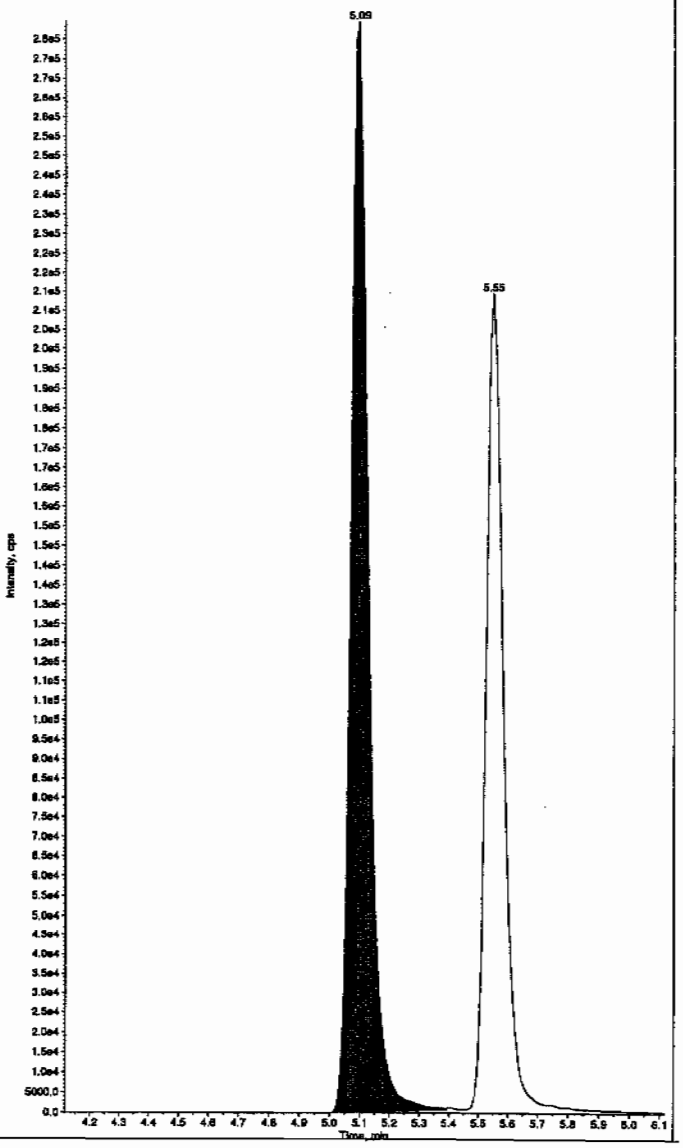


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260073.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 540. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 9:44:55 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.09 min
Area: 1.19e+006 counts
Height: 279406.769 cps
Start Time: 4.99 min
End Time: 5.39 min



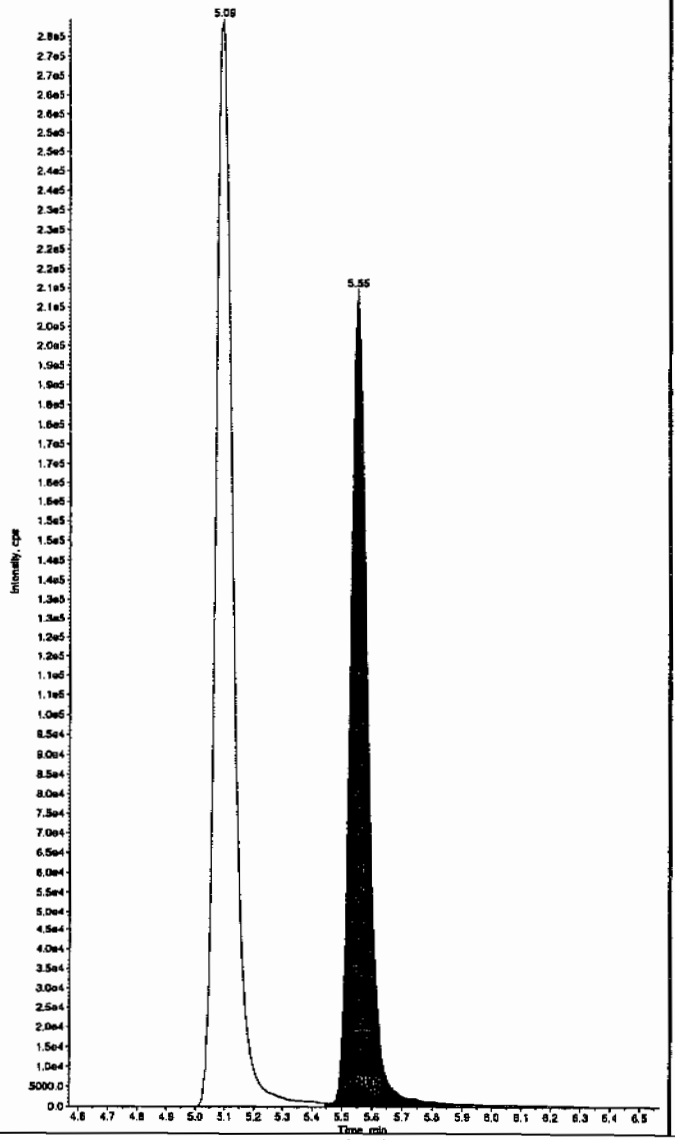
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260073.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 546. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 9:44:55 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.55 min
Area: 8.73e+005 counts
Height: 209572.876 cps
Start Time: 5.45 min
End Time: 6.03 min

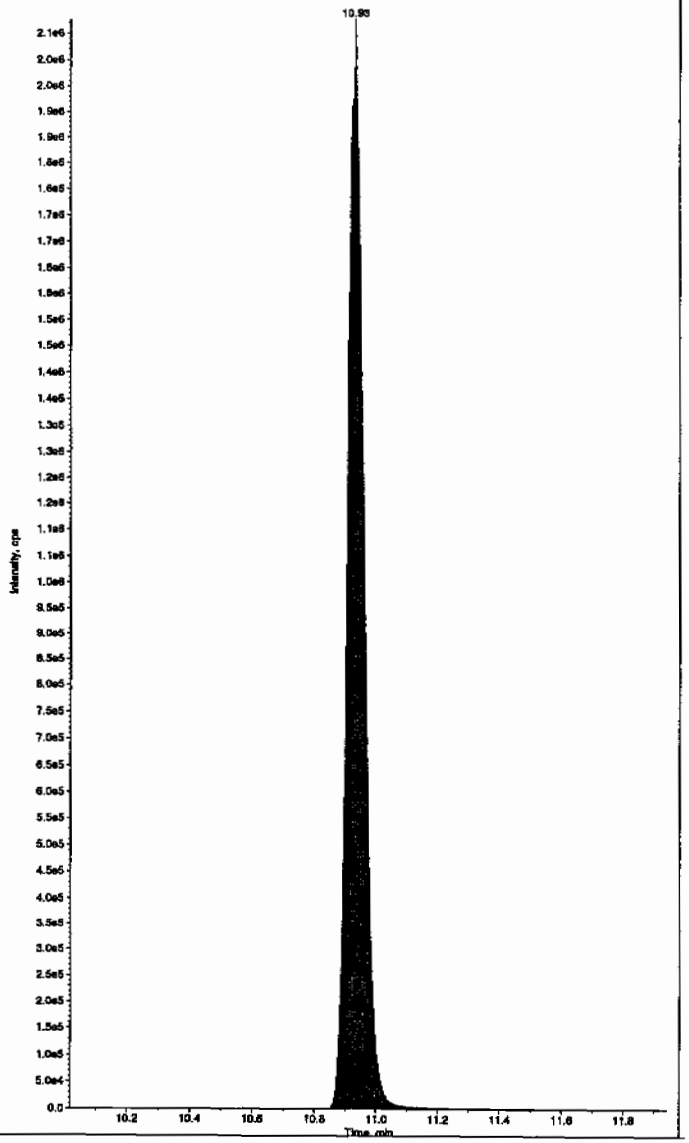


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260073.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 493. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 9:44:55 AM

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: 7.62e+006 counts
Height: 2076728.516 cps
Start Time: 10.8 min
End Time: 11.3 min



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

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7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260075.wiff

Analysis Date: 27-FEB-10 10:16

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	115	115	
2,6-Diamino-4-nitrotoluene	100	117	117	
3,4-Dinitrotoluene	50	46.1	92	
3,5-Dinitroaniline	100	96.7	97	
TATB	100	109	109	
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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

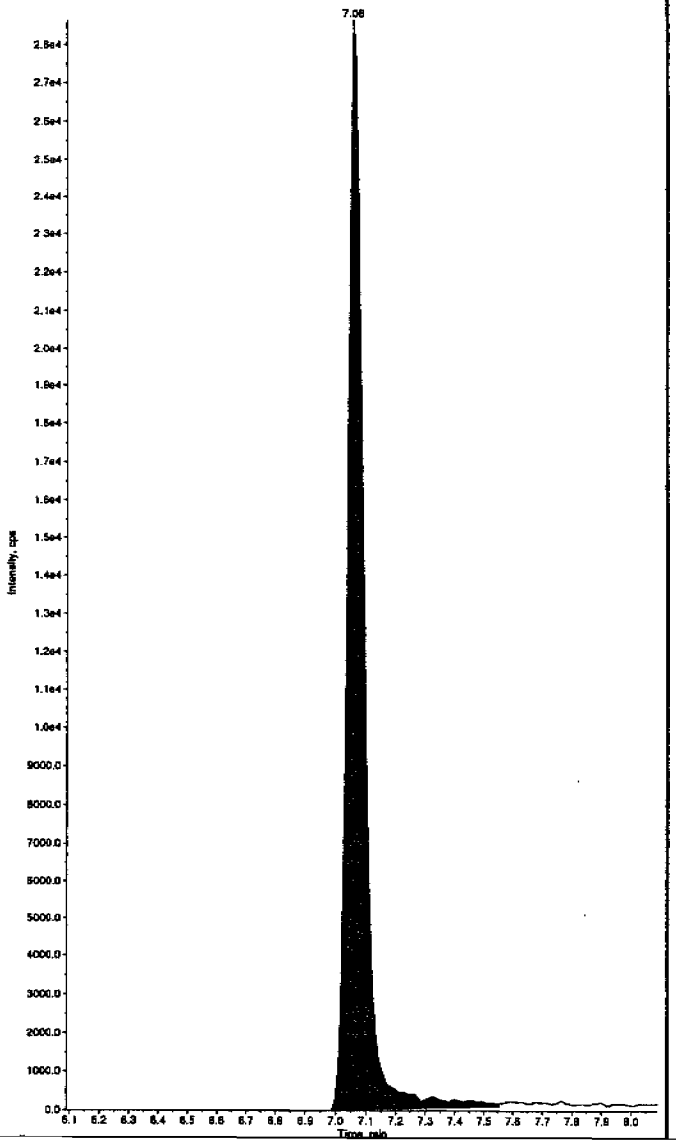
Hm 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260075.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 109. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:16:22 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.06 min
Area: 1.13e+005 counts
Height: 28663.118 cps
Start Time: 6.94 min
End Time: 7.55 min

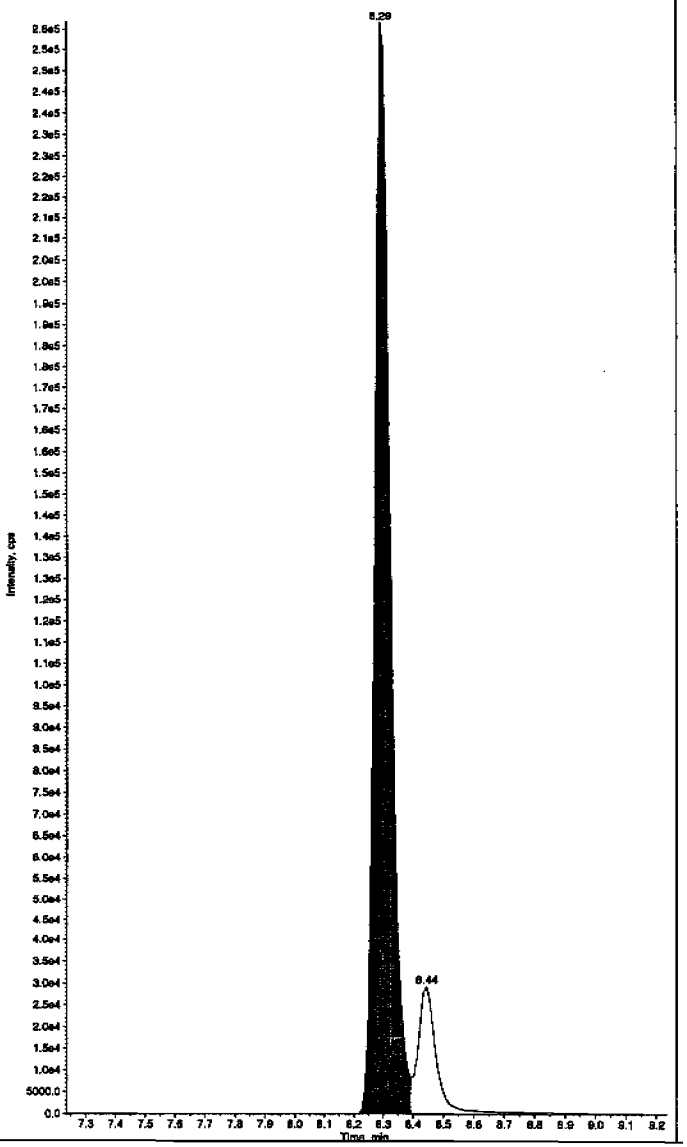


Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260075.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 96.7 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:16:22 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: 8.24 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.29 min
Area: 9.72e+005 counts
Height: 256883.392 cps
Start Time: 8.20 min
End Time: 8.39 min



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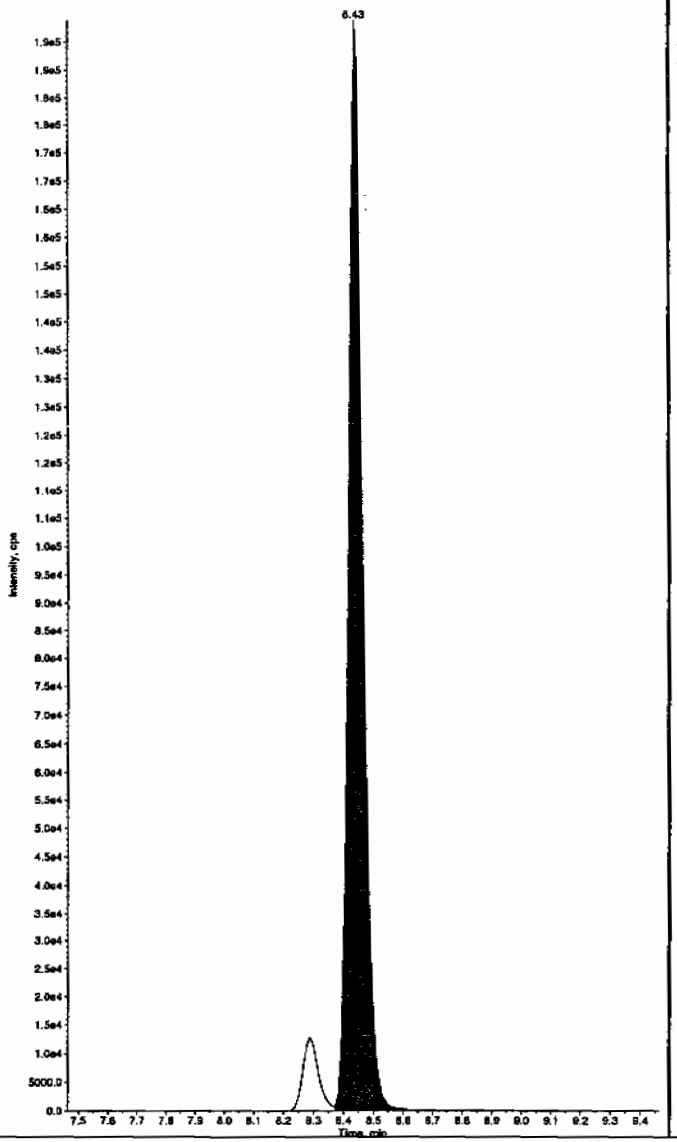
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260075.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 46.1 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:16:22 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.43 min
Area: 6.67e+005 counts
Height: 193711.090 cps
Start Time: 8.37 min
End Time: 8.72 min

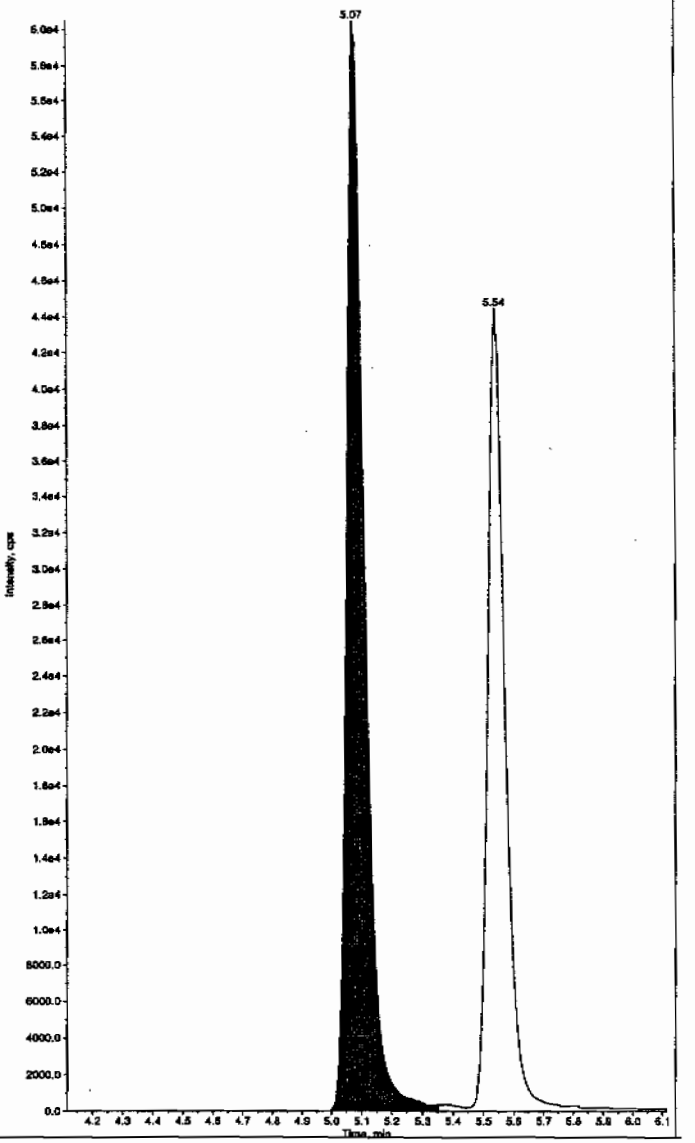


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260075.wiff"
Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 117. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:16:22 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.07 min
Area: 2.57e+005 counts
Height: 60480.255 cps
Start Time: 4.95 min
End Time: 5.35 min



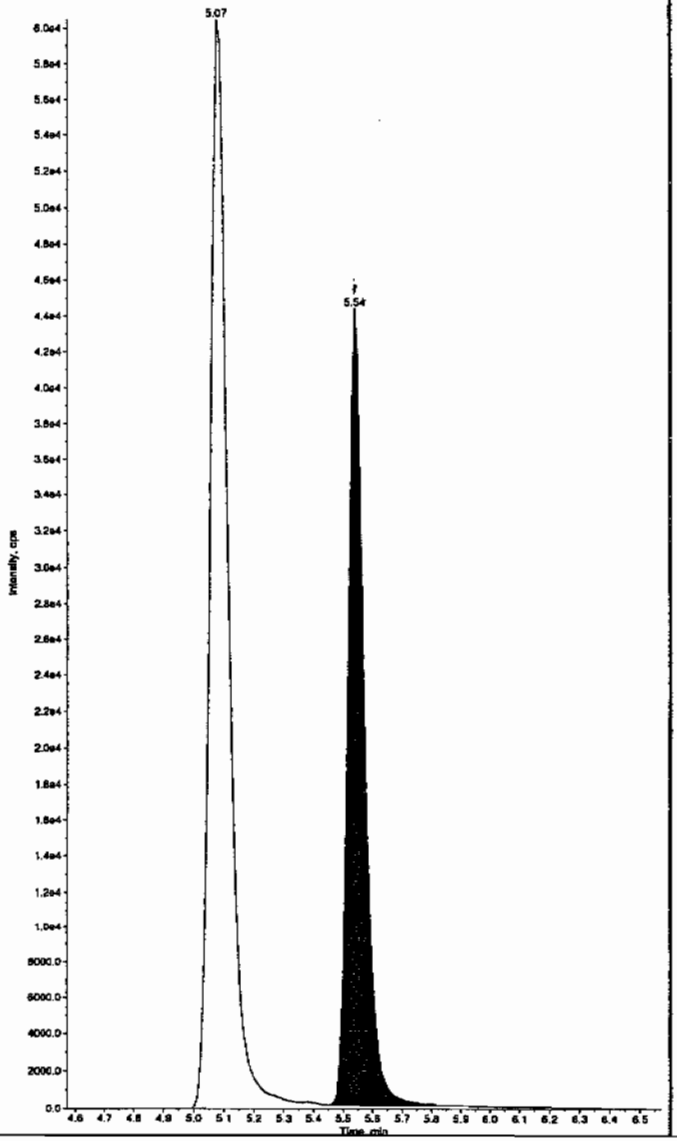
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260075.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 115. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:16:22 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.54 min
Area: 1.76e+005 counts
Height: 44263.847 cps
Start Time: 5.45 min
End Time: 5.85 min

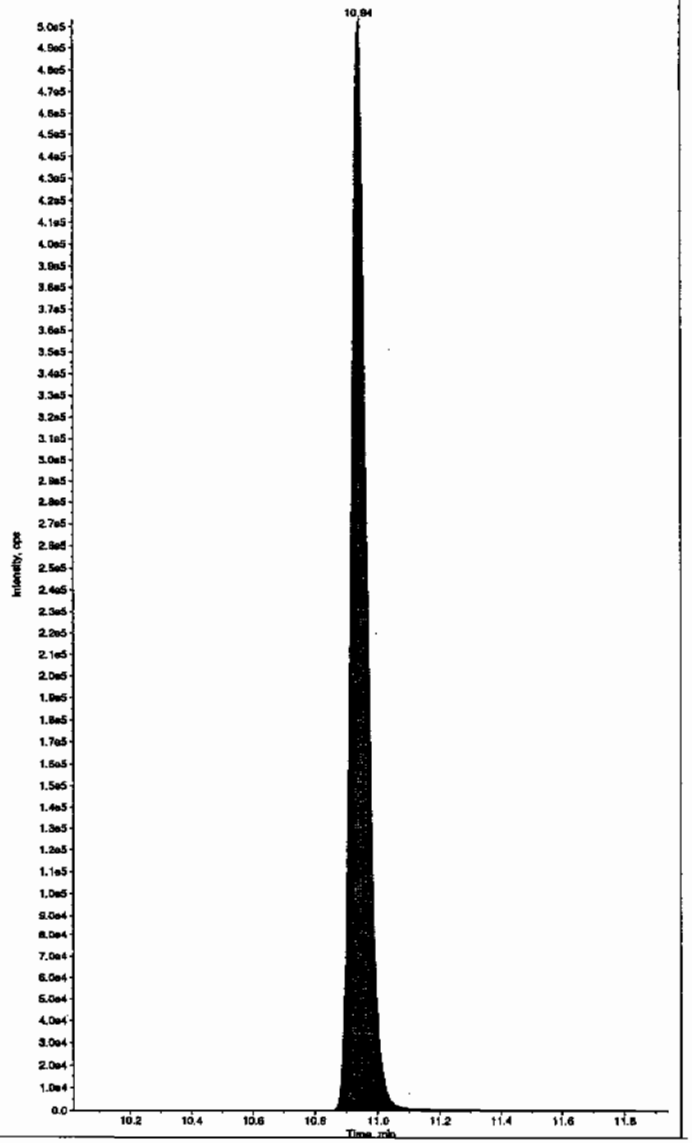


Sample Name: "WXX100225-27CRI" Sample ID: "[1]LER" File: "EXS02260075.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 103. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:16:22 AM

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: 1.77e+006 counts
Height: 503175.293 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260086.wiff

Analysis Date: 27-FEB-10 13:09

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	445	89	
2,6-Diamino-4-nitrotoluene	500	442	89	
3,4-Dinitrotoluene	250	218	87	
3,5-Dinitroaniline	500	452	90	
TATB	500	487	97	
tris(o-cresyl) phosphate	500	491	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 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

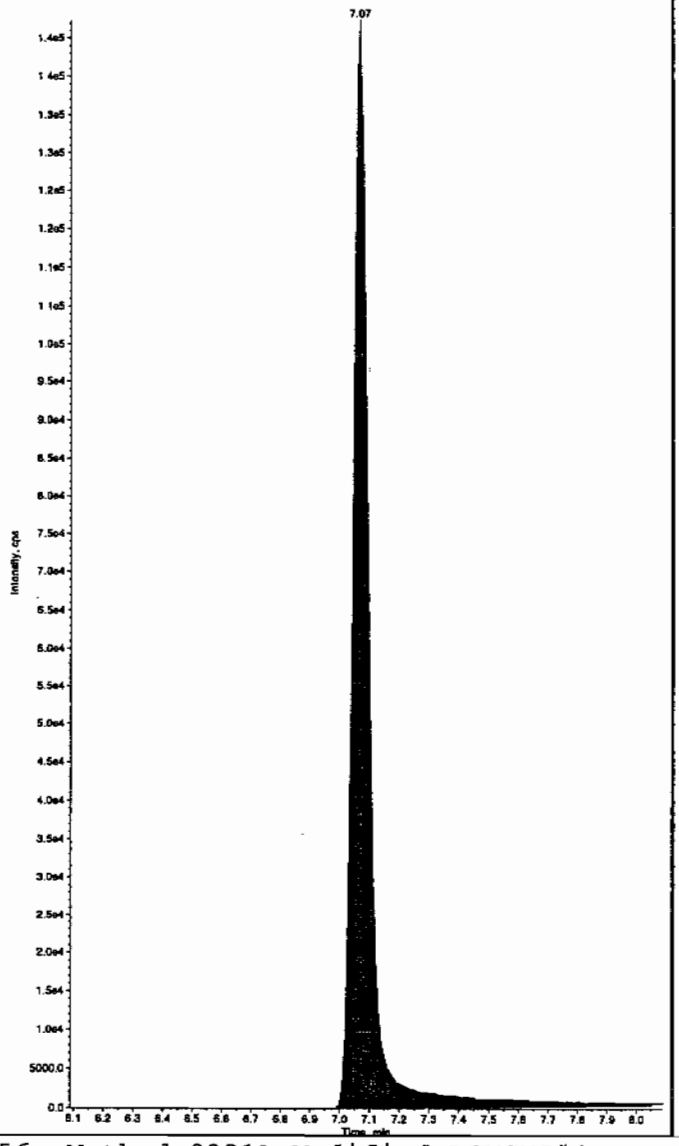
Before Scan 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260066.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 487. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:09:06 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.07 min
Area: 5.75e+005 counts
Height: 142410.309 cps
Start Time: 6.97 min
End Time: 8.05 min

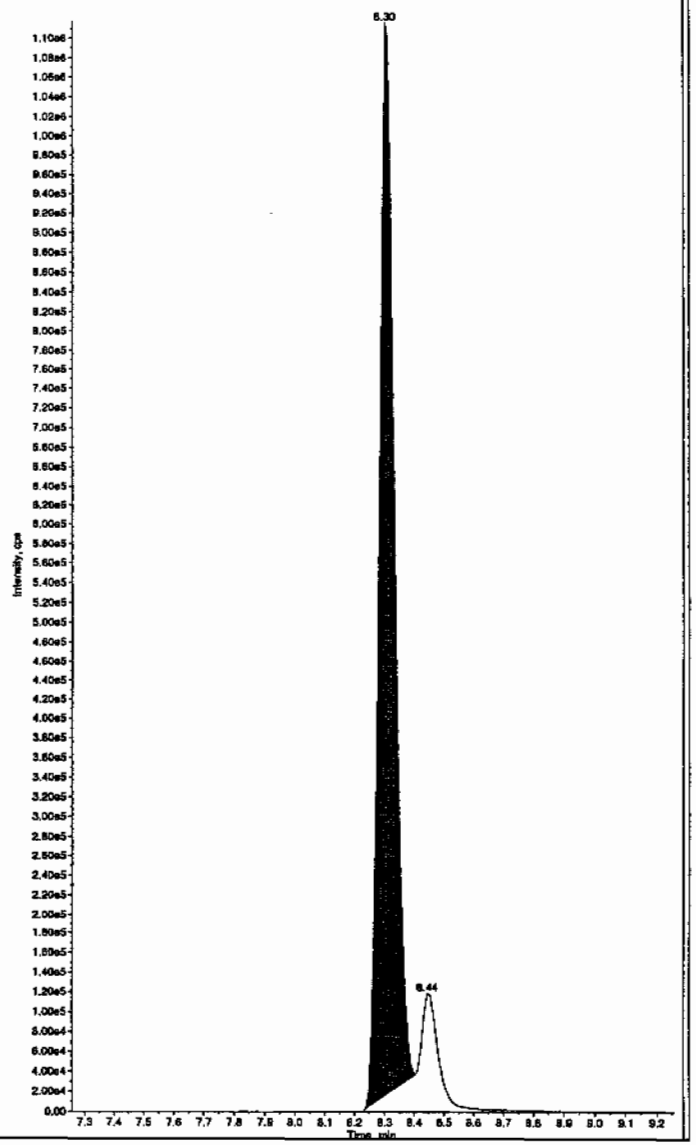


Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260066.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 432. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:09:06 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: 8.26 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.30 min
Area: 3.99e+006 counts
Height: 1101794.312 cps
Start Time: 8.24 min
End Time: 8.40 min



Hmm 03/01/10

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

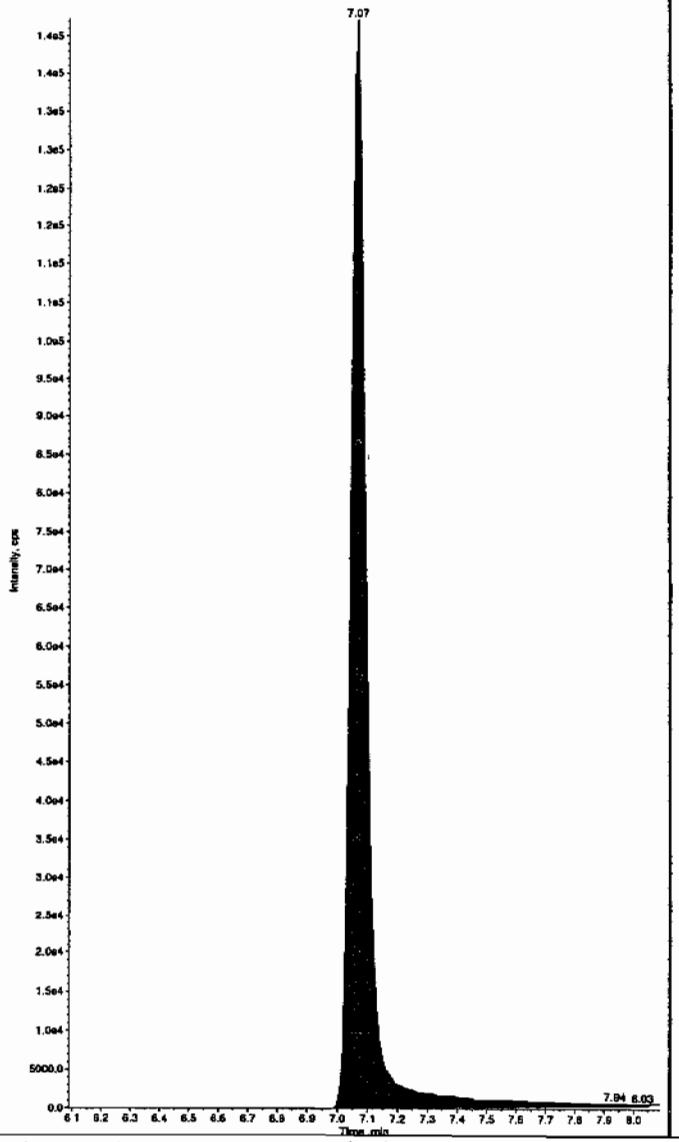
after Scan 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260066.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 487. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:09:06 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.07 min
Area: 5.75e+005 counts
Height: 142410.309 cps
Start Time: 6.97 min
End Time: 8.05 min

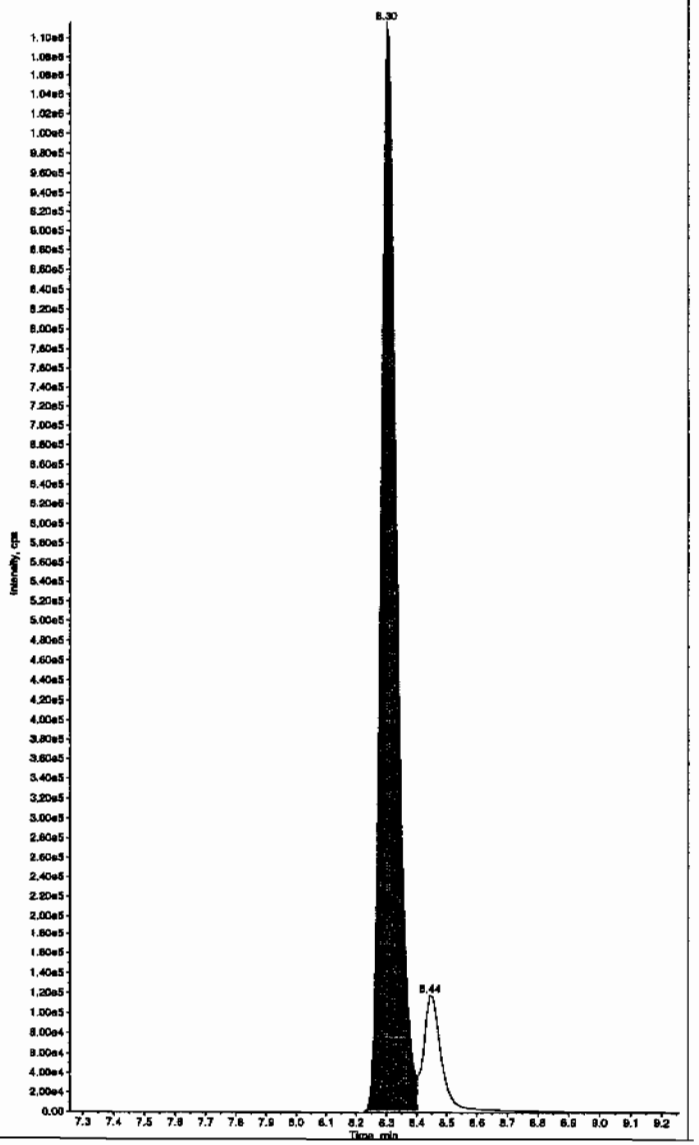


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260066.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 452. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:09:06 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.26 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.30 min
Area: 4.17e+006 counts
Height: 1135373.042 cps
Start Time: 8.24 min
End Time: 8.40 min



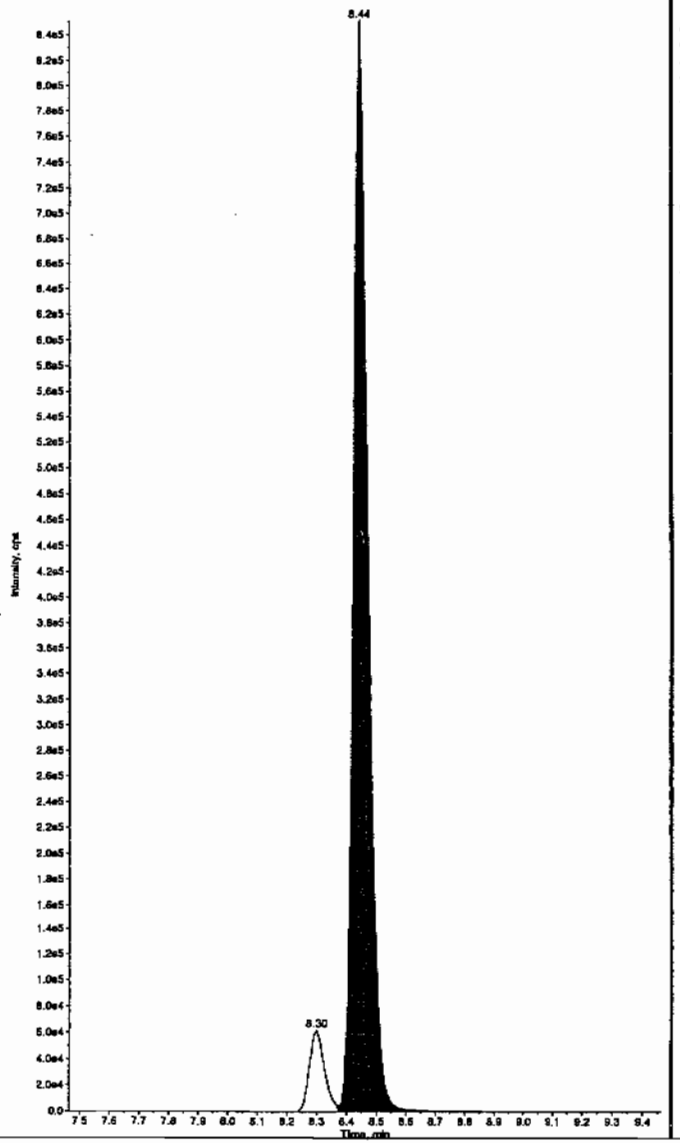
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-25CCV" Sample ID: "[1]LER" File: "EXS02260086.wiff"
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: 218. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:09:06 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.44 min
Area: 3.03e+006 counts
Height: 851000.977 cps
Start Time: 8.37 min
End Time: 8.78 min

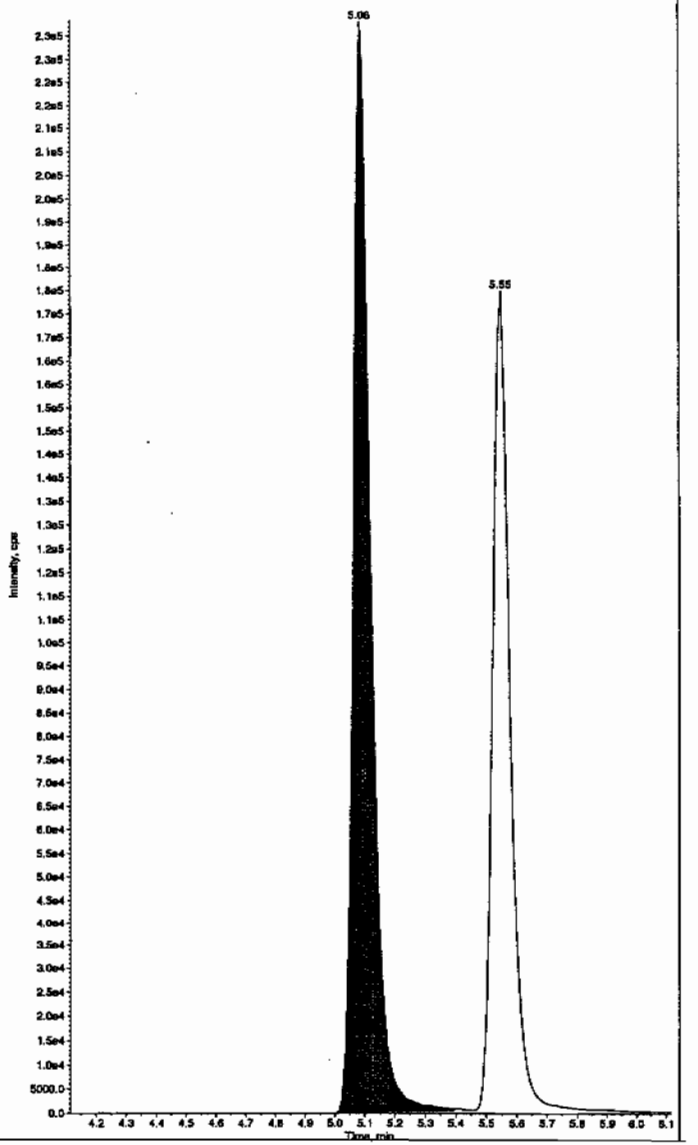


Sample Name: "WXX100226-25CCV" Sample ID: "[1]LER" File: "EXS02260086.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "156.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 442. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:09:06 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.08 min
Area: 9.75e+005 counts
Height: 233281.586 cps
Start Time: 4.99 min
End Time: 5.39 min



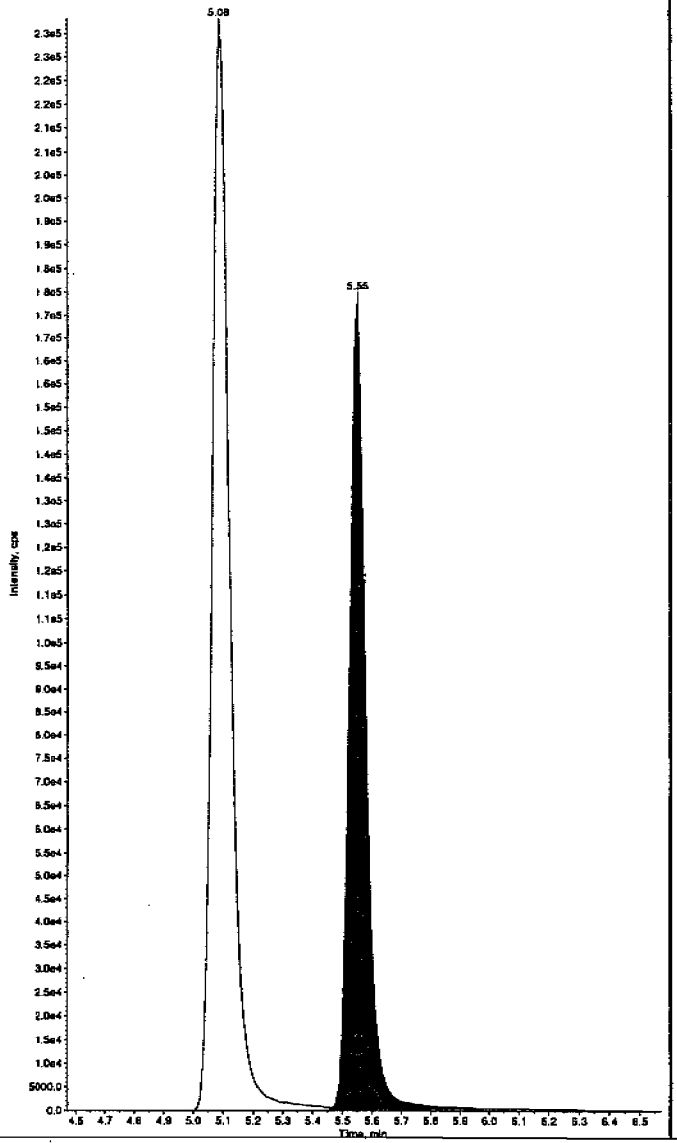
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260086.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 445. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:09:06 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.55 min
Area: 7.19e+005 counts
Height: 174844.727 cps
Start Time: 5.46 min
End Time: 6.01 min

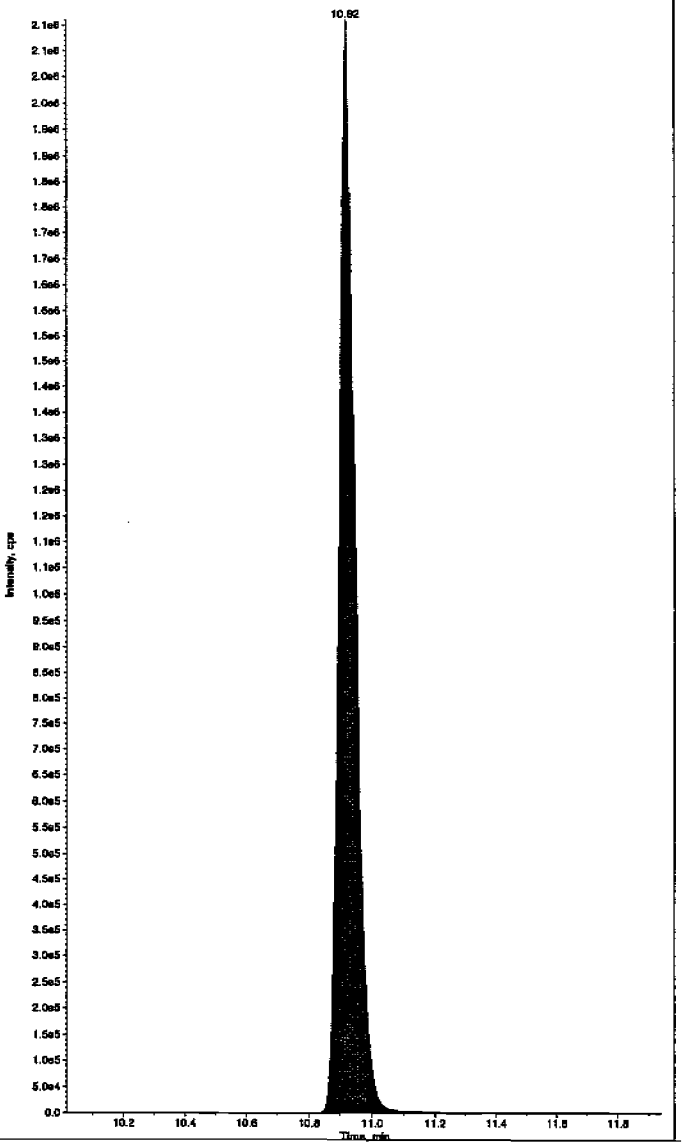


Sample Name: "WXX100226-25CCV" Sample ID: "[1]LER" File: "EXS02260086.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 491. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:09:06 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: 7.59e+006 counts
Height: 2110954.346 cps
Start Time: 10.6 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260088.wiff

Analysis Date: 27-FEB-10 13:40

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	96.3	96	
3,4-Dinitrotoluene	50	43.9	88	
3,5-Dinitroaniline	100	89.2	89	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	101	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 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

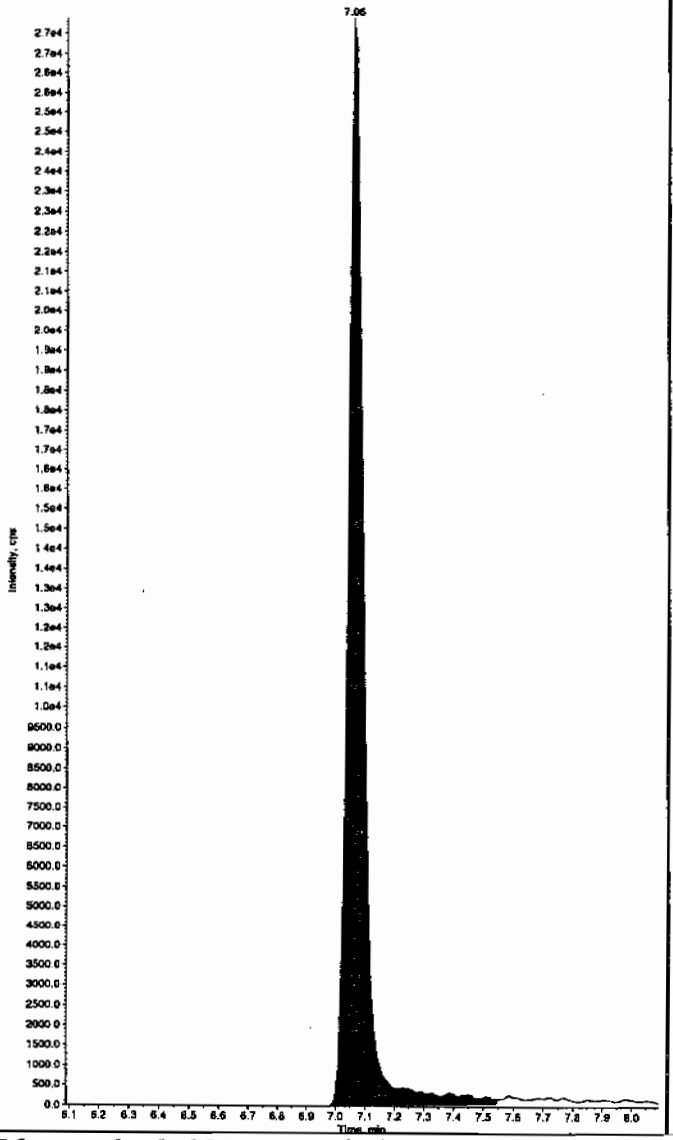
Jan 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "1|LER" File: "EXS02260086.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 104. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:40:30 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.06 min
Area: 1.07e+005 counts
Height: 27383.224 cps
Start Time: 6.96 min
End Time: 7.54 min

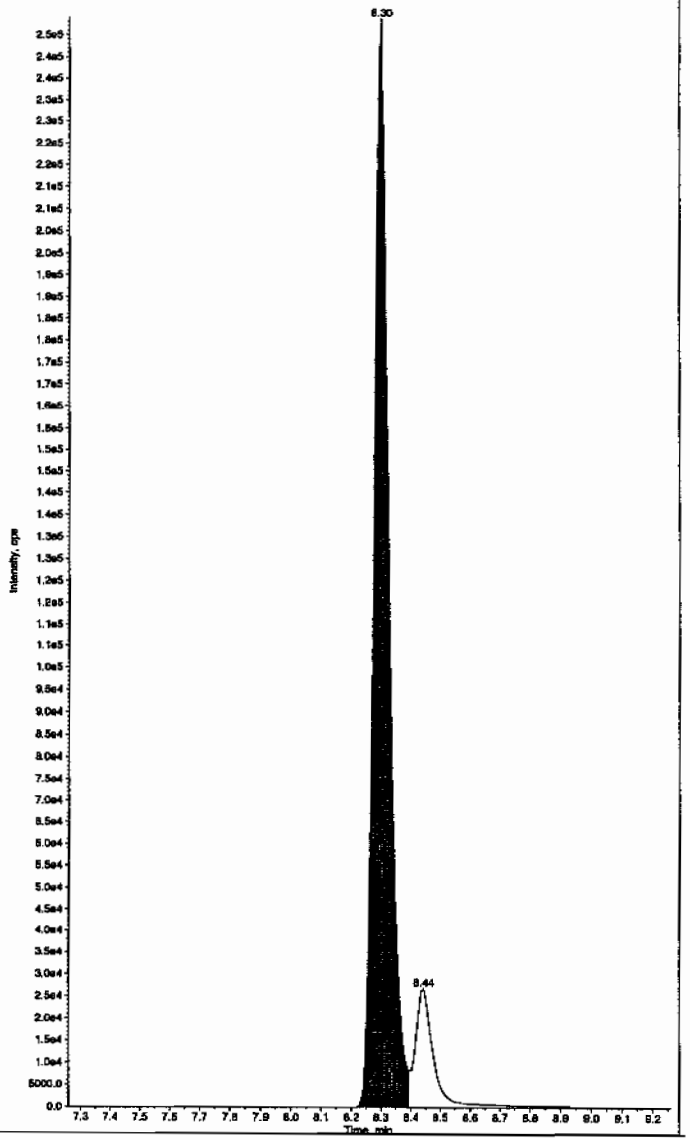


Sample Name: "WXX100226-27CRI" Sample ID: "1|LER" File: "EXS02260086.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 89.2 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:40:30 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: 8.26 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.30 min
Area: 9.01e+005 counts
Height: 248924.591 cps
Start Time: 8.21 min
End Time: 8.39 min



HMM 03/01/10

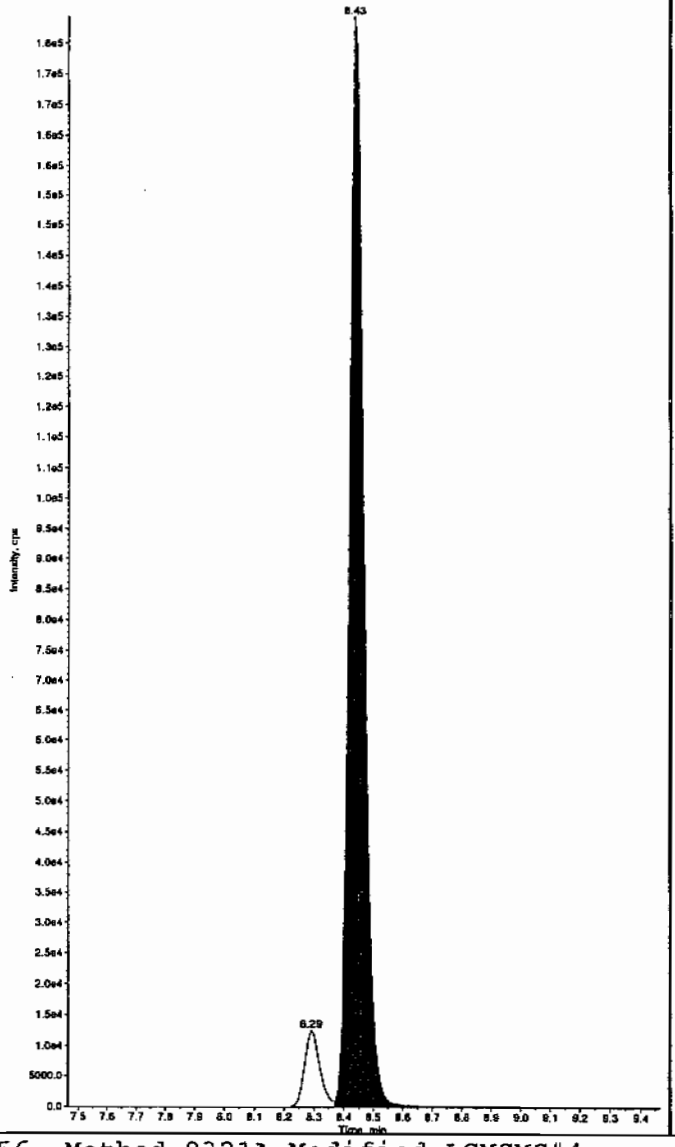
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260088.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 43.9 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:40:30 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.43 min
Area: 6.35e+005 counts
Height: 179588.821 cps
Start Time: 8.37 min
End Time: 8.73 min

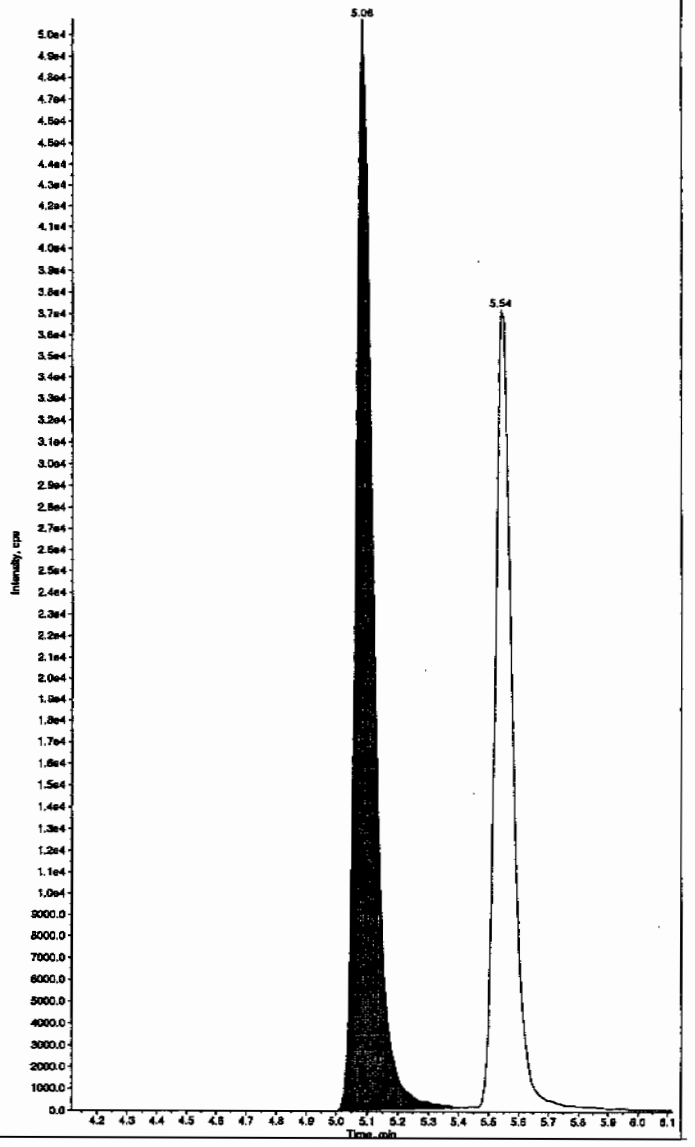


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260088.wiff"
Peak Name: "2,6-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 96.3 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:40:30 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.08 min
Area: 2.10e+005 counts
Height: 50727.360 cps
Start Time: 4.97 min
End Time: 5.39 min



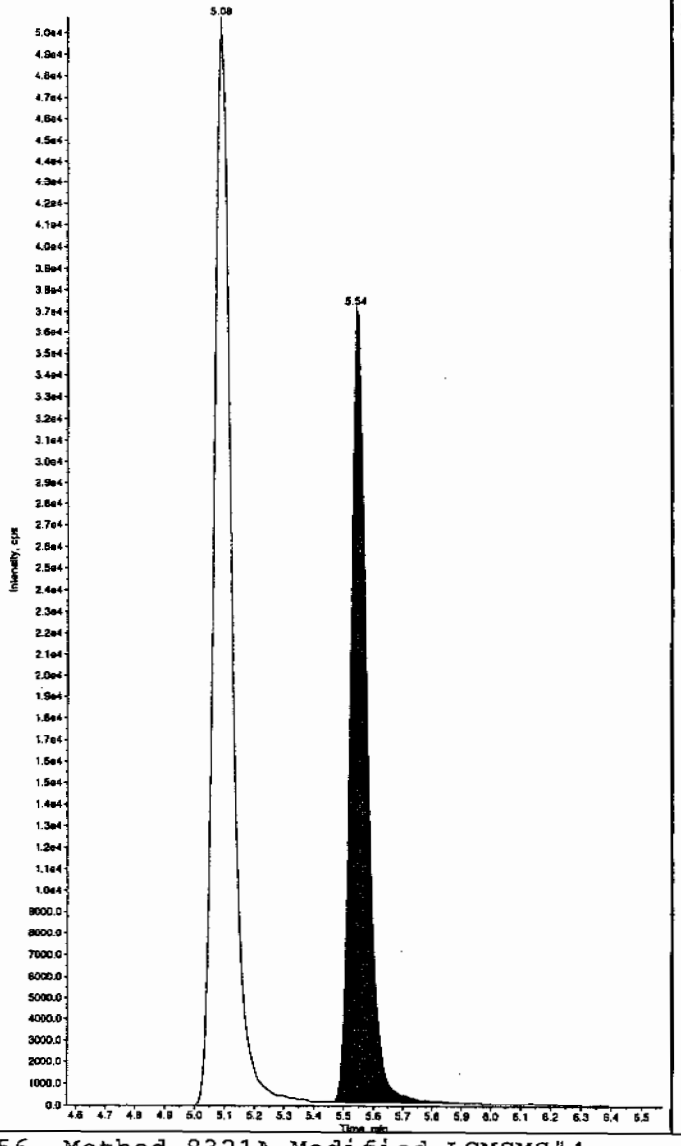
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260088.wiff"
Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 98.1 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:40:30 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.54 min
Area: 1.49e+005 counts
Height: 37054.600 cps
Start Time: 5.39 min
End Time: 5.91 min

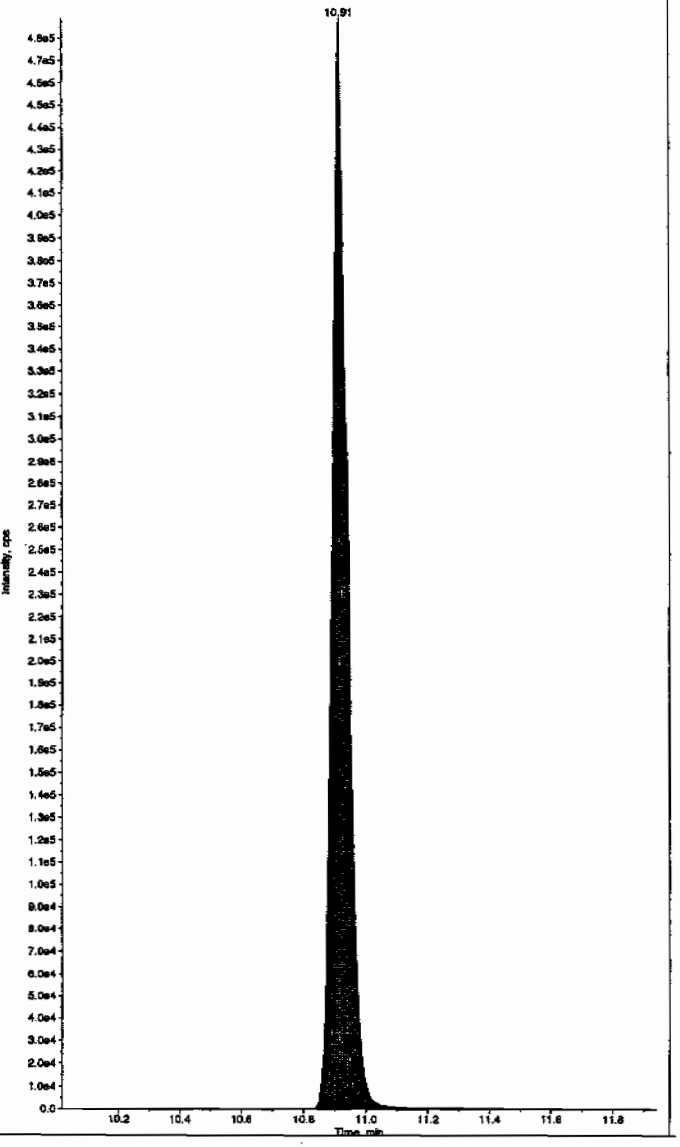


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260088.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 101. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 1:40:30 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: 1.73e+006 counts
Height: 488800.812 cps
Start Time: 10.8 min
End Time: 11.2 min



[1]GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260099.wiff

Analysis Date: 27-FEB-10 16:33

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	504	101	
2,6-Diamino-4-nitrotoluene	500	480	96	
3,4-Dinitrotoluene	250	212	85	
3,5-Dinitroaniline	500	448	90	
TATB	500	481	96	
tris(o-cresyl) phosphate	500	488	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 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

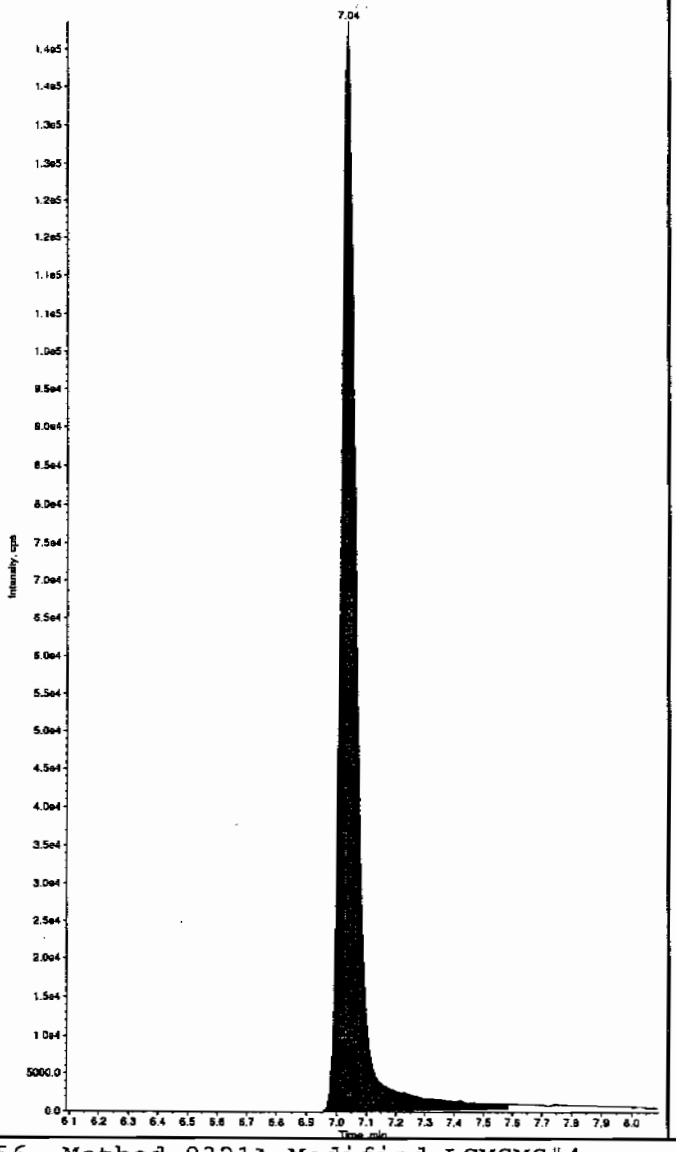
Before Scan 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260099.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 481. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:33:07 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.04 min
Area: 5.68e+005 counts
Height: 143659.286 cps
Start Time: 6.94 min
End Time: 7.59 min

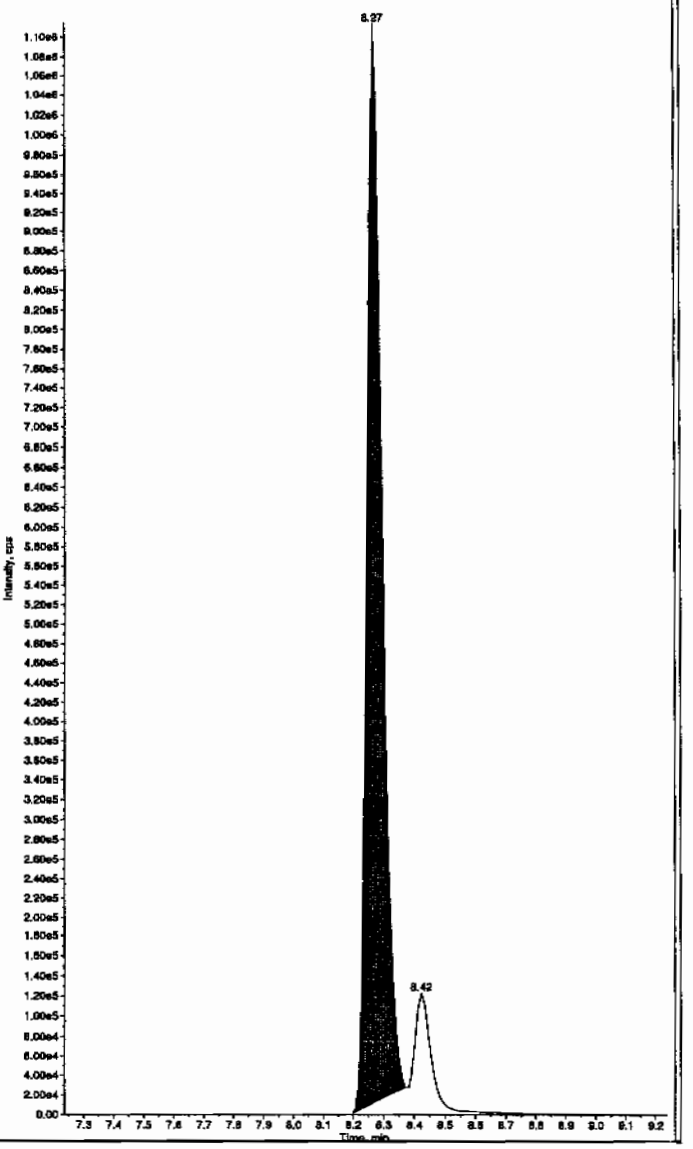


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260099.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 433. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:33:07 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: 8.24 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.27 min
Area: 4.01e+006 counts
Height: 1103254.639 cps
Start Time: 8.20 min
End Time: 8.37 min



Hmm 03/01/10

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

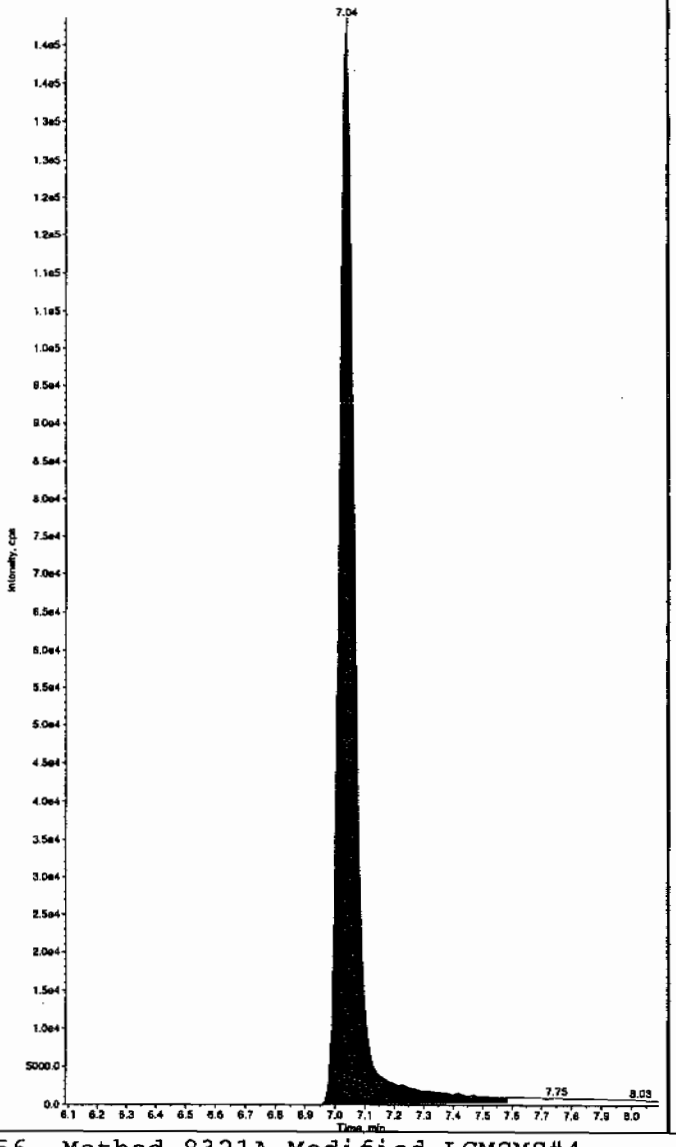
after Scan 3/1/10

Sample Name: "WXX100226-25CCV" Sample ID: "|1|LER" File: "EXS02260099.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 481. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:33:07 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.04 min
Area: 5.68e+005 counts
Height: 143659.286 cps
Start Time: 6.94 min
End Time: 7.59 min

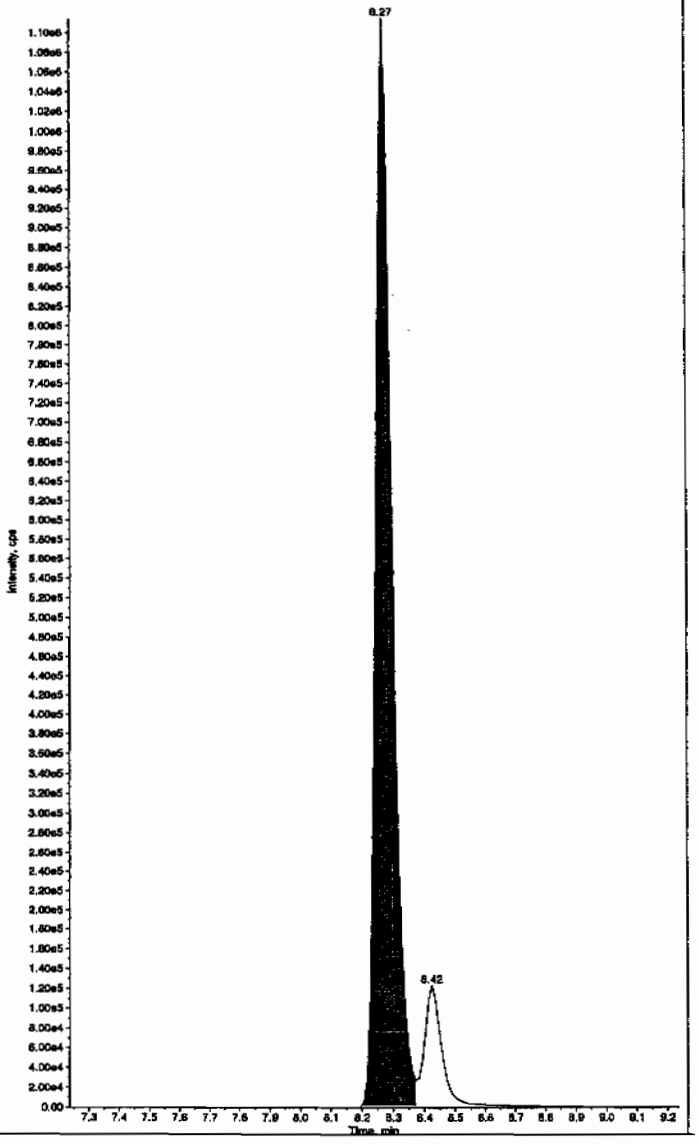


Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260099.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 448. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:33:07 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.24 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.27 min
Area: 4.13e+006 counts
Height: 1114206.808 cps
Start Time: 8.20 min
End Time: 8.37 min



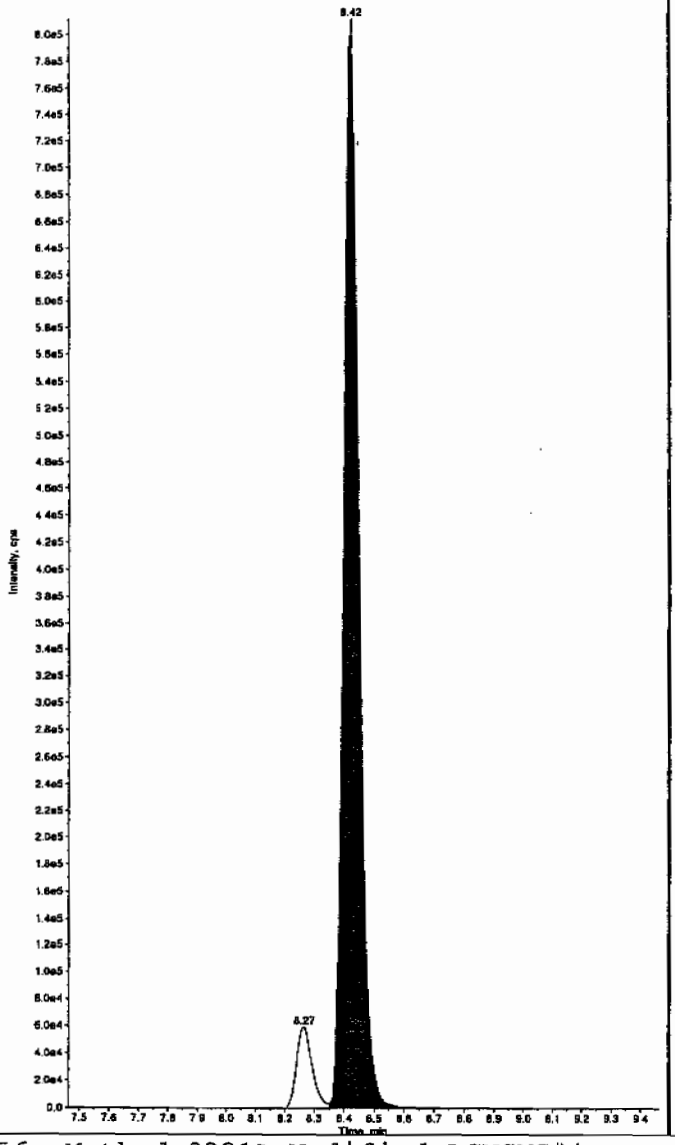
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260099.wiff"
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: 212. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:33:07 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.42 min
Area: 2.94e+006 counts
Height: 811372.314 cps
Start Time: 8.35 min
End Time: 8.75 min

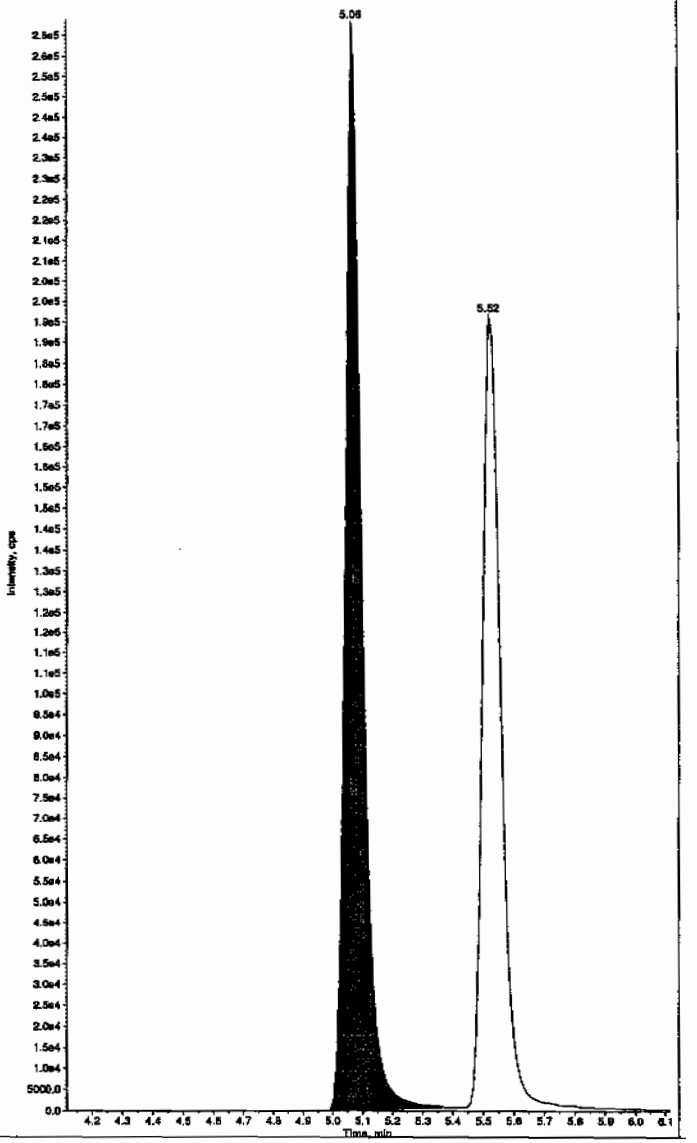


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260099.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 480. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:33:07 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.06 min
Area: 1.06e+006 counts
Height: 263584.412 cps
Start Time: 4.97 min
End Time: 5.36 min



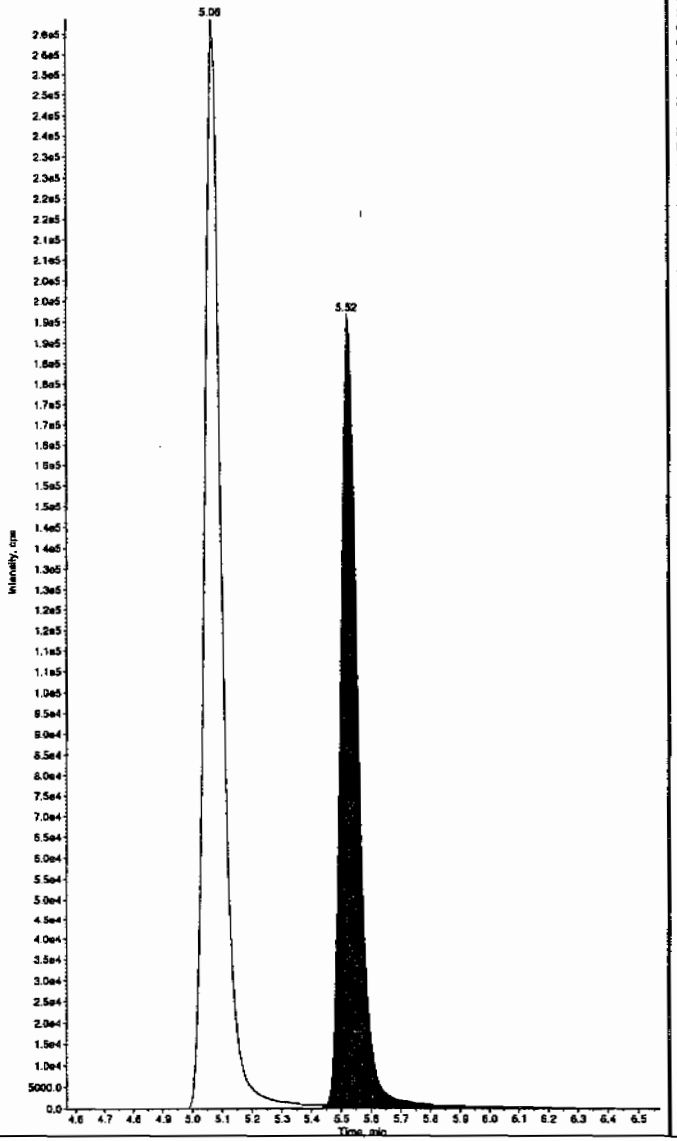
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260099.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 504. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:33:07 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.52 min
Area: 8.06e+005 counts
Height: 191906.830 cps
Start Time: 5.44 min
End Time: 6.08 min

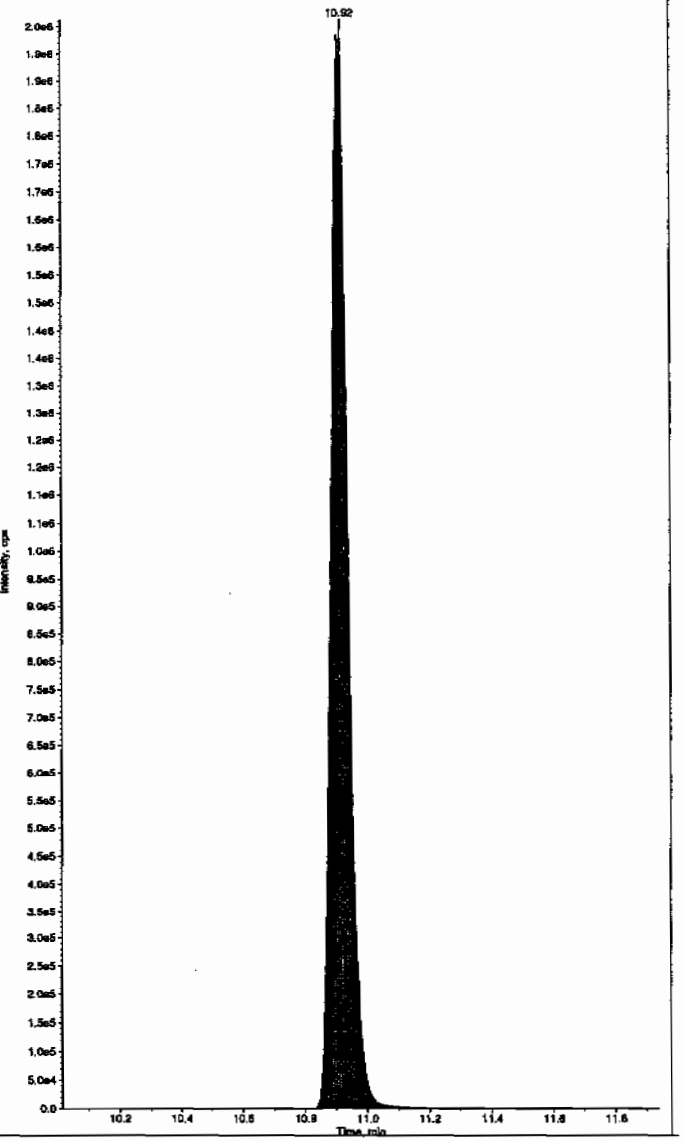


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260099.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 488. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 4:33:07 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: 7.55e+006 counts
Height: 1963935.791 cps
Start Time: 10.8 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260101.wiff

Analysis Date: 27-FEB-10 17:04

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	109	109	
2,6-Diamino-4-nitrotoluene	100	101	101	
3,4-Dinitrotoluene	50	43.3	87	
3,5-Dinitroaniline	100	85.9	86	
TATB	100	99.7	100	
tris(o-cresyl) phosphate	100	101	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 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

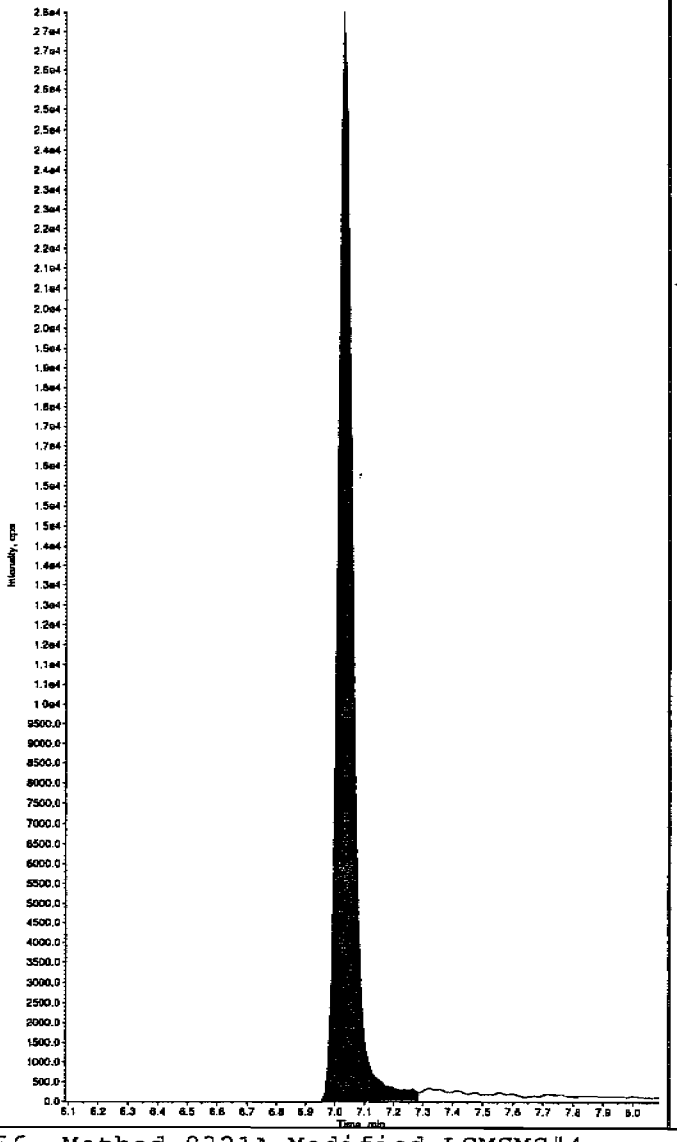
Before Jan 31/10

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260101.wiff"
Peak Name: "7ATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 99.7 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 5:04:32 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.03 min
Area: 1.02e+005 counts
Height: 27516.521 cps
Start Time: 6.93 min
End Time: 7.29 min

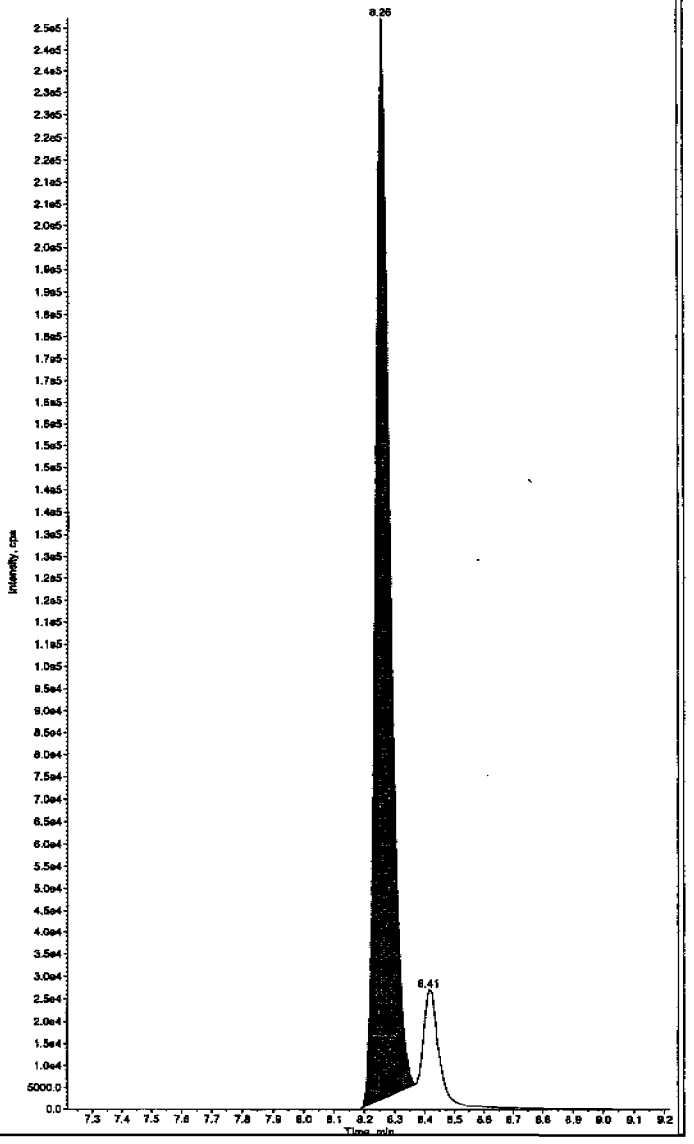


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260101.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 83.4 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 5:04:32 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: 8.22 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.26 min
Area: 8.45e+005 counts
Height: 245172.485 cps
Start Time: 8.19 min
End Time: 8.37 min



HMM 03/01/10

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

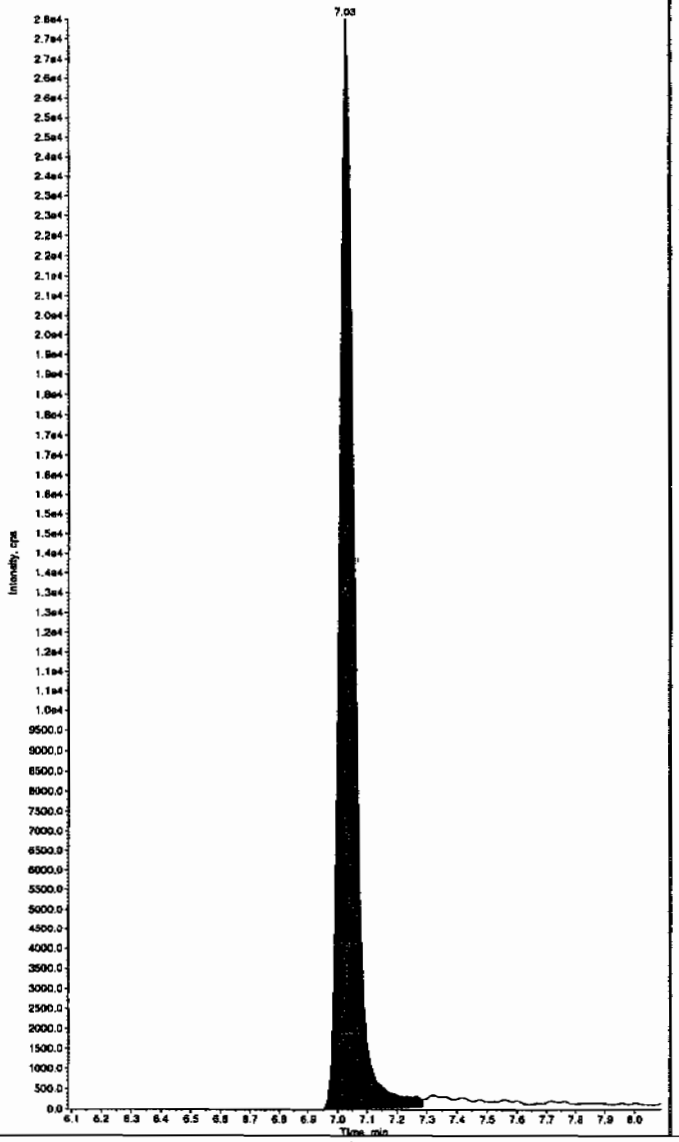
after Ken 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260101.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 99.7 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 5:04:32 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.03 min
Area: 1.02e+005 counts
Height: 27516.521 cps
Start Time: 6.93 min
End Time: 7.29 min

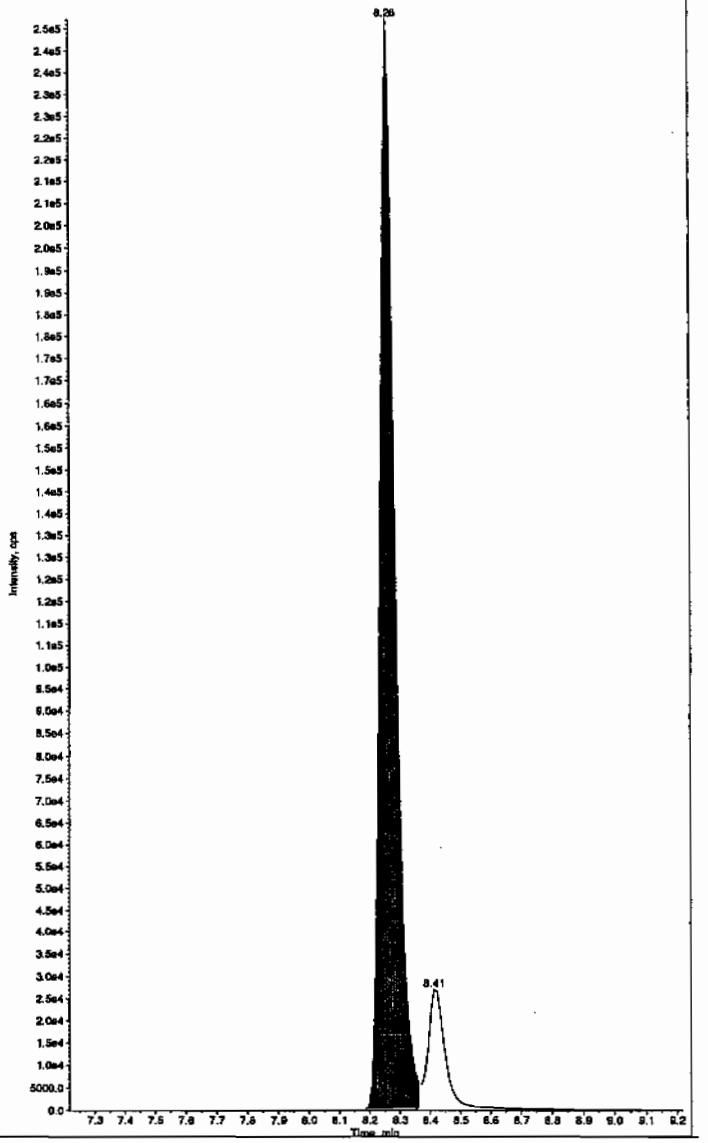


Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260101.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 85.9 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 5:04:32 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.22 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.26 min
Area: 8.69e+005 counts
Height: 247263.054 cps
Start Time: 8.20 min
End Time: 8.36 min



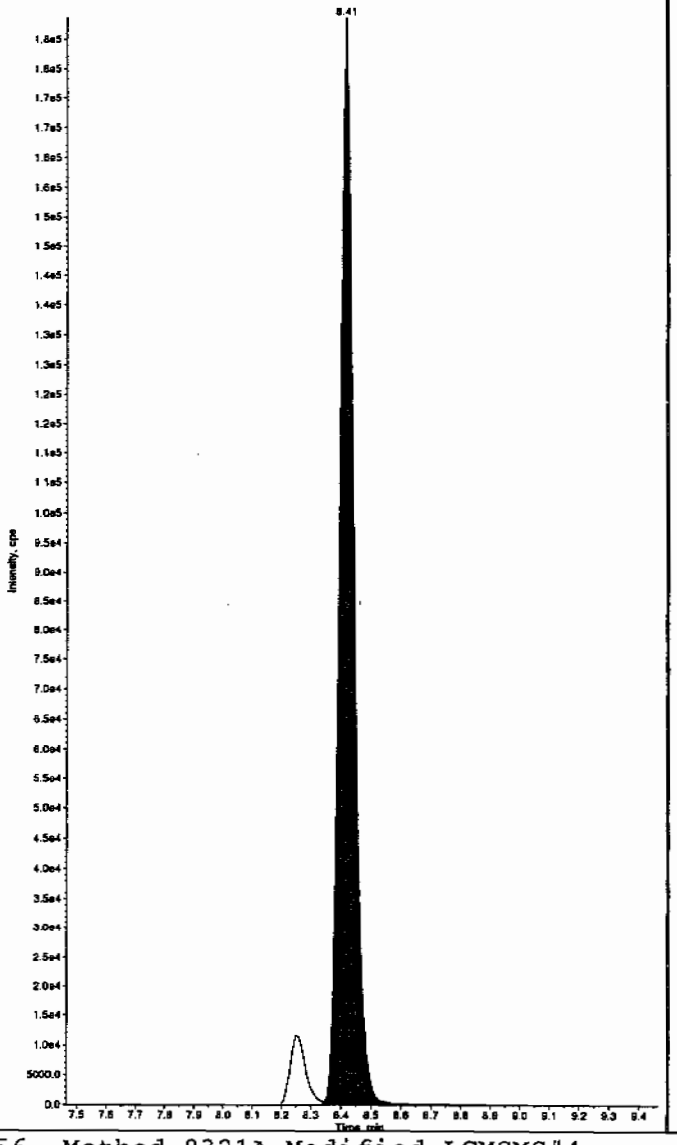
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260101.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 43.3 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 5:04:32 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.41 min
Area: 6.27e+005 counts
Height: 183851.471 cps
Start Time: 8.34 min
End Time: 8.73 min

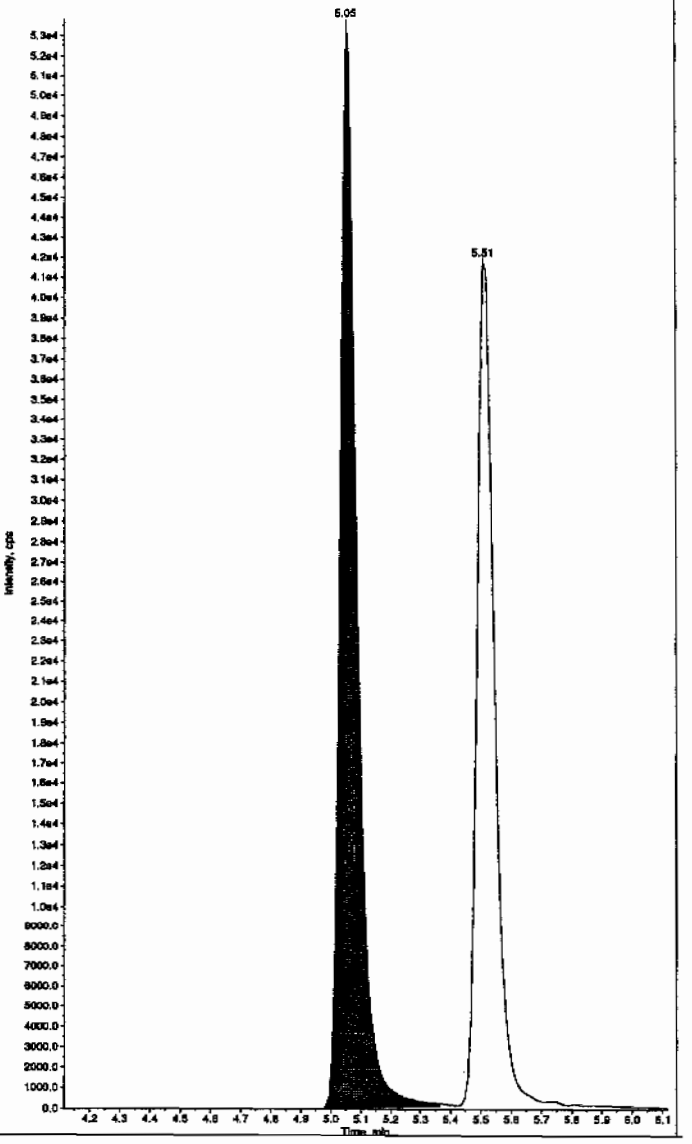


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260101.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 101. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 5:04:32 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.05 min
Area: 2.21e+005 counts
Height: 53787.304 cps
Start Time: 4.95 min
End Time: 5.36 min



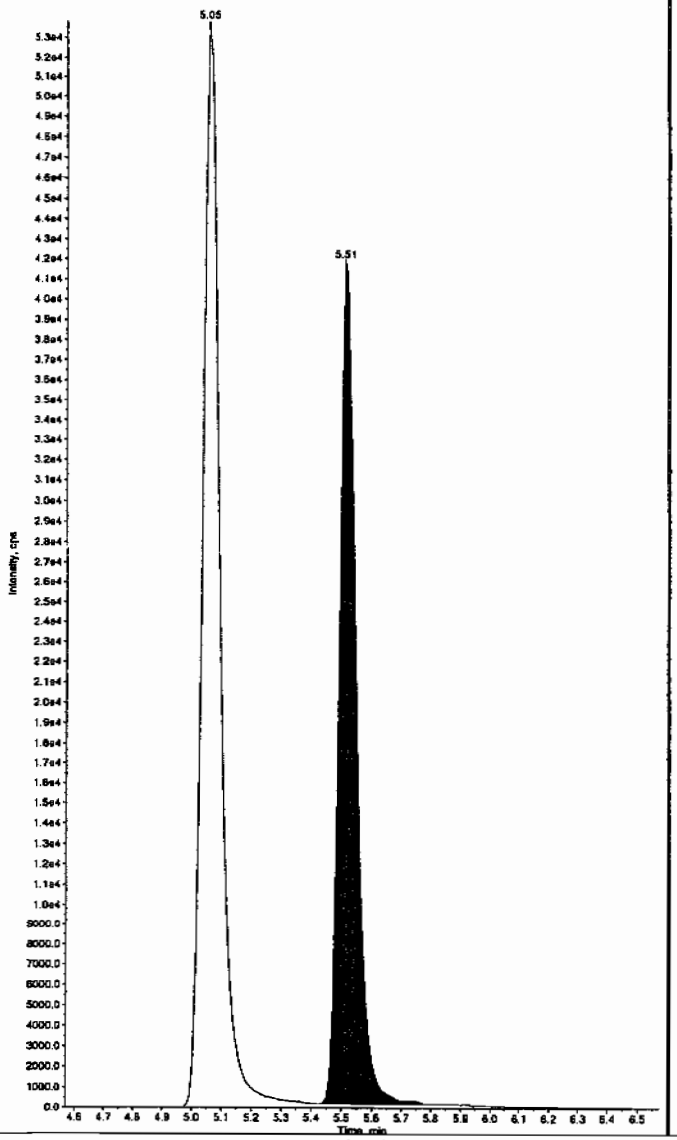
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260101.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 109. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 5:04:32 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.51 min
Area: 1.66e+005 counts
Height: 41780.853 cps
Start Time: 5.43 min
End Time: 5.85 min

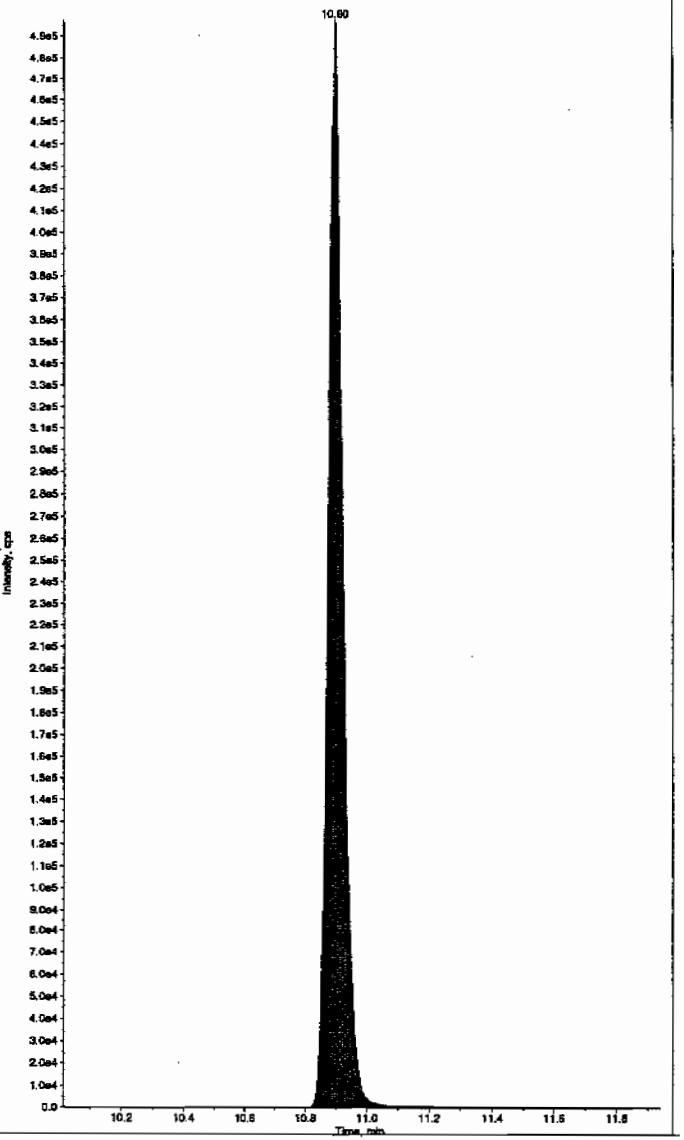


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260101.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 101. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 5:04:32 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: 1.73e+006 counts
Height: 497241.821 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260112.wiff

Analysis Date: 27-FEB-10 19:57

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	500	444	89	
TATB	500	473	95	
tris(o-cresyl) phosphate	500	495	99	
2,4-Diamino-6-nitrotoluene	500	505	101	
2,6-Diamino-4-nitrotoluene	500	501	100	
3,4-Dinitrotoluene	250	206	82	

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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

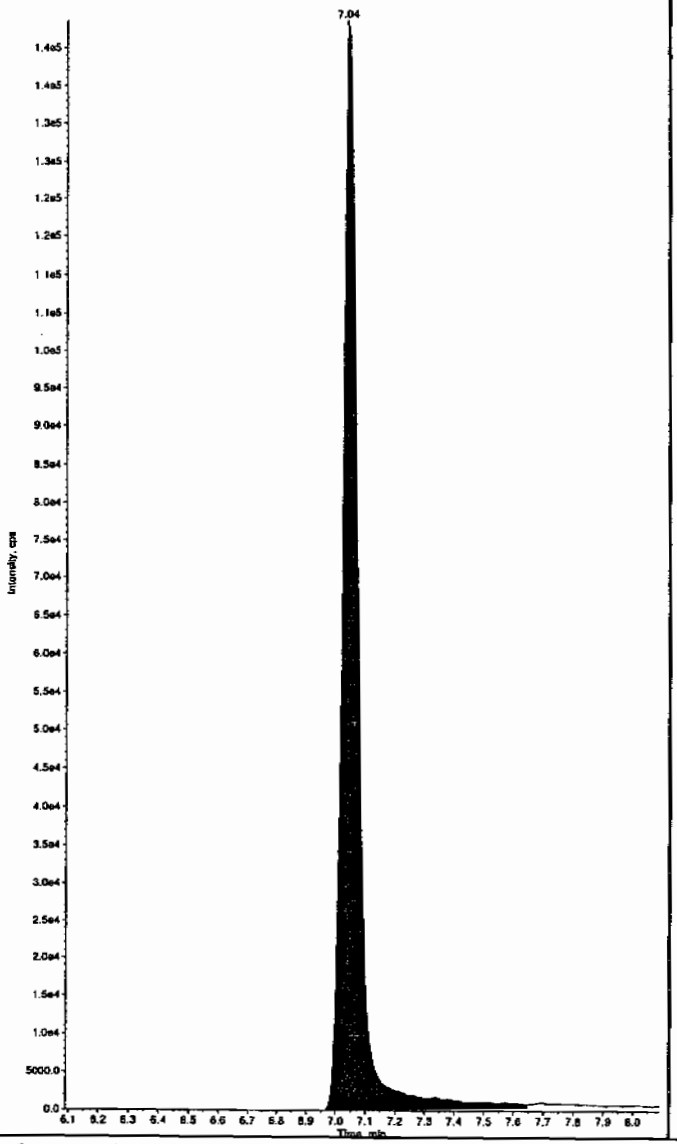
Before Ser 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260112.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 473. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 7:57:13 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.04 min
Area: 5.58e+005 counts
Height: 143699.112 cps
Start Time: 6.96 min
End Time: 7.65 min

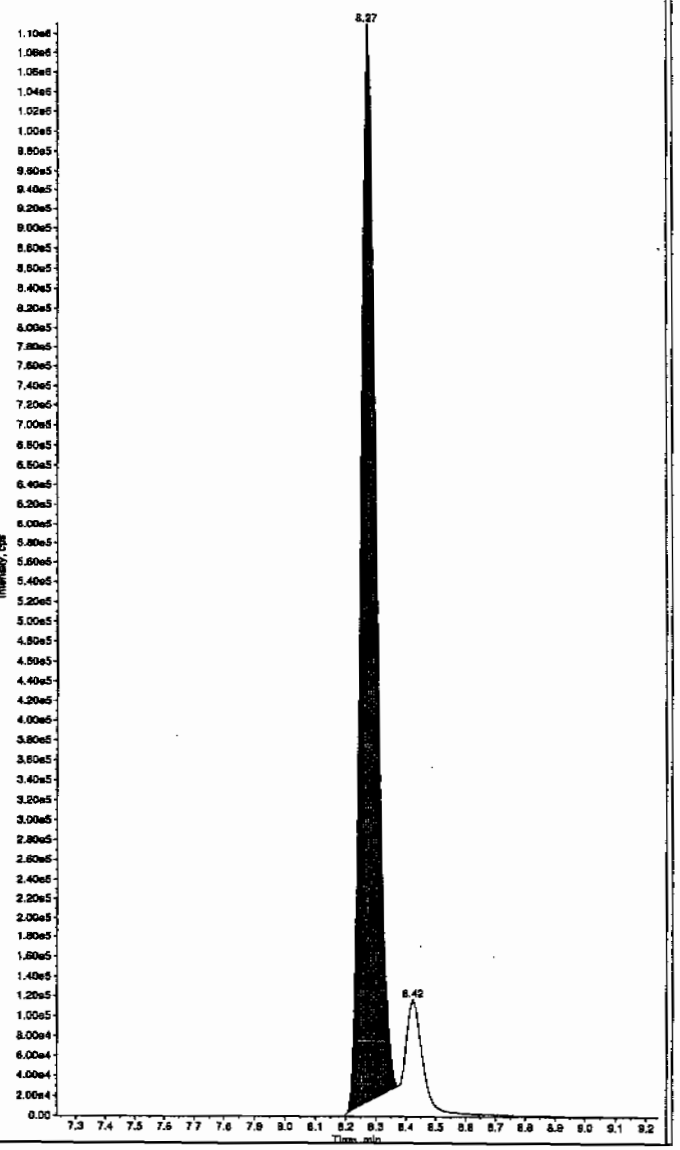


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260112.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 428. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 7:57:13 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: 8.24 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.27 min
Area: 3.96e+006 counts
Height: 1098096.313 cps
Start Time: 8.21 min
End Time: 8.37 min



Hmm 03/01/10

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

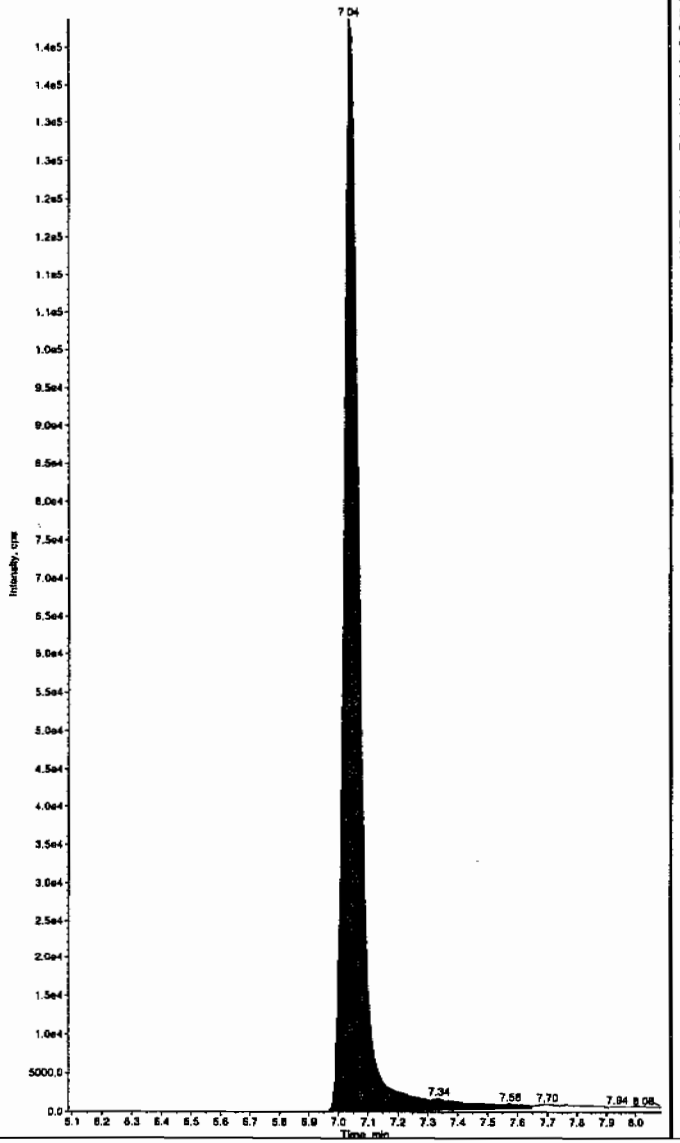
after Scan 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260112.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 473. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 7:57:13 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.04 min
Area: 5.58e+005 counts
Height: 143699.112 cps
Start Time: 6.96 min
End Time: 7.65 min

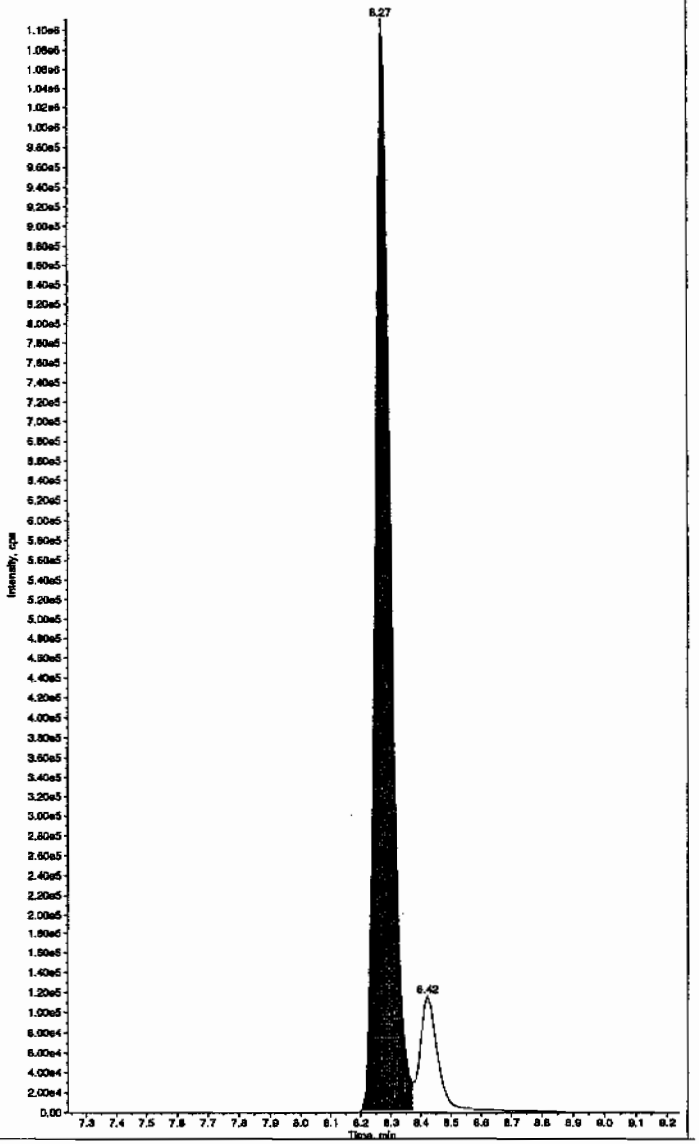


Sample Name: "WXX100226-26CCV" Sample ID: "|1|LER" File: "EXS02260112.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 444. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 7:57:13 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.24 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.27 min
Area: 4.10e+006 counts
Height: 1118318.652 cps
Start Time: 8.21 min
End Time: 8.37 min



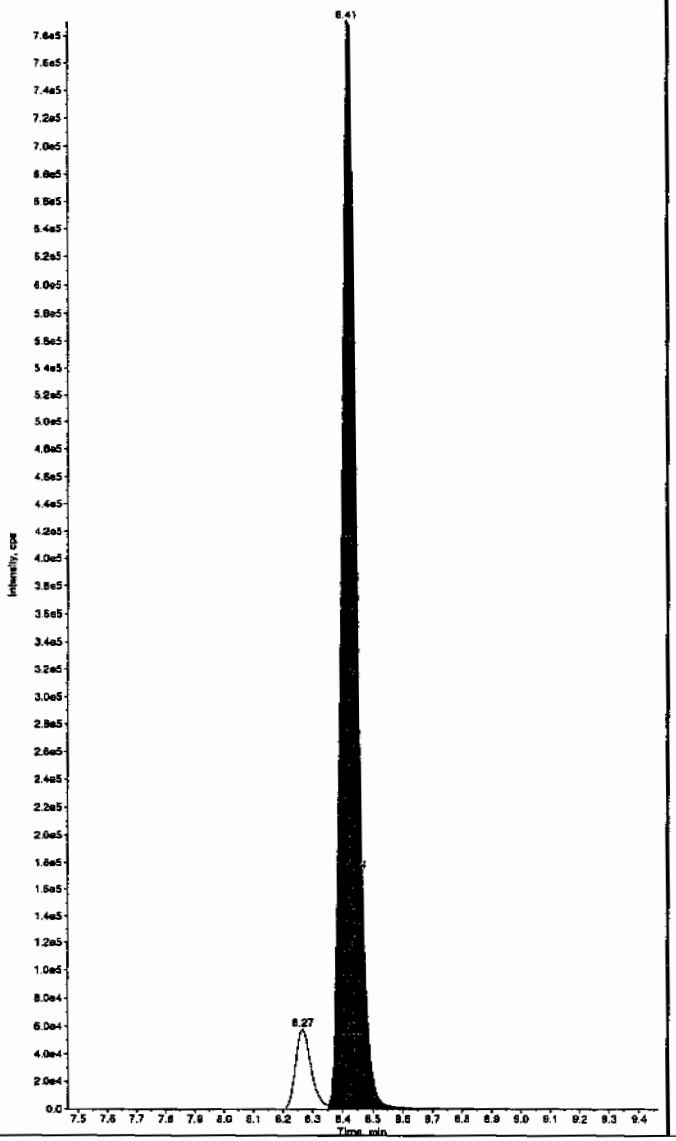
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260112.wiff"
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: 206. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 7:57:13 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.41 min
Area: 2.86e+006 counts
Height: 791284.790 cps
Start Time: 8.35 min
End Time: 8.74 min

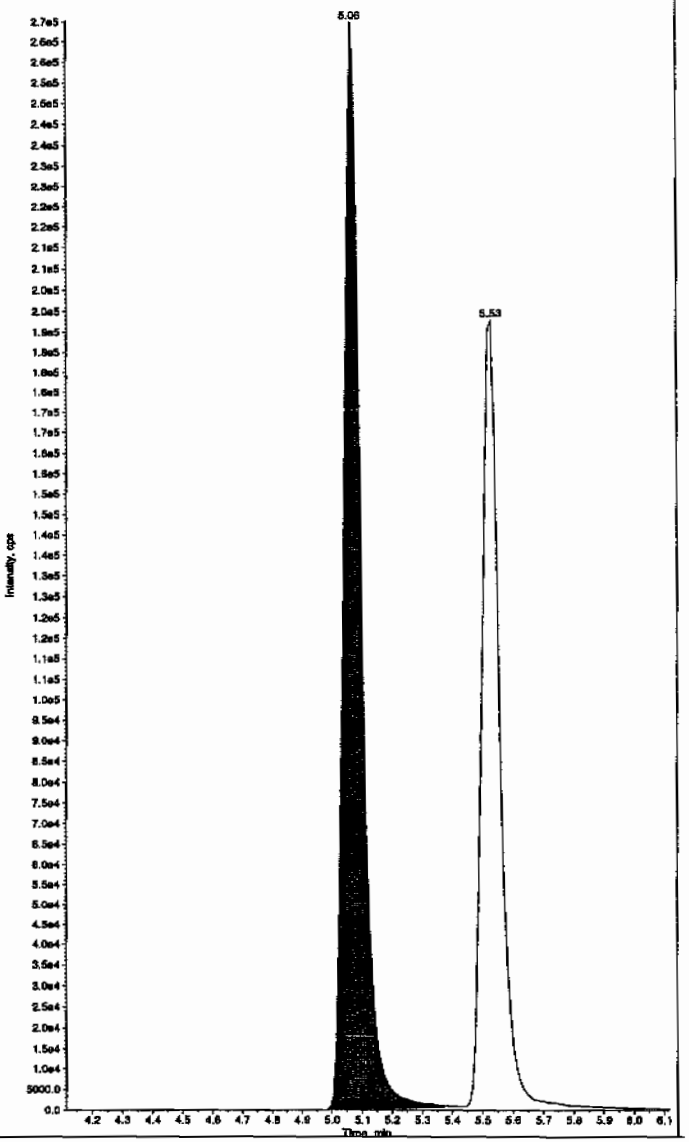


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260112.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 501. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 7:57:13 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.06 min
Area: 1.10e+006 counts
Height: 265248.596 cps
Start Time: 4.97 min
End Time: 5.37 min



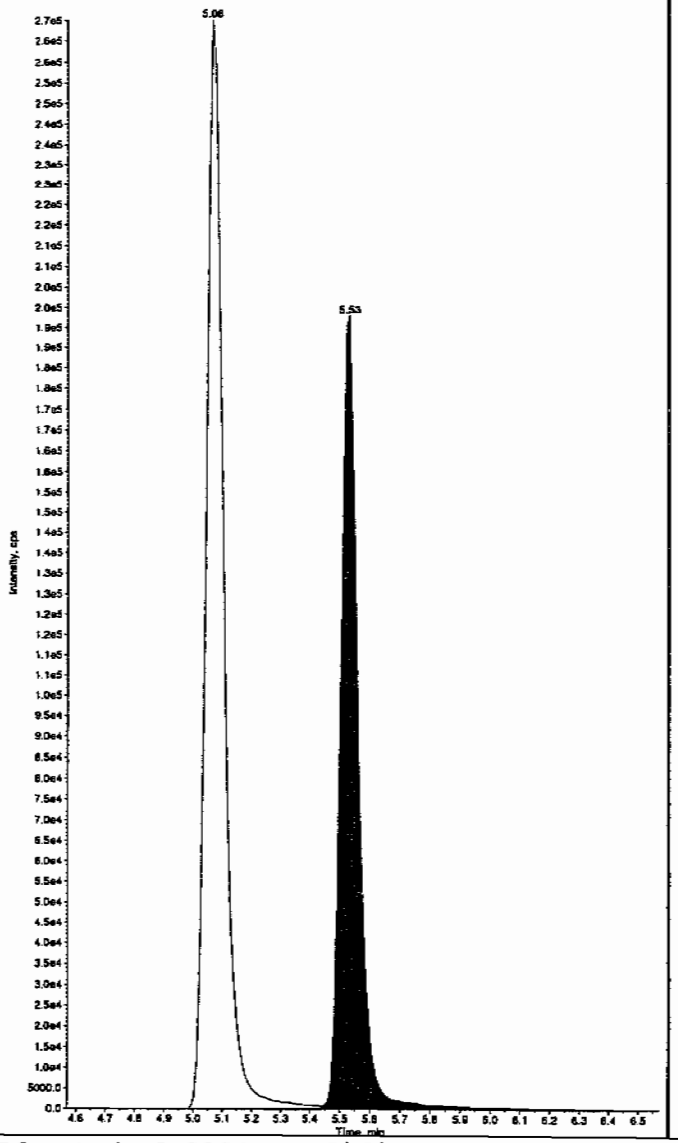
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260112.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" 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: 2/27/2010
Acq. Time: 7:57:13 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.53 min
Area: 3.06e+005 counts
Height: 193222.031 cps
Start Time: 5.44 min
End Time: 6.32 min

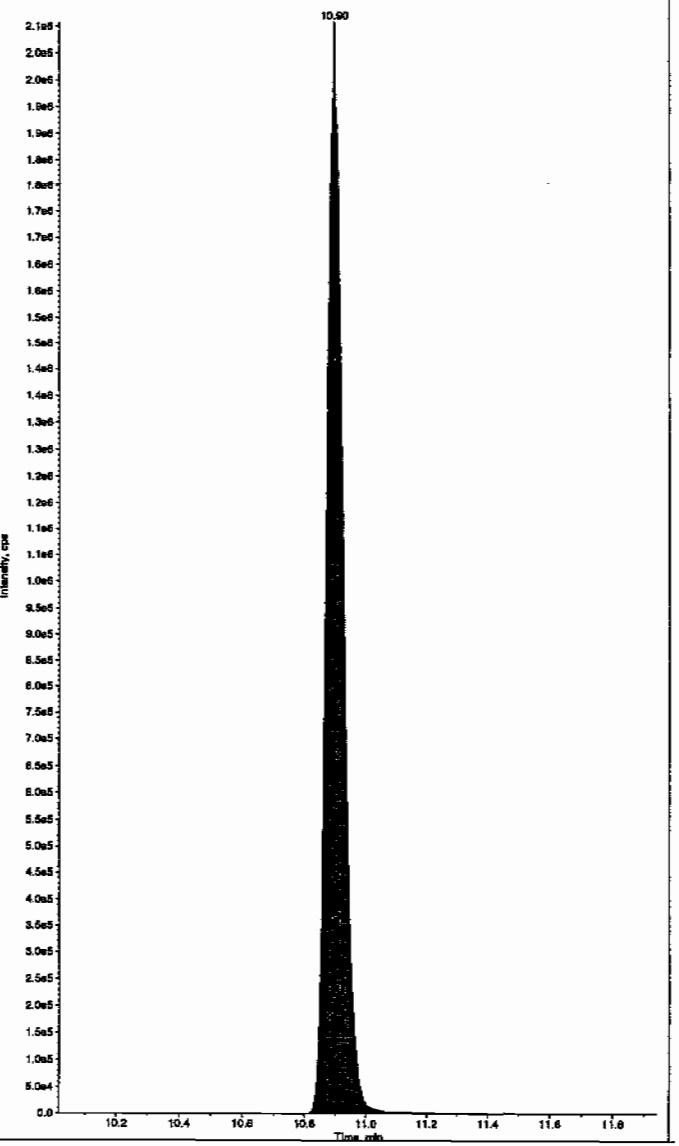


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260112.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 495. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 7:57:13 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: 7.65e+006 counts
Height: 2057594.482 cps
Start Time: 10.8 min
End Time: 11.2 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): 10–1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260114.wiff

Analysis Date: 27–FEB–10 20:28

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	100	103	103	
2,6–Diamino–4–nitrotoluene	100	98	98	
3,4–Dinitrotoluene	50	43.6	87	
3,5–Dinitroaniline	100	84.7	85	
TATB	100	97.3	97	
tris(o–cresyl) phosphate	100	101	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 50–150%
OtherTarget Analytes 70–130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

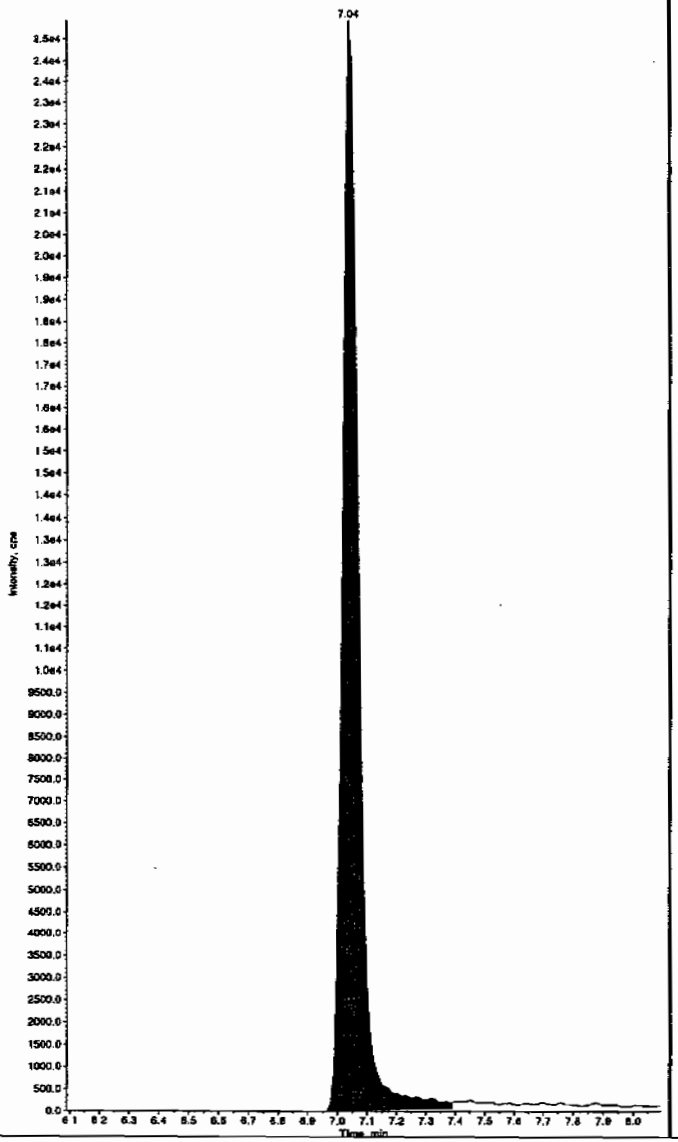
Jan 31/10

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260114.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 97.3 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:28:37 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.04 min
Area: 9.89e+004 counts
Height: 24904.774 cps
Start Time: 6.94 min
End Time: 7.39 min

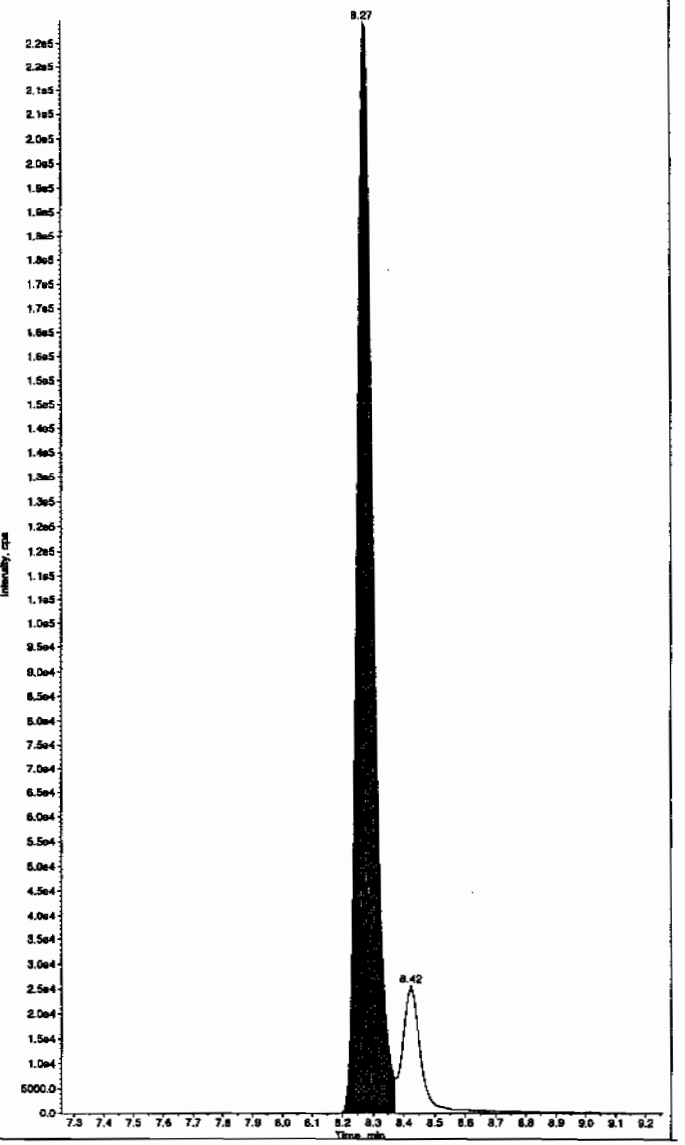


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260114.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 84.7 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:28:37 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: 8.26 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.27 min
Area: 8.58e+005 counts
Height: 224756.836 cps
Start Time: 8.17 min
End Time: 8.37 min



Hrm 03/01/10

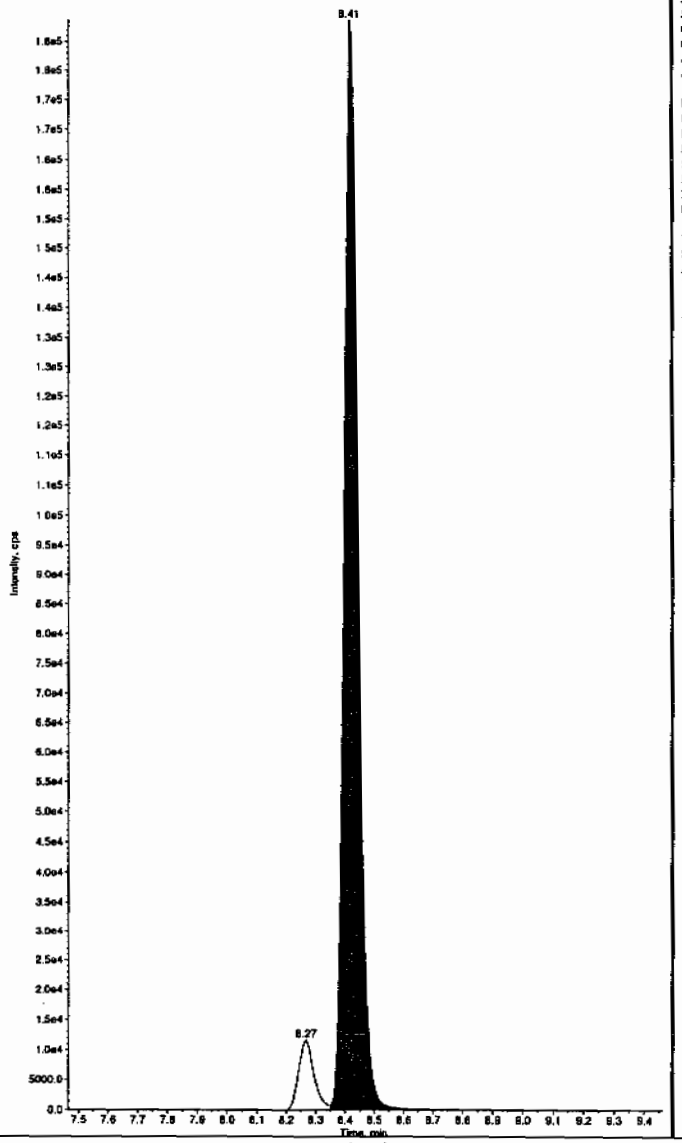
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260114.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 43.6 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:28:37 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.41 min
Area: 6.31e+005 counts
Height: 183688.278 cps
Start Time: 8.35 min
End Time: 8.71 min

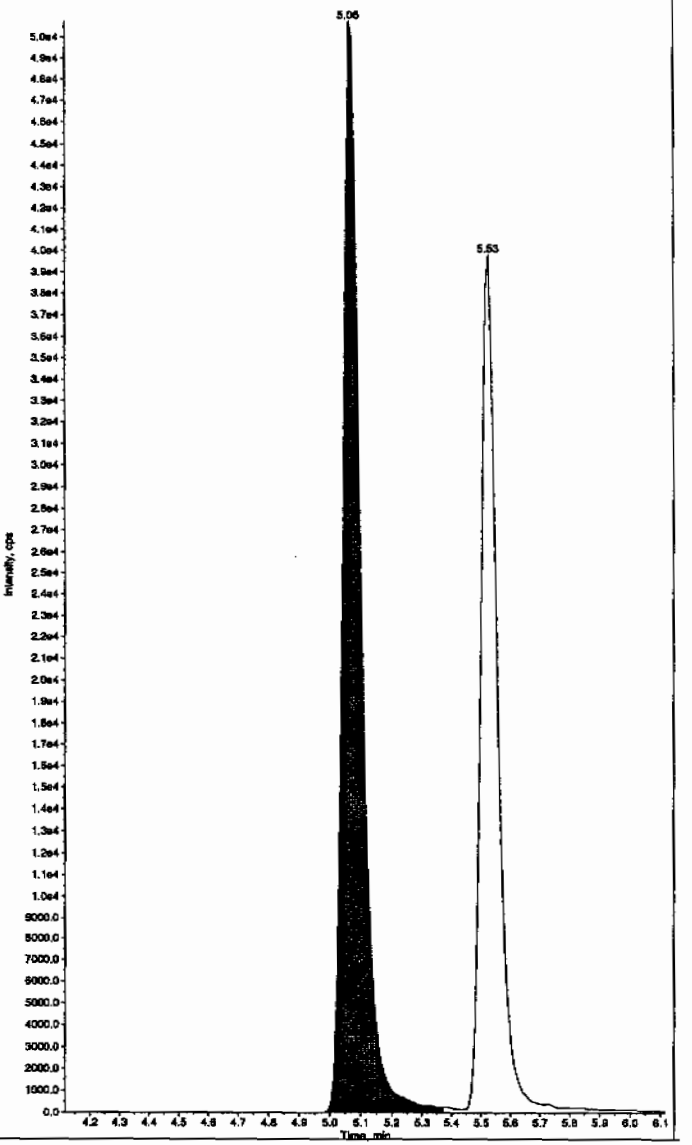


Sample Name: "WXX100226-27CRI" Sample ID: "|1|LER" File: "EXS02260114.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 98.0 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:28:37 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.06 min
Area: 2.13e+005 counts
Height: 50756.393 cps
Start Time: 4.93 min
End Time: 5.37 min



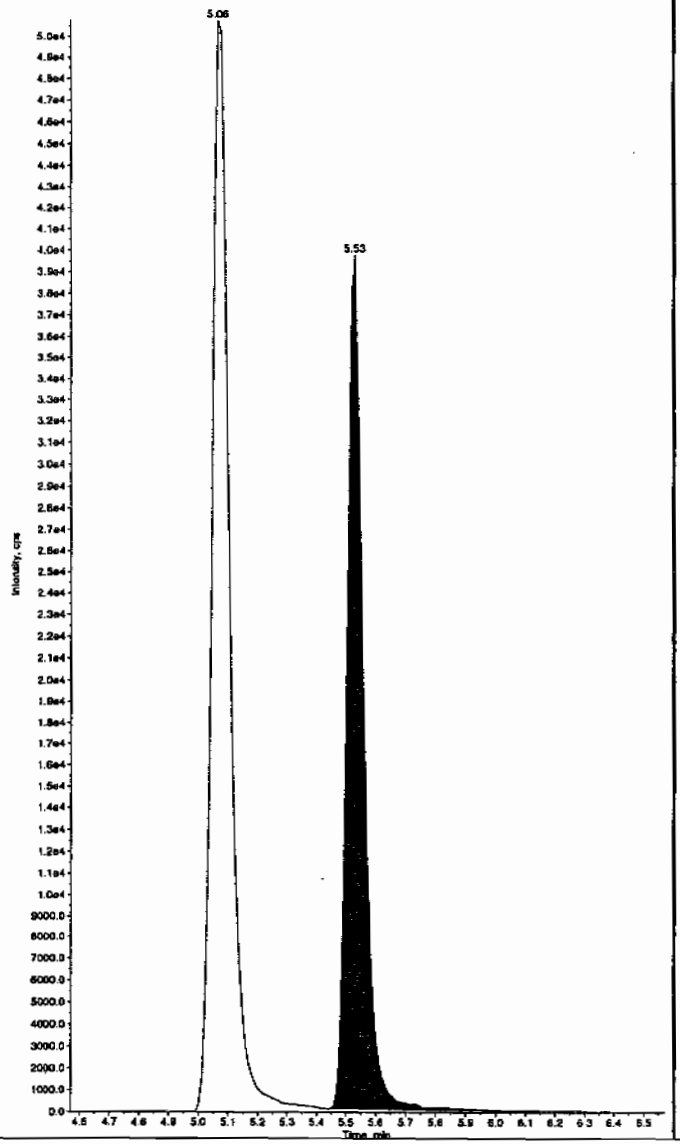
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260114.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 103. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:28:37 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.53 min
Area: 1.57e+005 counts
Height: 39637.032 cps
Start Time: 5.45 min
End Time: 6.12 min

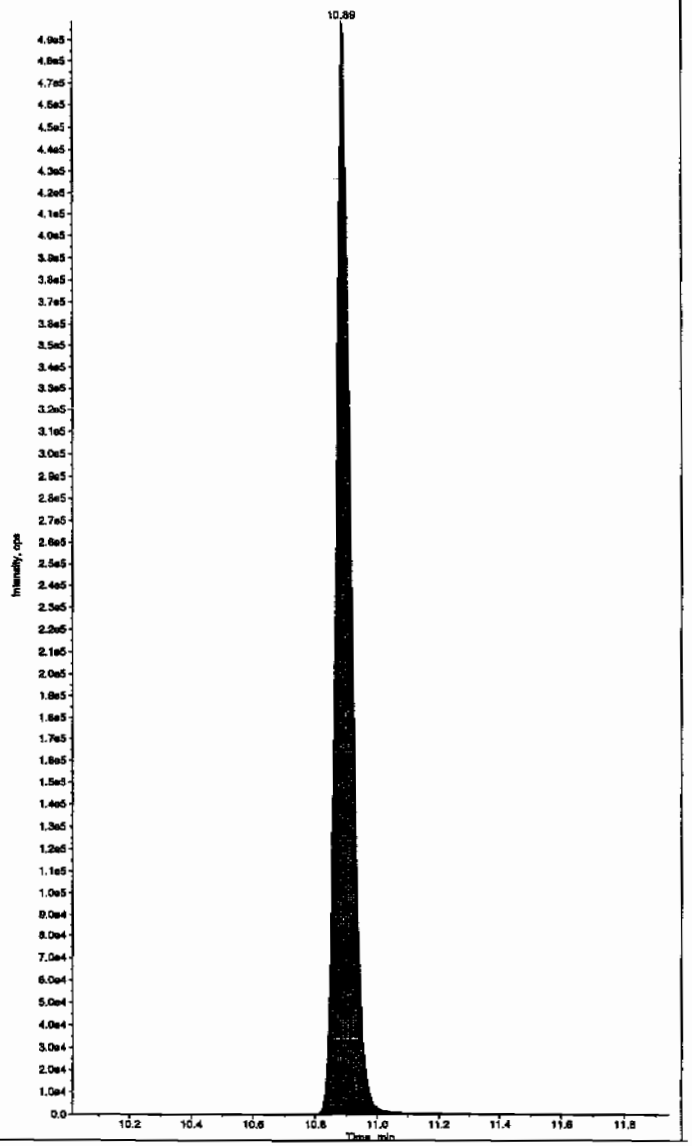


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260114.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 101. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:28:37 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: 1.73e+006 counts
Height: 498755.157 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10–1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260123.wiff

Analysis Date: 27–FEB–10 22:49

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	489	98	
3,4–Dinitrotoluene	250	209	84	
3,5–Dinitroaniline	500	447	89	
TATB	500	473	95	
tris(o–cresyl) phosphate	500	484	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%
OtherTarget Analytes 80–120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

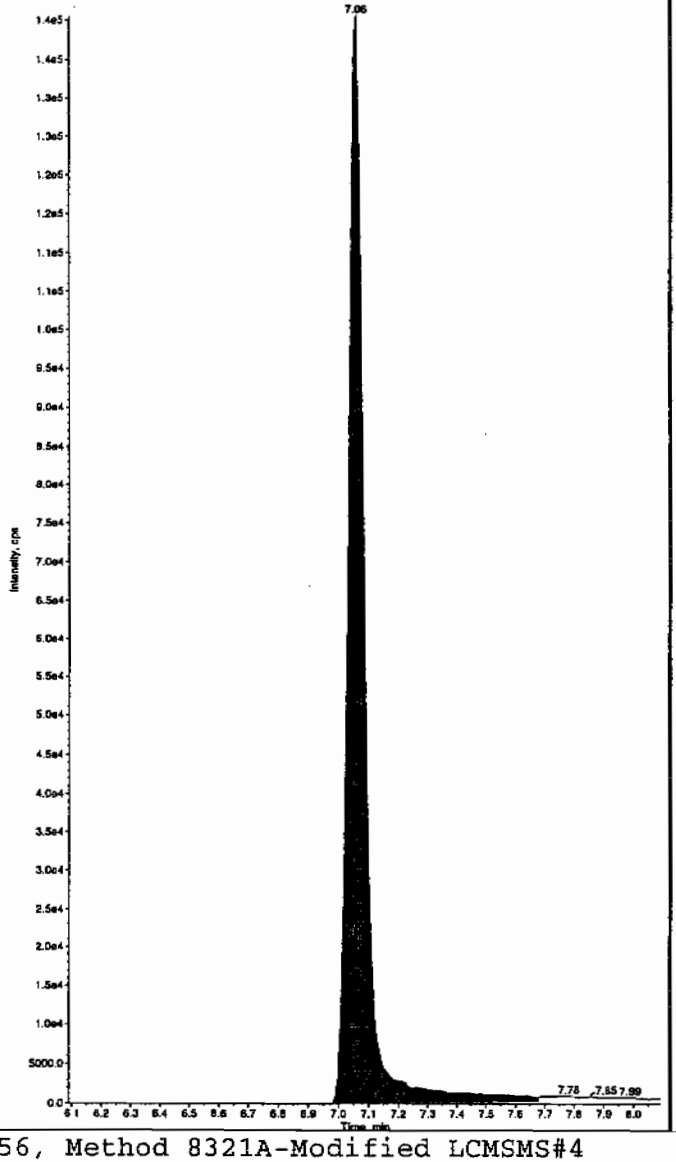
Ken 3/1/10

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260123.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 473. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:49:52 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.06 min
Area: 5.58e+005 counts
Height: 140523.590 cps
Start Time: 6.96 min
End Time: 7.68 min

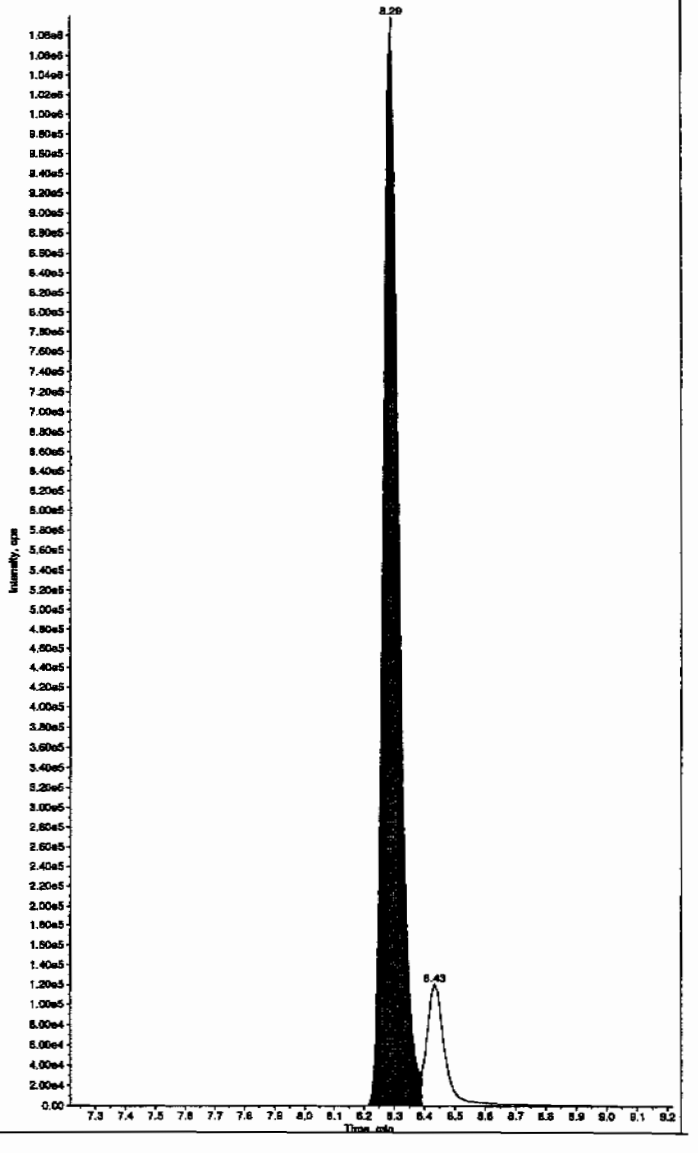


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260123.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 447. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:49:52 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: 8.22 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.29 min
Area: 4.13e+006 counts
Height: 1099061.768 cps
Start Time: 8.20 min
End Time: 8.39 min



Hmm 03/01/10

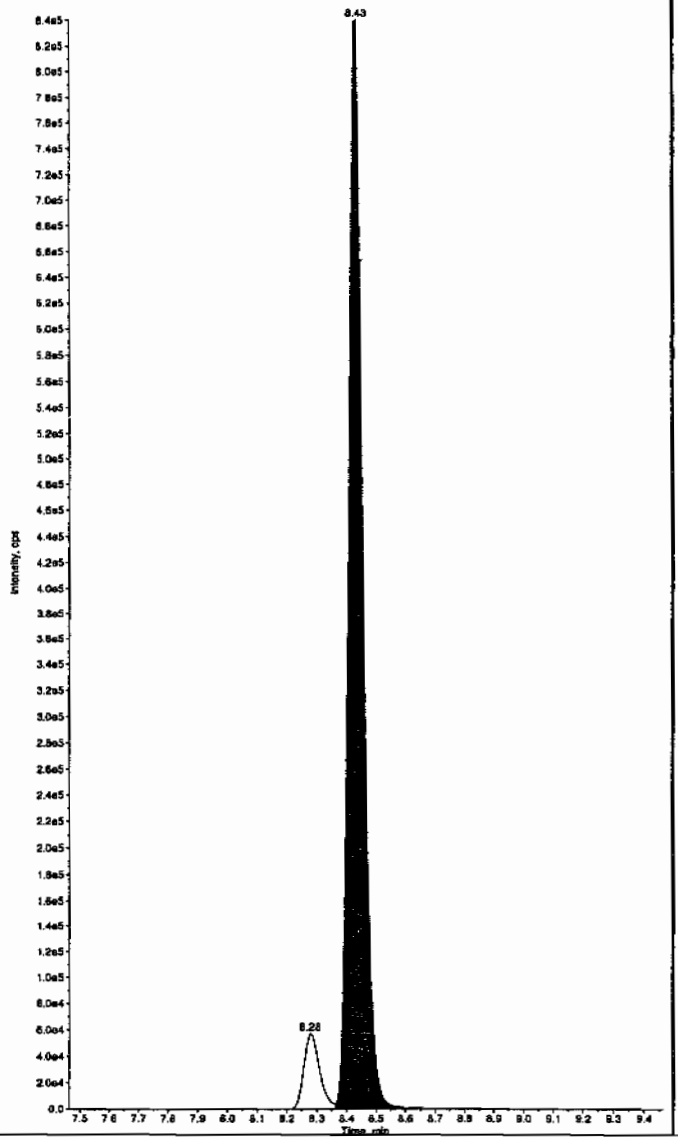
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260123.wiff"
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: 209. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:49:52 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.43 min
Area: 2.91e+006 counts
Height: 640913.330 cps
Start Time: 8.36 min
End Time: 8.74 min

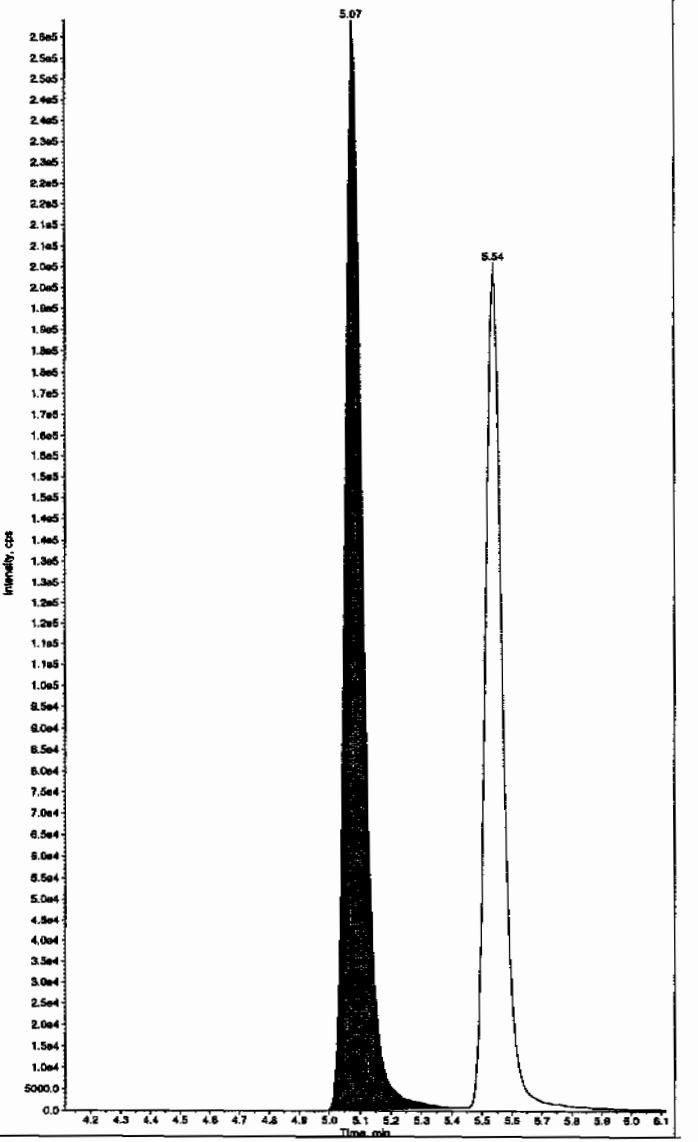


Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260123.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 489. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:49:52 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.07 min
Area: 1.08e+006 counts
Height: 259045.990 cps
Start Time: 4.98 min
End Time: 5.38 min



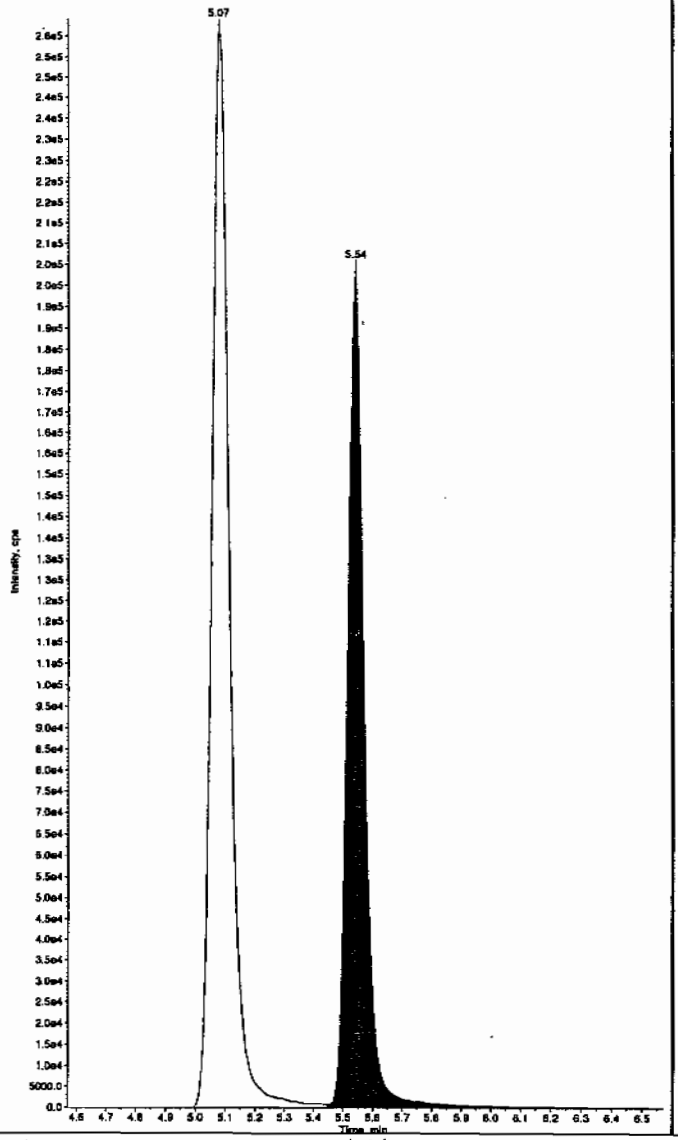
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-26CCV" Sample ID: "[1]LER" File: "EXS02260123.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "156.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 507. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:49:52 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.54 min
Area: 8.10e+005 counts
Height: 201070.770 cps
Start Time: 5.45 min
End Time: 6.26 min

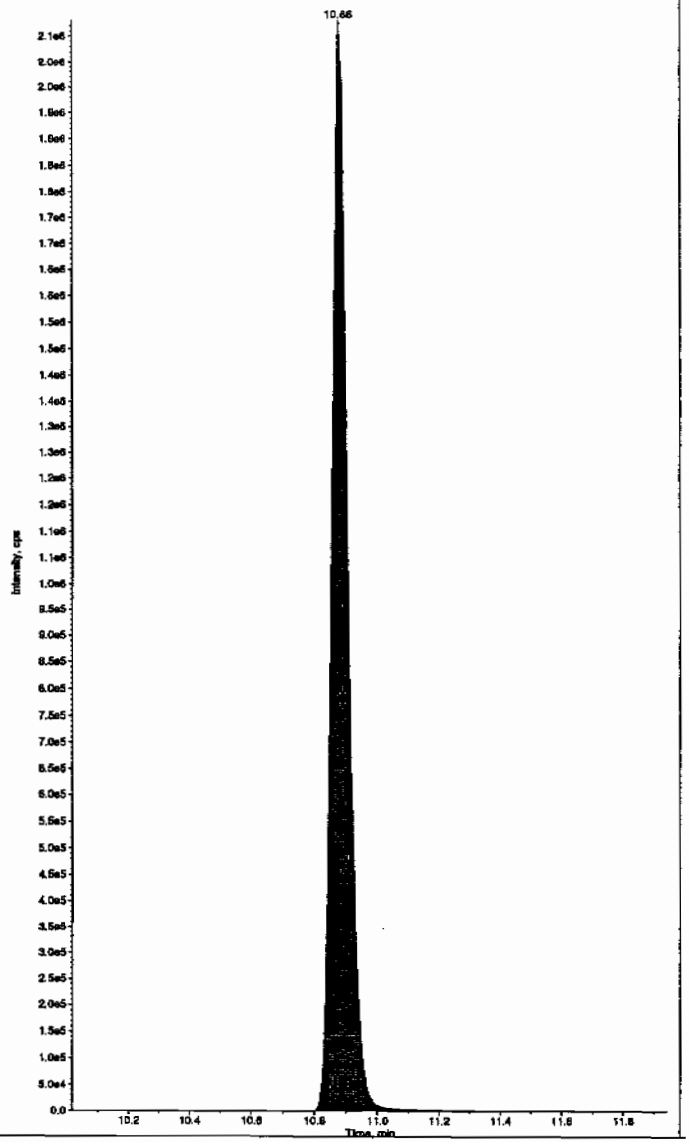


Sample Name: "WXX100226-25CCV" Sample ID: "[1]LER" File: "EXS02260123.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 484. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 10:49:52 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: 7.50e+006 counts
Height: 2081064.453 cps
Start Time: 10.8 min
End Time: 11.2 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): 10–1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260125.wiff

Analysis Date: 27–FEB–10 23:21

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	100	116	116	
2,6–Diamino–4–nitrotoluene	100	113	113	
3,4–Dinitrotoluene	50	42.9	86	
3,5–Dinitroaniline	100	86.1	86	
TATB	100	101	101	
tris(o–cresyl) phosphate	100	102	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 50–150%
OtherTarget Analytes 70–130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

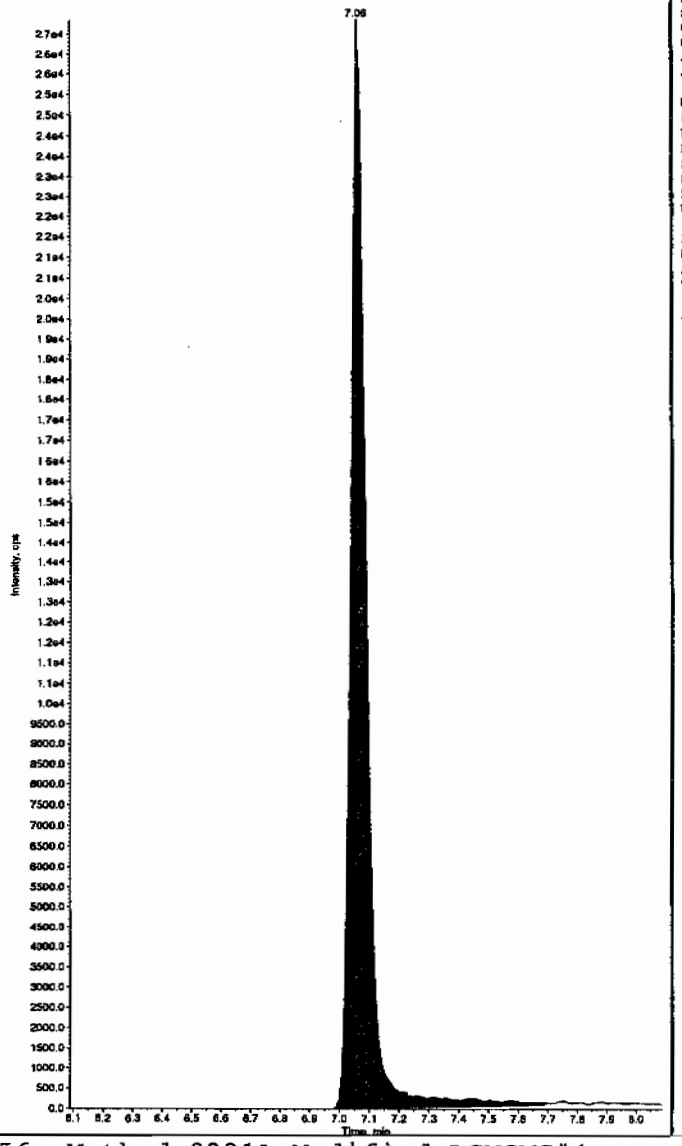
Scan 3/1/10

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260125.wiff"
Peak Name: "TATB" Mass(as): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 101. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 11:21:16 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.06 min
Area: 1.03e+005 counts
Height: 26872.643 cps
Start Time: 6.97 min
End Time: 7.69 min

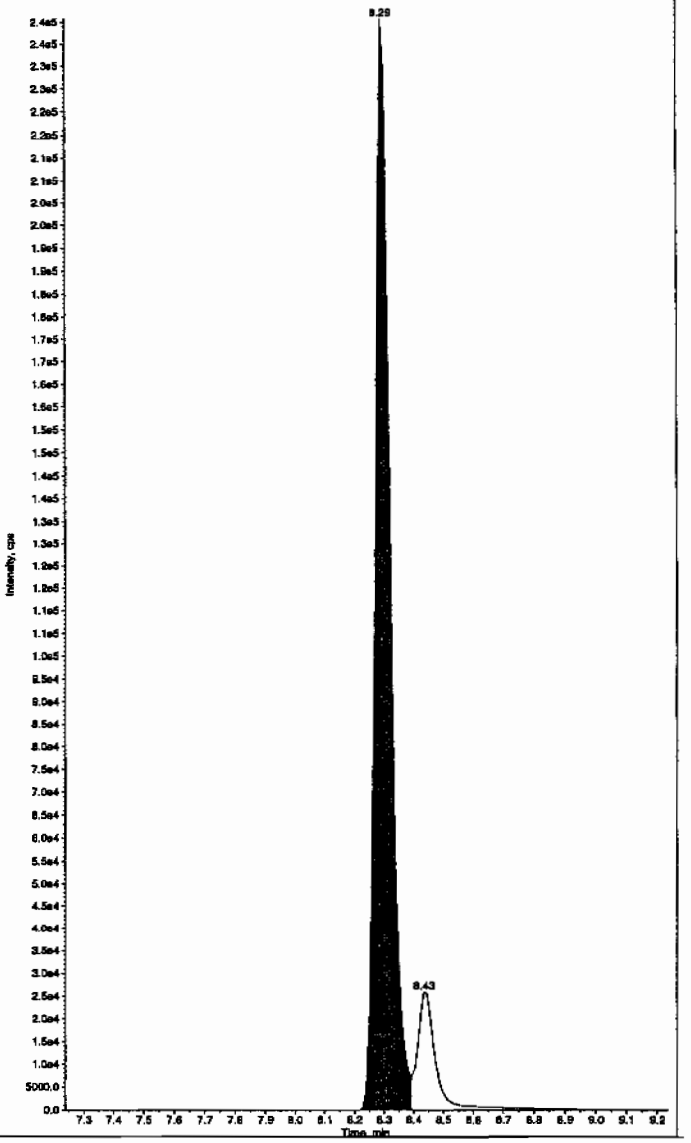


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260125.wiff"
Peak Name: "35-Dinitroaniline" Mass(as): "162.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 86.1 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 11:21:16 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: 8.24 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.29 min
Area: 8.71e+005 counts
Height: 240817.032 cps
Start Time: 8.20 min
End Time: 8.39 min



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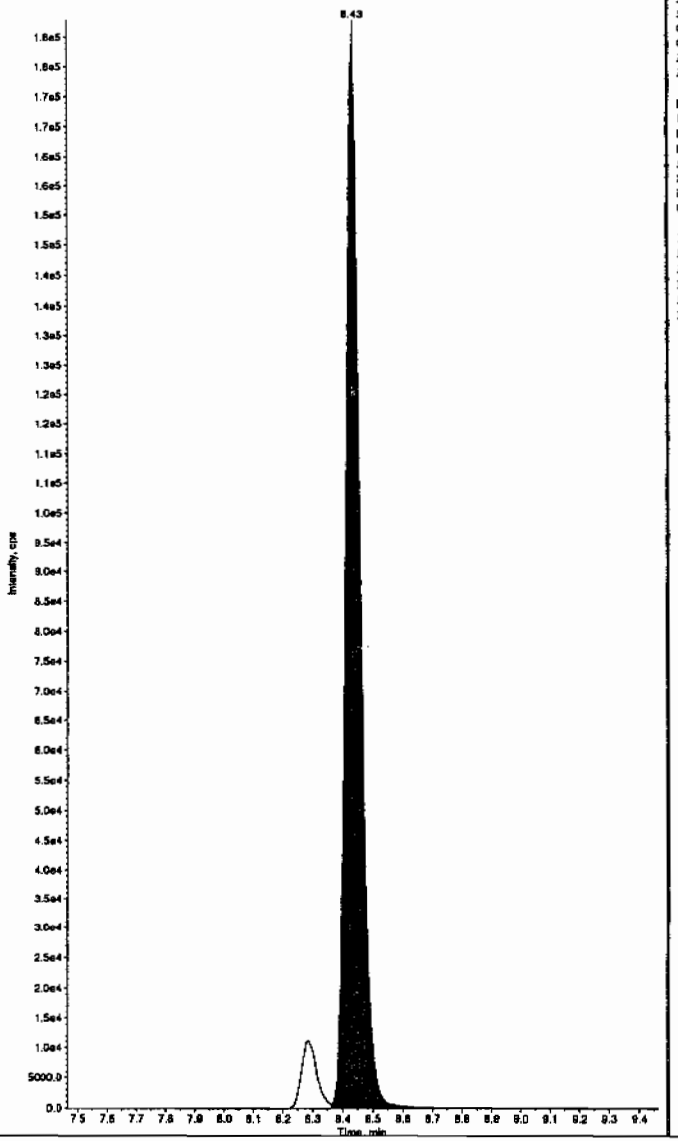
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260125.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 42.9 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 11:21:16 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.43 min
Area: 6.21e+005 counts
Height: 182975.998 cps
Start Time: 8.36 min
End Time: 8.74 min

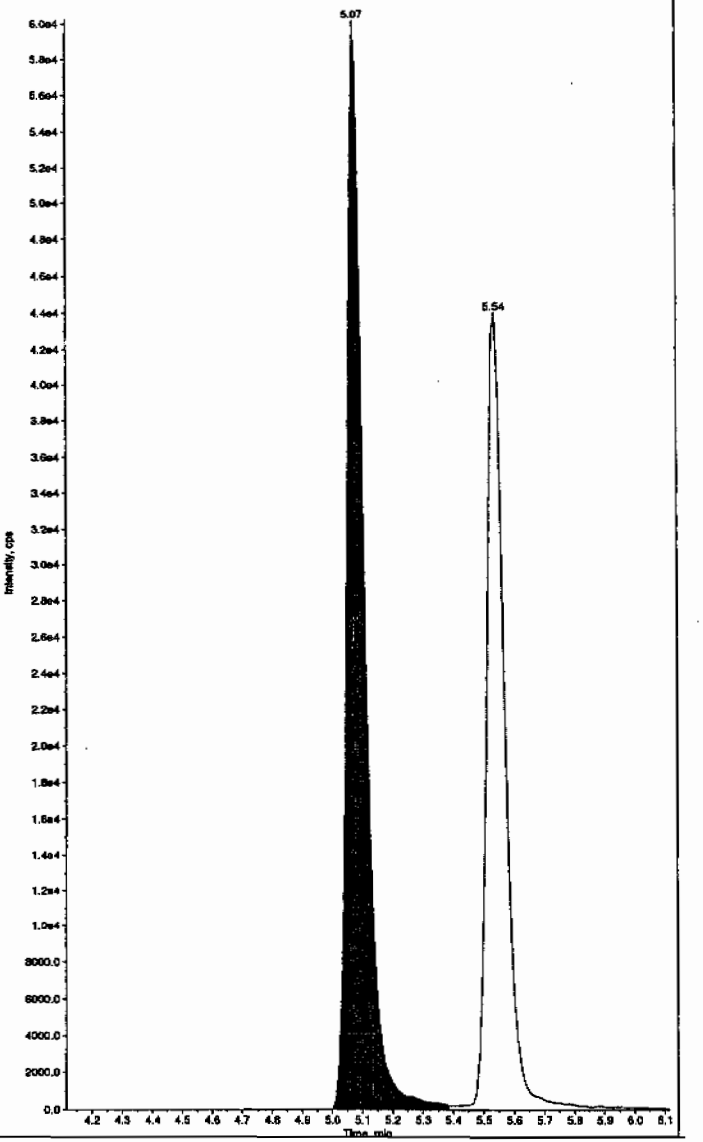


Sample Name: "WXX100226-27CRI" Sample ID: "[1]LER" File: "EXS02260125.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 113. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 11:21:16 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.07 min
Area: 2.47e+005 counts
Height: 60243.855 cps
Start Time: 4.93 min
End Time: 5.38 min



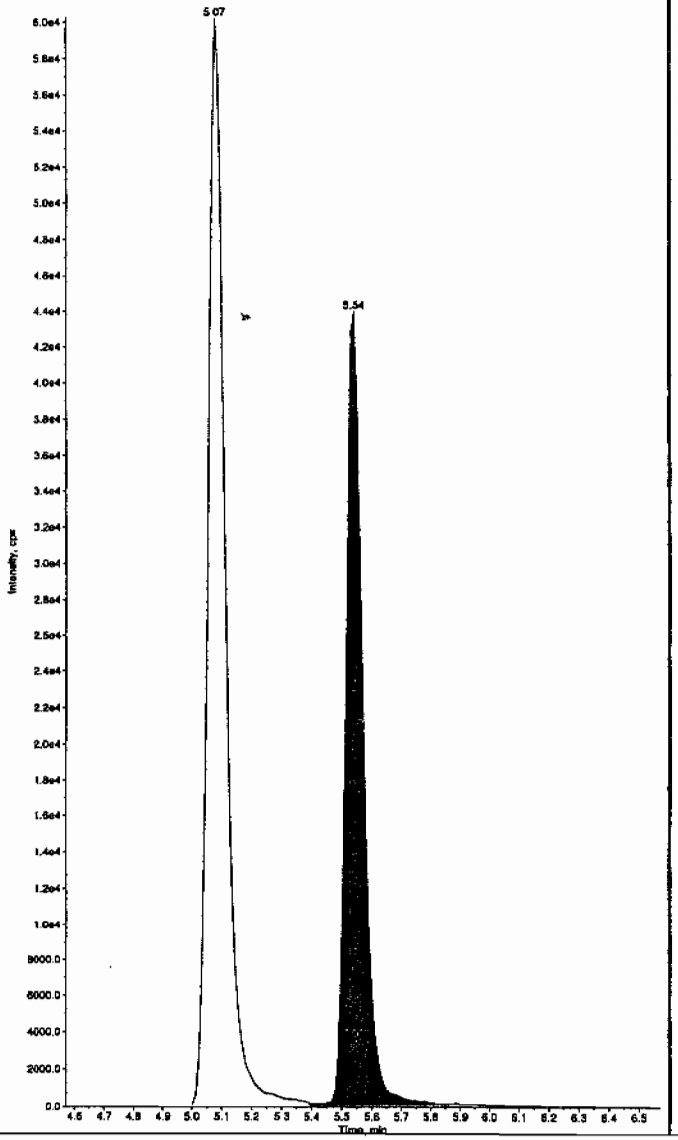
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100226-27CRI" Sample ID: "1|LER" File: "EXS02260125.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 116. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 11:21:16 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.54 min
Area: 1.77e+005 counts
Height: 43947.105 cps
Start Time: 5.39 min
End Time: 5.86 min

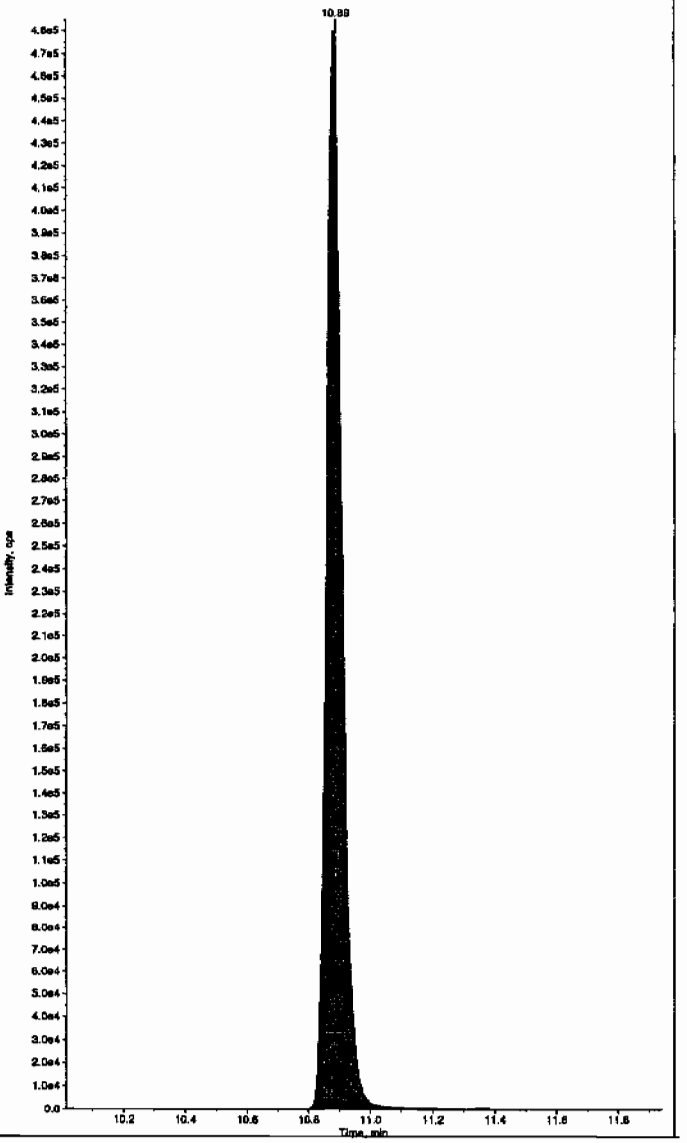


Sample Name: "WXX100226-27CRI" Sample ID: "1|LER" File: "EXS02260125.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 102. ng/mL
Acq. Date: 2/27/2010
Acq. Time: 11:21:16 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: 1.75e+006 counts
Height: 484998.596 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10–1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260136.wiff

Analysis Date: 28–FEB–10 02:14

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	500	642	128	
2,6–Diamino–4–nitrotoluene	500	647	129	
3,4–Dinitrotoluene	250	213	85	
3,5–Dinitroaniline	500	439	88	
TATB	500	513	103	
tris(o–cresyl) phosphate	500	493	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 70–130%
OtherTarget Analytes 80–120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

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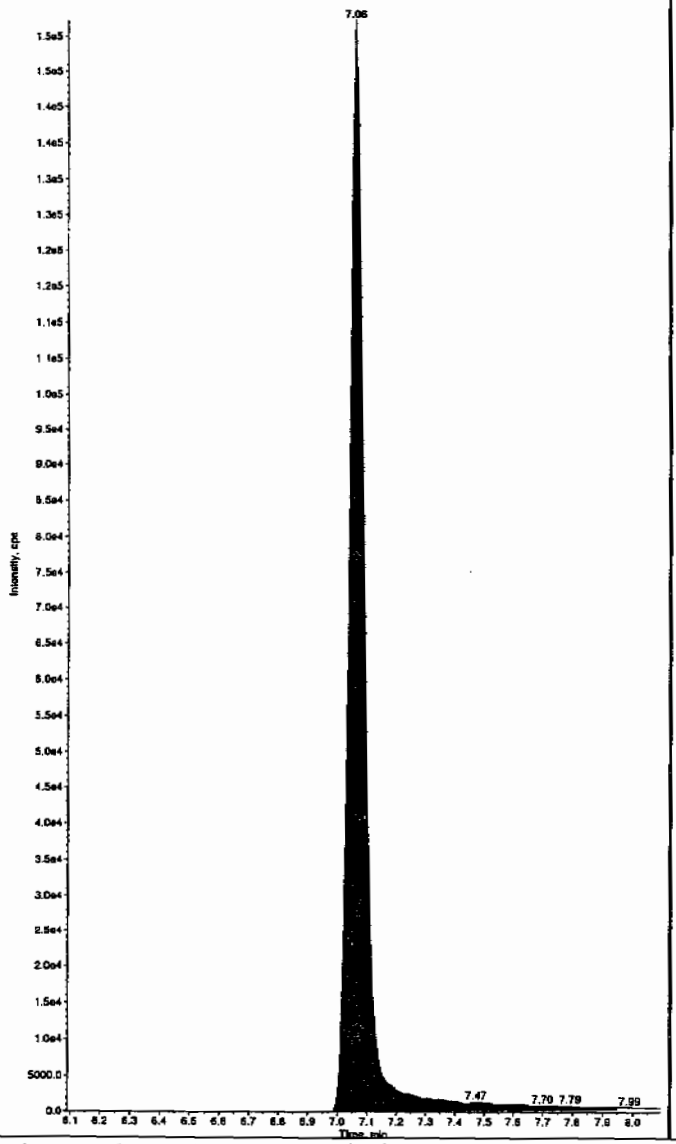
Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260136.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 513. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:14:05 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.06 min
Area: 6.07e+005 counts
Height: 152302.231 cps
Start Time: 6.97 min
End Time: 7.95 min

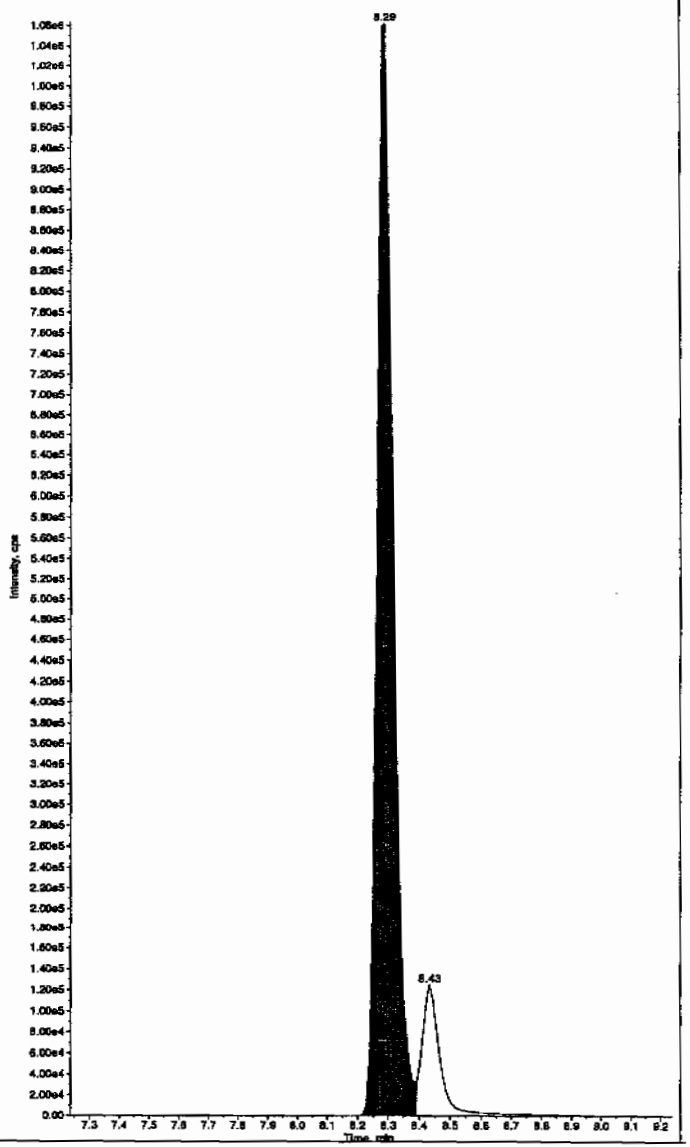


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260136.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 439. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:14:05 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: 8.24 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.29 min
Area: 4.05e+006 counts
Height: 1063914.185 cps
Start Time: 8.20 min
End Time: 8.39 min



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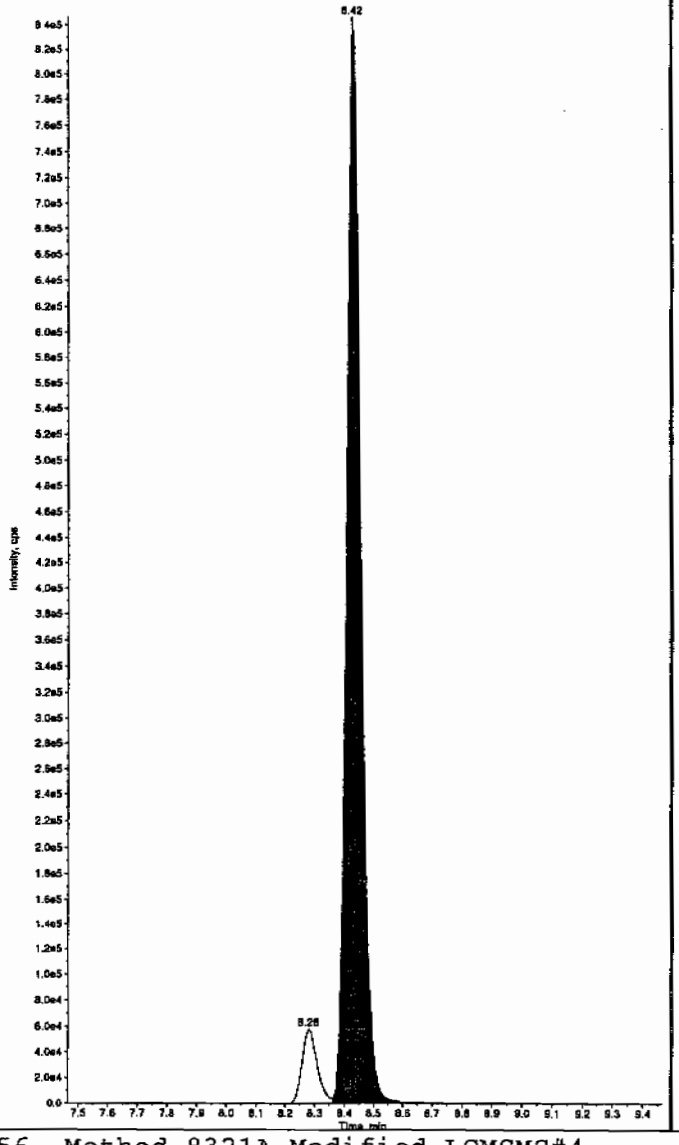
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260136.wiff"
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: 213. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:14:05 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.42 min
Area: 2.96e+006 counts
Height: 846698.059 cps
Start Time: 8.36 min
End Time: 8.74 min

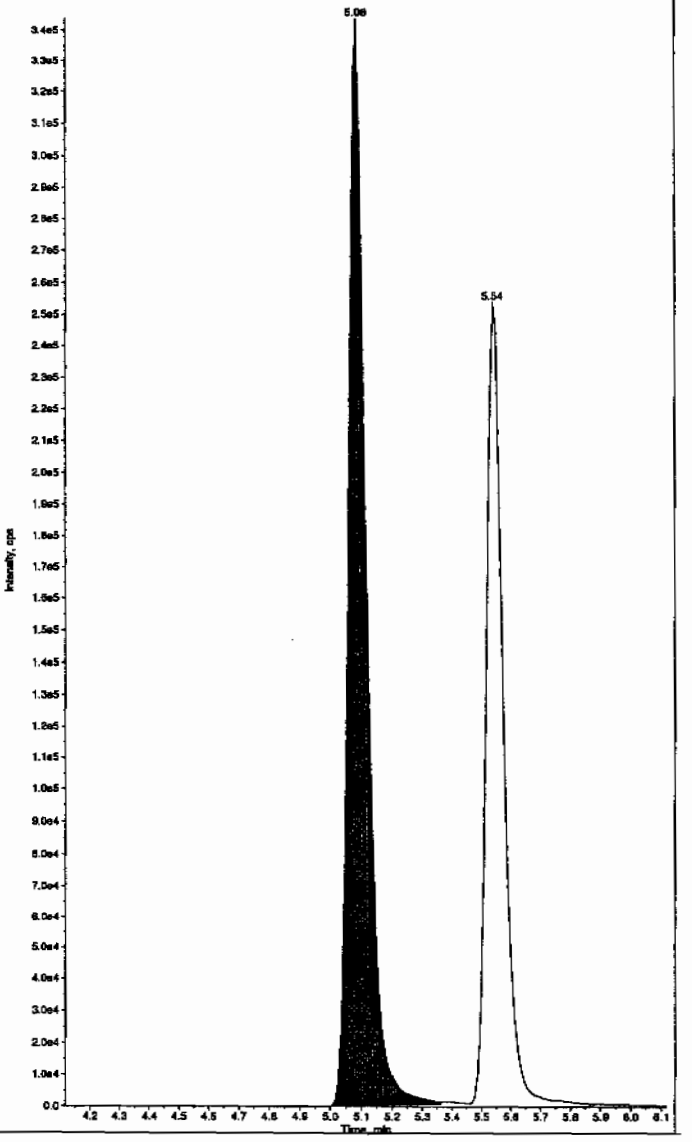


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260136.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 647. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:14:05 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.08 min
Area: 1.42e+006 counts
Height: 343963.593 cps
Start Time: 4.99 min
End Time: 5.36 min



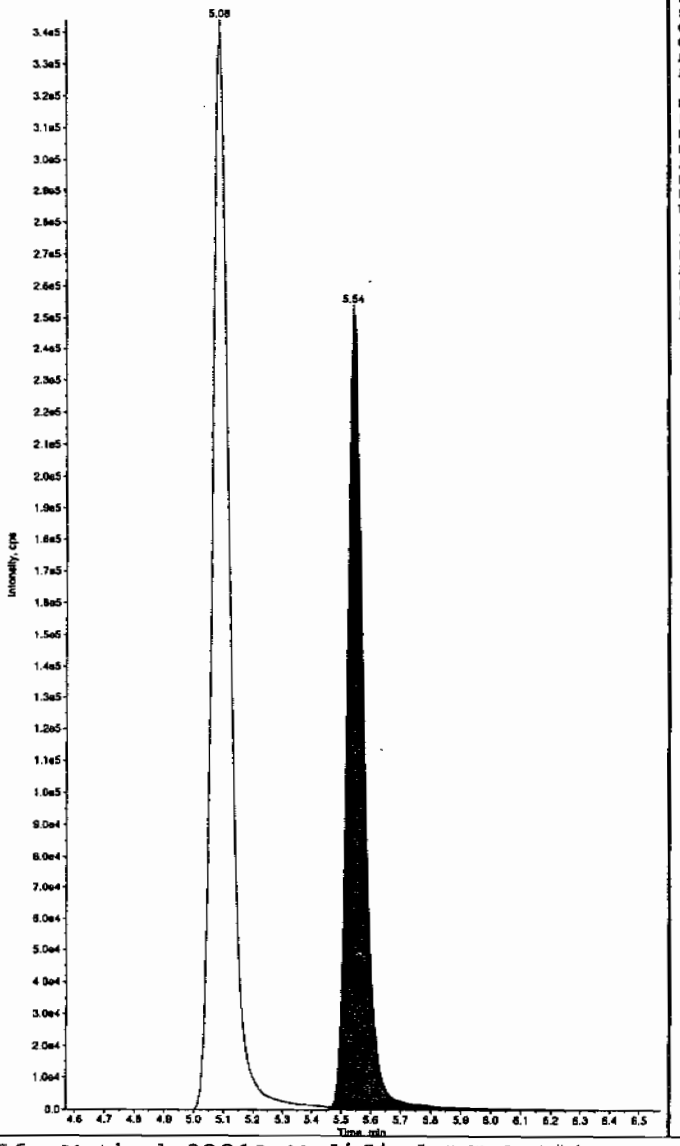
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260136.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 642. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:14:05 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.54 min
Area: 1.03e+006 counts
Height: 253787.354 cps
Start Time: 5.46 min
End Time: 6.05 min

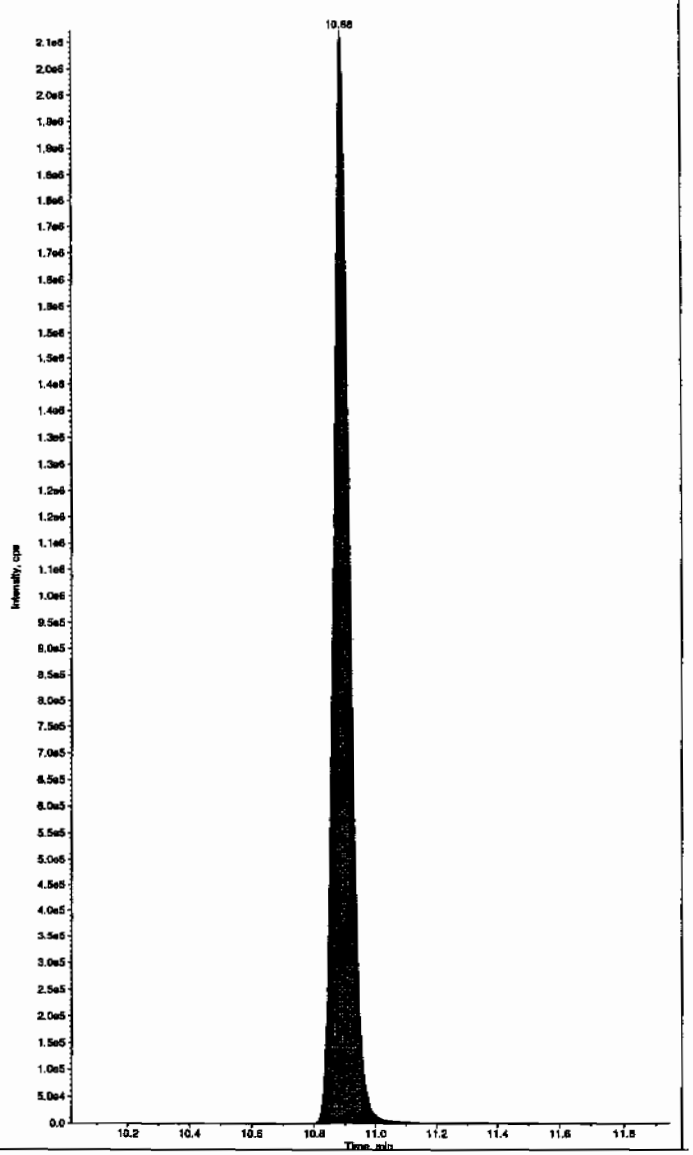


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260136.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 493. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:14:05 AM

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: 7.62e+006 counts
Height: 2072898.193 cps
Start Time: 10.8 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260138.wiff

Analysis Date: 28-FEB-10 02:45

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,6-Diamino-4-nitrotoluene	100	135	135	
3,4-Dinitrotoluene	50	44.3	89	
3,5-Dinitroaniline	100	87.8	88	
TATB	100	105	105	
tris(o-cresyl) phosphate	100	98.5	99	
2,4-Diamino-6-nitrotoluene	100	134	134	

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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

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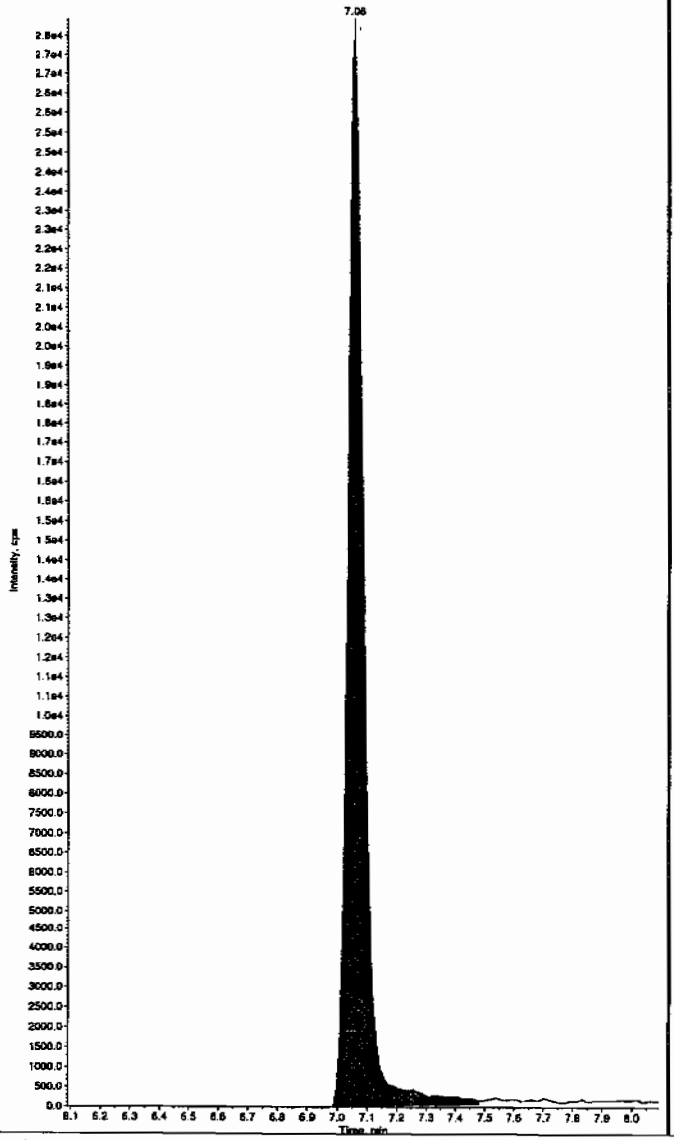
Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260138.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 105. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:45:40 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.06 min
Area: 1.08e+005 counts
Height: 27944.248 cps
Start Time: 6.97 min
End Time: 7.48 min

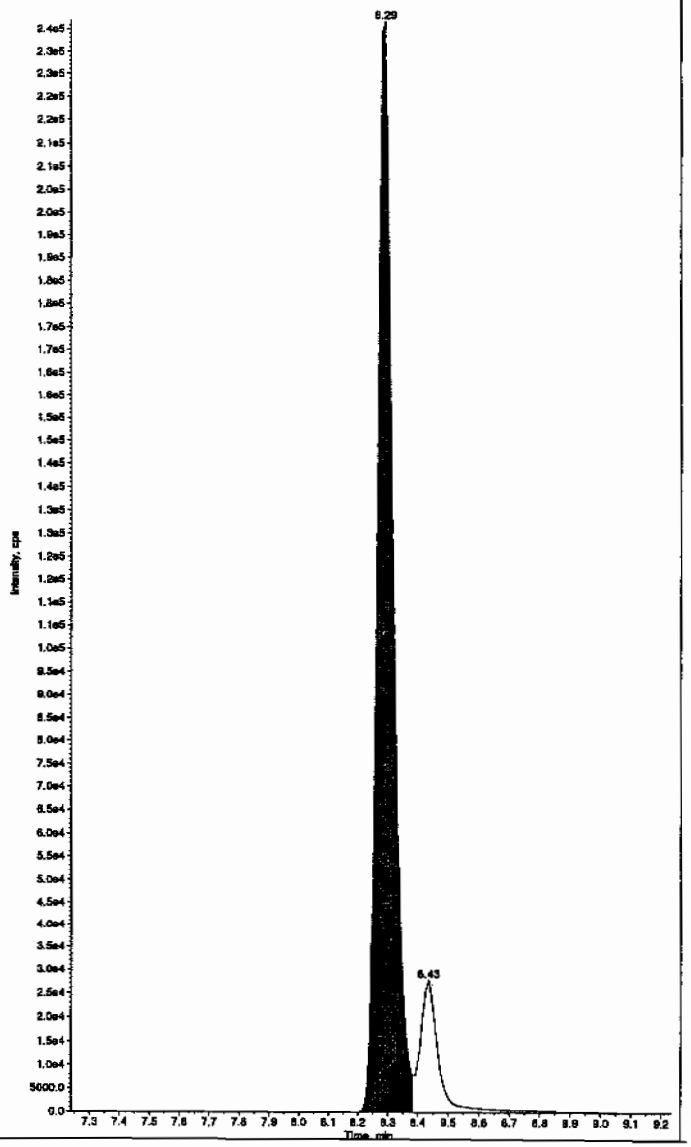


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260138.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 87.8 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:45:40 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: 8.24 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.29 min
Area: 8.87e+005 counts
Height: 236931.213 cps
Start Time: 8.20 min
End Time: 8.38 min



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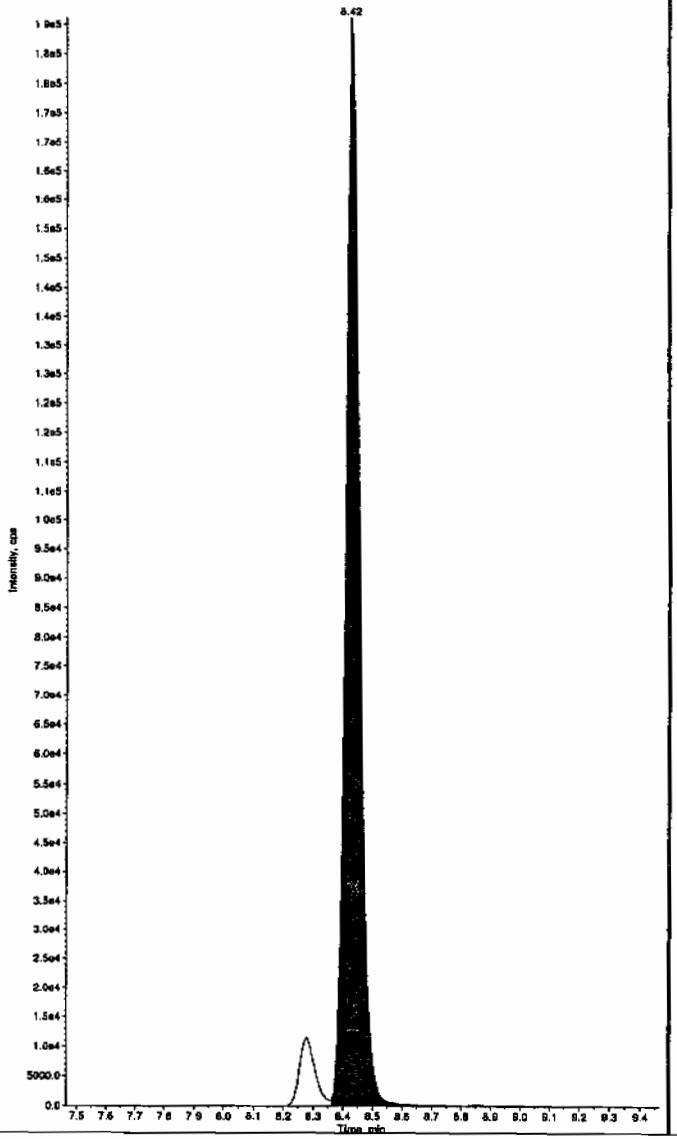
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260138.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 44.3 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:45:40 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.42 min
Area: 6.41e+005 counts
Height: 136274.155 cps
Start Time: 8.36 min
End Time: 8.76 min

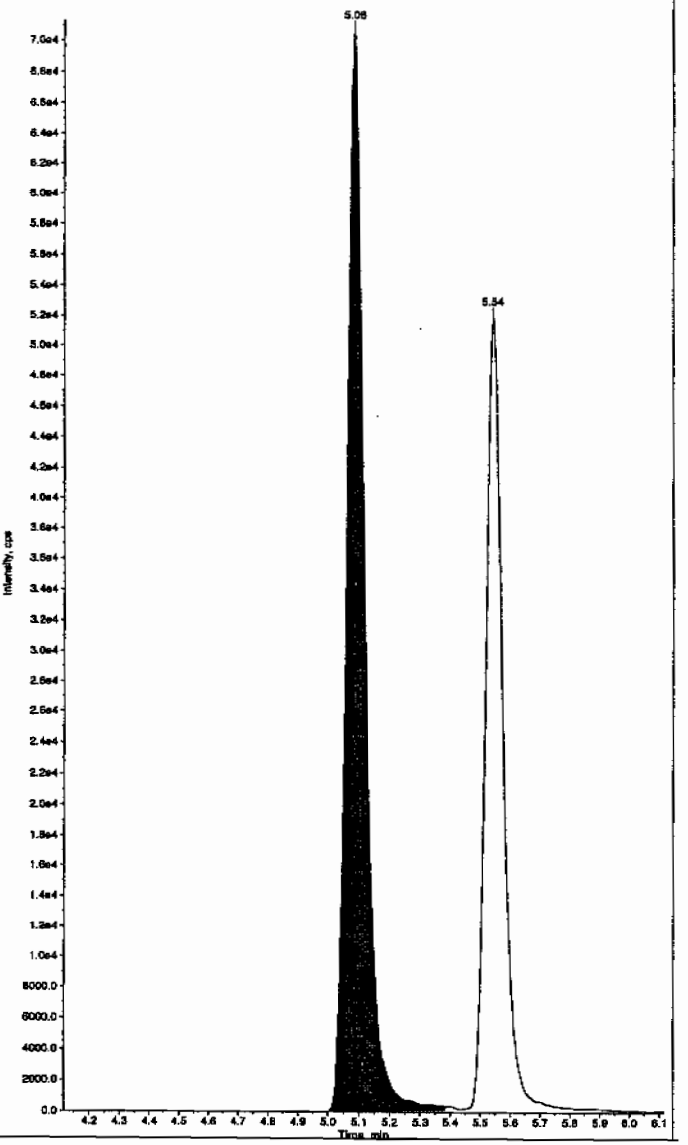


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260138.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 135. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 2:45:40 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.08 min
Area: 2.95e+005 counts
Height: 71304.848 cps
Start Time: 4.99 min
End Time: 5.38 min



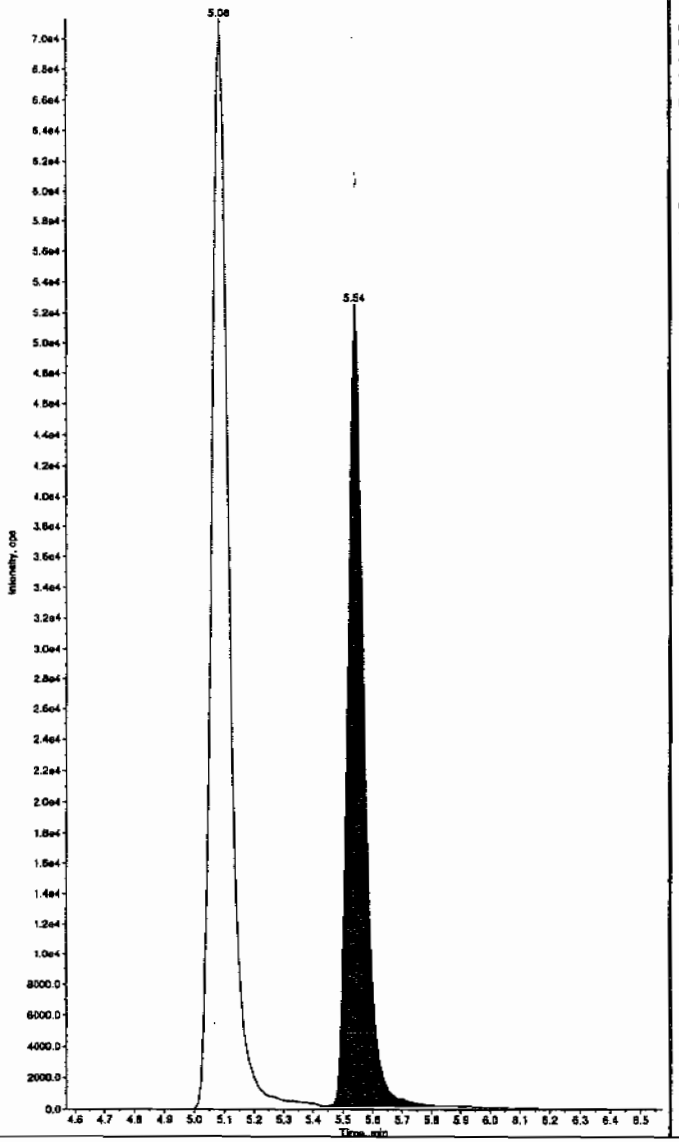
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260138.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 134. ng/mL
Acq. Date: 2/26/2010
Acq. Time: 2:45:40 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.54 min
Area: 2.06e+005 counts
Height: 52367.104 cps
Start Time: 5.44 min
End Time: 5.84 min

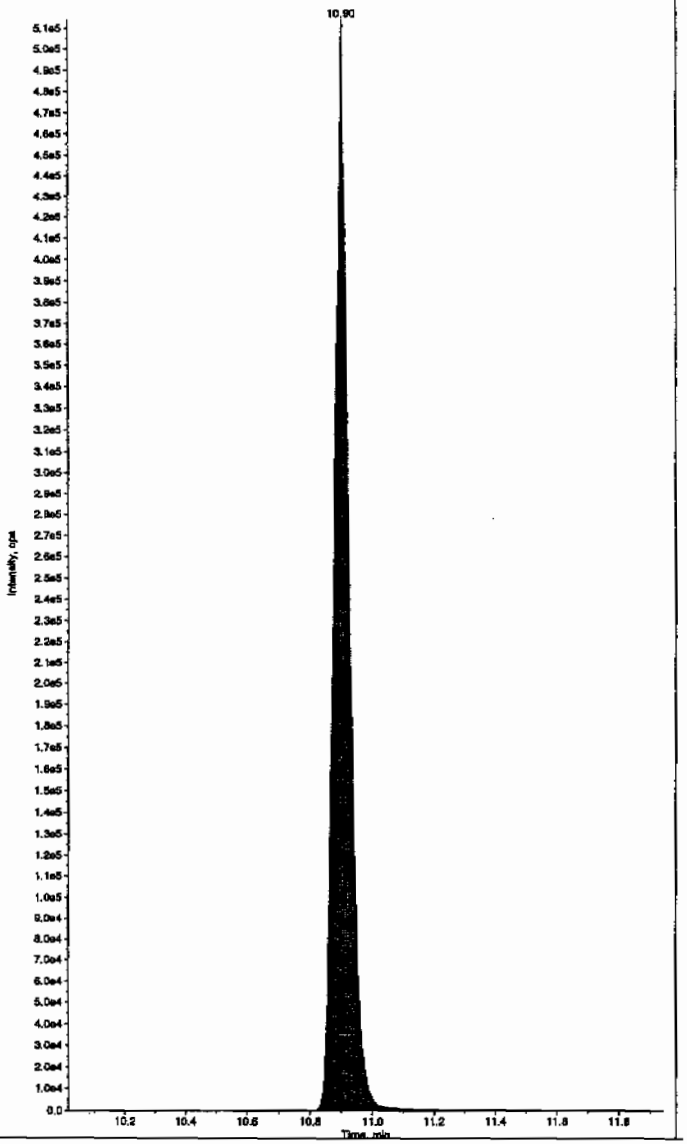


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260138.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 98.5 ng/mL
Acq. Date: 2/26/2010
Acq. Time: 2:45:40 AM

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: 1.69e+006 counts
Height: 513895.264 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10–1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260149.wiff

Analysis Date: 28–FEB–10 05:38

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	500	571	114	
2,6–Diamino–4–nitrotoluene	500	560	112	
3,4–Dinitrotoluene	250	220	88	
3,5–Dinitroaniline	500	456	91	
TATB	500	492	98	
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%
OtherTarget Analytes 80–120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

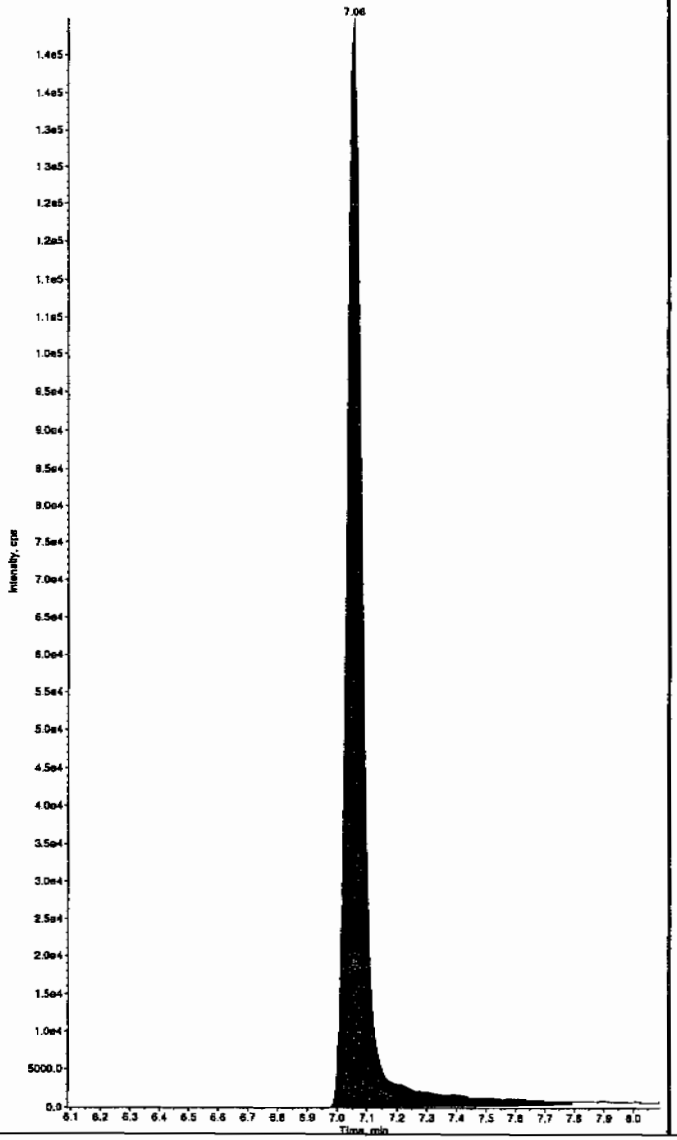
Ler 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260149.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 492. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 5:38:51 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.06 min
Area: 5.81e+005 counts
Height: 144837.997 cps
Start Time: 6.96 min
End Time: 7.79 min

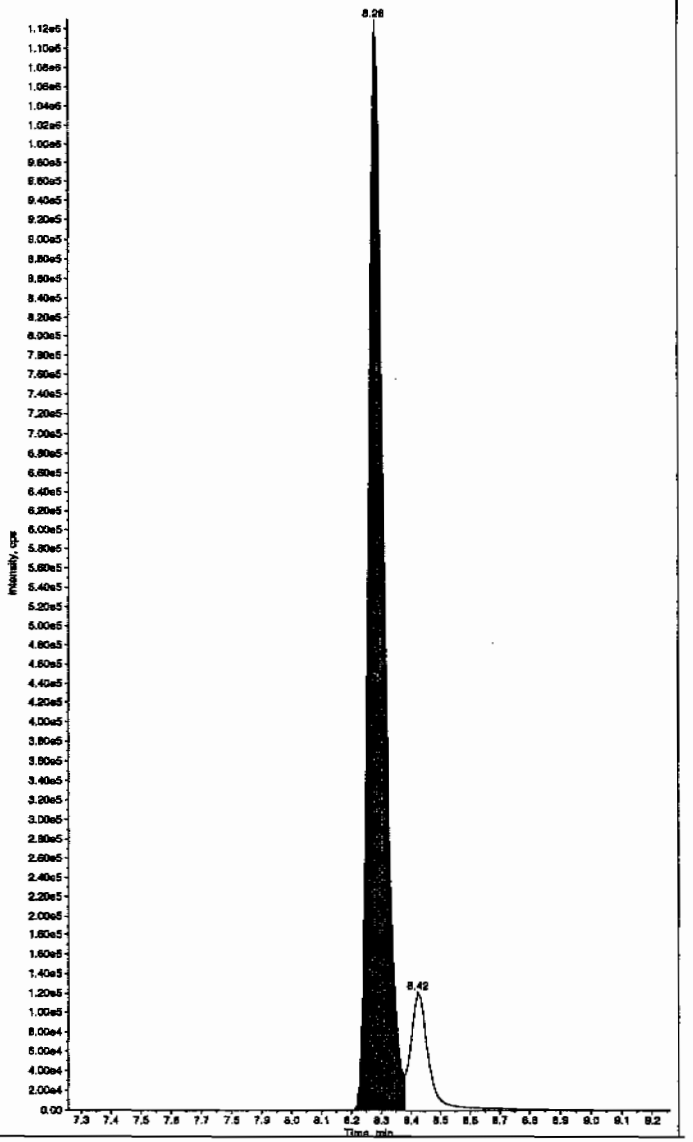


Sample Name: "WXX100227-28CCV" Sample ID: "[1]LER" File: "EXS02260149.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 456. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 5:38:51 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: 8.26 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.28 min
Area: 4.20e+006 counts
Height: 1130288.940 cps
Start Time: 8.19 min
End Time: 8.38 min



#MM 03/01/10

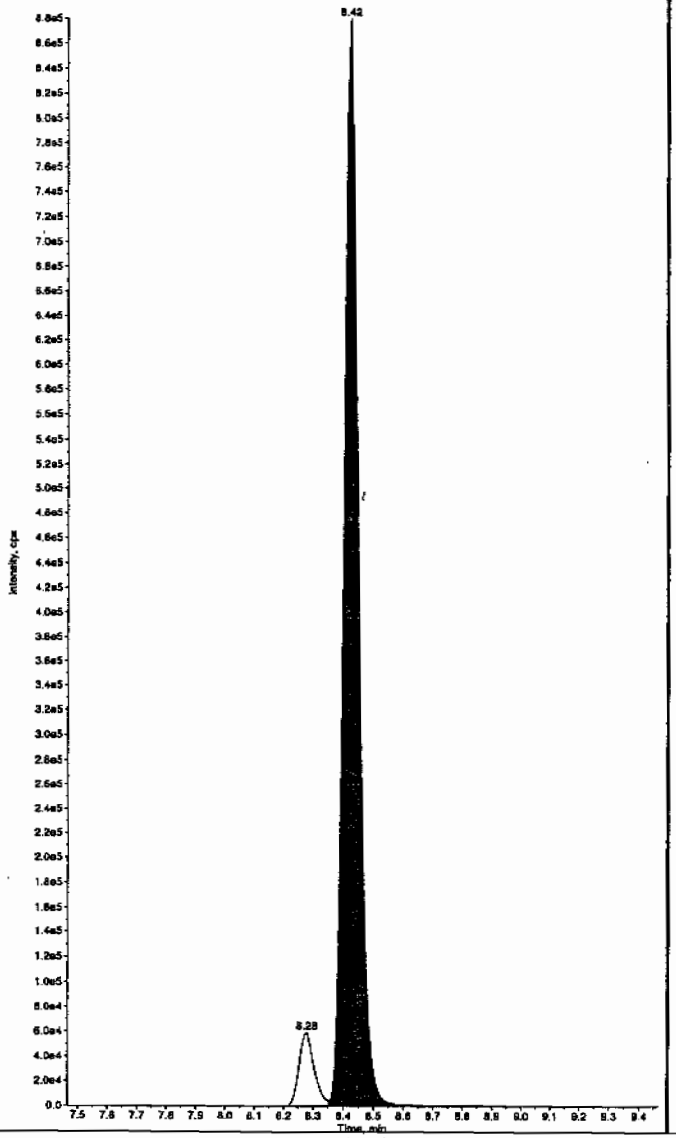
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260149.wiff"
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: 220. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 5:38:51 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.42 min
Area: 3.05e+006 counts
Height: 879856.262 cps
Start Time: 8.35 min
End Time: 8.74 min

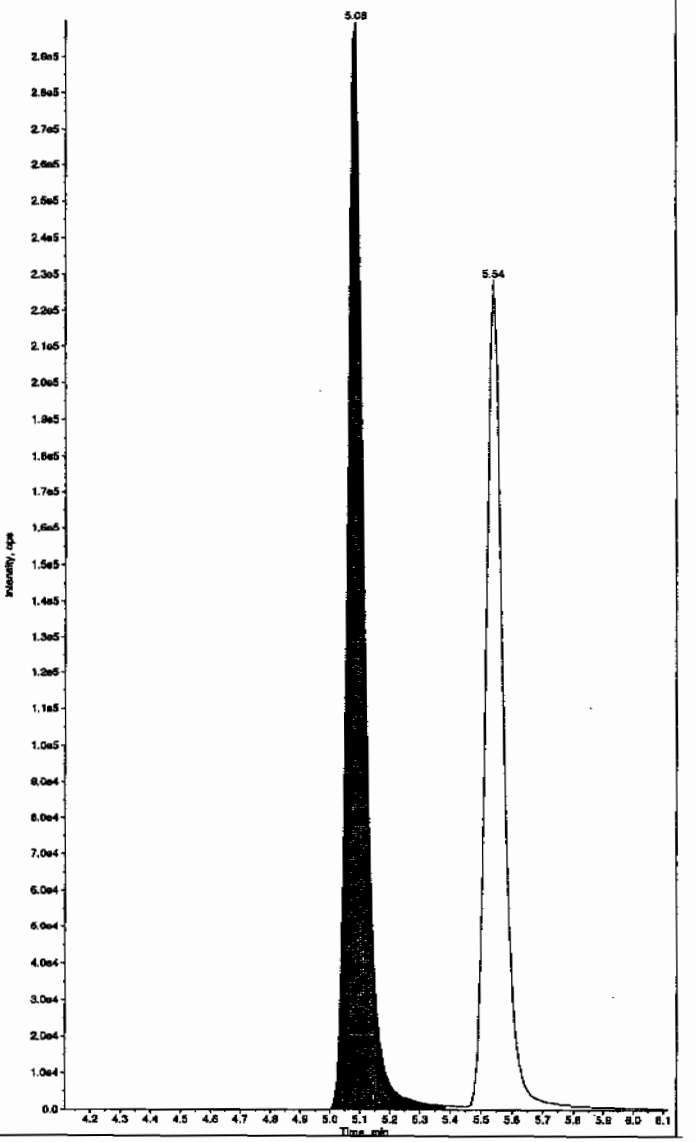


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260149.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 560. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 5:38:51 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.08 min
Area: 1.23e+006 counts
Height: 299708.374 cps
Start Time: 4.99 min
End Time: 5.38 min



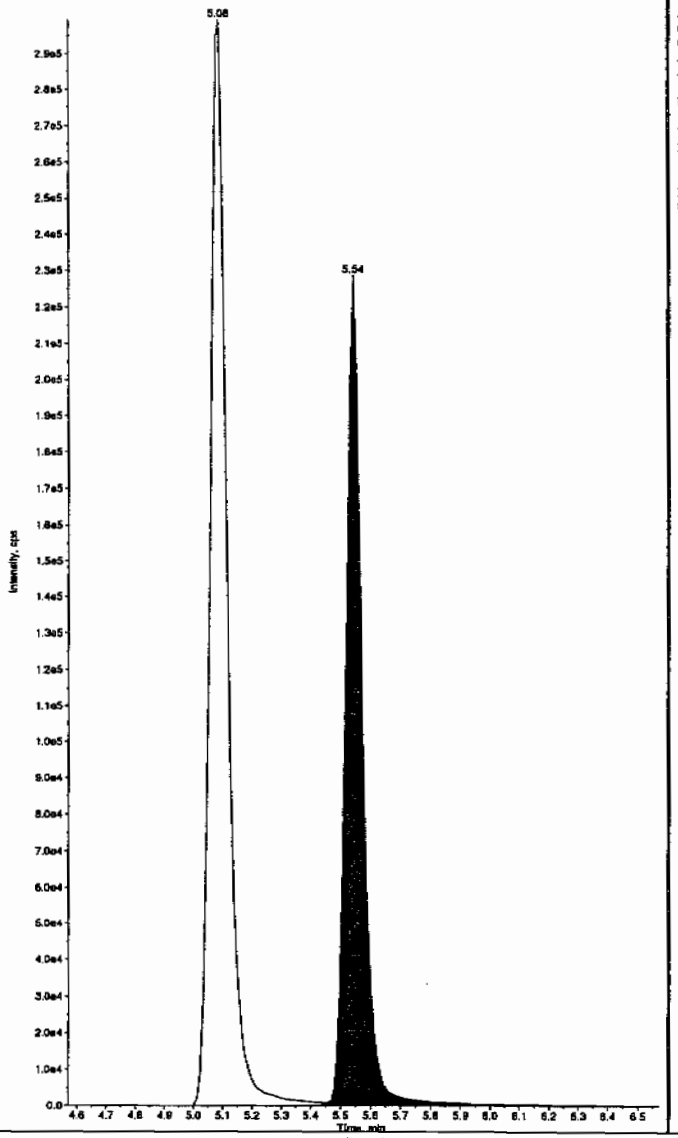
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "1|LER" File: "EXS02260149.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 571. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 5:38:51 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.54 min
Area: 9.13e+005 counts
Height: 228668.228 cps
Start Time: 5.44 min
End Time: 6.20 min

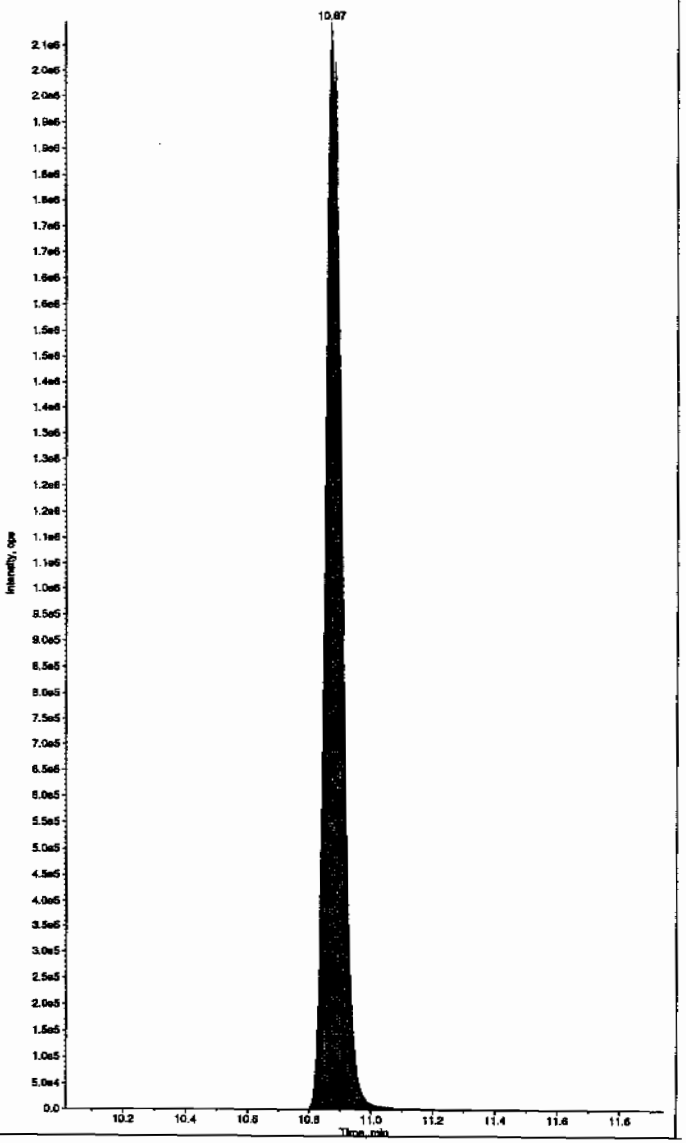


Sample Name: "WXX100227-26CCV" Sample ID: "1|LER" File: "EXS02260149.wiff"
Peak Name: "Iris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 515. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 5:38:51 AM

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: 7.92e+006 counts
Height: 2098227.783 cps
Start Time: 10.8 min
End Time: 11.2 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): 10–1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260151.wiff

Analysis Date: 28–FEB–10 06:10

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
2,4–Diamino–6–nitrotoluene	100	123	123	
2,6–Diamino–4–nitrotoluene	100	114	114	
3,4–Dinitrotoluene	50	43.5	87	
3,5–Dinitroaniline	100	87.7	88	
TATB	100	102	102	
tris(o–cresyl) phosphate	100	105	105	

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%
OtherTarget Analytes 70–130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

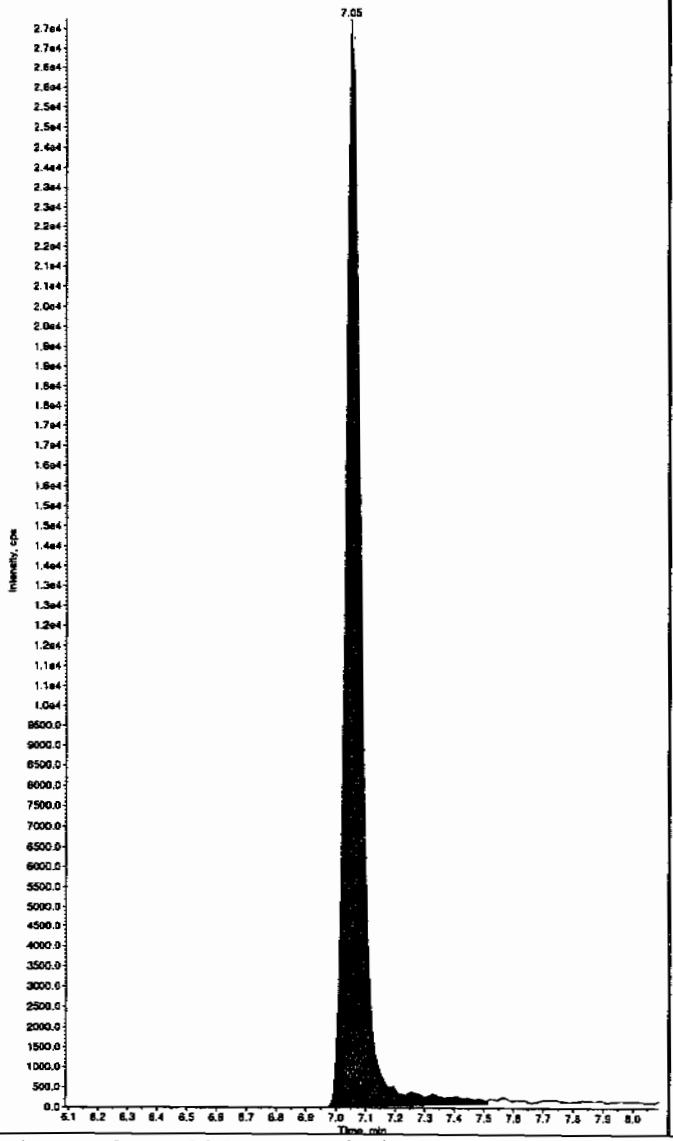
Lcm 3/1/10

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260151.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 102. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 6:10:24 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.05 min
Area: 1.05e+005 counts
Height: 27239.624 cps
Start Time: 6.93 min
End Time: 7.51 min

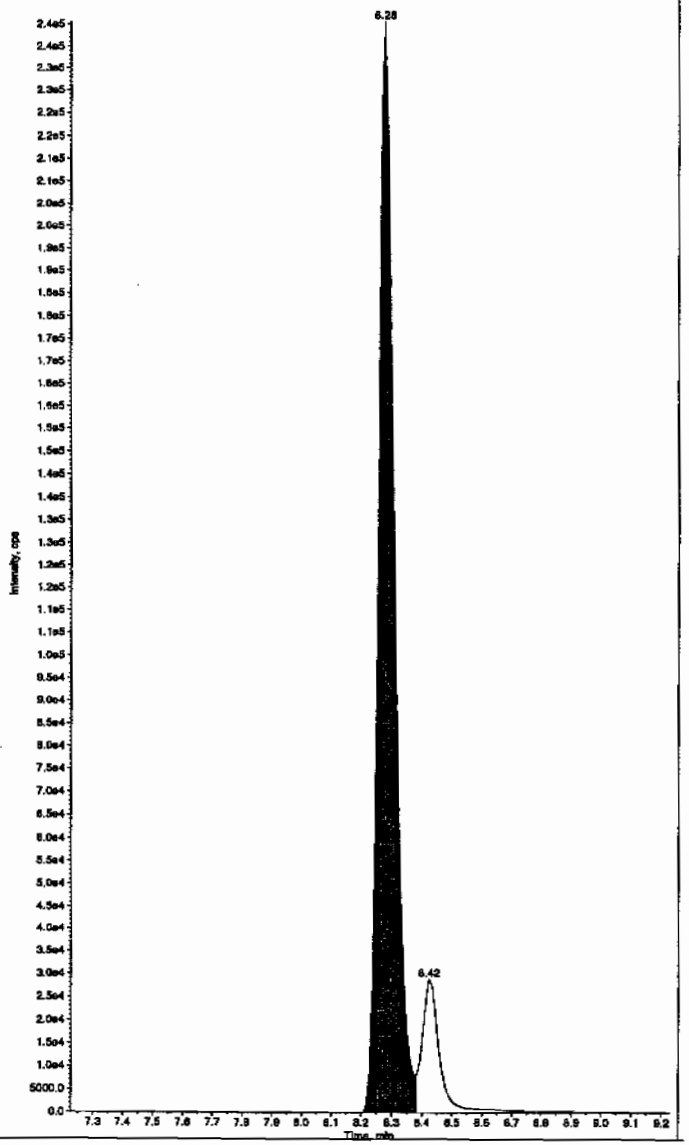


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260151.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 87.7 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 6:10:24 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: 8.23 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.28 min
Area: 8.86e+005 counts
Height: 240583.374 cps
Start Time: 8.19 min
End Time: 8.38 min



HMW 03/01/10

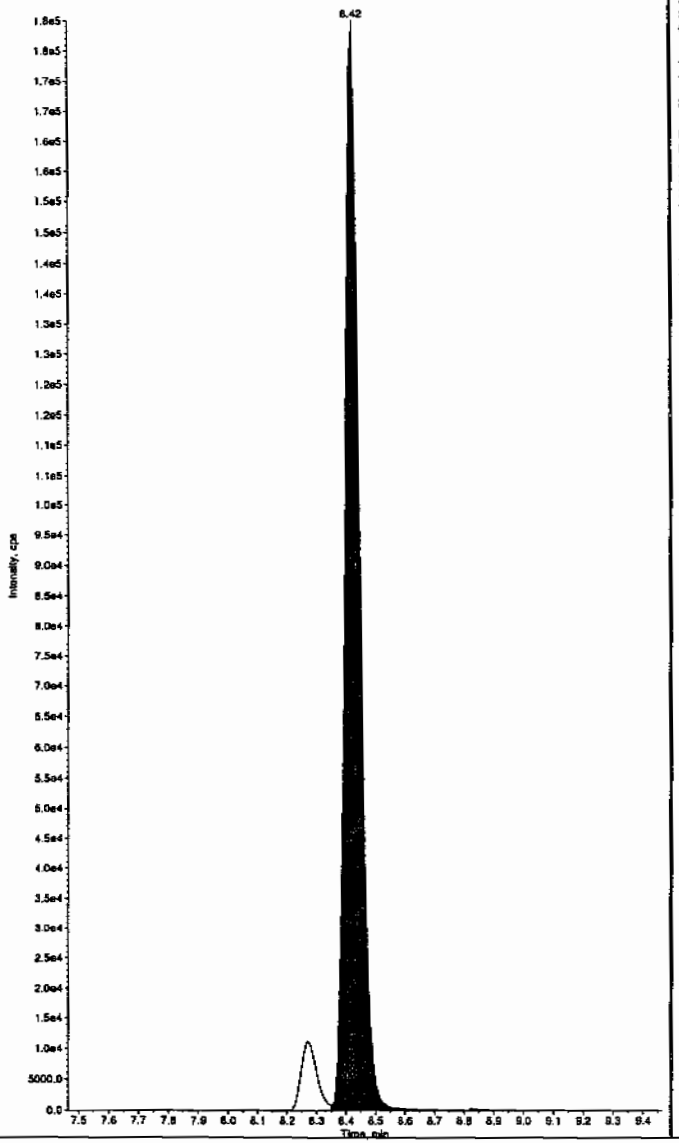
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260151.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 43.5 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 6:10:24 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.42 min
Area: 6.29e+005 counts
Height: 180015.884 cps
Start Time: 8.35 min
End Time: 8.72 min

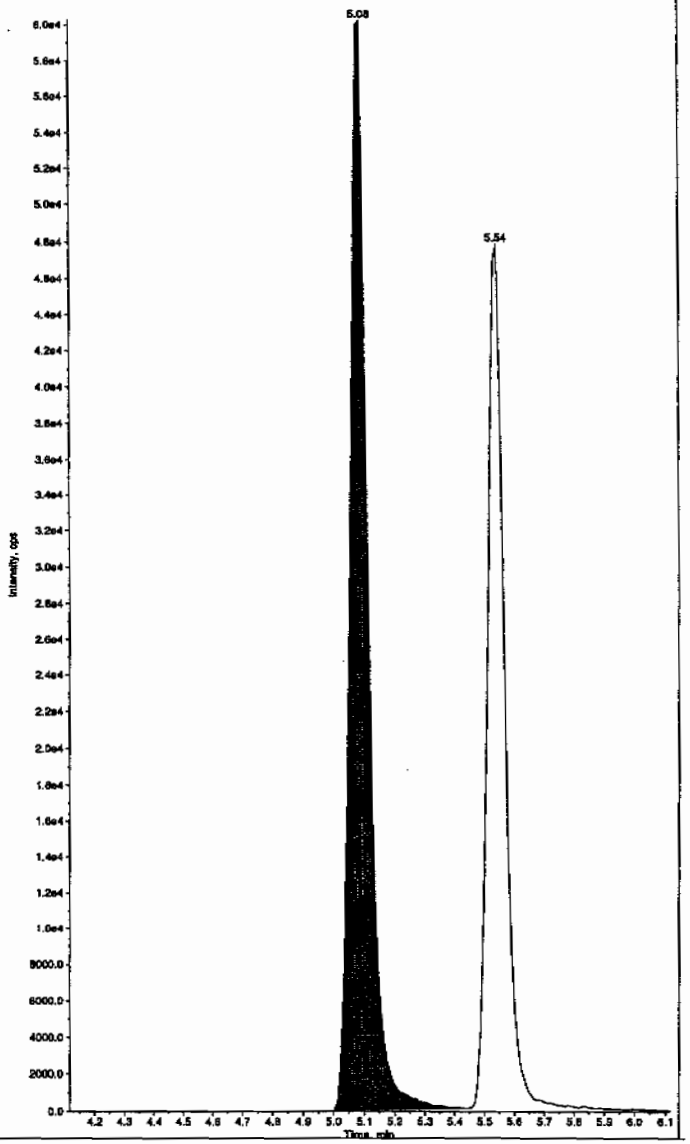


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260151.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 114. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 6:10:24 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.08 min
Area: 2.50e+005 counts
Height: 60249.897 cps
Start Time: 4.97 min
End Time: 5.38 min



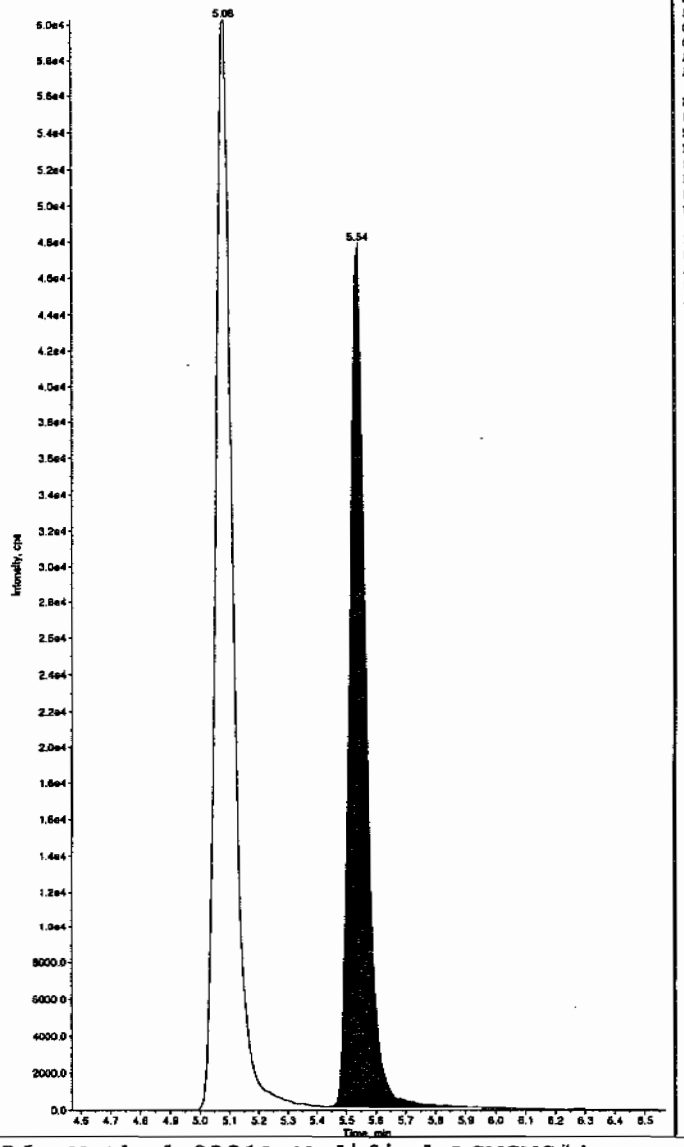
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "|1|LER" File: "EXS02260151.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 123. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 6:10:24 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.54 min
Area: 1.89e+005 counts
Height: 47773.445 cps
Start Time: 5.44 min
End Time: 5.90 min

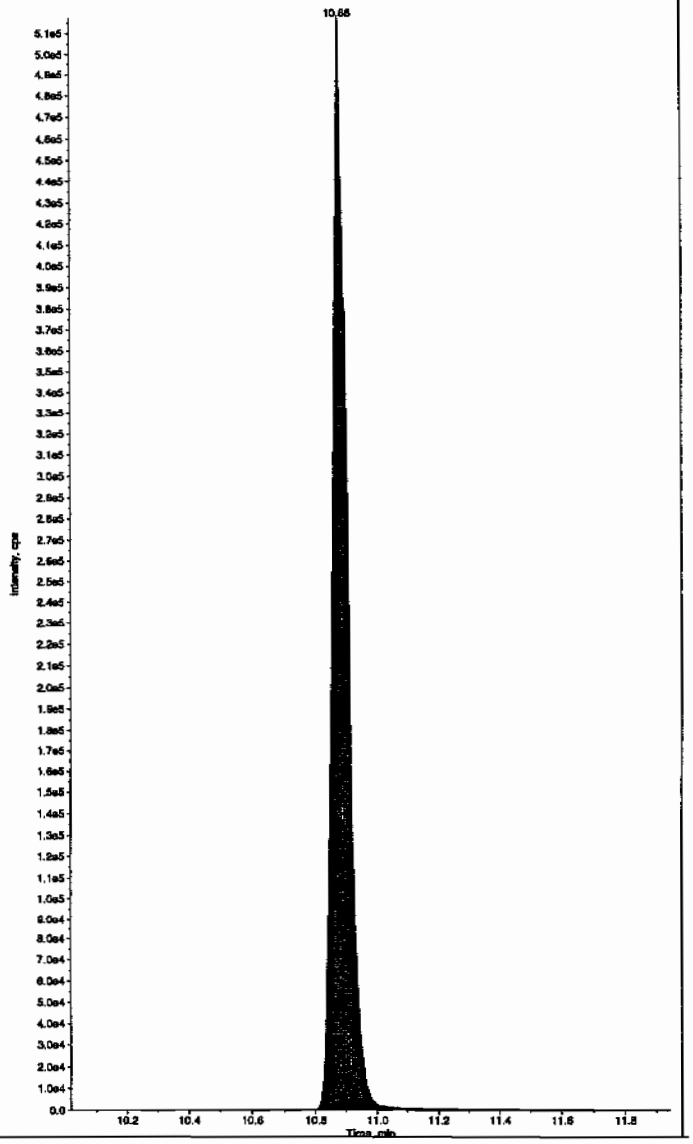


Sample Name: "WXX100227-27CRI" Sample ID: "|1|LER" File: "EXS02260151.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 105. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 6:10:24 AM

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: 1.79e+006 counts
Height: 517056.763 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260162.wiff

Analysis Date: 28-FEB-10 09:03

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	602	120	
2,6-Diamino-4-nitrotoluene	500	565	113	
3,4-Dinitrotoluene	250	219	88	
3,5-Dinitroaniline	500	458	92	
TATB	500	527	105	
tris(o-cresyl) phosphate	500	508	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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

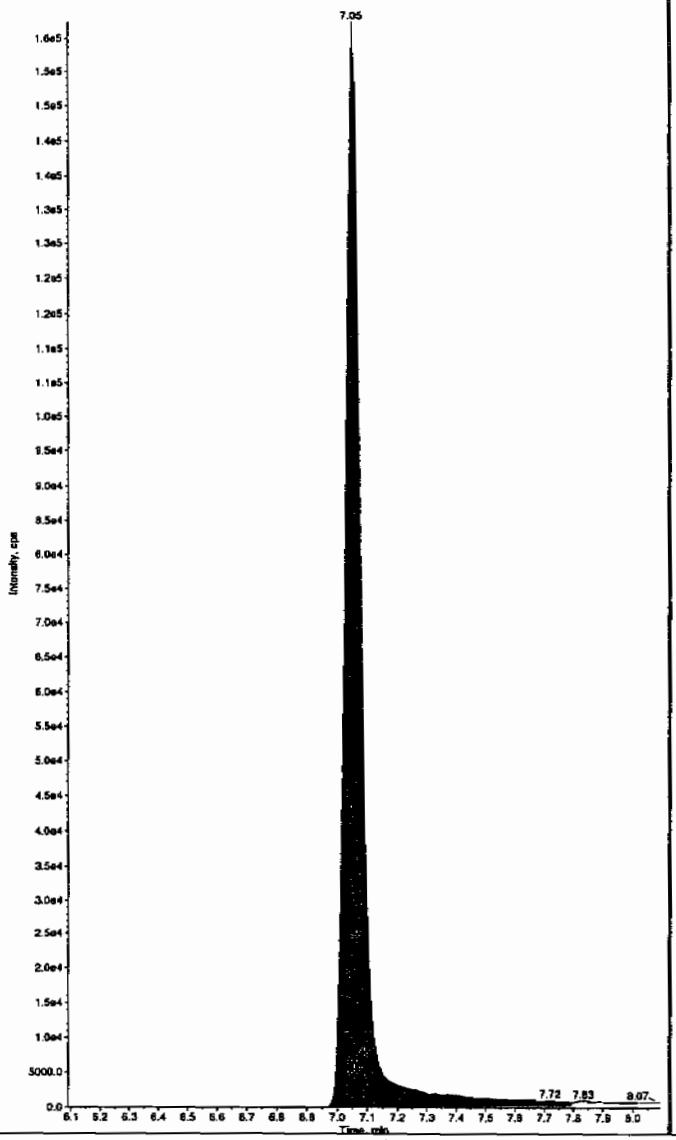
Lcm 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "1|LER" File: "EXS02260162.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 527. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:03:21 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.05 min
Area: 6.25e+005 counts
Height: 157473.022 cps
Start Time: 6.94 min
End Time: 7.79 min

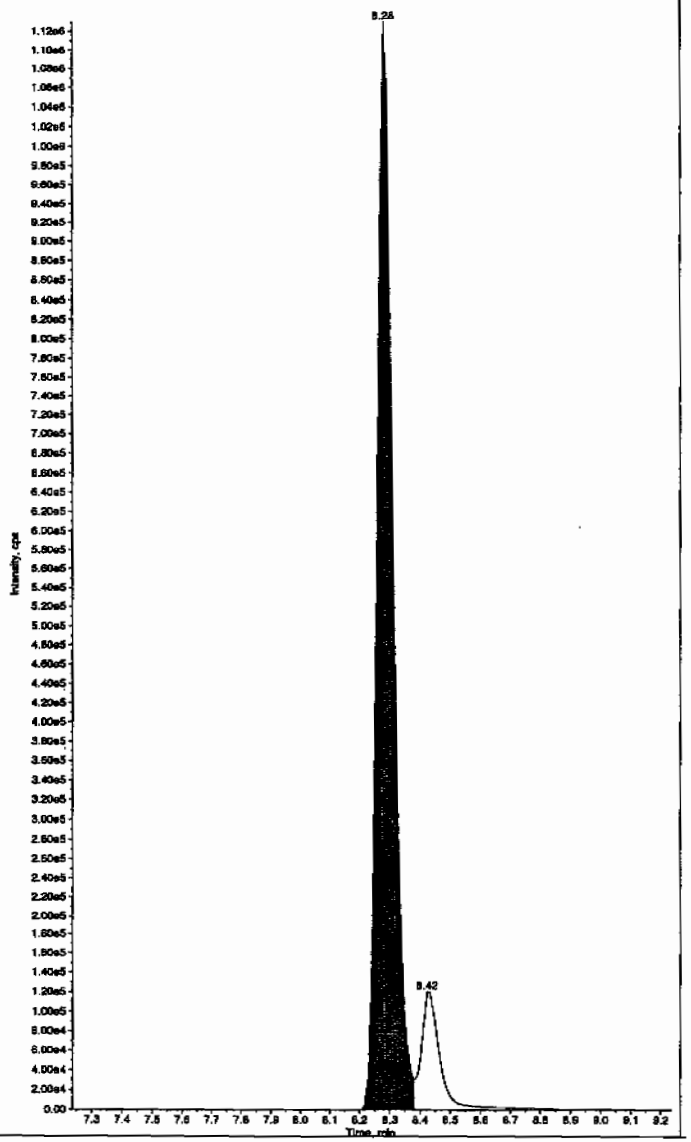


Sample Name: "WXX100227-26CCV" Sample ID: "1|LER" File: "EXS02260162.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 456. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:03:21 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: 8.24 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.28 min
Area: 4.21e+006 counts
Height: 1130258.423 cps
Start Time: 8.20 min
End Time: 8.38 min



HMC 03/01/10

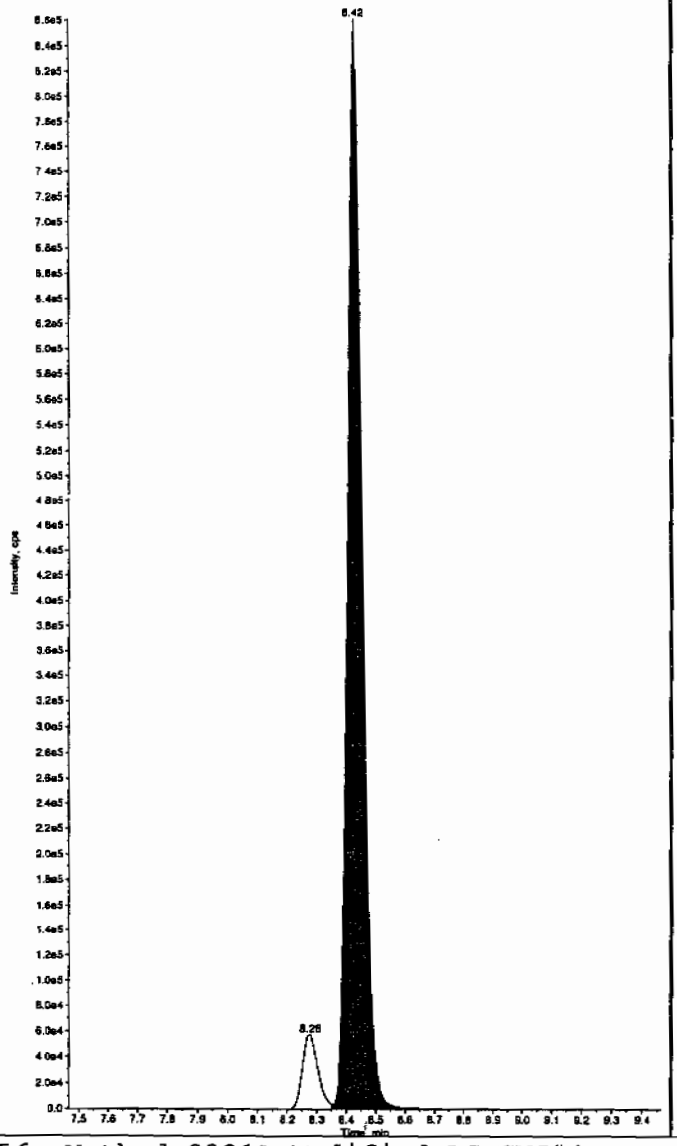
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260162.wiff"
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: 219. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:03:21 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.42 min
Area: 3.03e+006 counts
Height: 860719.055 cps
Start Time: 8.35 min
End Time: 8.76 min

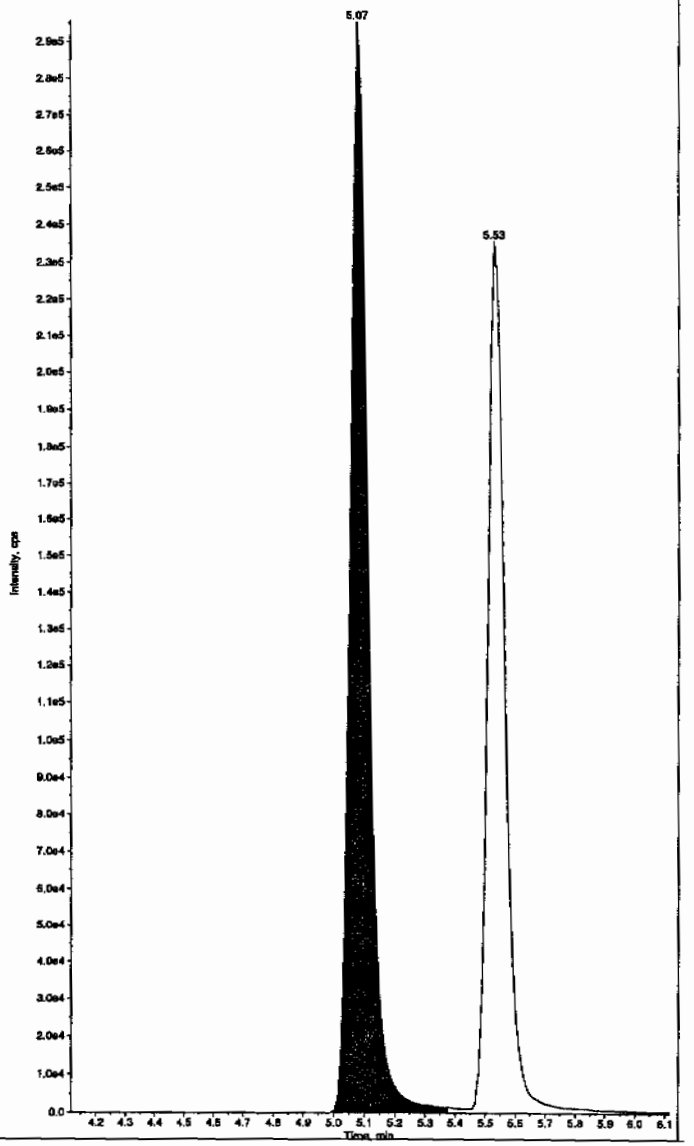


Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260162.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 565. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:03:21 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.07 min
Area: 1.24e+006 counts
Height: 295633.057 cps
Start Time: 4.97 min
End Time: 5.37 min



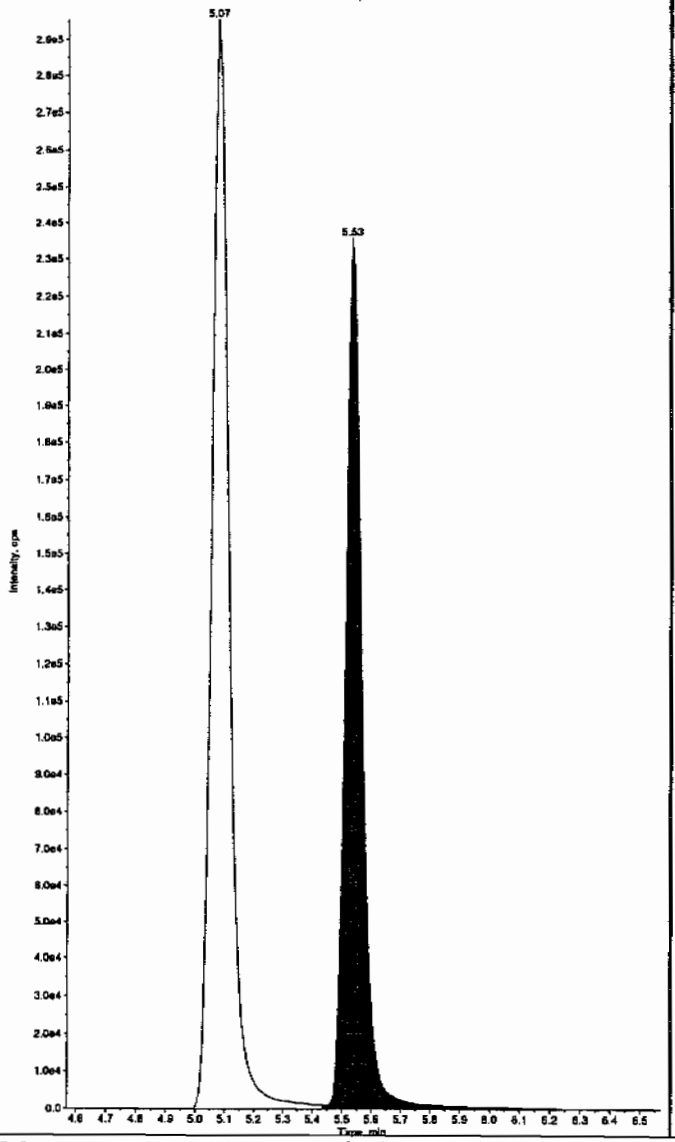
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260162.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 602. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:03:21 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.53 min
Area: 9.64e+005 counts
Height: 235816.010 cps
Start Time: 5.44 min
End Time: 6.15 min

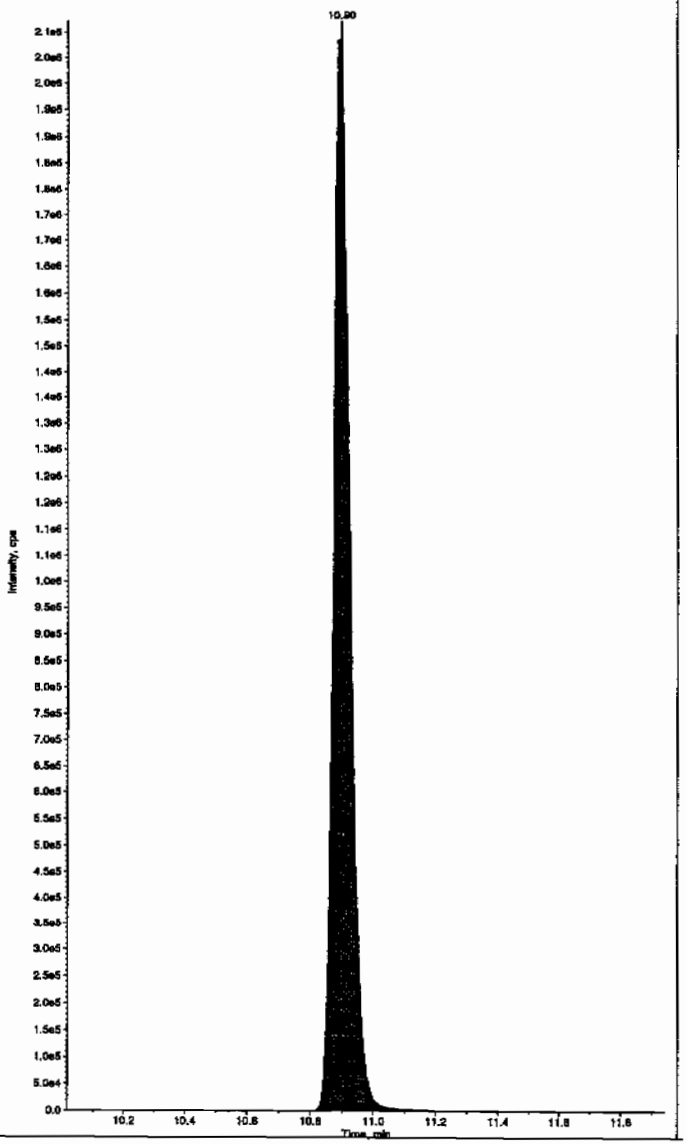


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260162.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 508. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:03:21 AM

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: 7.83e+006 counts
Height: 2073293.457 cps
Start Time: 10.8 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260164.wiff

Analysis Date: 28-FEB-10 09:34

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	120	120	
2,6-Diamino-4-nitrotoluene	100	111	111	
3,4-Dinitrotoluene	50	43.4	87	
3,5-Dinitroaniline	100	88.2	88	
TATB	100	107	107	
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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

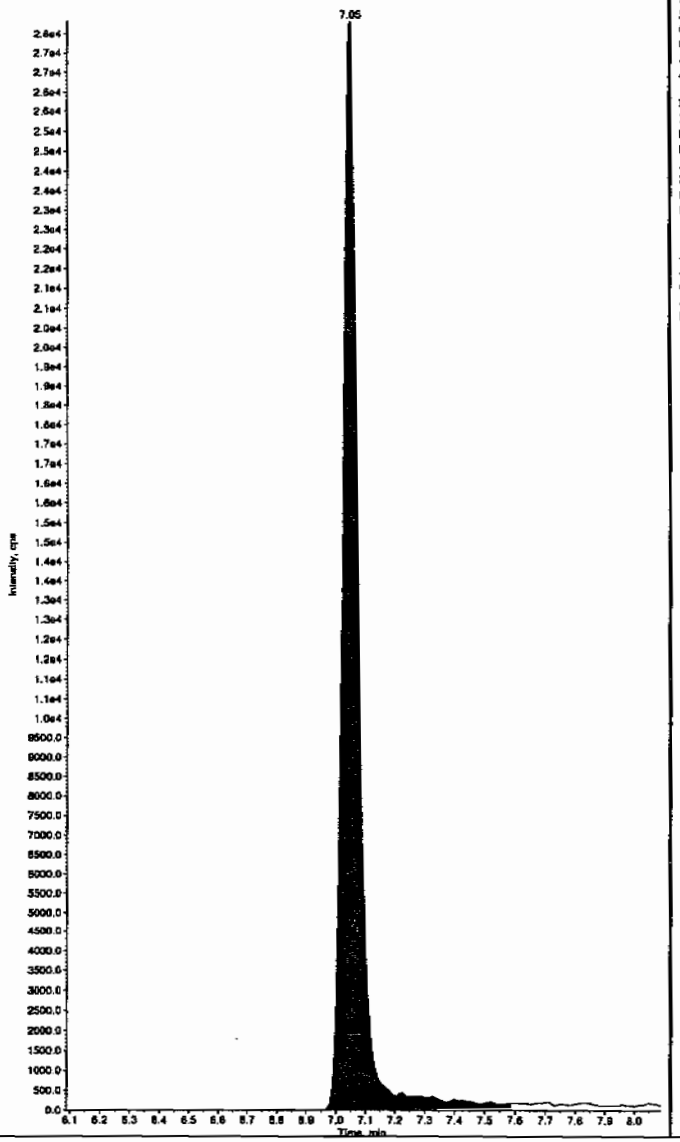
Ken 3/1/10

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260164.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 107. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:34:54 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.05 min
Area: 1.10e+005 counts
Height: 27843.054 cps
Start Time: 6.94 min
End Time: 7.59 min

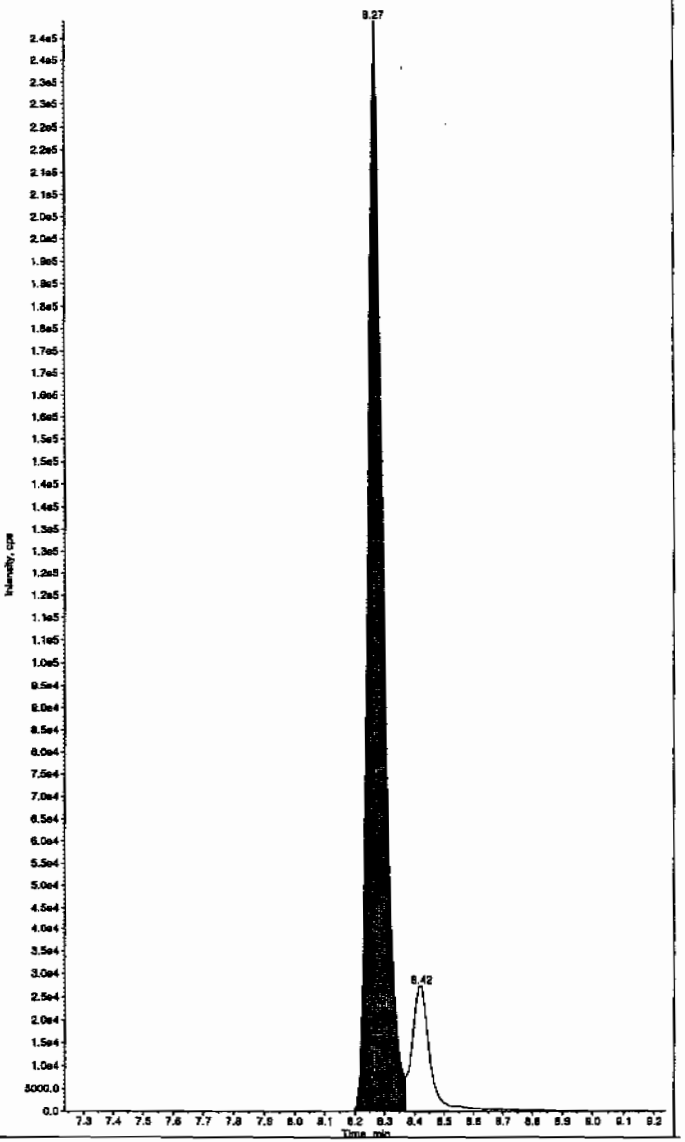


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260164.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 88.2 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:34:54 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: 8.24 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.27 min
Area: 8.91e+005 counts
Height: 244033.020 cps
Start Time: 8.16 min
End Time: 8.37 min



Hmm 03/01/10

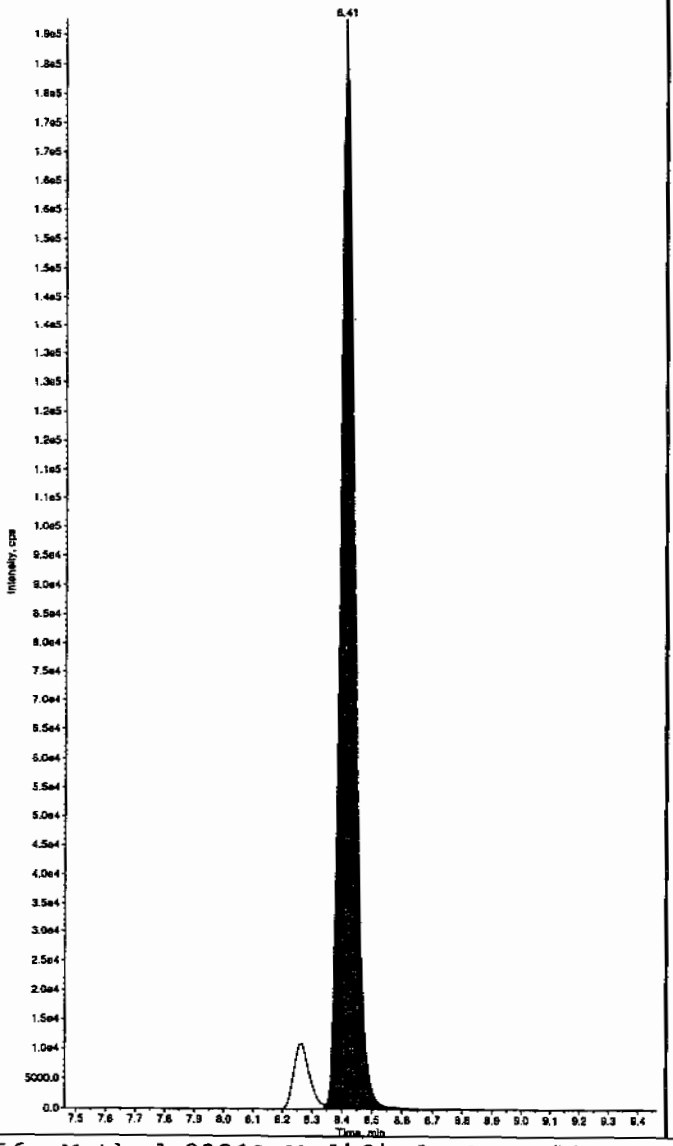
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260164.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 43.4 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:34:54 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.41 min
Area: 6.28e+005 counts
Height: 187757.828 cps
Start Time: 8.34 min
End Time: 8.69 min

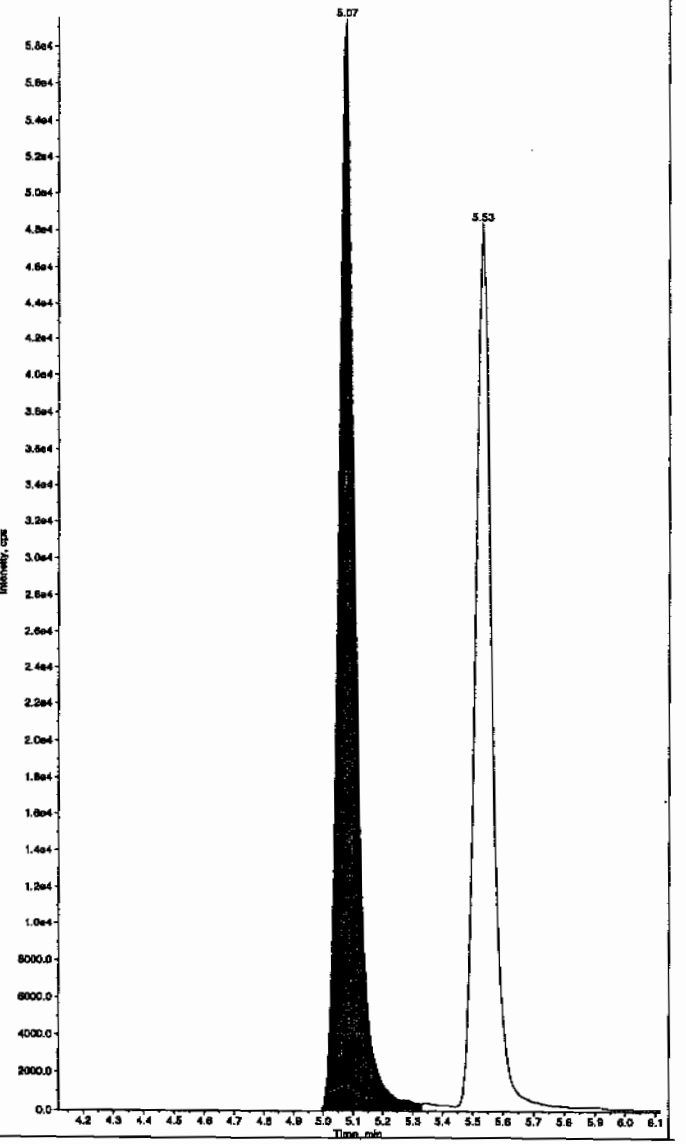


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260164.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 111. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:34:54 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.07 min
Area: 2.43e+005 counts
Height: 59540.478 cps
Start Time: 4.98 min
End Time: 5.33 min



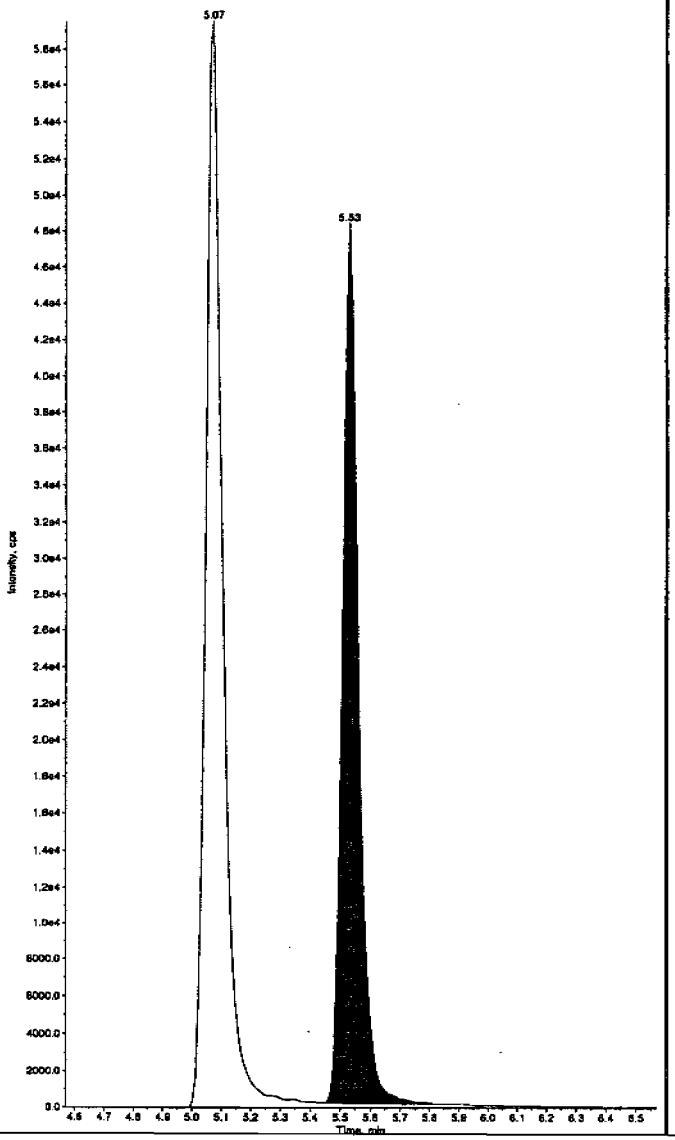
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1][LER" File: "EXS02260164.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 120. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:34:54 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.53 min
Area: 1.23e+005 counts
Height: 48197.281 cps
Start Time: 5.45 min
End Time: 5.85 min

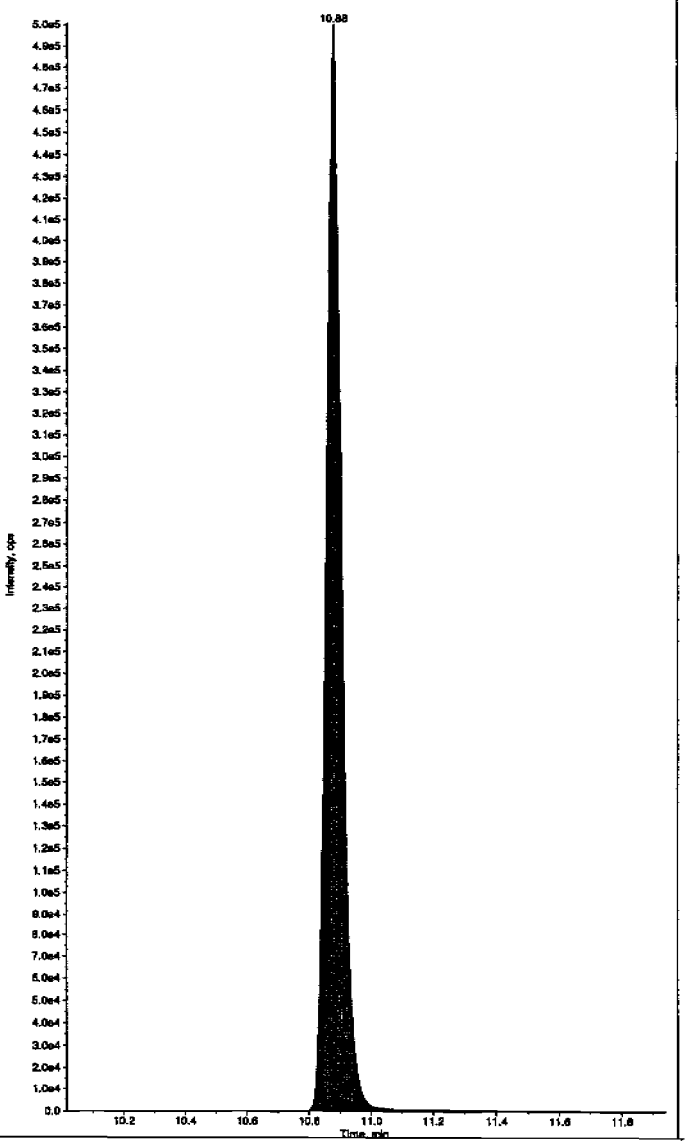


Sample Name: "WXX100227-27CRI" Sample ID: "[1][LER" File: "EXS02260164.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 103. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 9:34:54 AM

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: 1.77e+006 counts
Height: 500522.827 cps
Start Time: 10.6 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260174.wiff

Analysis Date: 28-FEB-10 12:12

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TATB	500	536	107	
tris(o-cresyl) phosphate	500	507	101	
2,4-Diamino-6-nitrotoluene	500	596	119	
2,6-Diamino-4-nitrotoluene	500	605	121	
3,4-Dinitrotoluene	250	225	90	
3,5-Dinitroaniline	500	481	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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

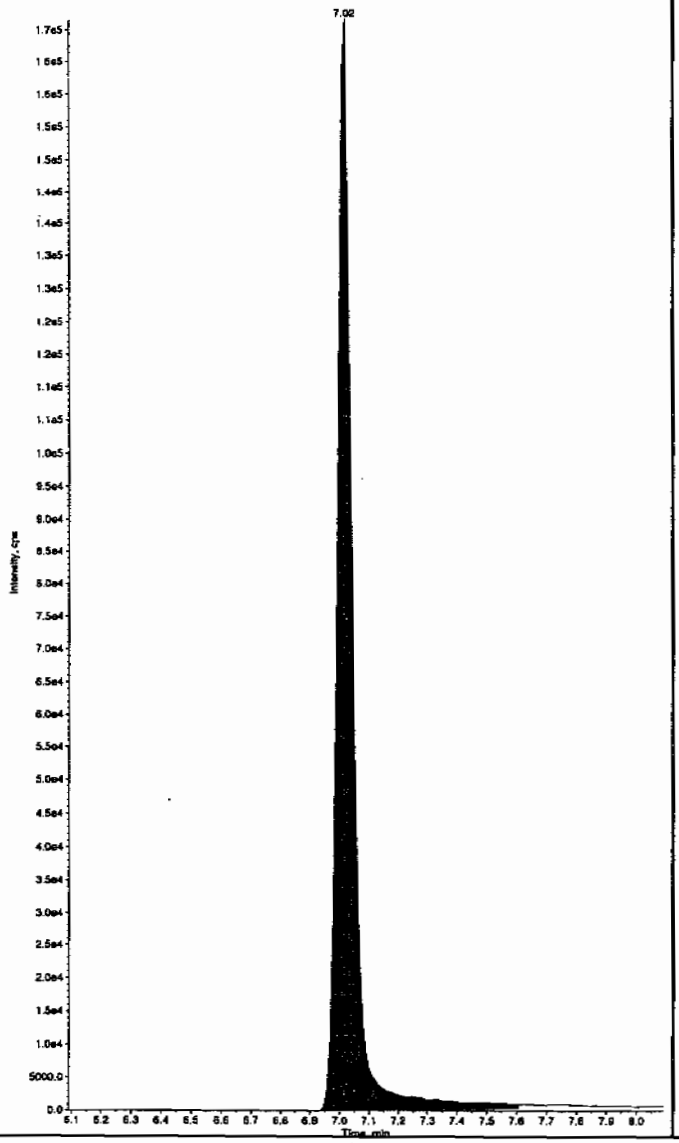
Before Scan 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260174.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 536. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:12:12 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.02 min
Area: 6.37e+005 counts
Height: 166556.152 cps
Start Time: 6.91 min
End Time: 7.61 min

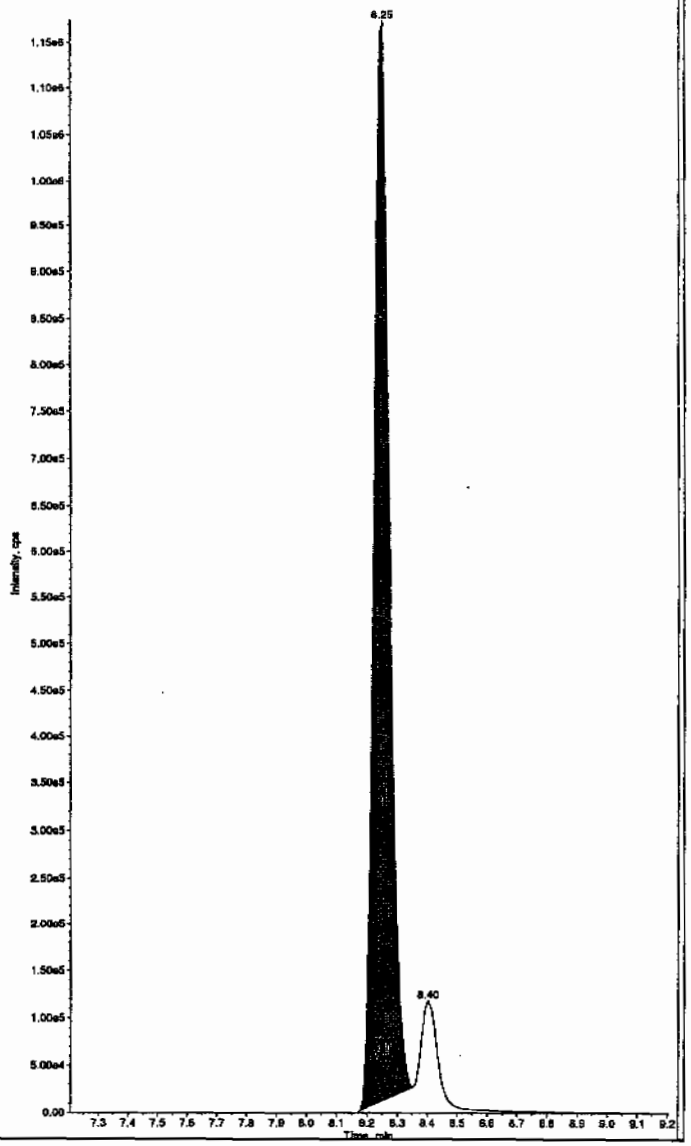


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260174.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 466. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:12:12 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: 8.21 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.25 min
Area: 4.28e+006 counts
Height: 1162888.916 cps
Start Time: 8.17 min
End Time: 8.35 min



dhmc 03/01/10

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

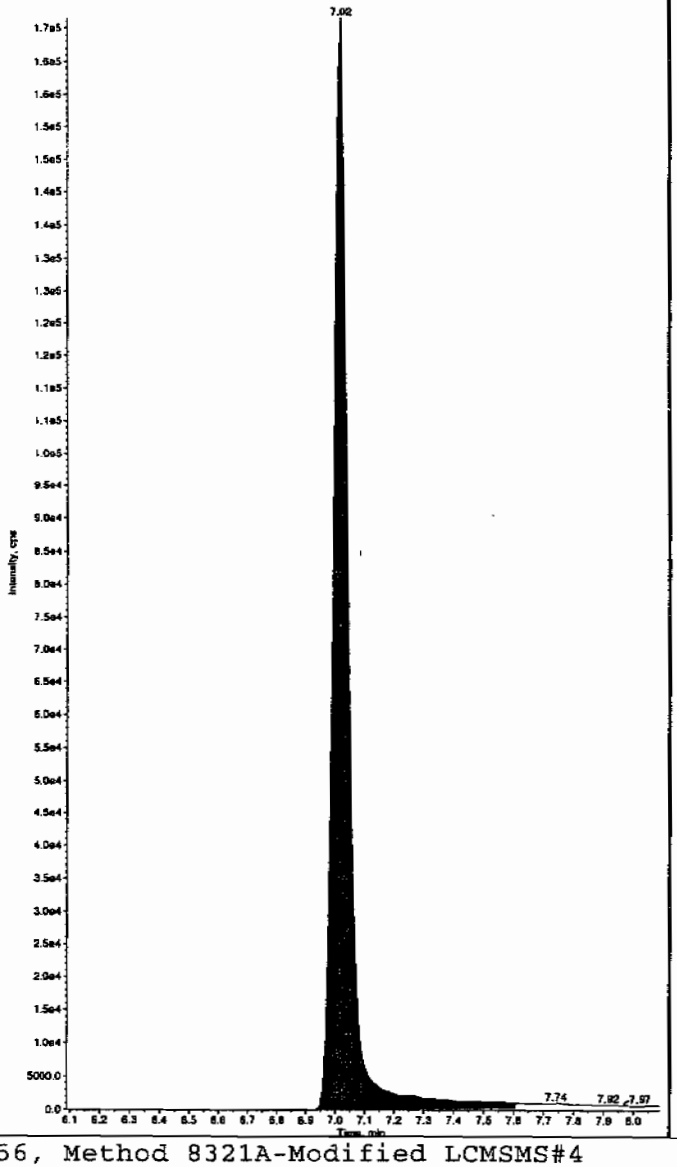
after Jan 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260174.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 536. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:12:12 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.02 min
Area: 6.37e+005 counts
Height: 166556.152 cps
Start Time: 6.91 min
End Time: 7.61 min

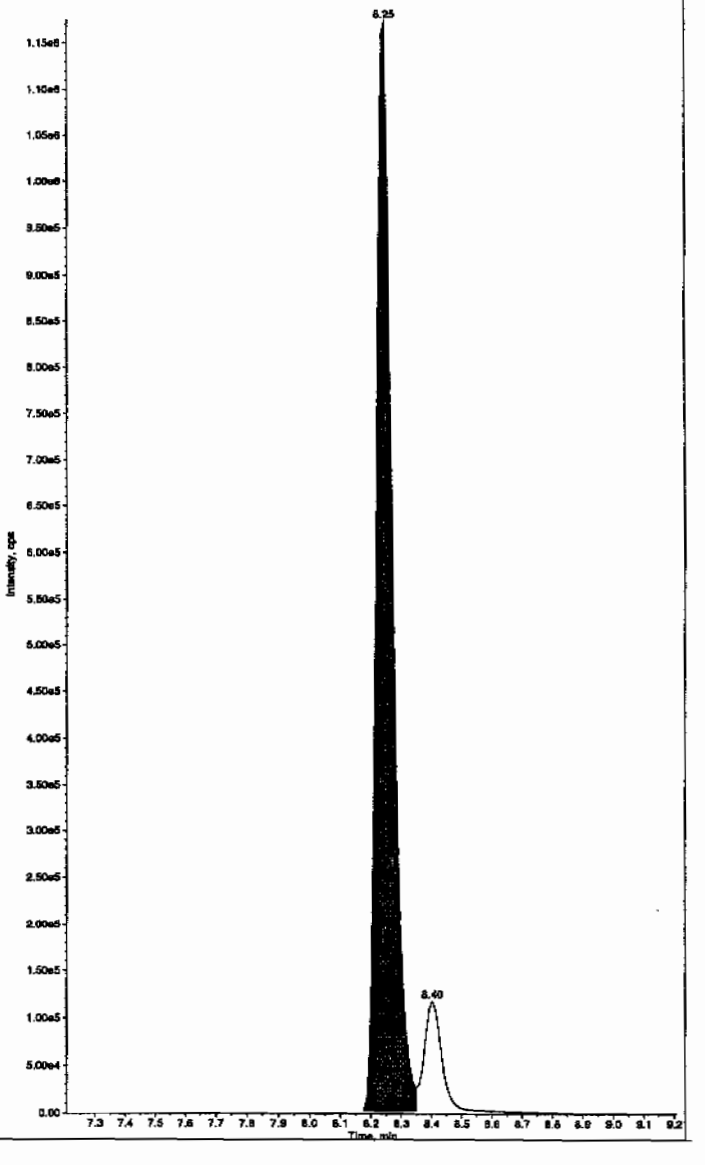


Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260174.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 481. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:12:12 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.21 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.24 min
Area: 4.41e+006 counts
Height: 1191453.101 cps
Start Time: 8.17 min
End Time: 8.35 min



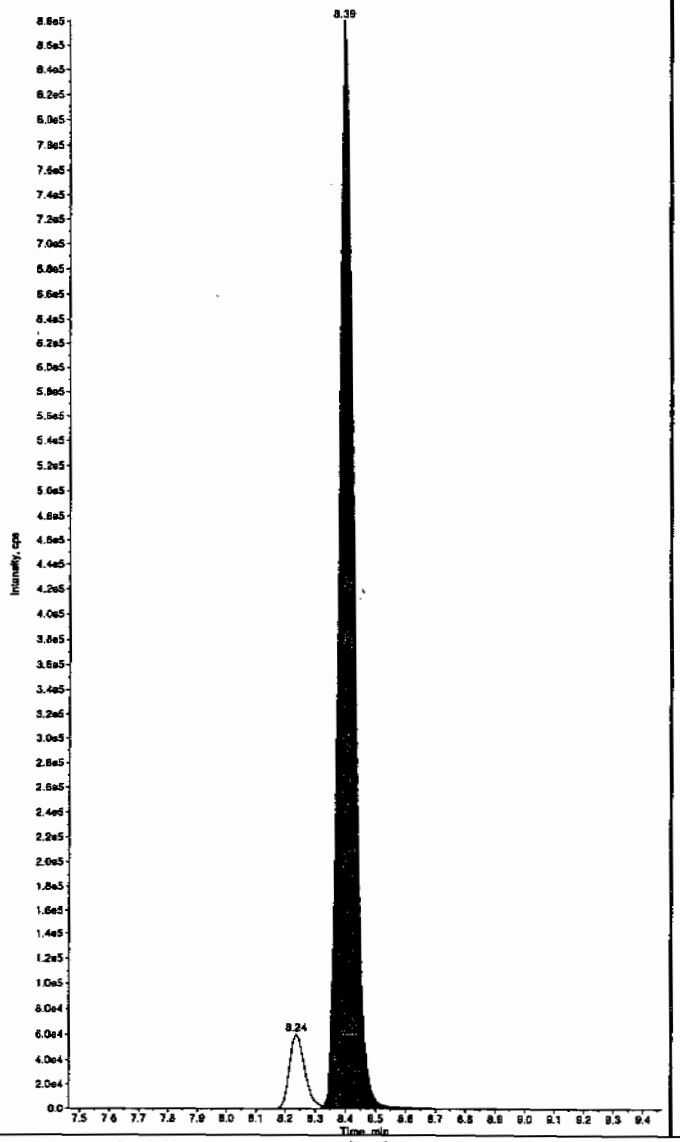
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260174.wiff"
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: 225. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:12:12 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.39 min
Area: 3.11e+006 counts
Height: 881395.630 cps
Start Time: 8.32 min
End Time: 8.73 min

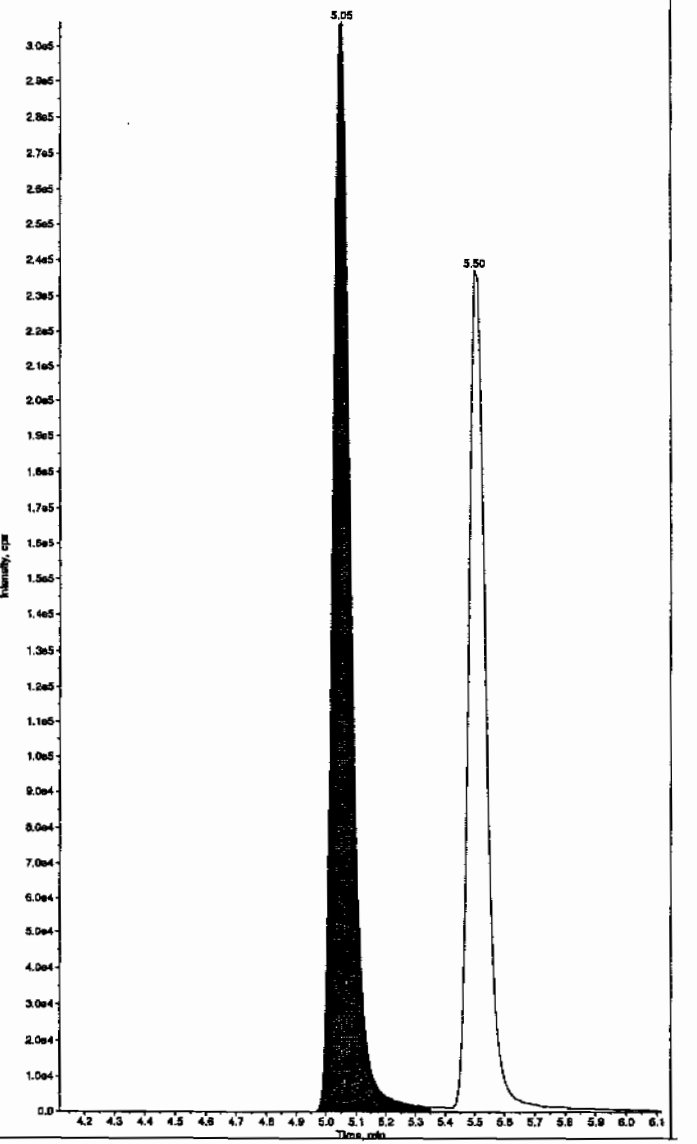


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260174.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 605. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:12:12 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.05 min
Area: 1.33e+006 counts
Height: 306995.605 cps
Start Time: 4.95 min
End Time: 5.35 min



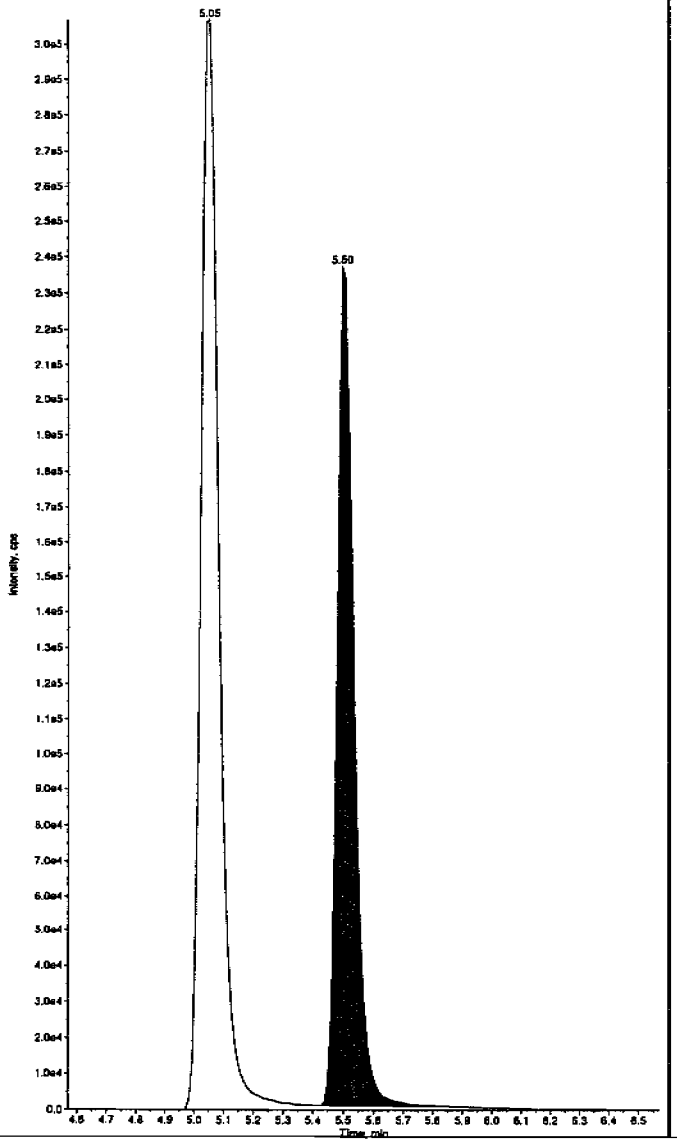
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260174.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 596. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:12:12 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.50 min
Area: 9.53e+005 counts
Height: 236259.781 cps
Start Time: 5.42 min
End Time: 5.84 min

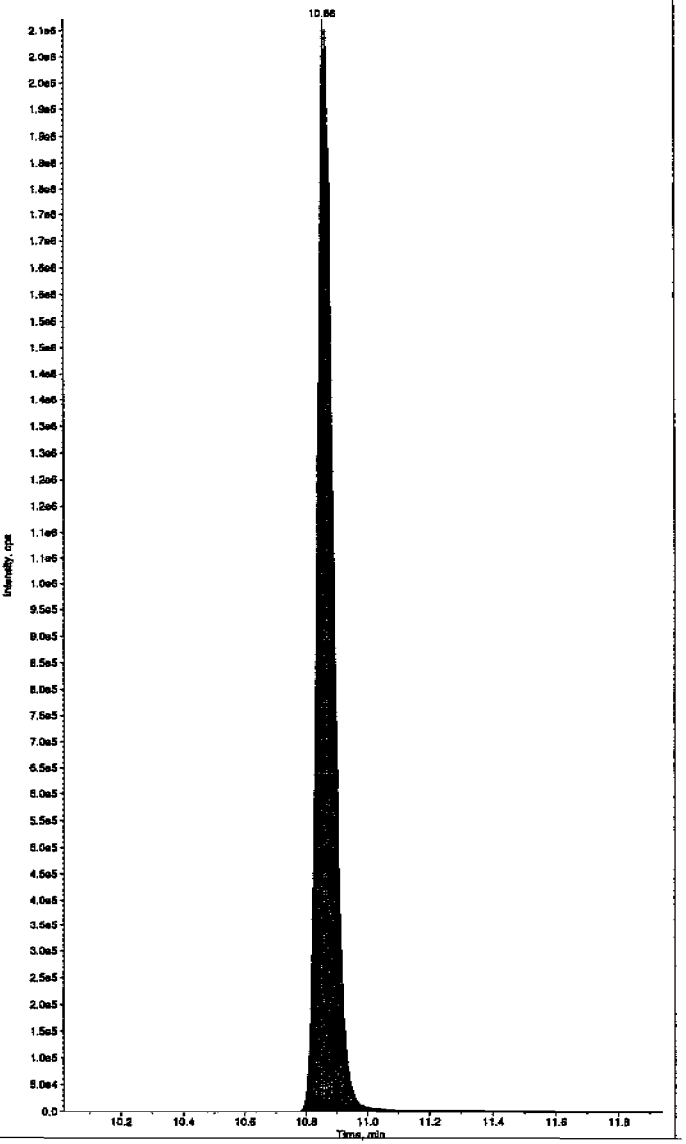


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260174.wiff"
Peak Name: "Tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 507. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:12:12 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: 7.82e+006 counts
Height: 2072161.621 cps
Start Time: 10.7 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260176.wiff

Analysis Date: 28-FEB-10 12:43

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	129	129	
2,6-Diamino-4-nitrotoluene	100	125	125	
3,4-Dinitrotoluene	50	43.6	87	
3,5-Dinitroaniline	100	90.6	91	
TATB	100	108	108	
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%
OtherTarget Analytes 70--130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

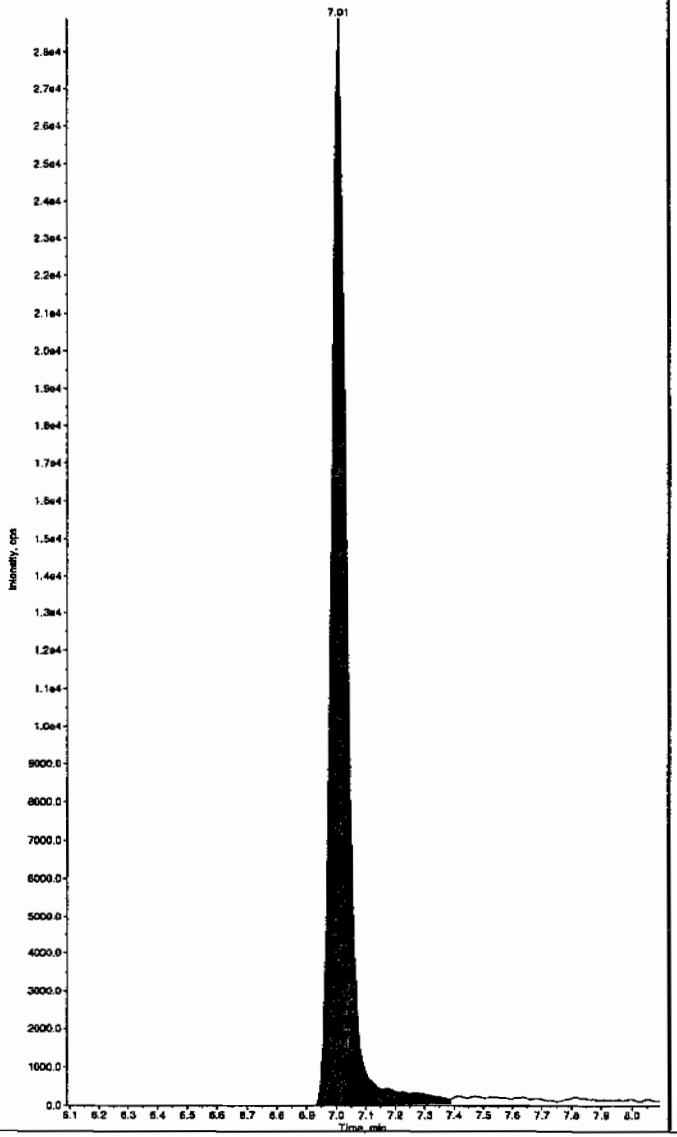
Ekr 3/1/10

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260176.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 108. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:43:45 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.01 min
Area: 1.12e+005 counts
Height: 28893.517 cps
Start Time: 6.91 min
End Time: 7.39 min

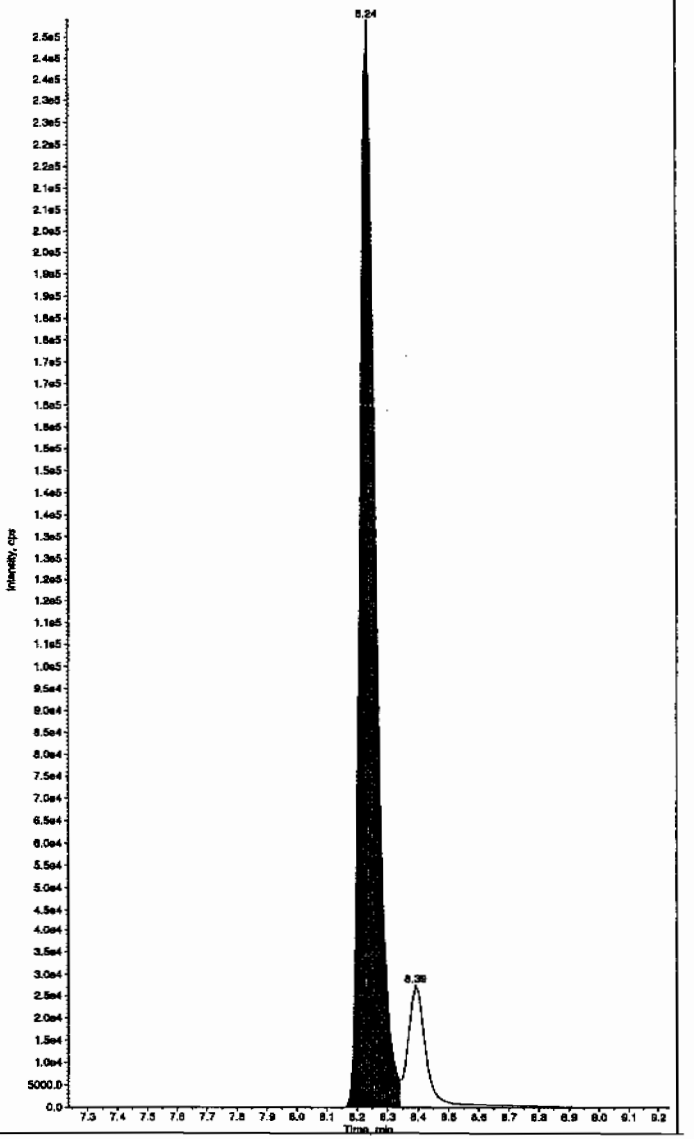


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260176.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 90.6 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:43:45 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: 8.24 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.24 min
Area: 9.14e+005 counts
Height: 249275.177 cps
Start Time: 8.14 min
End Time: 8.34 min



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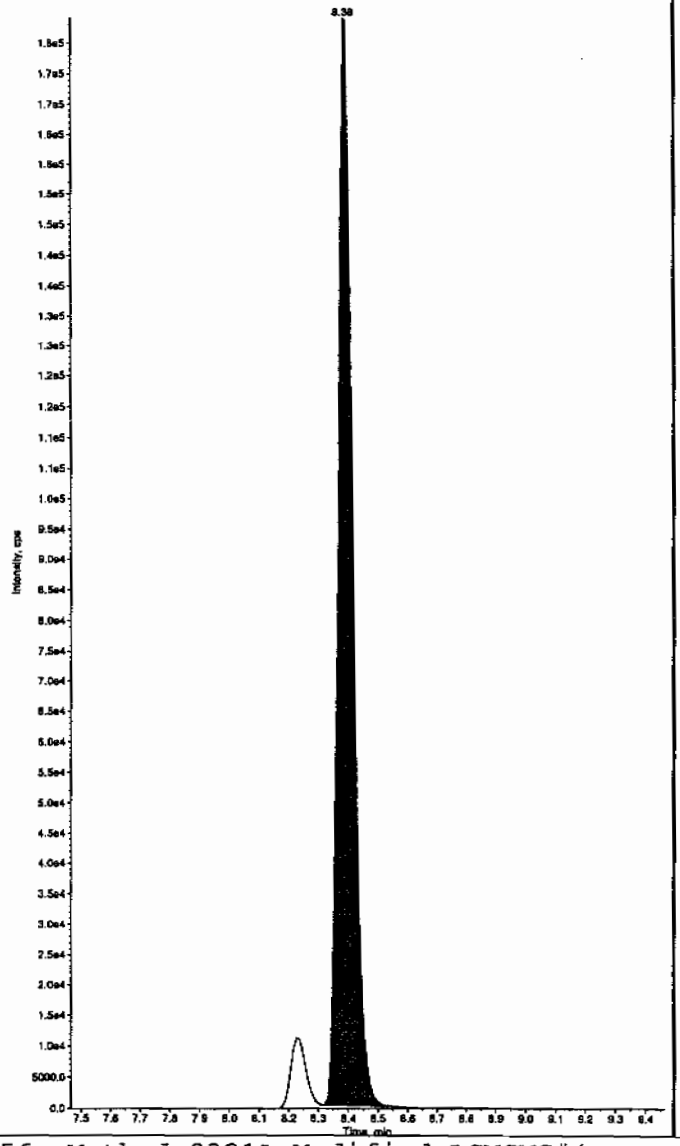
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "1|LER" File: "EXS02260176.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 43.6 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:43:45 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.38 min
Area: 6.30e+005 counts
Height: 178744.003 cps
Start Time: 8.32 min
End Time: 8.61 min

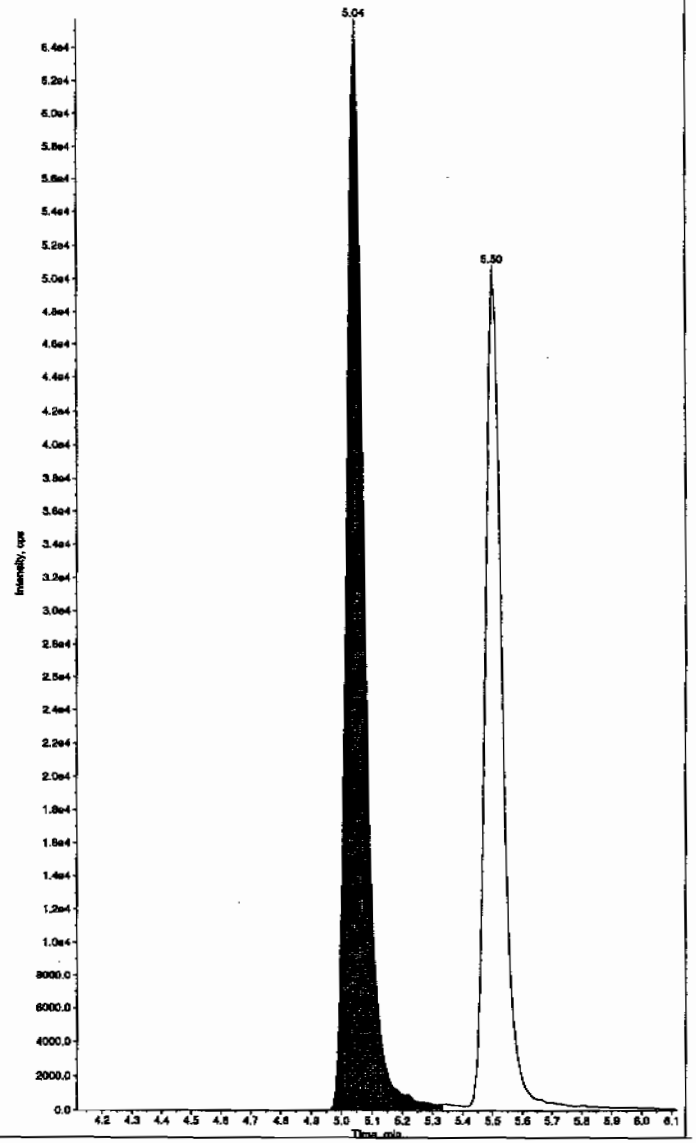


Sample Name: "WXX100227-27CRI" Sample ID: "1|LER" File: "EXS02260176.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 125. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:43:45 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.04 min
Area: 2.74e+005 counts
Height: 65694.351 cps
Start Time: 4.92 min
End Time: 5.33 min



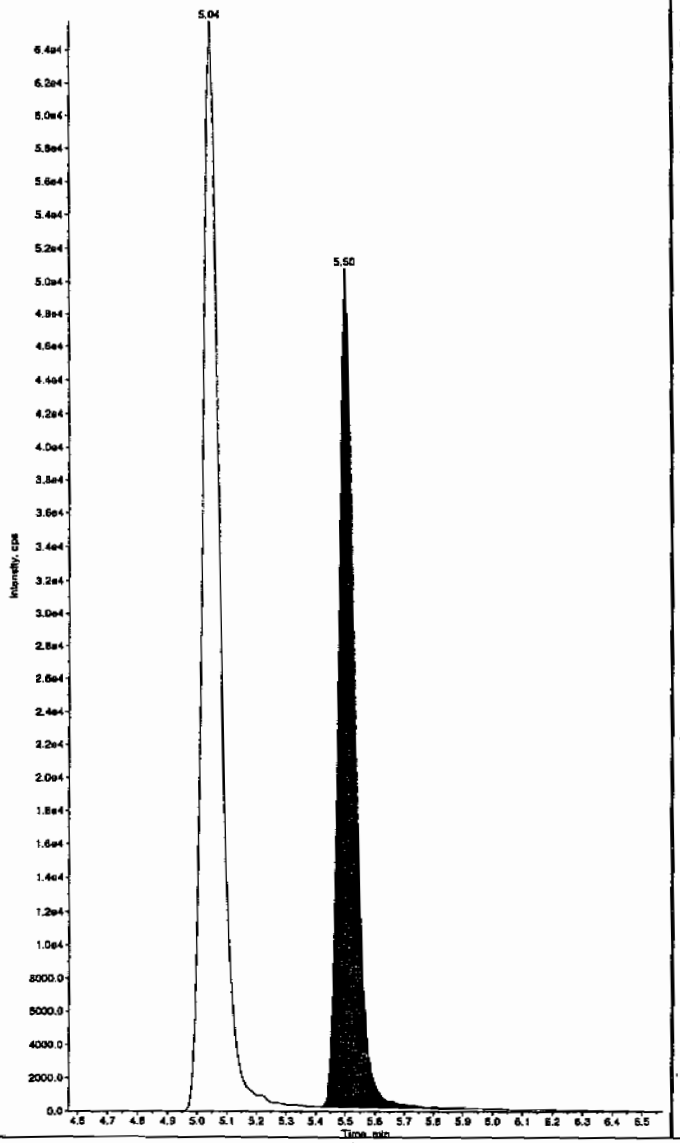
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260176.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 129. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:43:45 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.50 min
Area: 1.98e+005 counts
Height: 50547.726 cps
Start Time: 5.42 min
End Time: 5.87 min

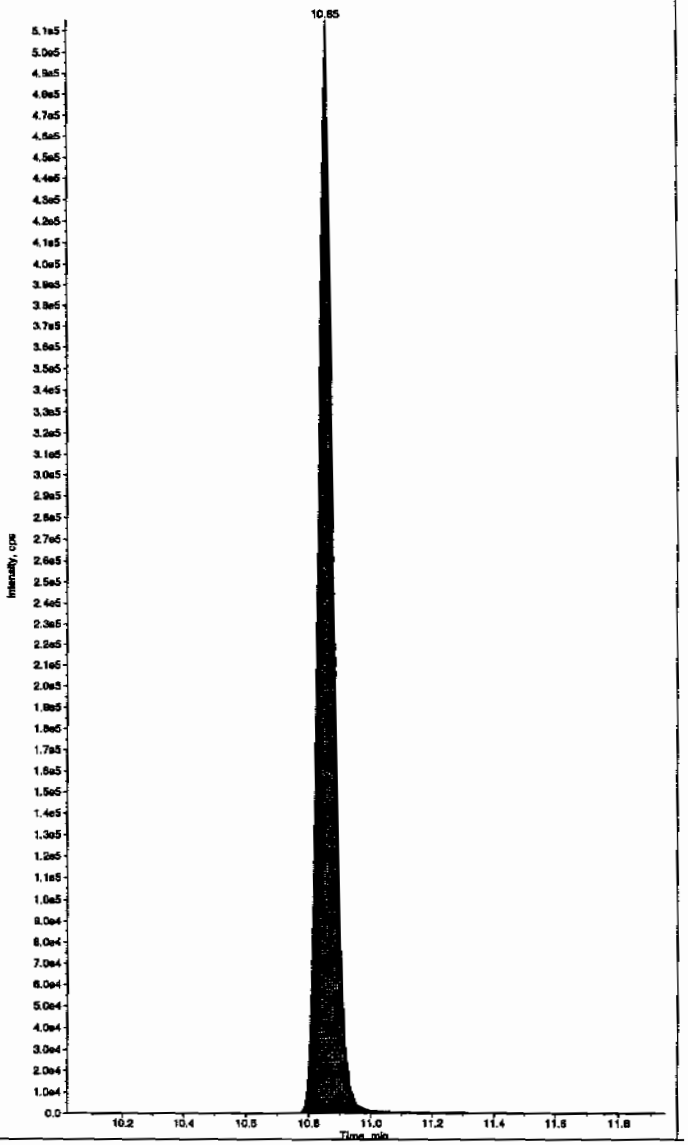


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260176.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 104. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 12:43:45 PM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 6000.00 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: 1.78e+006 counts
Height: 514713.623 cps
Start Time: 10.7 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260187.wiff

Analysis Date: 28-FEB-10 15:36

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	549	110	
2,6-Diamino-4-nitrotoluene	500	567	113	
3,4-Dinitrotoluene	250	230	92	
3,5-Dinitroaniline	500	473	95	
TATB	500	532	106	
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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

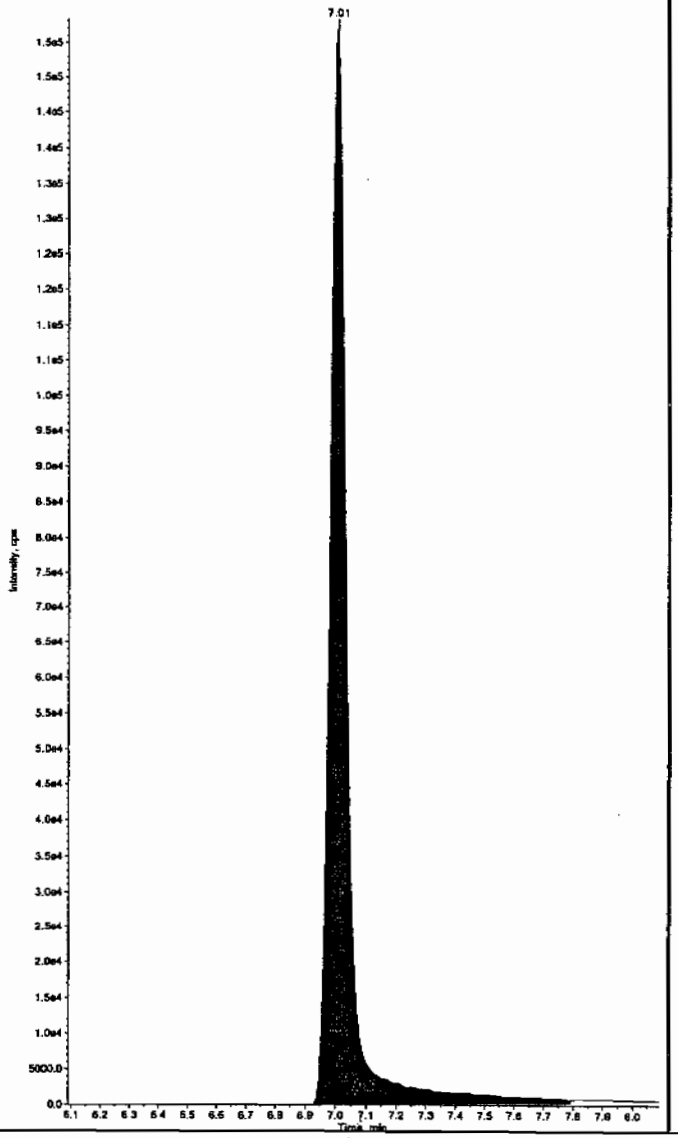
Before 3/1/10 Jan 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260187.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 532. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:36:42 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.01 min
Area: 6.32e+005 counts
Height: 153323.456 cps
Start Time: 6.91 min
End Time: 7.79 min

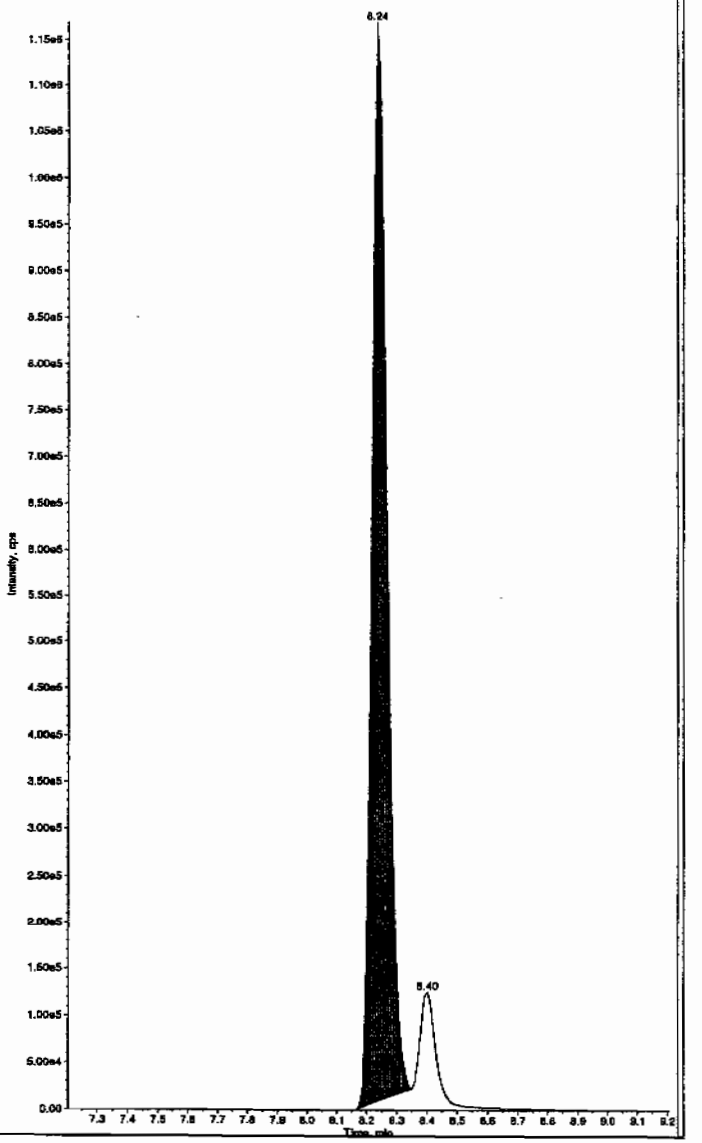


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260187.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 461. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:36:42 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: 8.21 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.24 min
Area: 4.24e+006 counts
Height: 1159095.215 cps
Start Time: 8.16 min
End Time: 8.35 min



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

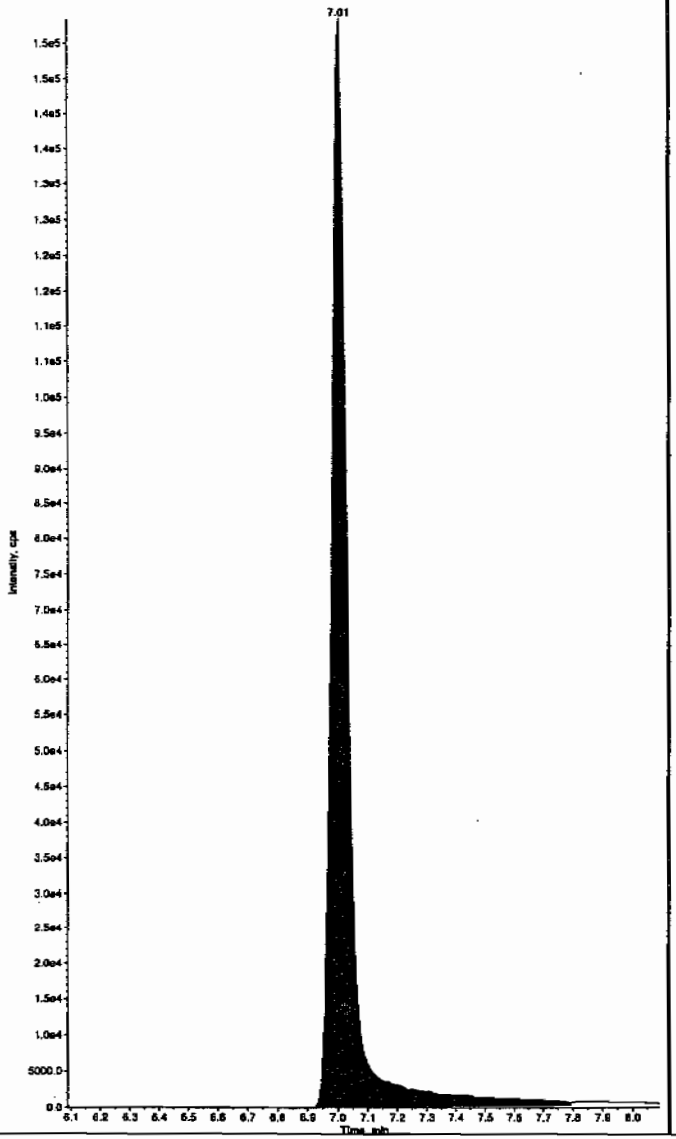
after Ran 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260187.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 532. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:36:42 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.01 min
Area: 6.32e+005 counts
Height: 153323.456 cps
Start Time: 6.91 min
End Time: 7.79 min

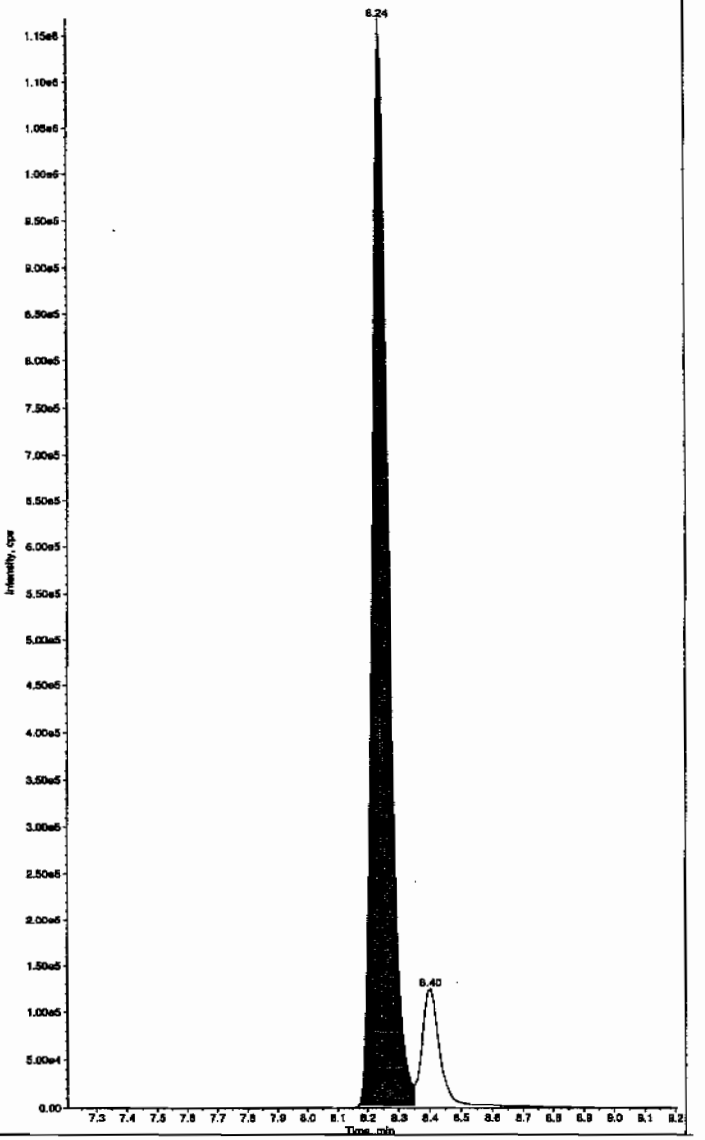


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260187.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 473. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:36:42 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.21 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.24 min
Area: 4.34e+006 counts
Height: 1173589.152 cps
Start Time: 8.17 min
End Time: 8.35 min



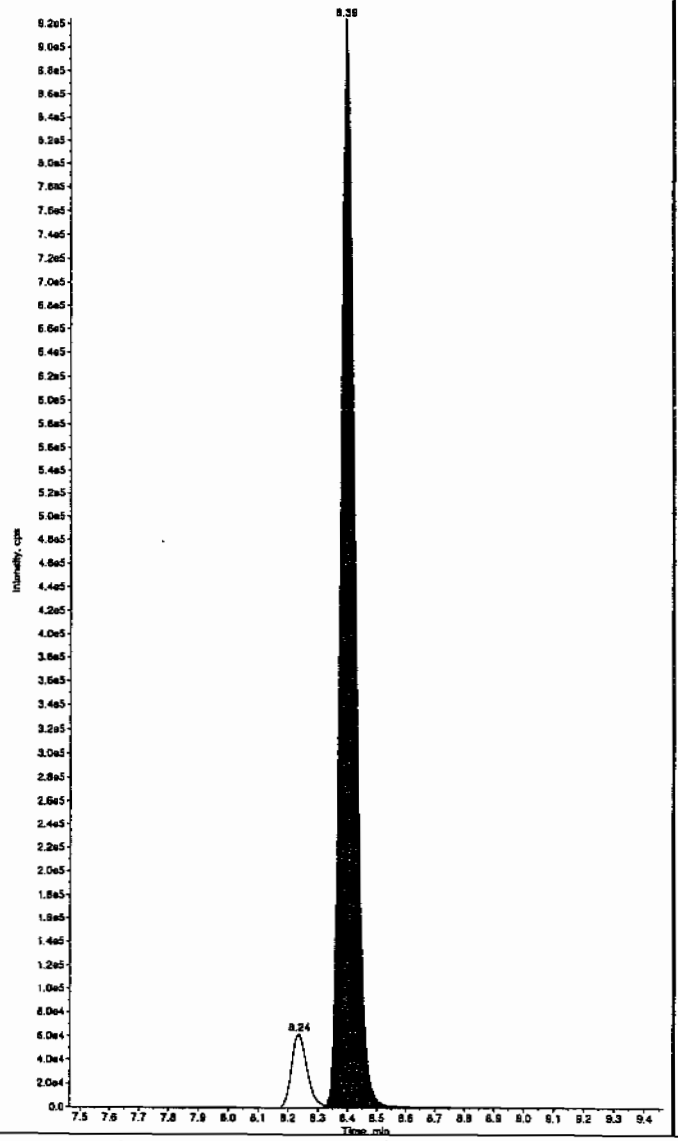
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260187.wiff"
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: 230. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:36:42 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.39 min
Area: 3.17e+006 counts
Height: 924178.589 cps
Start Time: 8.32 min
End Time: 8.69 min

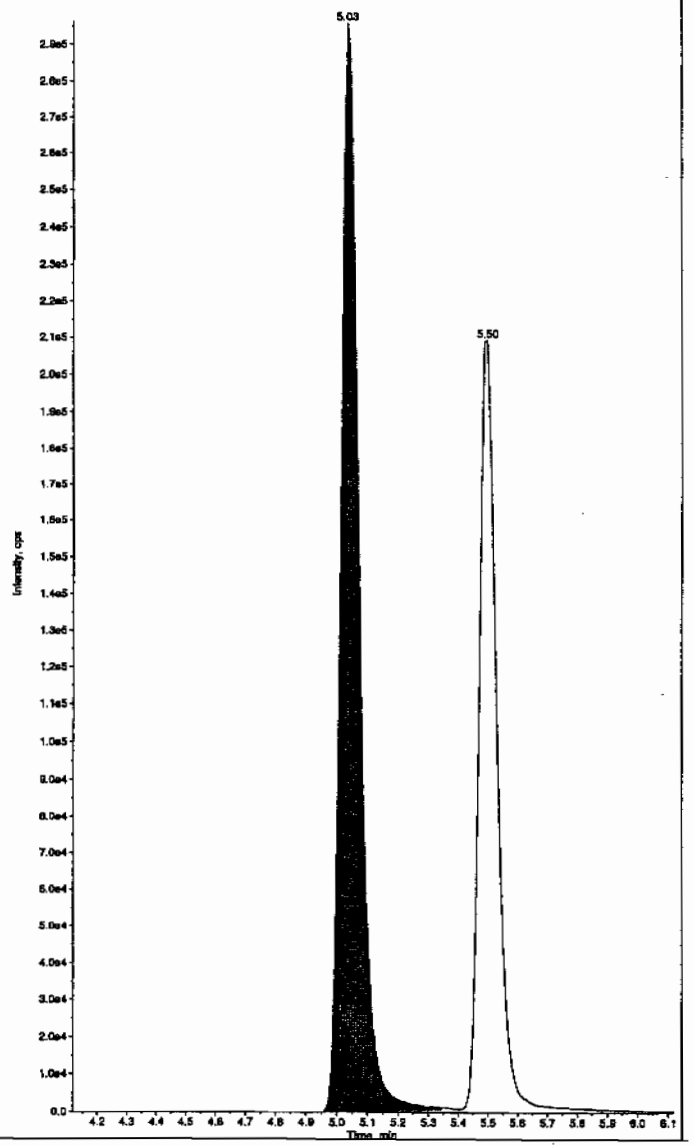


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260187.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 567. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:36:42 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.03 min
Area: 1.25e+006 counts
Height: 296239.258 cps
Start Time: 4.94 min
End Time: 5.34 min



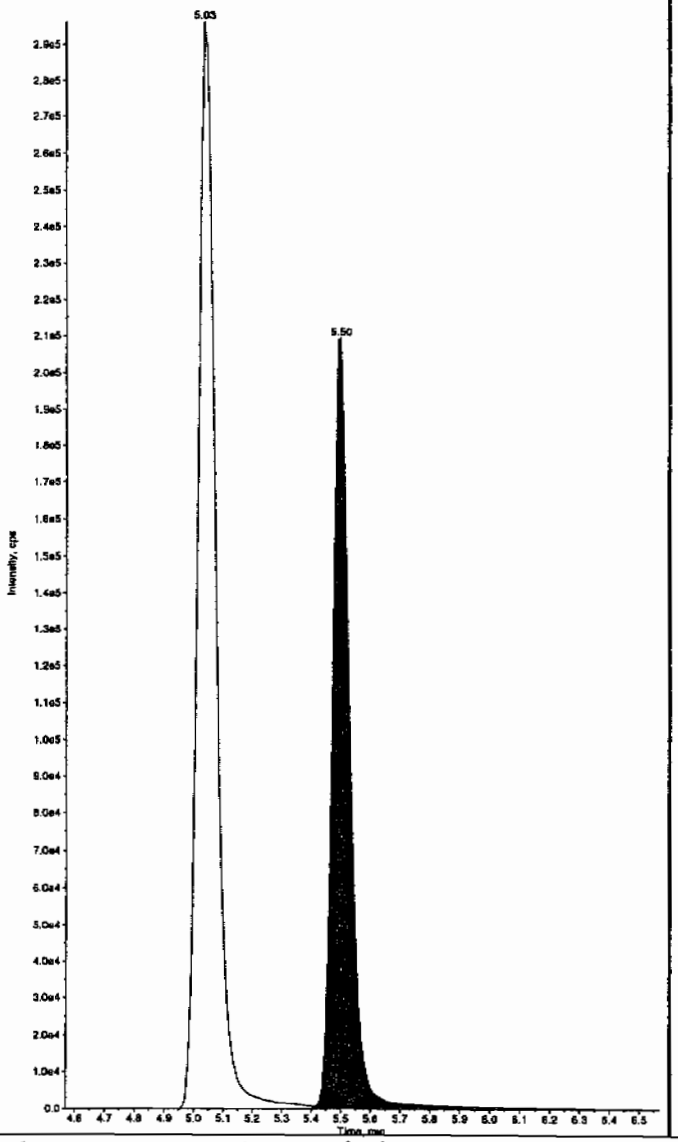
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260187.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 549. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:36:42 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.50 min
Area: 8.78e+005 counts
Height: 209454.086 cps
Start Time: 5.41 min
End Time: 5.98 min

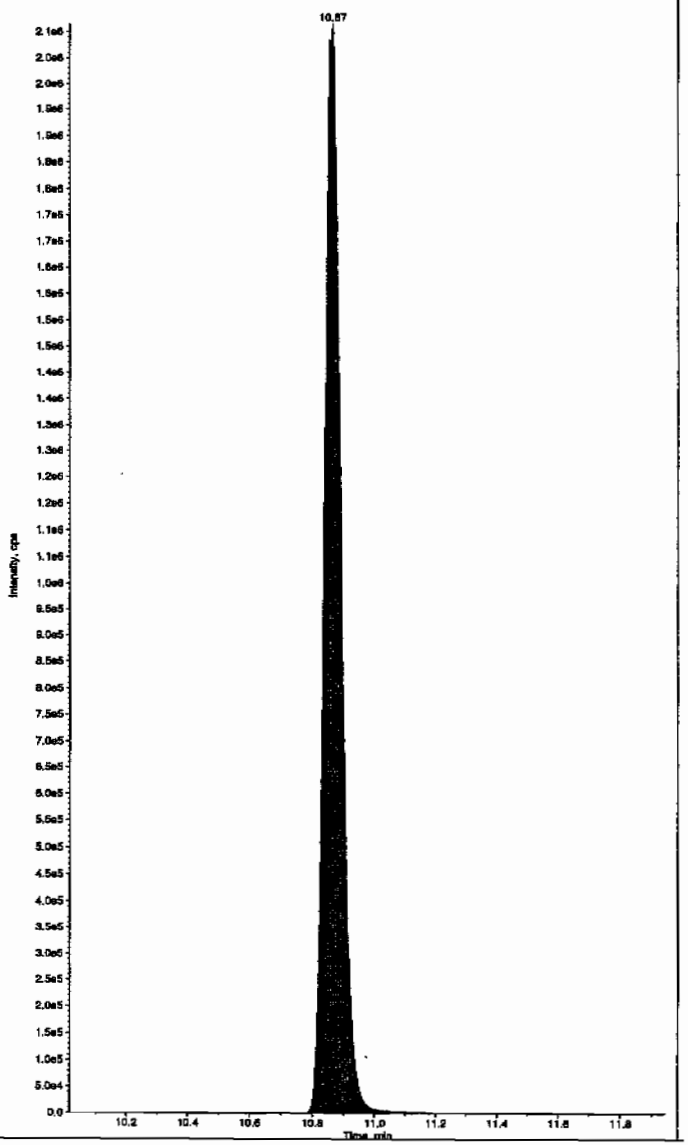


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260187.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 507. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 3:36:42 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: 7.82e+006 counts
Height: 2065305.420 cps
Start Time: 10.8 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260189.wiff

Analysis Date: 28-FEB-10 16:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	126	126	
2,6-Diamino-4-nitrotoluene	100	120	120	
3,4-Dinitrotoluene	50	46.6	93	
3,5-Dinitroaniline	100	93.7	94	
TATB	100	113	113	
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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

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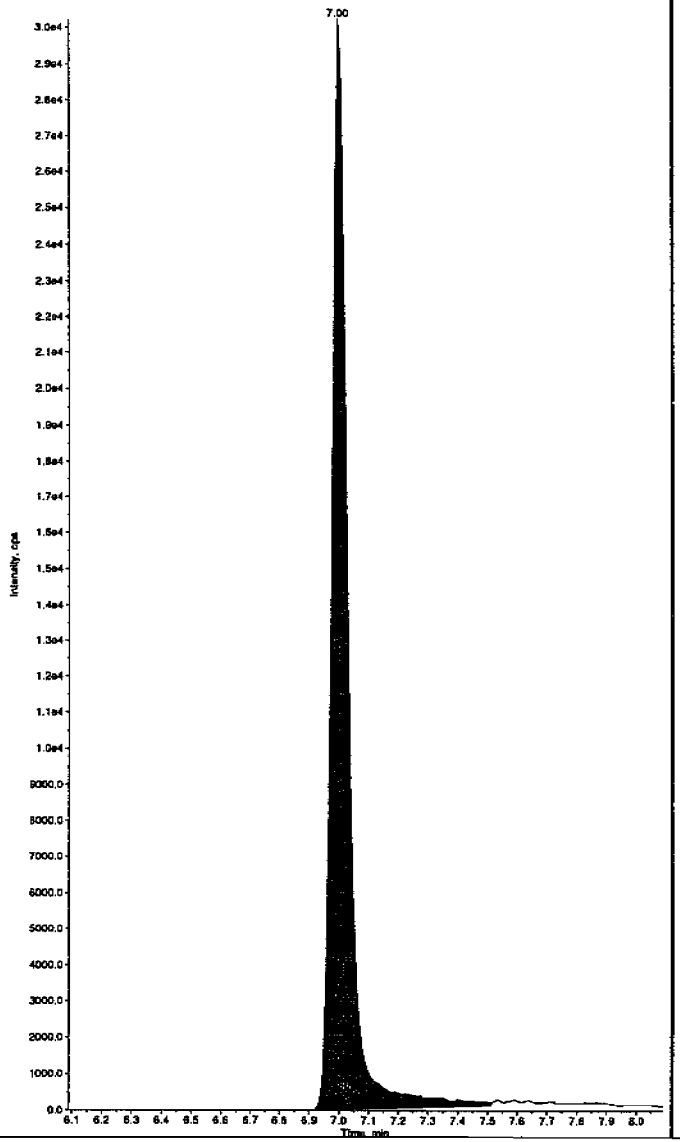
Sample Name: "WXX100227-27CRI" Sample ID: "|1|LER" File: "EXS02260189.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: "*"

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 113. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 4:08:16 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: 30.0 sec
Expected RT: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.00 min
Area: 1.18e+005 counts
Height: 30206.812 cps
Start Time: 6.90 min
End Time: 7.51 min

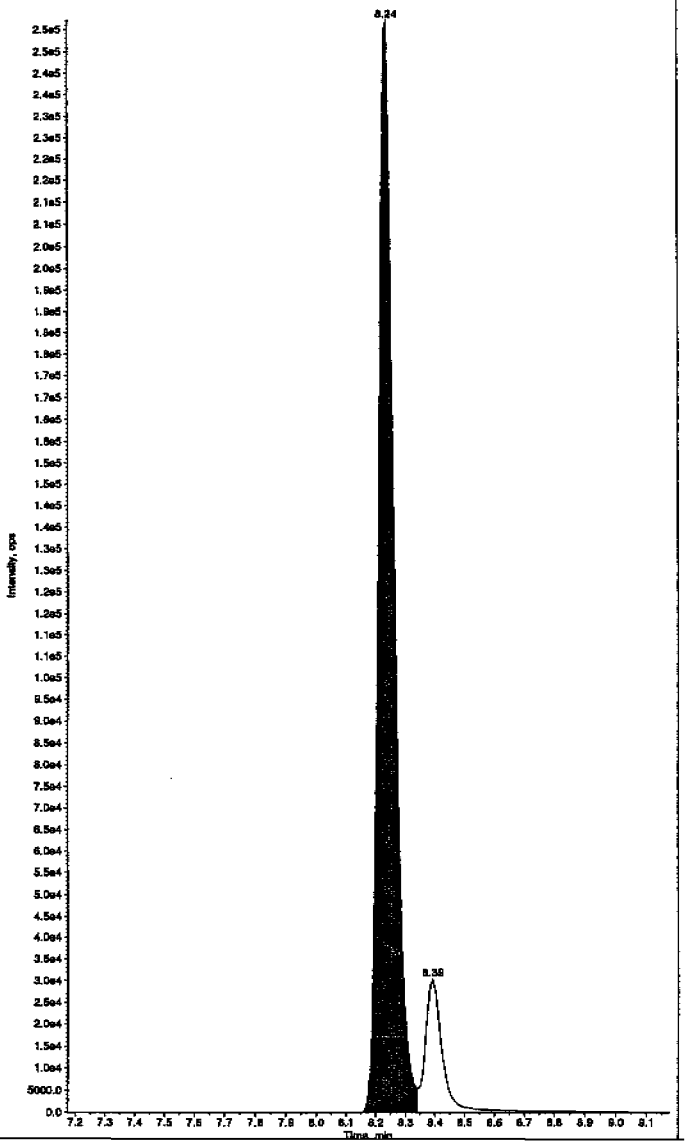


Sample Name: "WXX100227-27CRI" Sample ID: "|1|LER" File: "EXS02260189.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 93.7 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 4:08:16 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: 8.24 min
Area: 9.43e+005 counts
Height: 252337.128 cps
Start Time: 8.12 min
End Time: 8.34 min



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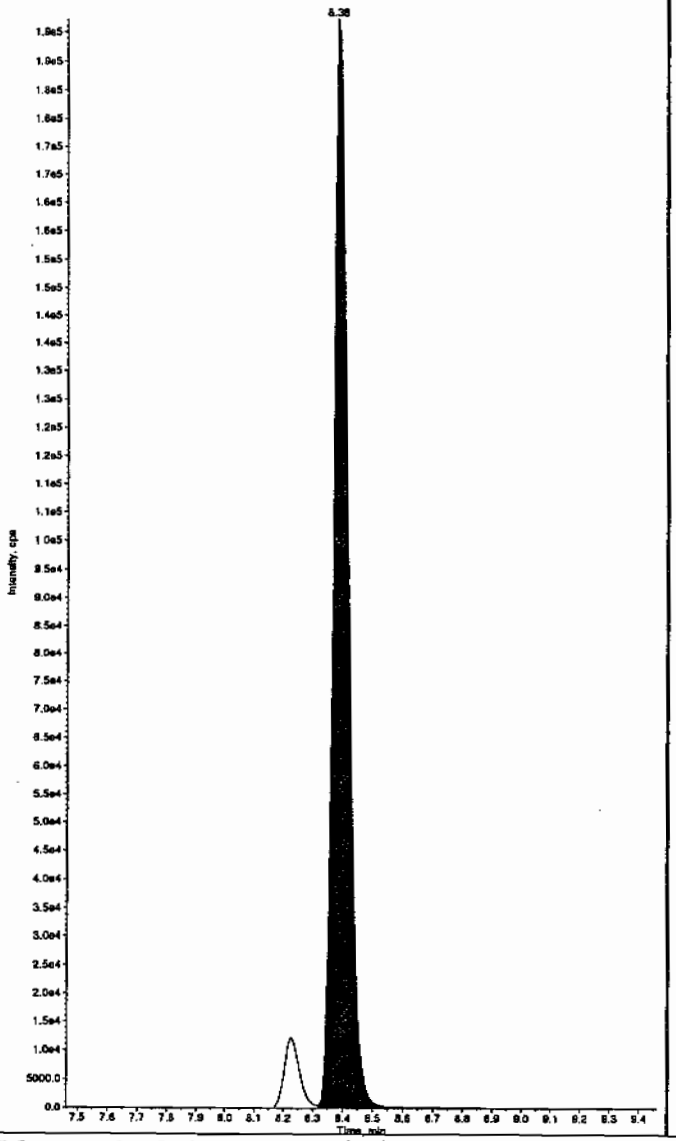
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260189.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 46.6 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 4:08:16 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.38 min
Area: 6.73e+005 counts
Height: 192236.191 cps
Start Time: 8.32 min
End Time: 8.68 min

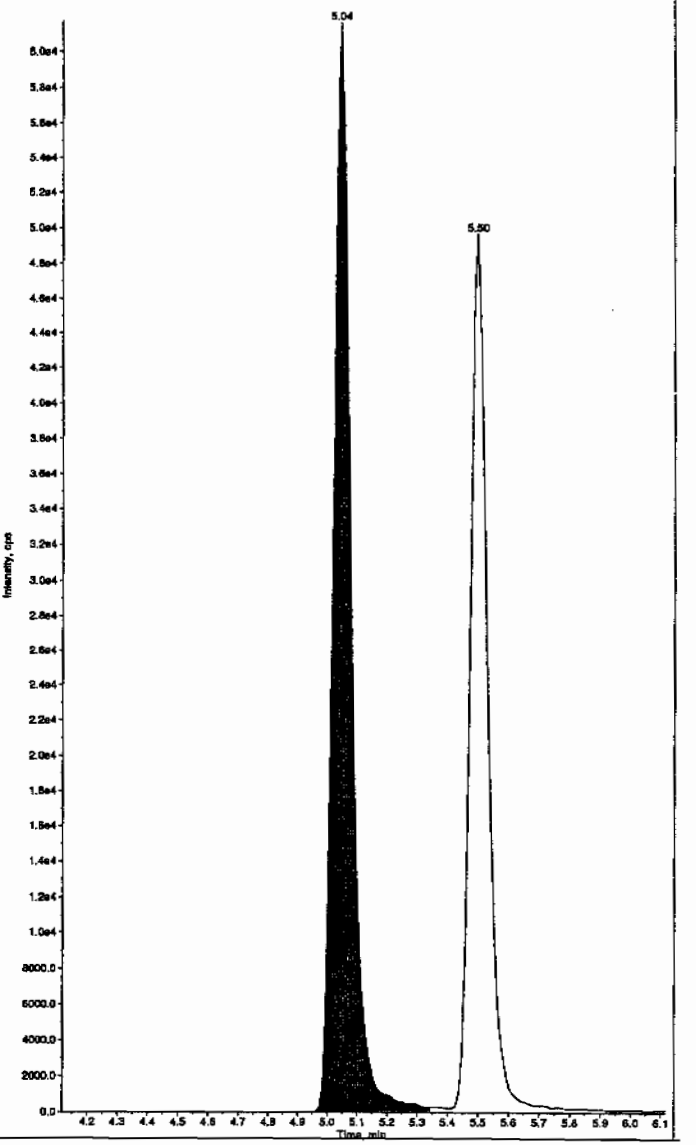


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260189.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 120. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 4:08:16 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.04 min
Area: 2.62e+005 counts
Height: 61637.165 cps
Start Time: 4.92 min
End Time: 5.34 min



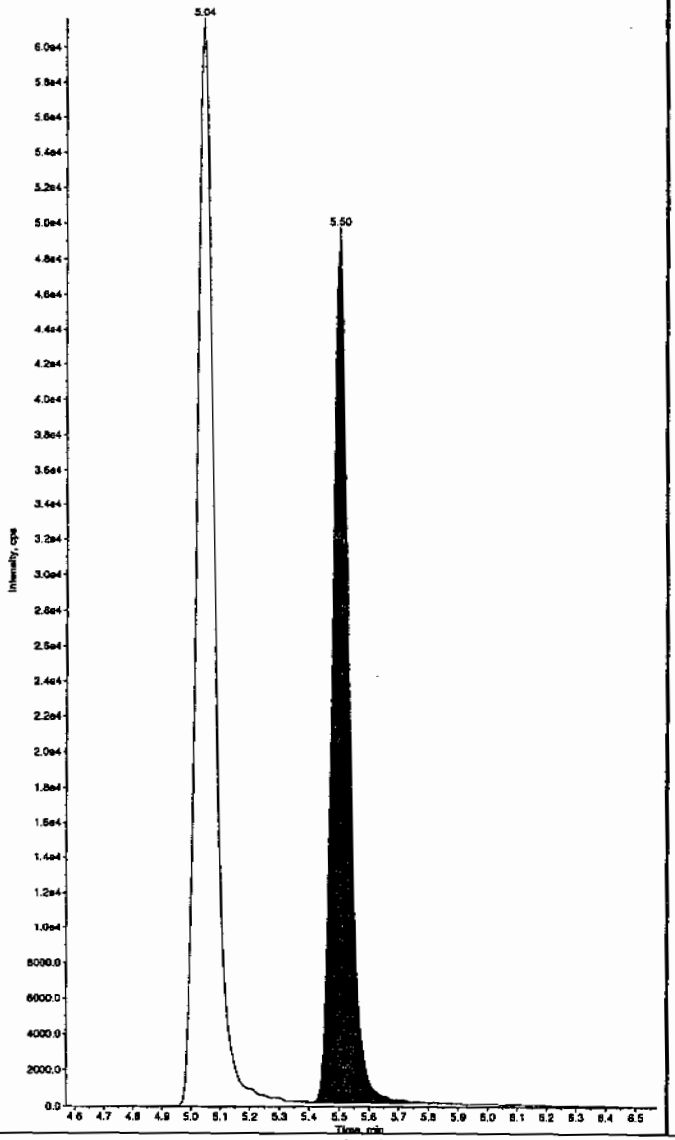
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260189.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 126. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 4:08:16 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.50 min
Area: 1.93e+005 counts
Height: 49537.106 cps
Start Time: 5.41 min
End Time: 5.80 min



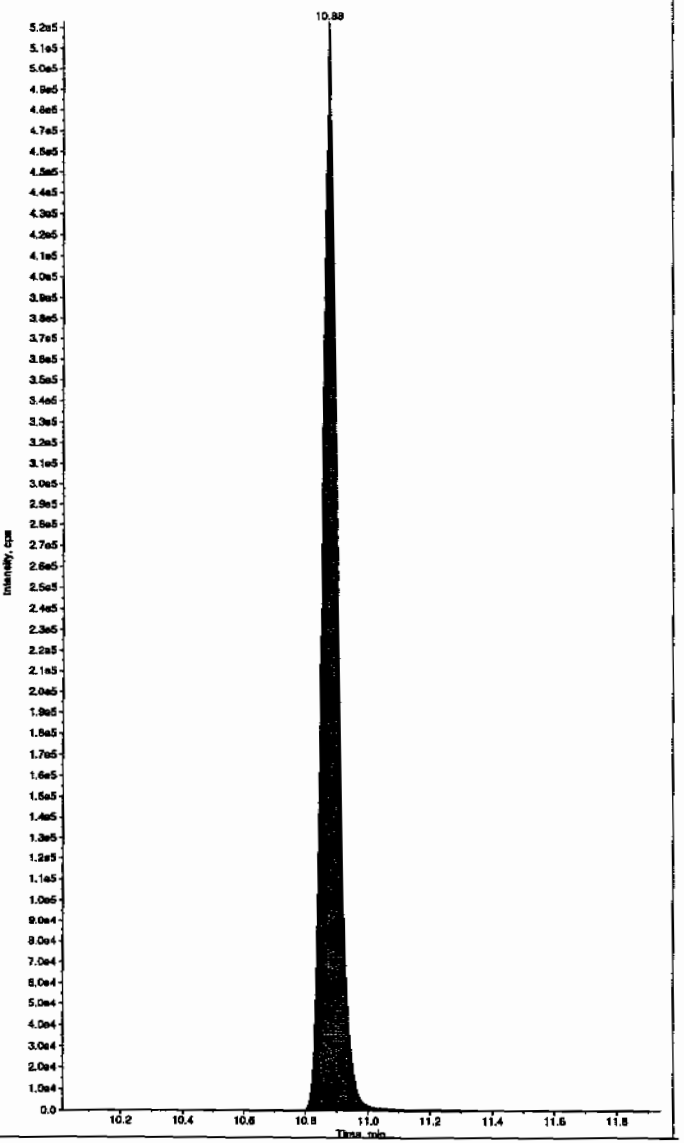
Page 7 of 3

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260189.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 104. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 4:08:16 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: 1.78e+006 counts
Height: 522937.683 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260213.wiff

Analysis Date: 28-FEB-10 22:26

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	625	125	
2,6-Diamino-4-nitrotoluene	500	616	123	
3,4-Dinitrotoluene	250	240	96	
3,5-Dinitroaniline	500	481	96	
TATB	500	534	107	
tris(o-cresyl) phosphate	500	520	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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

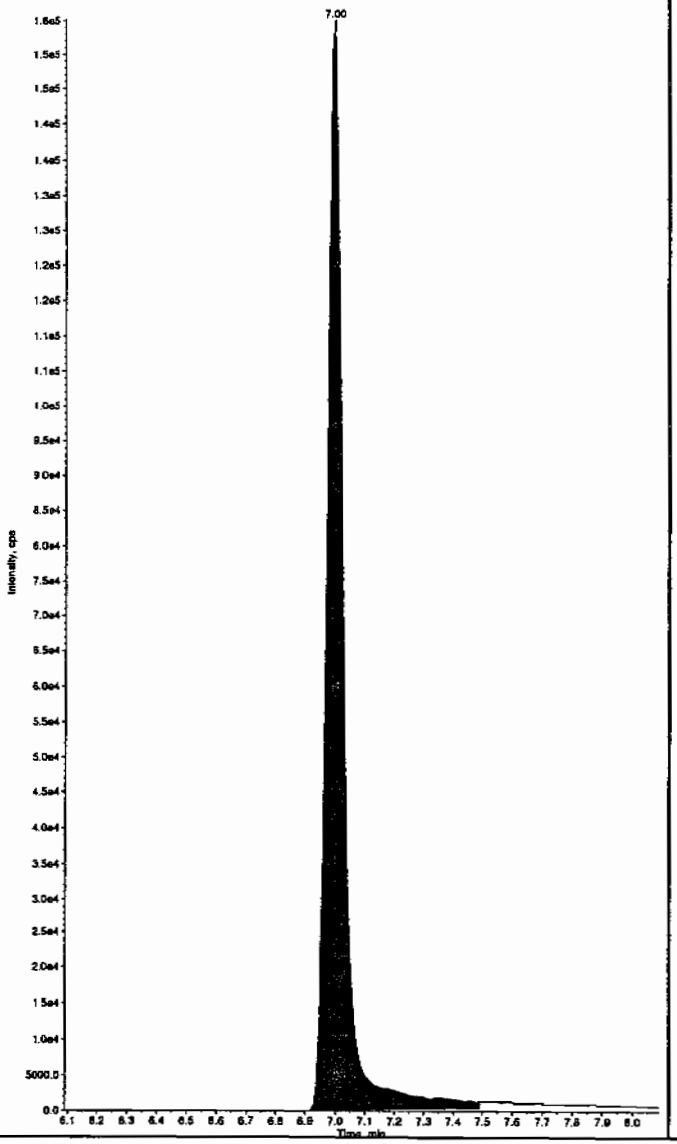
Before Lan 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260213.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 534. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:26:02 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.00 min
Area: 6.33e+005 counts
Height: 55190.643 cps
Start Time: 6.90 min
End Time: 7.49 min

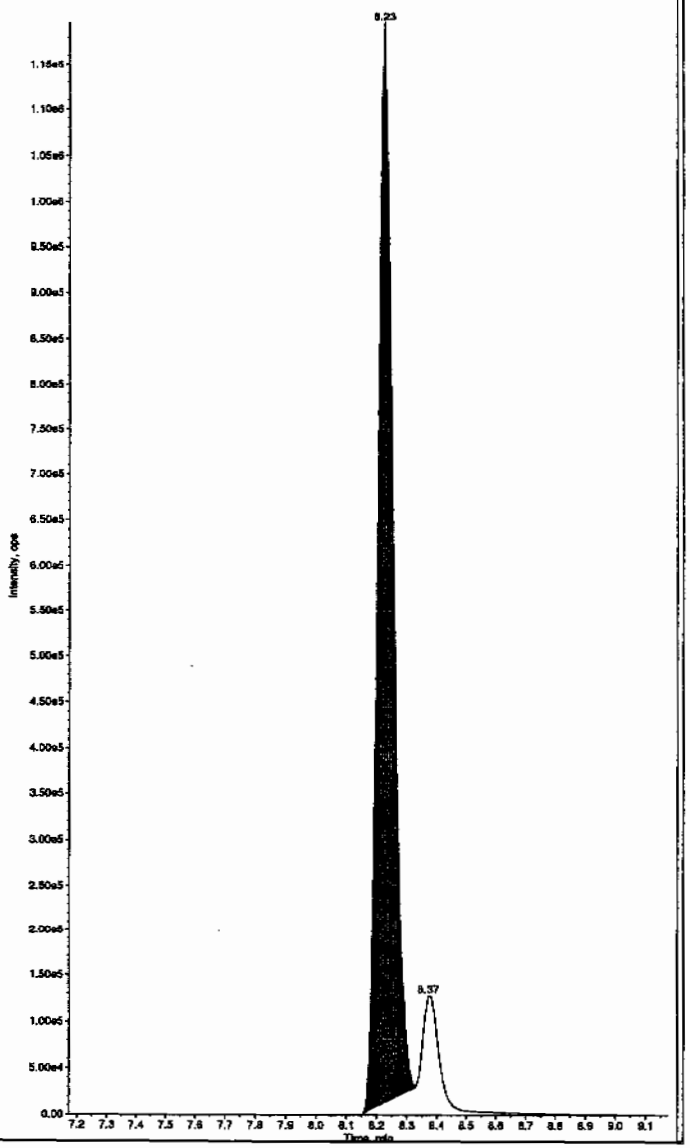


Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260213.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 465. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:26:02 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: 8.23 min
Area: 4.27e+006 counts
Height: 1184919.678 cps
Start Time: 8.15 min
End Time: 8.33 min



Hmm 03/01/10

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

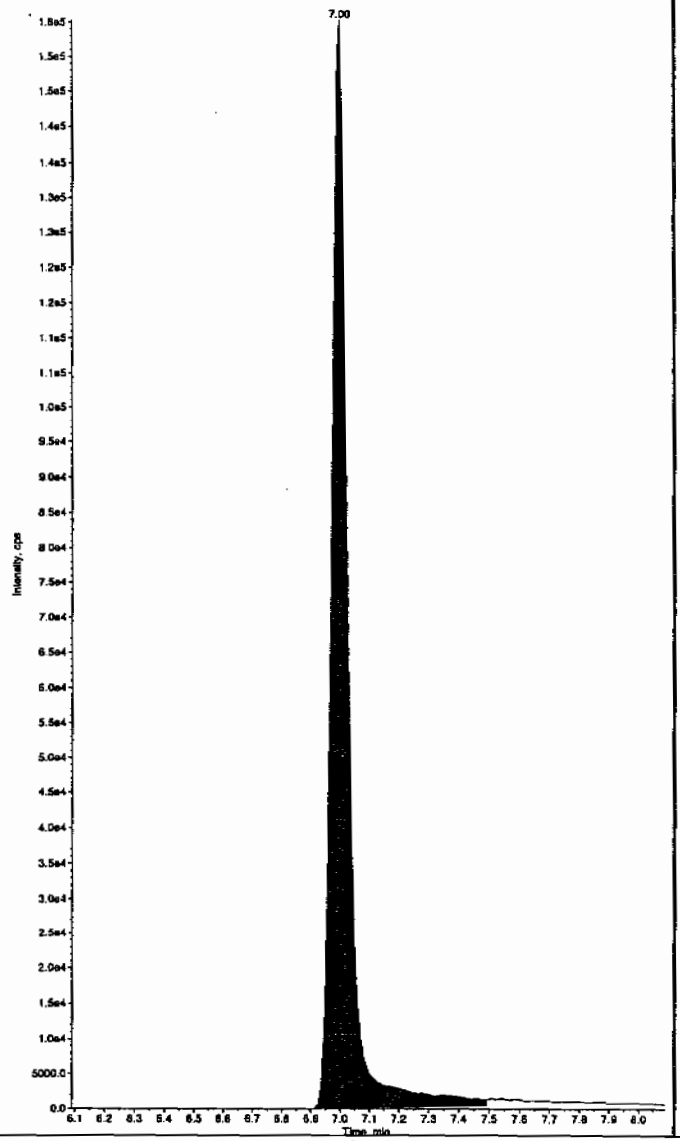
after Rad 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260213.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 534. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:26:02 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.00 min
Area: 6.33e+005 counts
Height: 155190.643 cps
Start Time: 6.90 min
End Time: 7.49 min

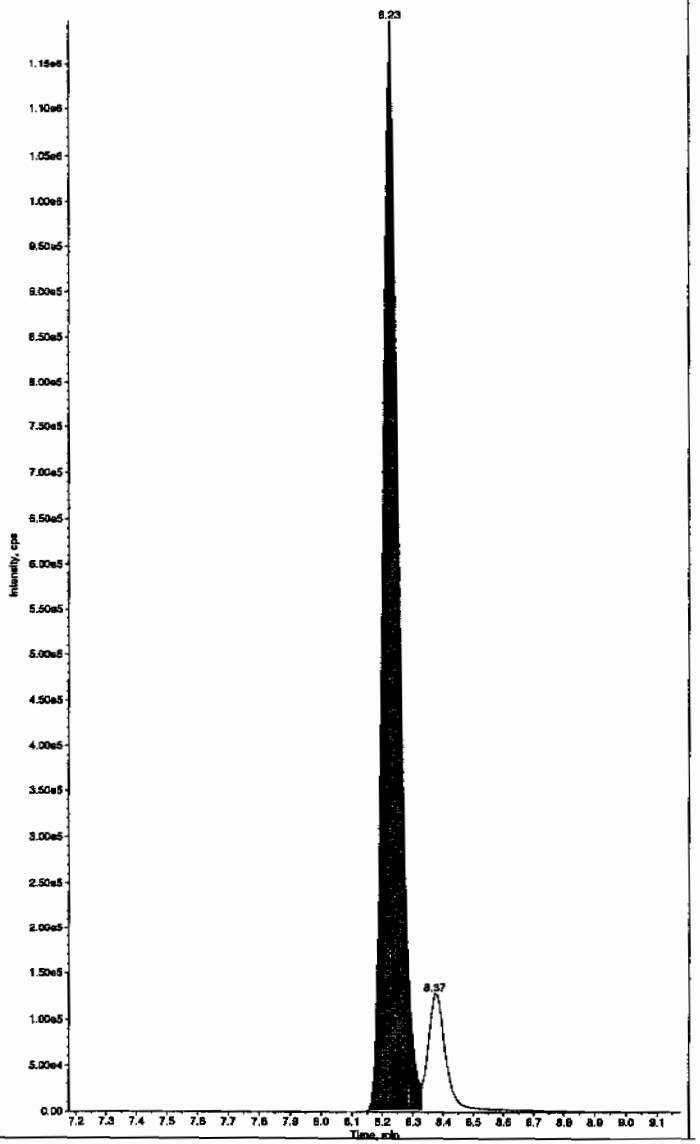


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260213.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 481. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:26:02 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.17 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.23 min
Area: 4.41e+006 counts
Height: 1197118.944 cps
Start Time: 8.15 min
End Time: 8.33 min



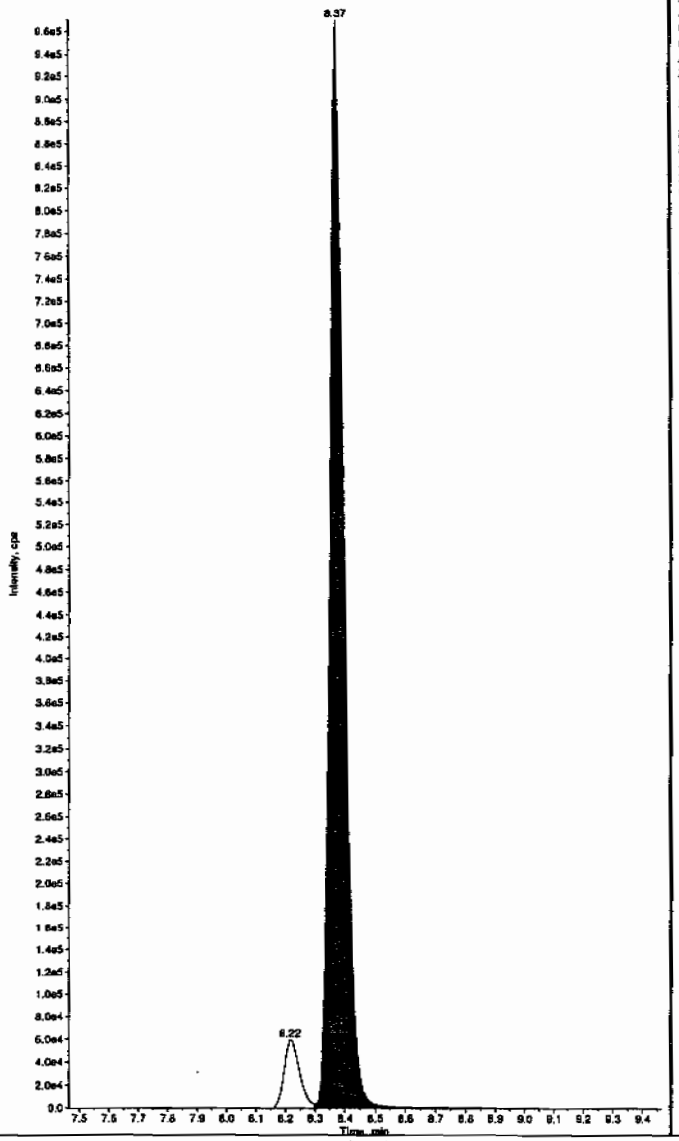
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260213.wiff"
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: 240. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:26:02 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.37 min
Area: 3.31e+006 counts
Height: 970268.188 cps
Start Time: 8.30 min
End Time: 8.70 min

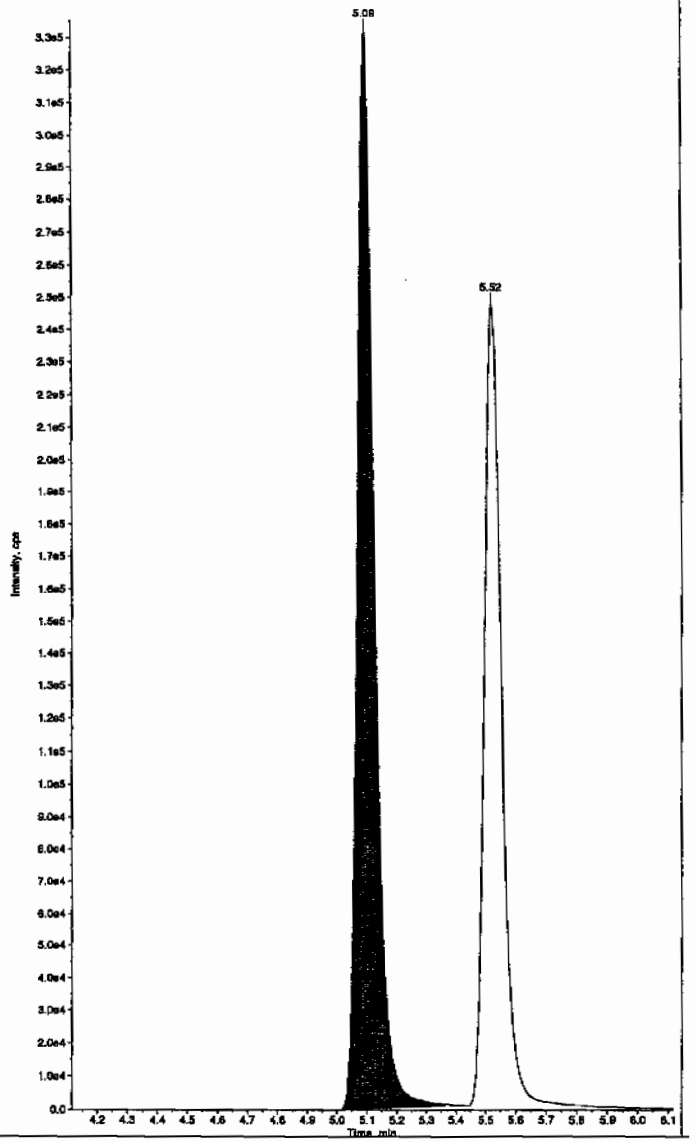


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260213.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 616. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:26:02 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.09 min
Area: 1.35e+006 counts
Height: 335151.184 cps
Start Time: 5.00 min
End Time: 5.36 min



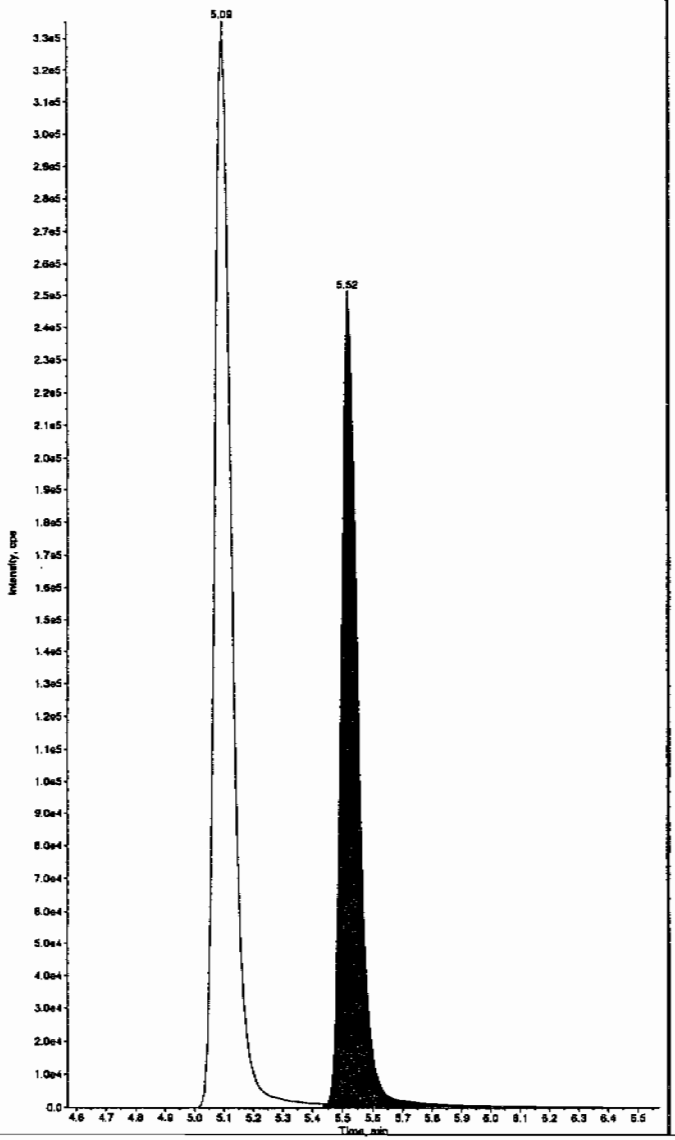
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260213.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 625. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:26:02 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.52 min
Area: 1.00e+006 counts
Height: 251064.377 cps
Start Time: 5.44 min
End Time: 5.99 min

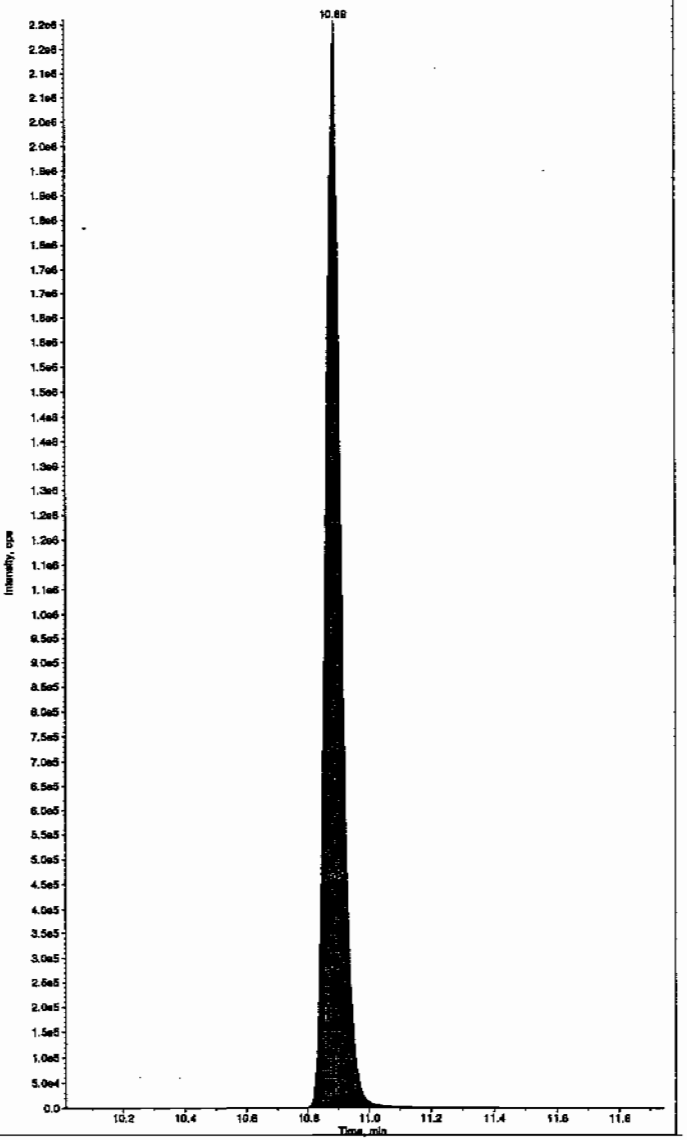


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260213.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 520. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:26:02 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: 7.99e+006 counts
Height: 2210200.439 cps
Start Time: 10.8 min
End Time: 11.2 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): 10–1703

Lab Code: GEI

GEL Sample ID: WXXCRI

GEL Data File EXS02260215.wiff

Analysis Date: 28–FEB–10 22:57

LCMSMS ID: 1358

Column ID: JSphere ODS–H80

Compound	True	Found	Recovery	Q
3,4–Dinitrotoluene	50	48.4	97	
3,5–Dinitroaniline	100	95.7	96	
TATB	100	115	115	
tris(o–cresyl) phosphate	100	105	105	
2,4–Diamino–6–nitrotoluene	100	129	129	
2,6–Diamino–4–nitrotoluene	100	125	125	

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%
OtherTarget Analytes 70–130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

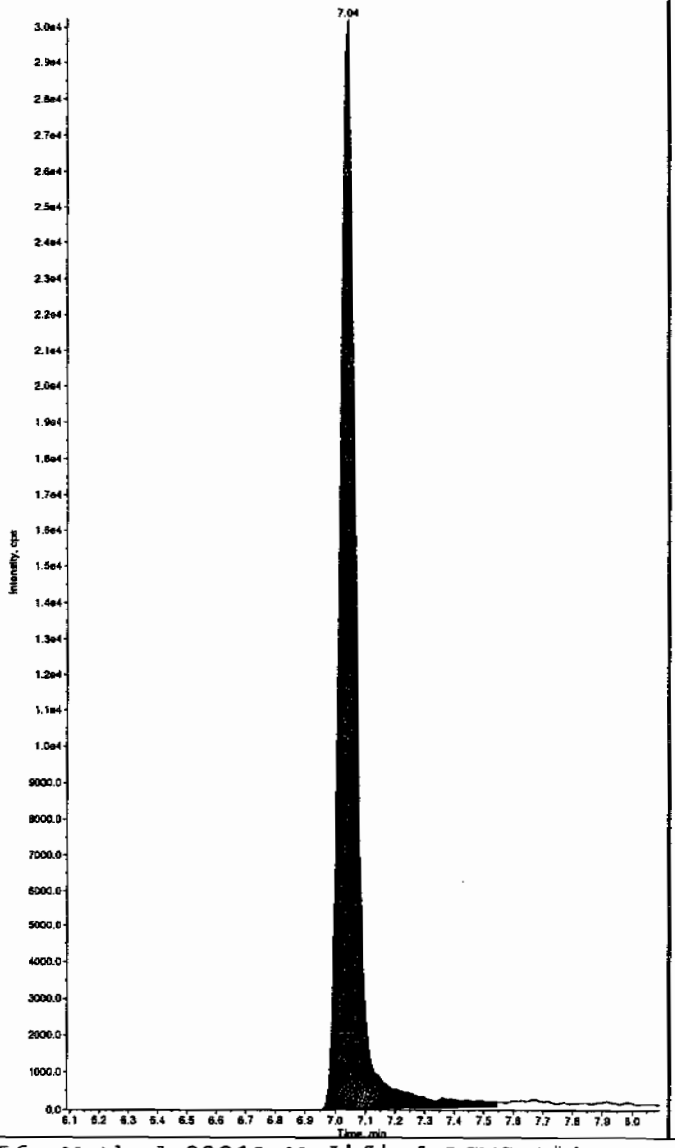
Ran 3/1/10

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260215.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 115. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:57:35 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.04 min
Area: 1.20e+005 counts
Height: 30231.119 cps
Start Time: 6.92 min
End Time: 7.54 min

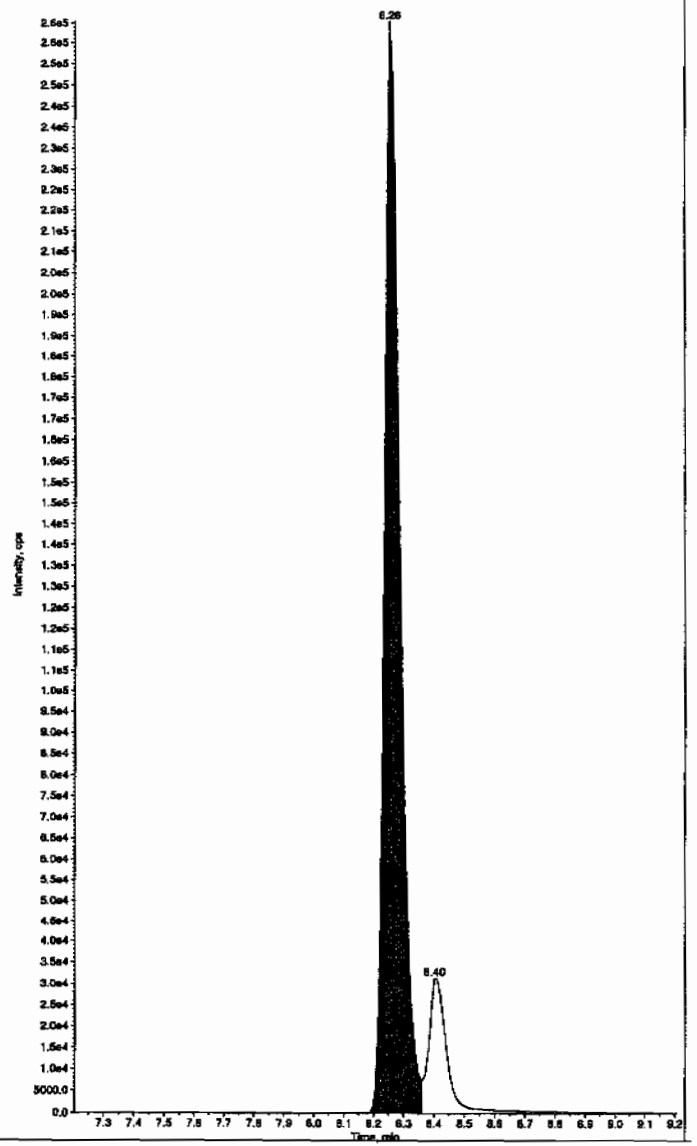


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260215.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 95.7 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:57:35 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: 8.21 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.26 min
Area: 9.63e+005 counts
Height: 260531.342 cps
Start Time: 8.15 min
End Time: 8.36 min



dhm 03/01/10

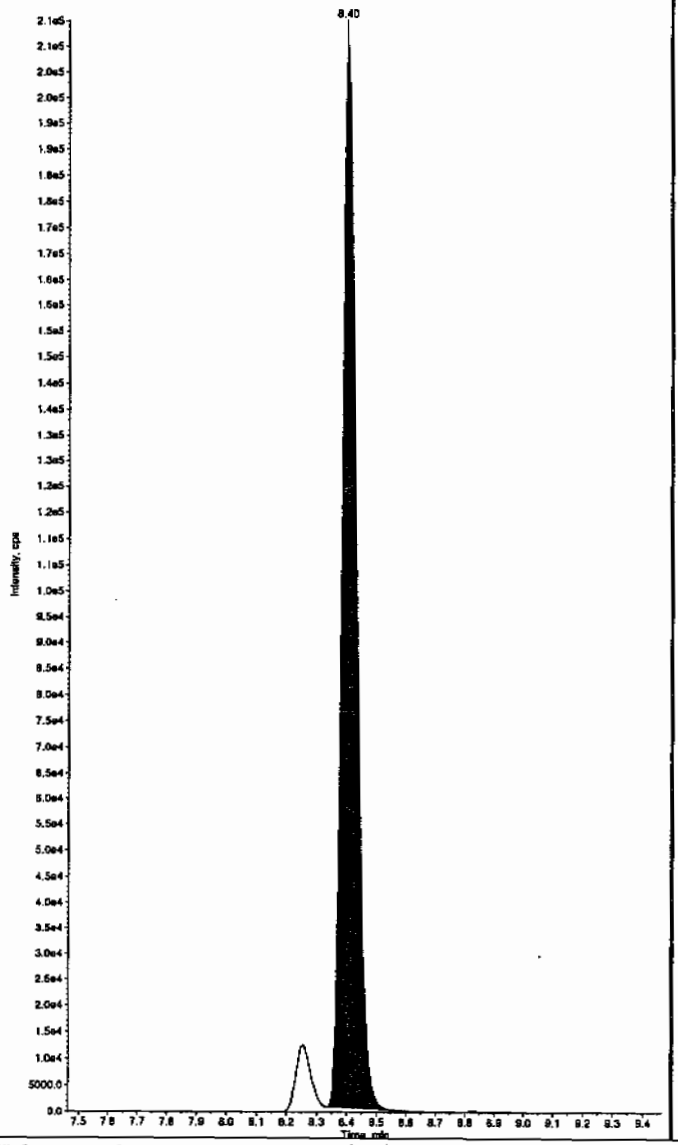
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260215.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 48.4 ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:57:35 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.40 min
Area: 7.00e+005 counts
Height: 209507.217 cps
Start Time: 8.34 min
End Time: 8.58 min

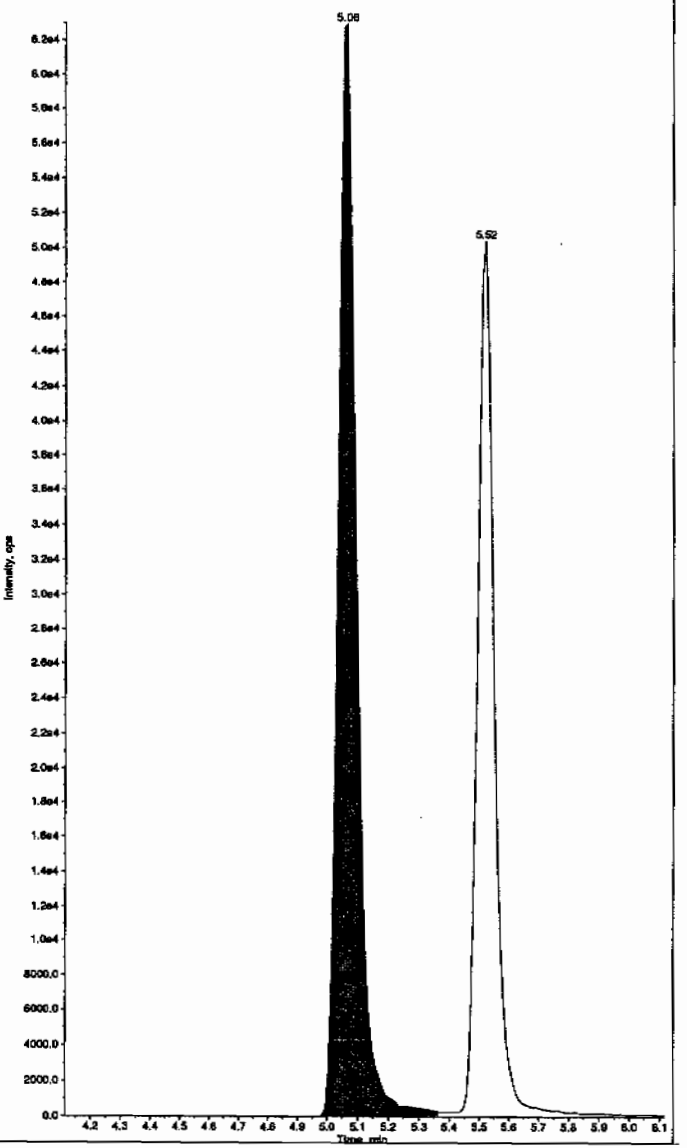


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260215.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 125. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:57:35 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.06 min
Area: 2.73e+005 counts
Height: 62966.057 cps
Start Time: 4.94 min
End Time: 5.36 min



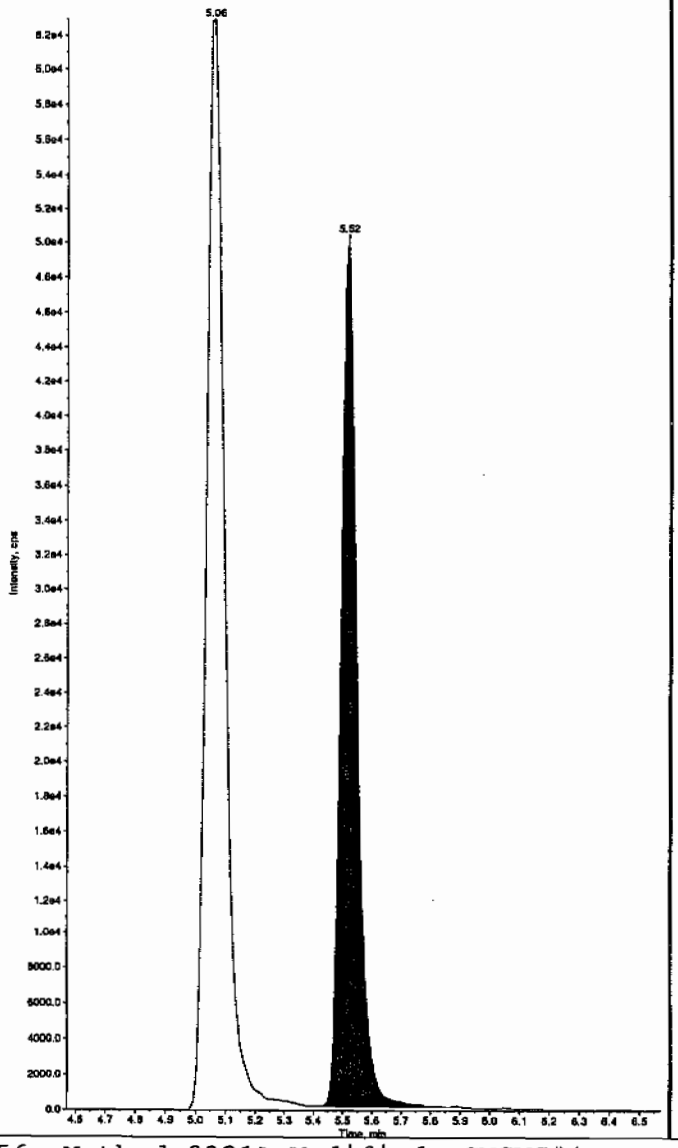
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260215.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 129. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:57:35 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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.52 min
Area: 1.98e+005 counts
Height: 50224.499 cps
Start Time: 5.41 min
End Time: 5.86 min

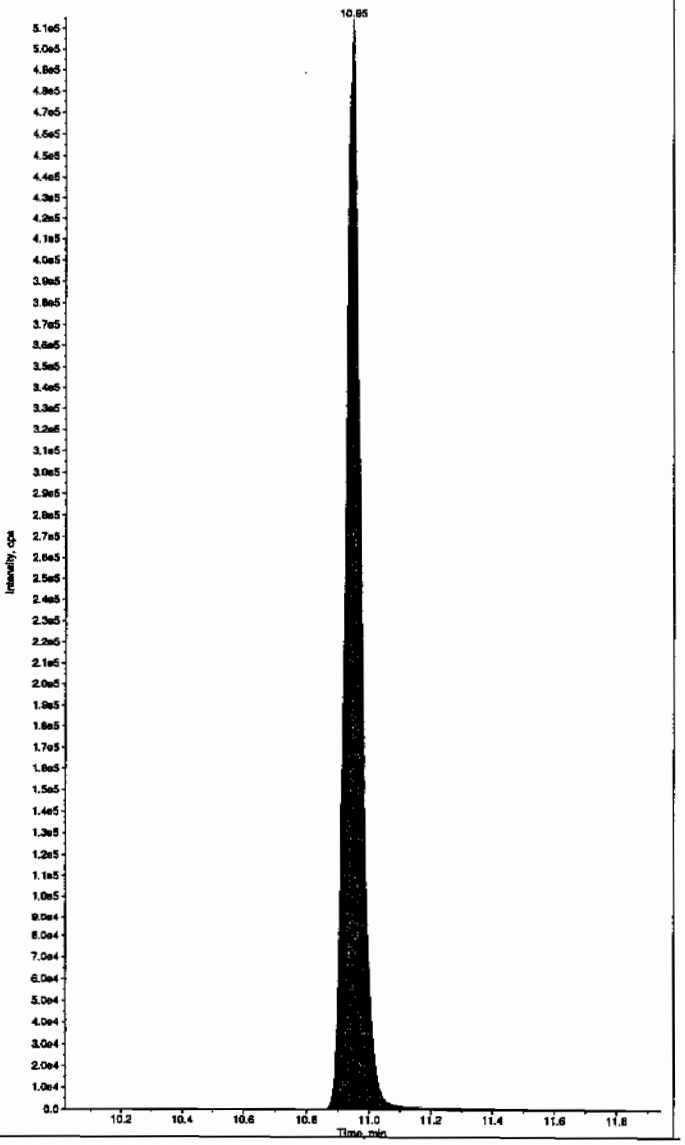


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260215.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 105. ng/mL
Acq. Date: 2/28/2010
Acq. Time: 10:57:35 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: 1.80e+006 counts
Height: 515265.320 cps
Start Time: 10.8 min
End Time: 11.3 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02260224.wiff

Analysis Date: 01-MAR-10 01:19

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	593	119	
2,6-Diamino-4-nitrotoluene	500	612	122	
3,4-Dinitrotoluene	250	241	96	
3,5-Dinitroaniline	500	484	97	
TATB	500	568	114	
tris(o-cresyl) phosphate	500	523	105	

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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

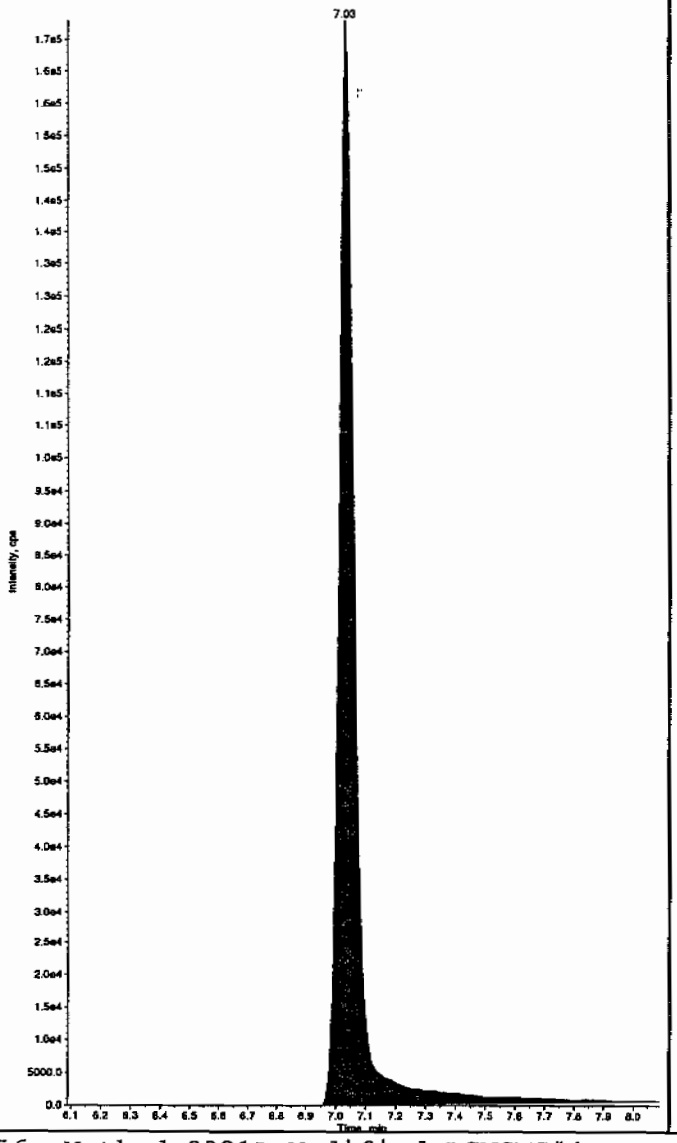
Before Lcm 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260224.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 568. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:19:05 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.03 min
Area: 6.75e+005 counts
Height: 168108.948 cps
Start Time: 6.93 min
End Time: 8.00 min

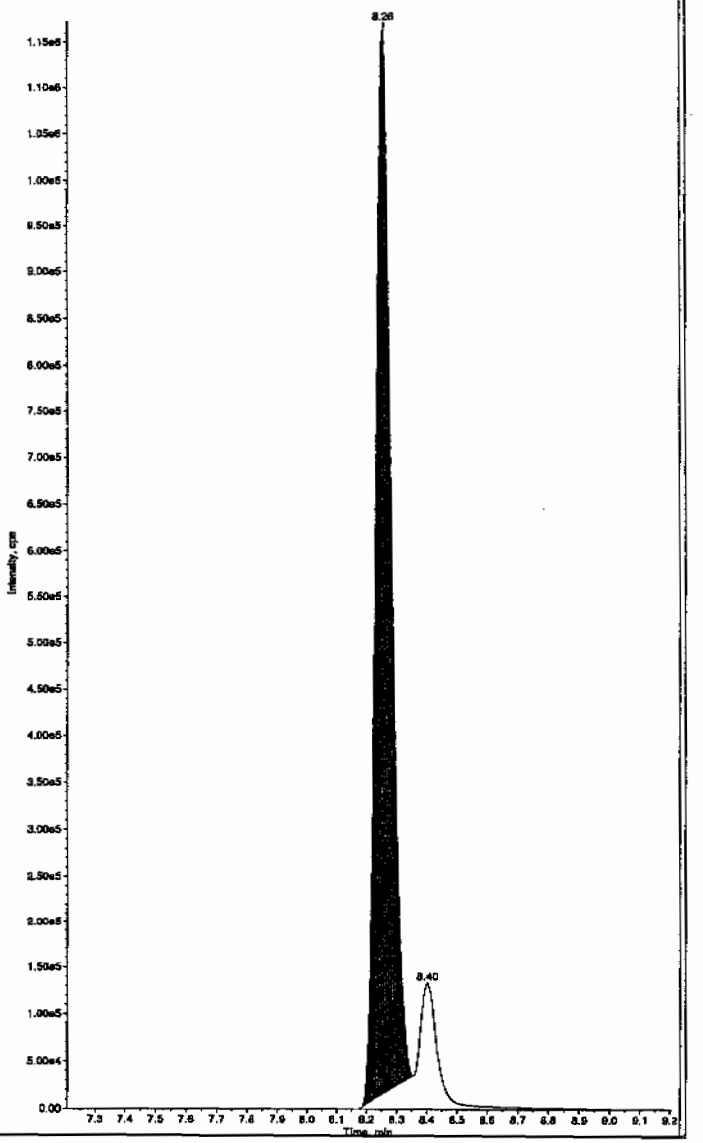


Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260224.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 465. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:19:05 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: 8.21 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.26 min
Area: 4.28e+006 counts
Height: 1157241.211 cps
Start Time: 8.19 min
End Time: 8.35 min



HMm 03/01/10

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

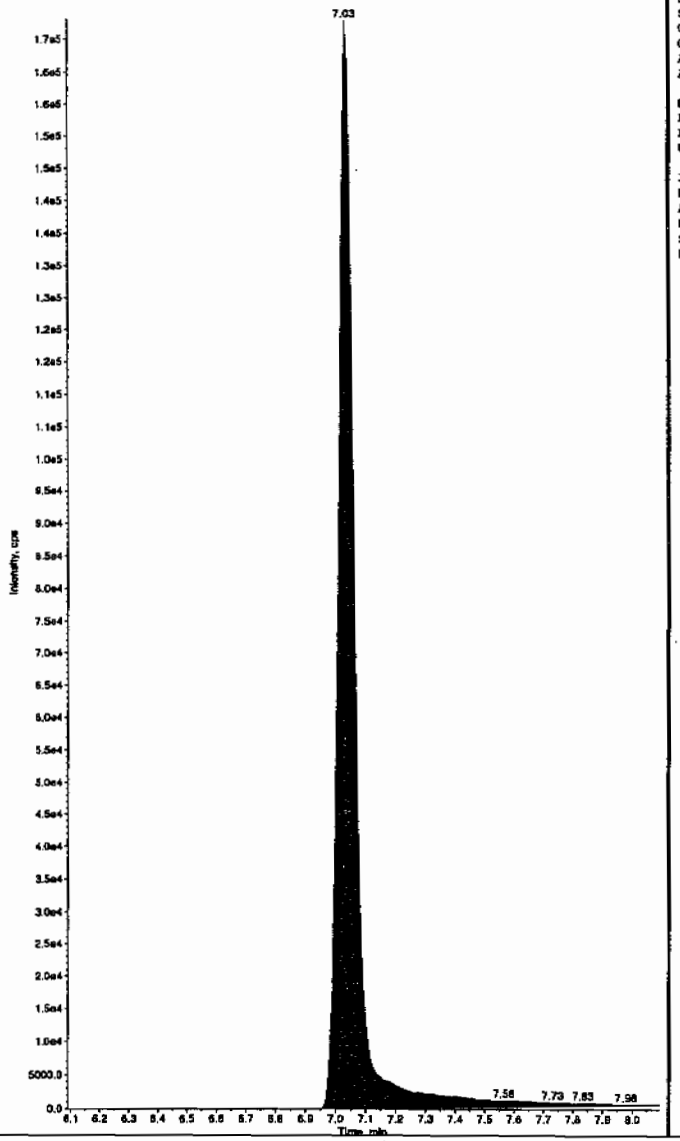
after Pkn 3/1/10

Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260224.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 568. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:19:05 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.03 min
Area: 6.75e+005 counts
Height: 168108.948 cps
Start Time: 6.93 min
End Time: 8.00 min

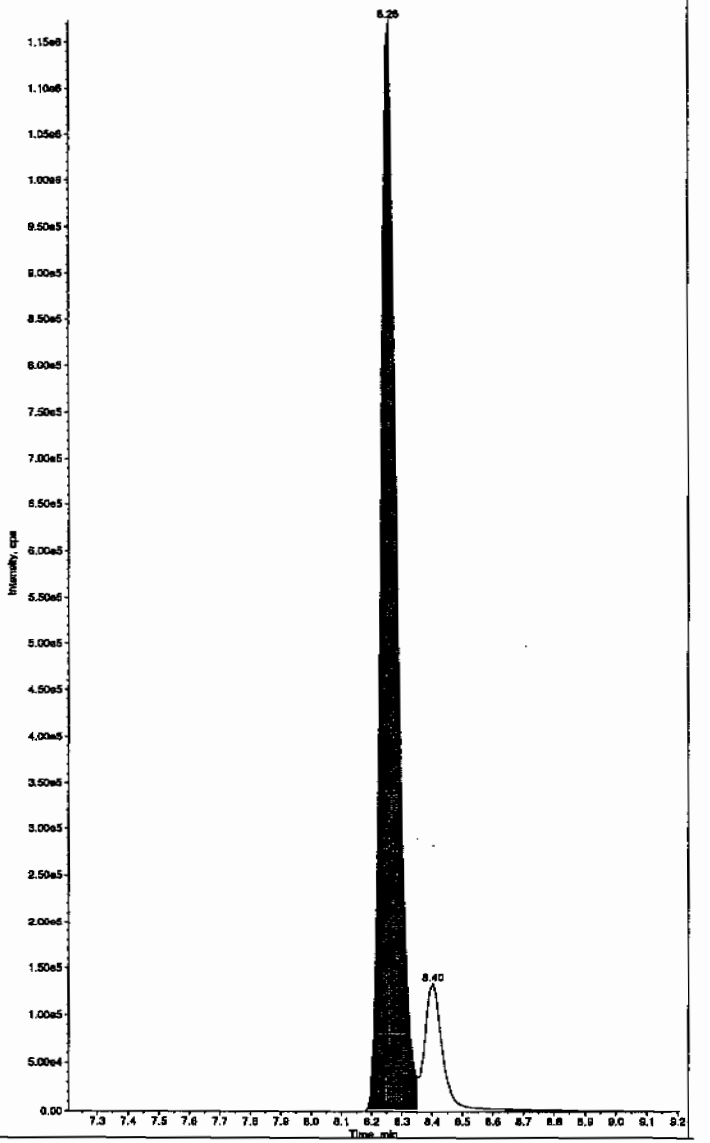


Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260224.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 484. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:19:05 AM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.21 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.25 min
Area: 4.44e+006 counts
Height: 1183661.103 cps
Start Time: 8.19 min
End Time: 8.35 min



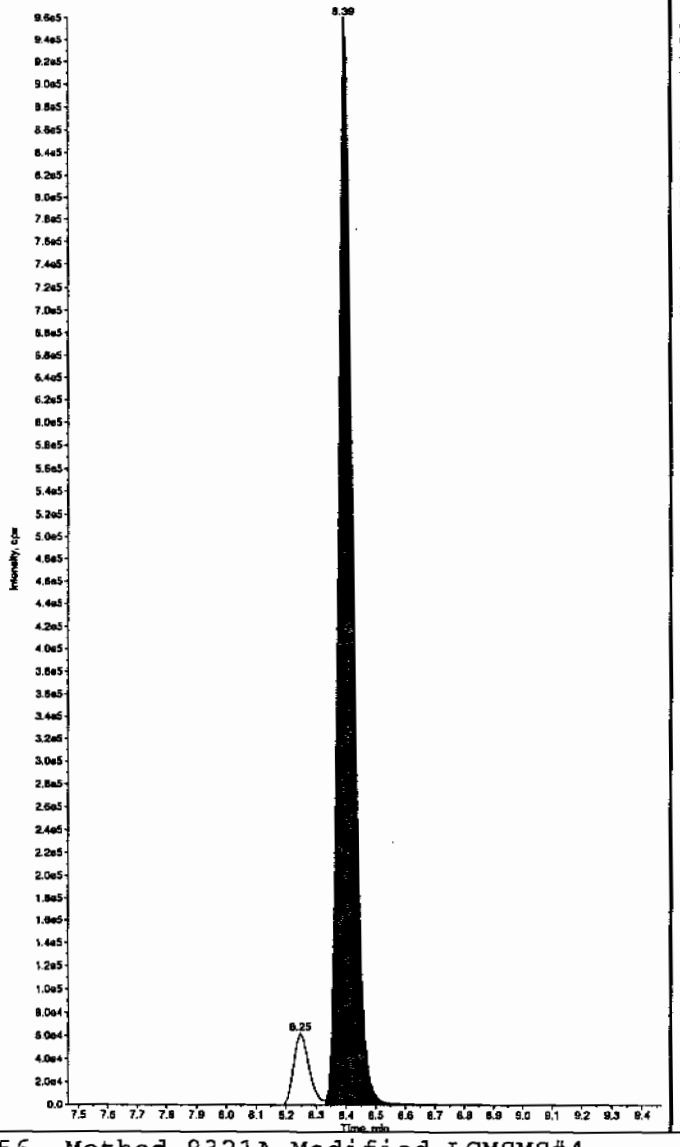
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260224.wiff"
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: 241. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:19:05 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.39 min
Area: 3.32e+006 counts
Height: 960162.476 cps
Start Time: 8.33 min
End Time: 8.72 min

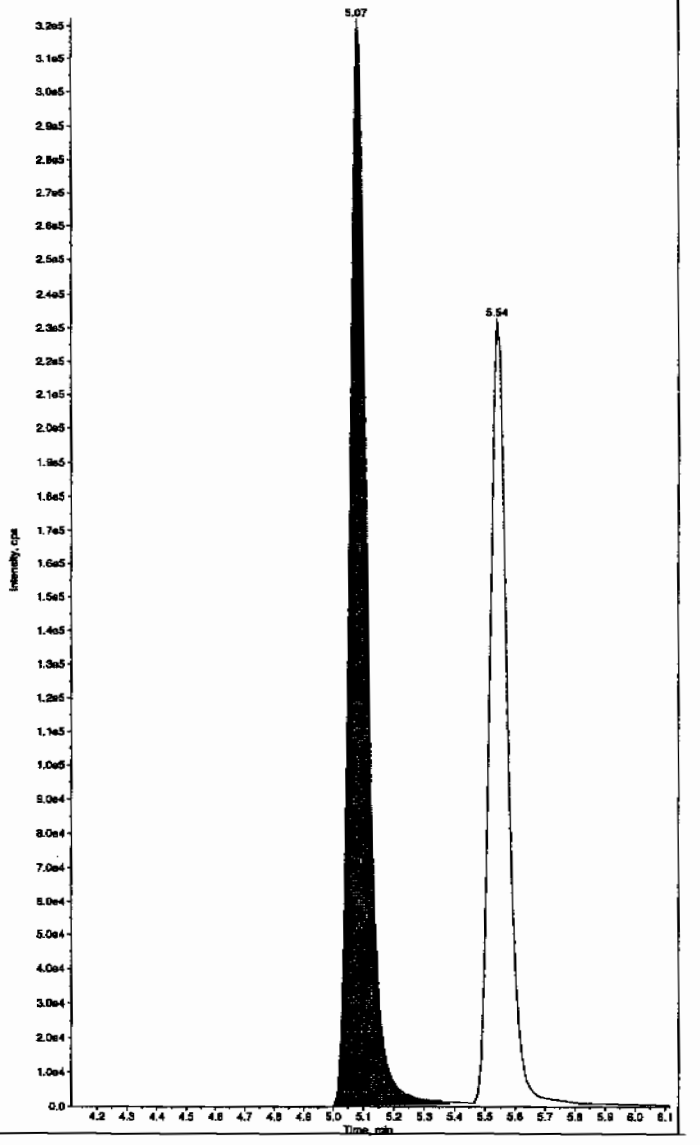


Sample Name: "WXX100227-26CCV" Sample ID: "|1|LER" File: "EXS02260224.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 612. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:19:05 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.07 min
Area: 1.35e+006 counts
Height: 322262.695 cps
Start Time: 4.98 min
End Time: 5.38 min



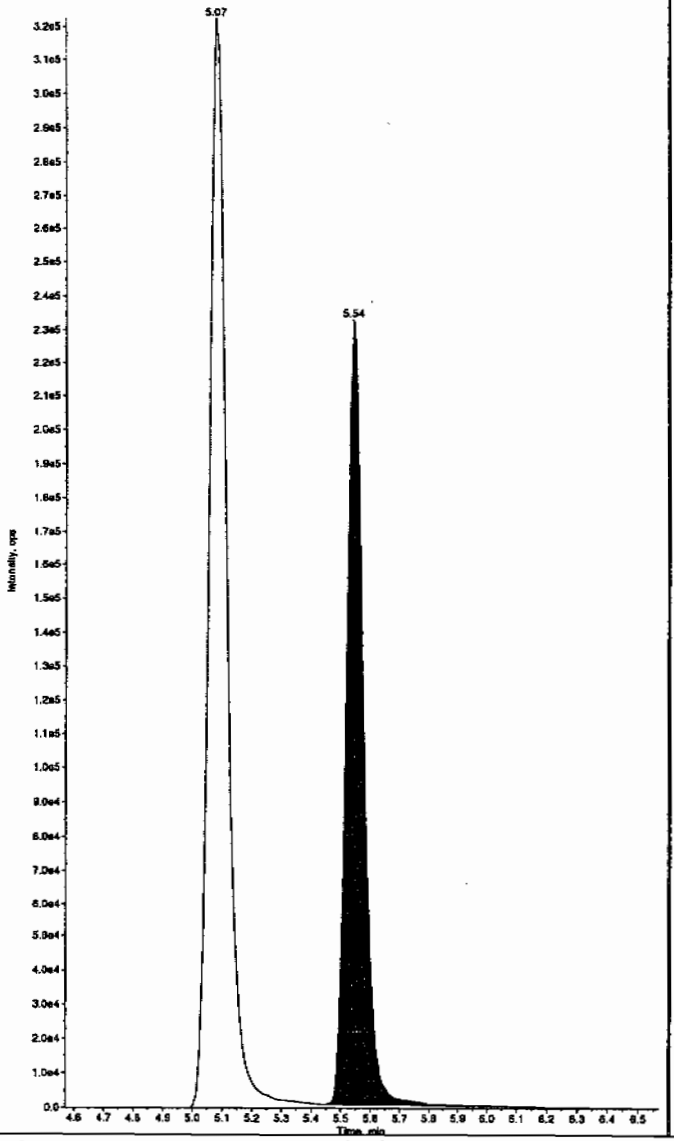
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260224.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 593. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:19:05 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.54 min
Area: 9.49e+005 counts
Height: 231990.601 cps
Start Time: 5.46 min
End Time: 6.15 min

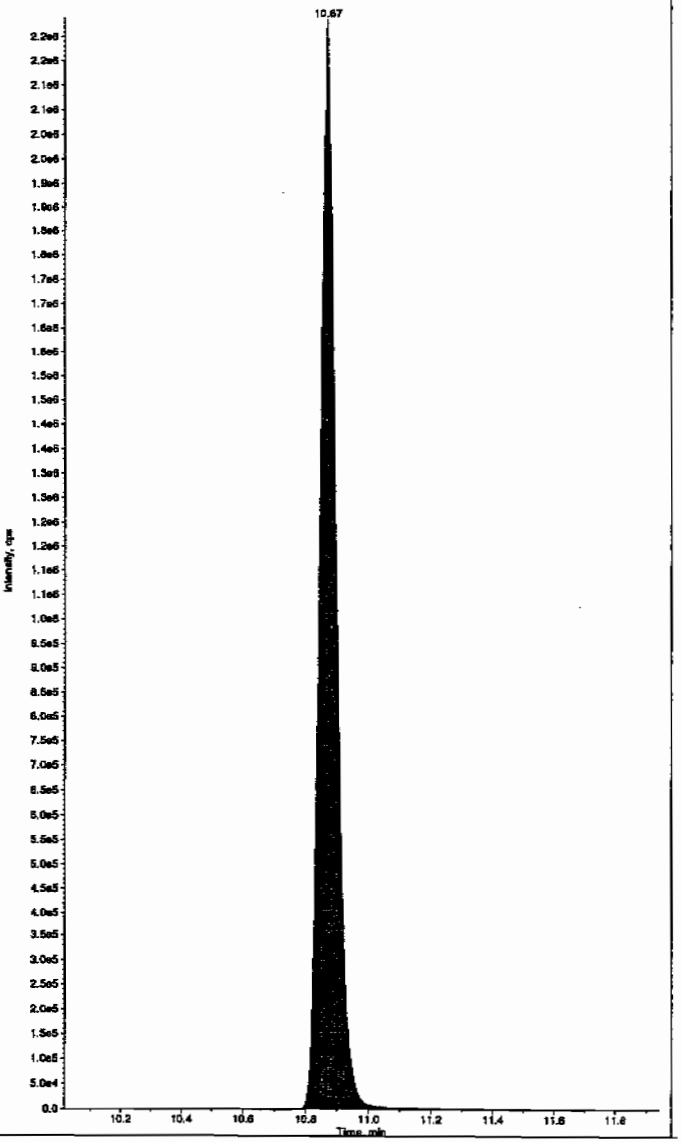


Sample Name: "WXX100227-26CCV" Sample ID: "[1]LER" File: "EXS02260224.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 523. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:19:05 AM

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: 8.03e+006 counts
Height: 2239924.805 cps
Start Time: 10.8 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02260226.wiff

Analysis Date: 01-MAR-10 01:50

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	132	132	
2,6-Diamino-4-nitrotoluene	100	125	125	
3,4-Dinitrotoluene	50	47.7	95	
3,5-Dinitroaniline	100	97	97	
TATB	100	119	119	
tris(o-cresyl) phosphate	100	105	105	

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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

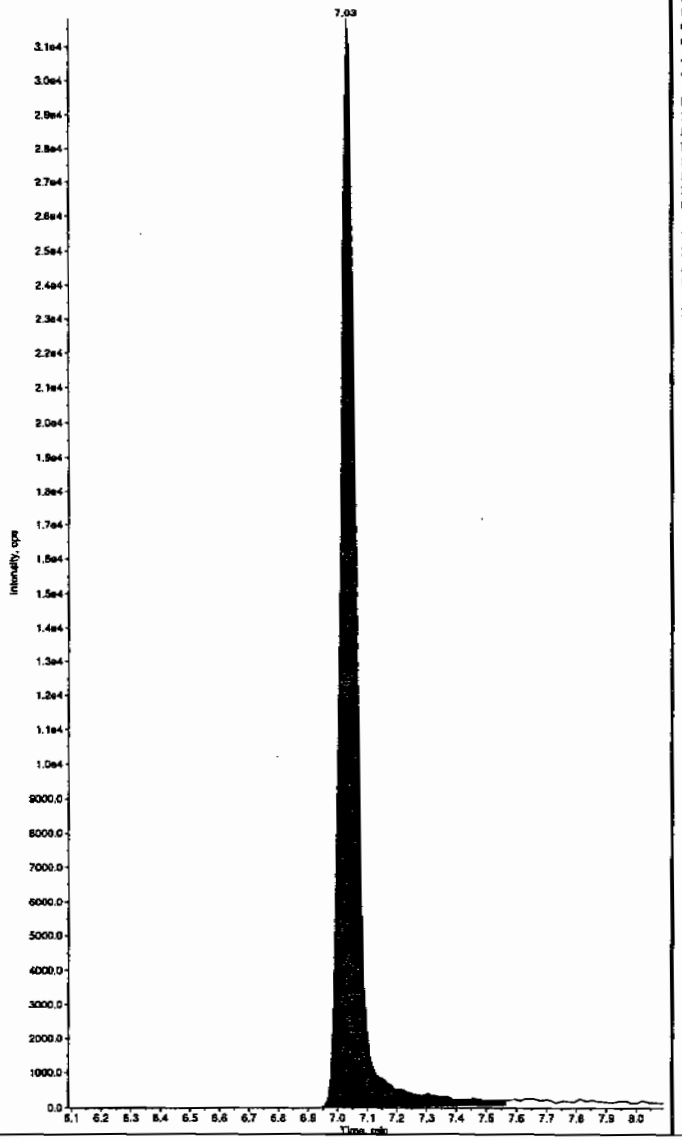
Sen 3/1/10

Sample Name: "WXX100227-27CRI" Sample ID: "1|LER" File: "EXS02260226.wif"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 119. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:50:38 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: 7.09 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.03 min
Area: 1.25e+005 counts
Height: 31815.393 cps
Start Time: 6.93 min
End Time: 7.56 min

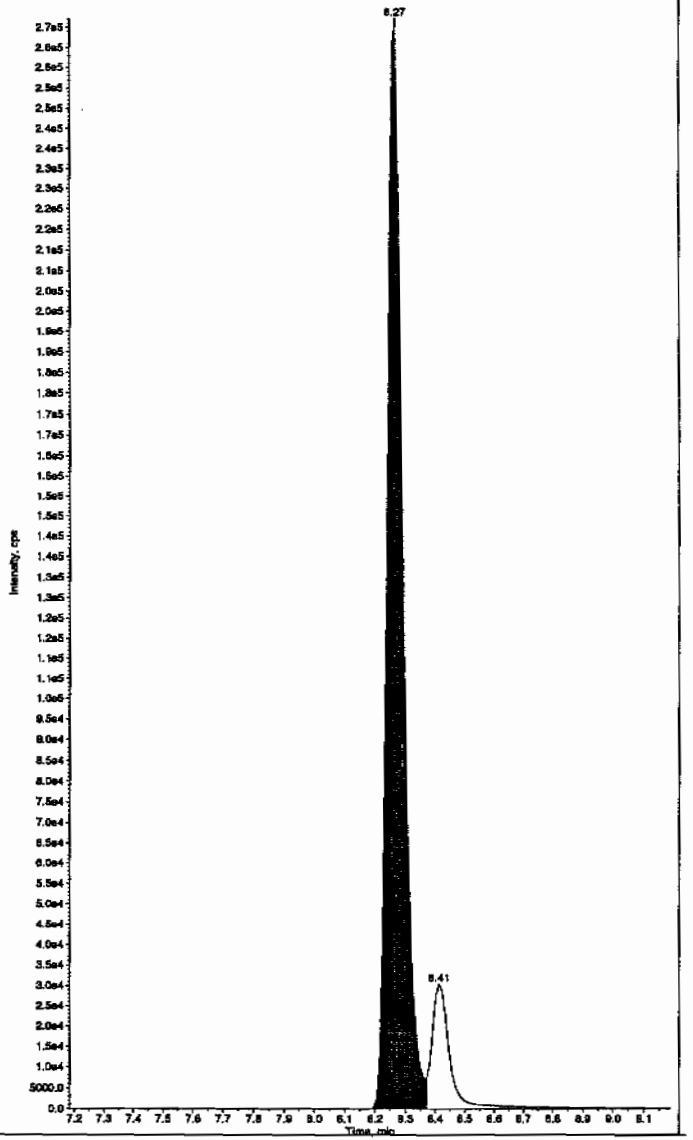


Sample Name: "WXX100227-27CRI" Sample ID: "1|LER" File: "EXS02260226.wif"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 97.0 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:50:38 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: 8.27 min
Area: 9.75e+005 counts
Height: 267128.906 cps
Start Time: 8.15 min
End Time: 8.37 min



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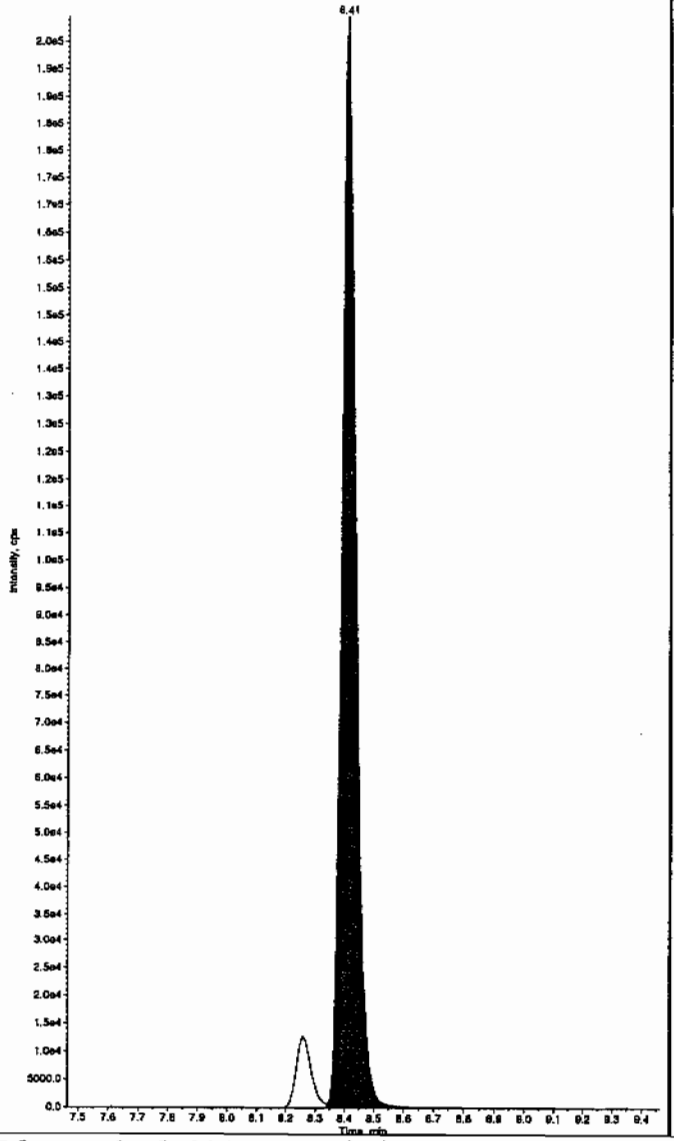
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260225.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 47.7 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:50:38 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: 15.0 sec
Expected RT: 8.46 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.41 min
Area: 6.89e+005 counts
Height: 199747.299 cps
Start Time: 8.34 min
End Time: 8.73 min

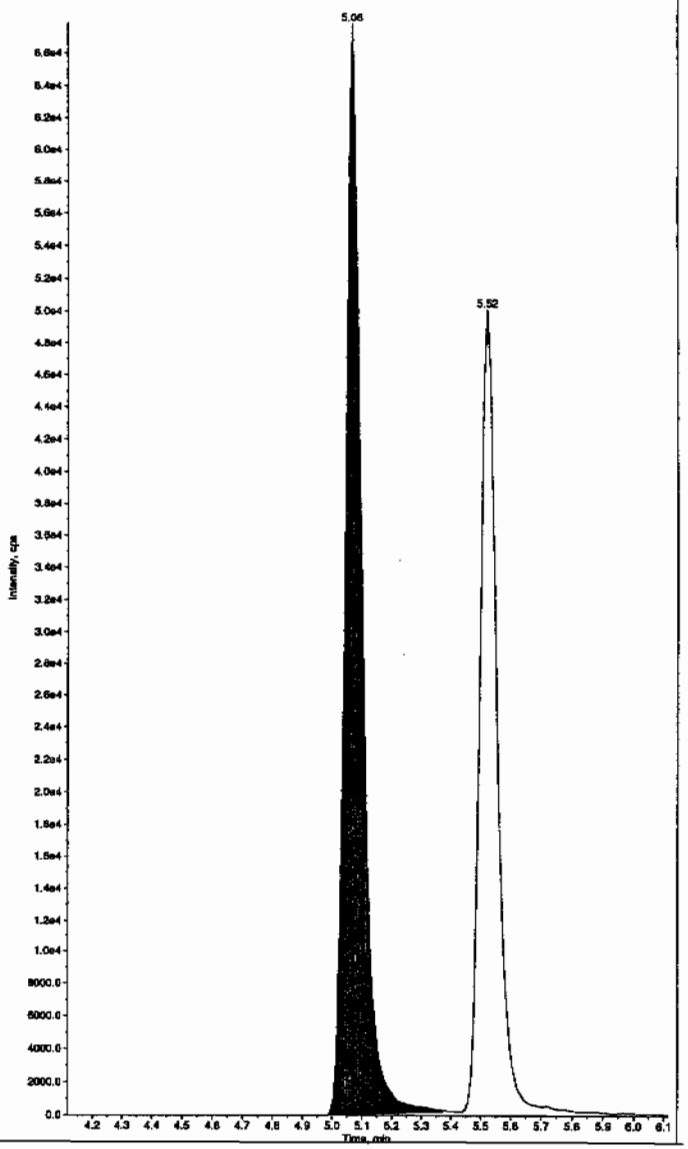


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260226.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 125. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:50:38 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: 5.12 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.06 min
Area: 2.73e+005 counts
Height: 67917.023 cps
Start Time: 4.97 min
End Time: 5.37 min



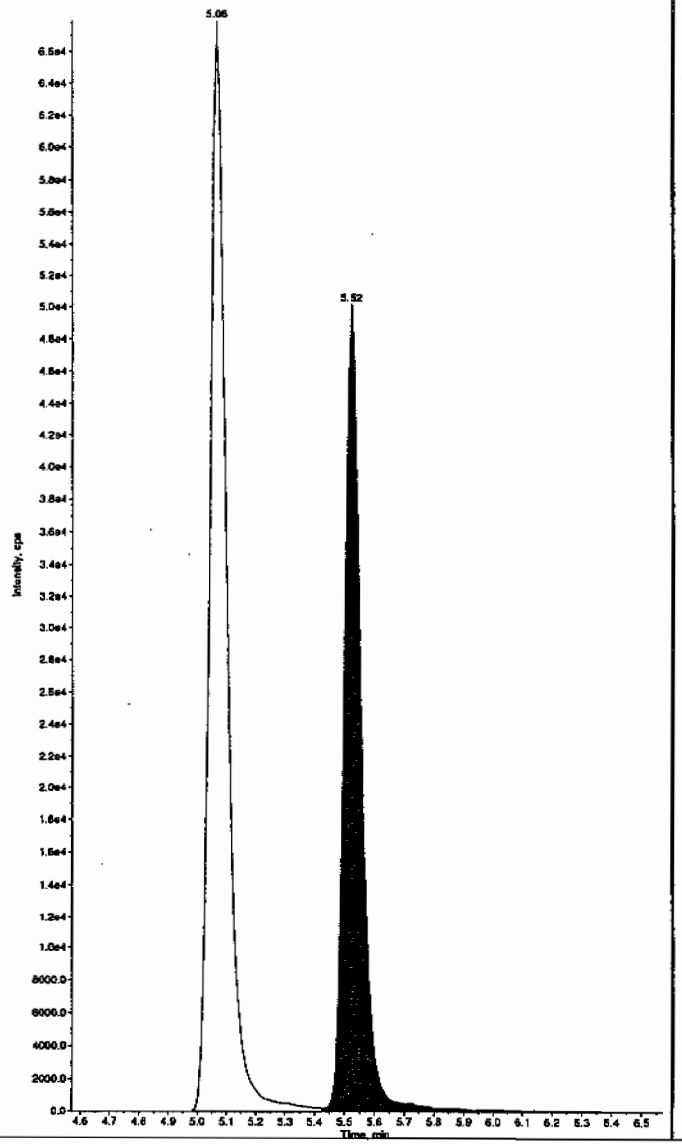
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260226.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 132. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:50:38 AM

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: 5.57 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.52 min
Area: 2.04e+005 counts
Height: 50192.650 cps
Start Time: 5.43 min
End Time: 6.21 min

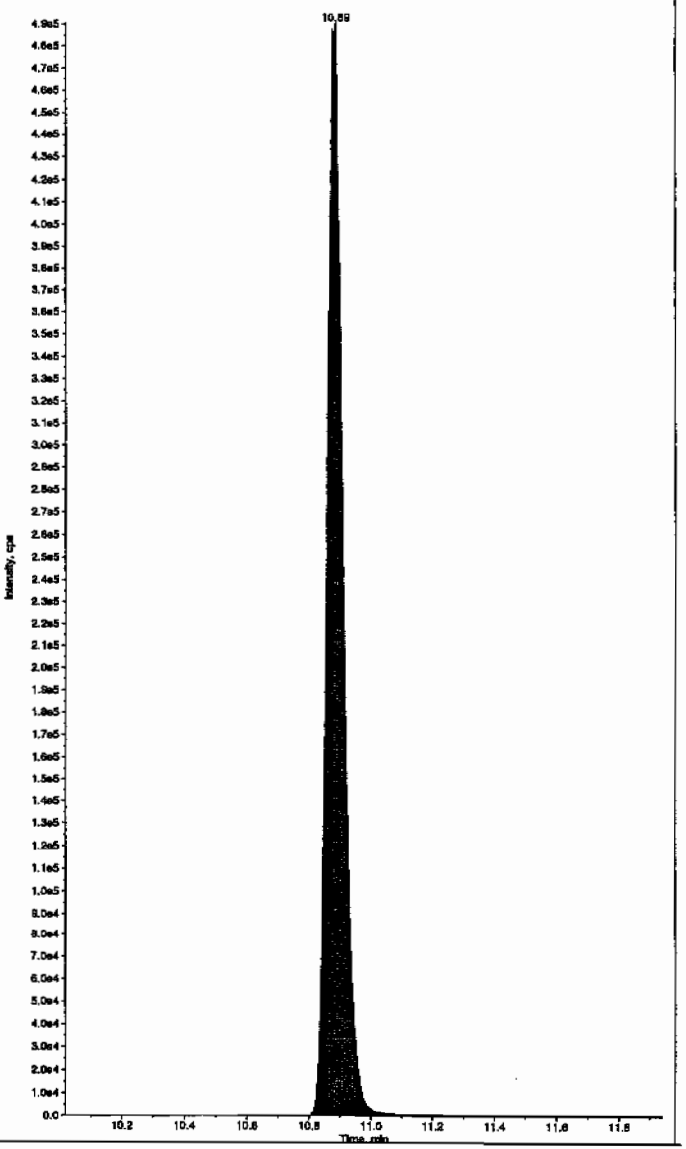


Sample Name: "WXX100227-27CRI" Sample ID: "[1]LER" File: "EXS02260226.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 105. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 1:50:38 AM

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: 1.80e+006 counts
Height: 490336.273 cps
Start Time: 10.8 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010013.wiff

Analysis Date: 01-MAR-10 12:11

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	99.6	100	
2,6-Diamino-4-nitrotoluene	100	99.3	99	
3,4-Dinitrotoluene	50	52.9	106	
3,5-Dinitroaniline	100	100	100	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	101	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 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

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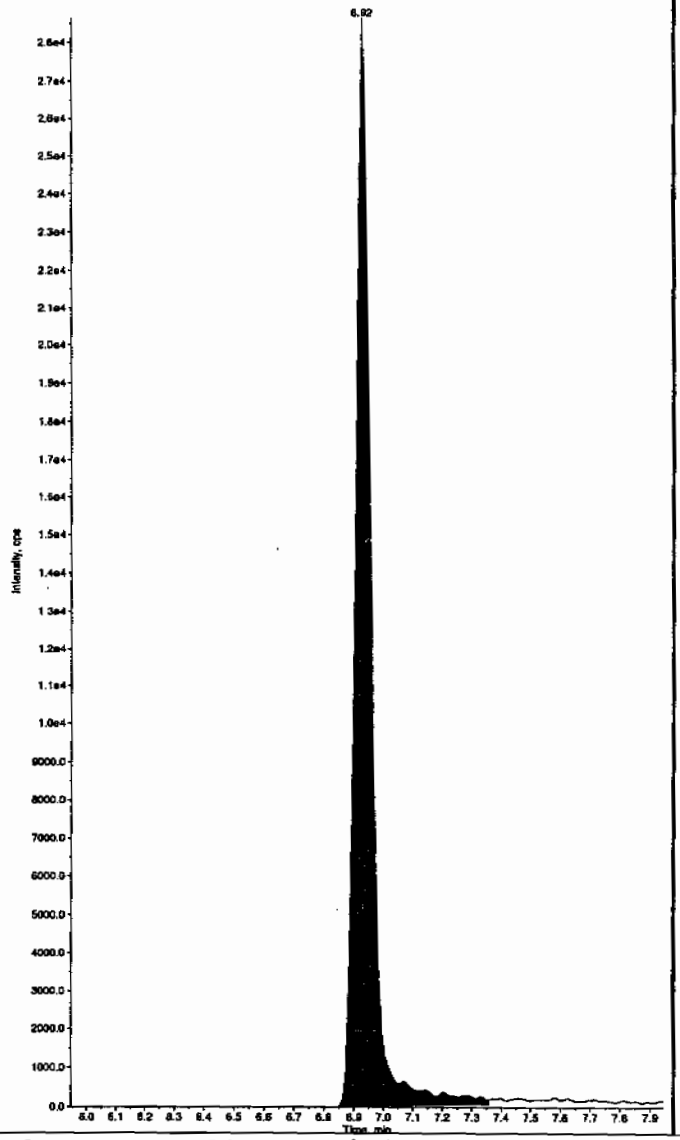
Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010013.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 104. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:11:50 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.92 min
Area: 1.10e+005 counts
Height: 28624.565 cps
Start Time: 6.84 min
End Time: 7.36 min

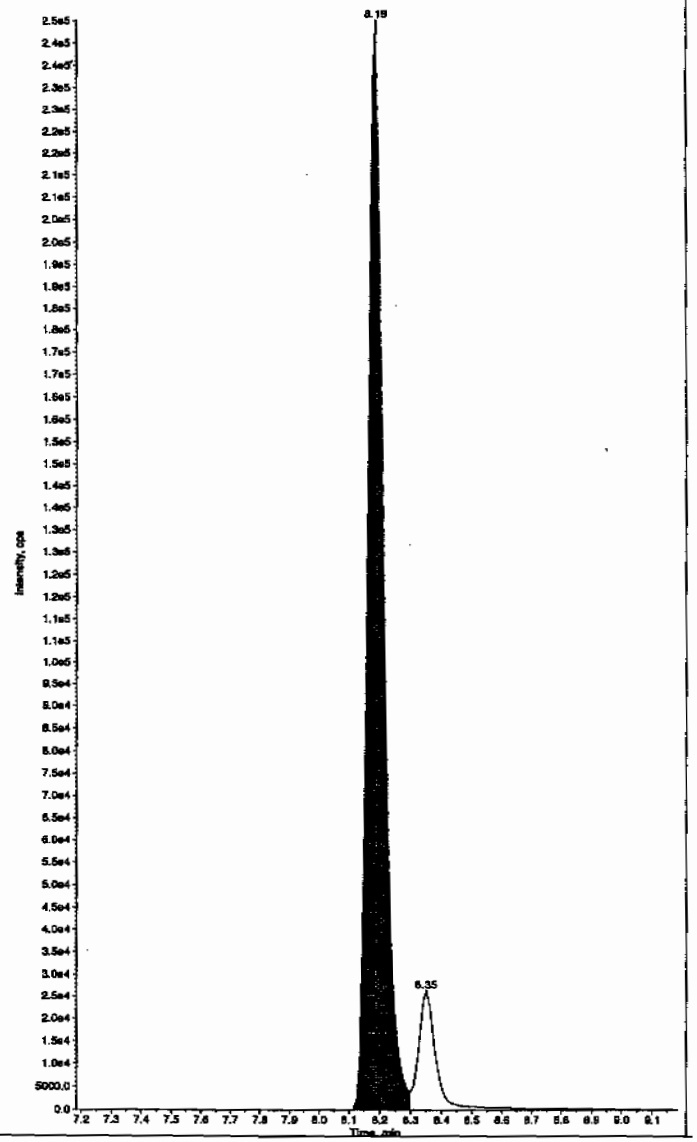


Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010013.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 100. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:11:50 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: 8.19 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.19 min
Area: 8.79e+005 counts
Height: 245160.095 cps
Start Time: 8.09 min
End Time: 8.30 min



Hm 03/04/10

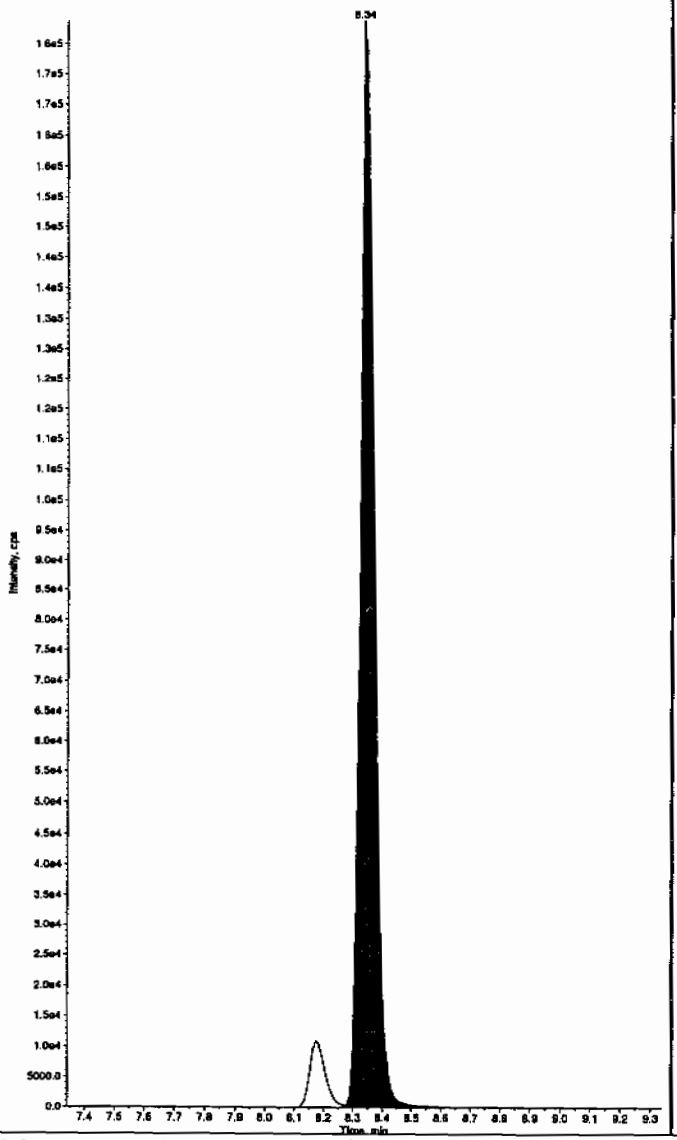
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010013.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 52.9 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:11:50 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.34 min
Area: 6.10e+005 counts
Height: 178867.096 cps
Start Time: 8.27 min
End Time: 8.66 min

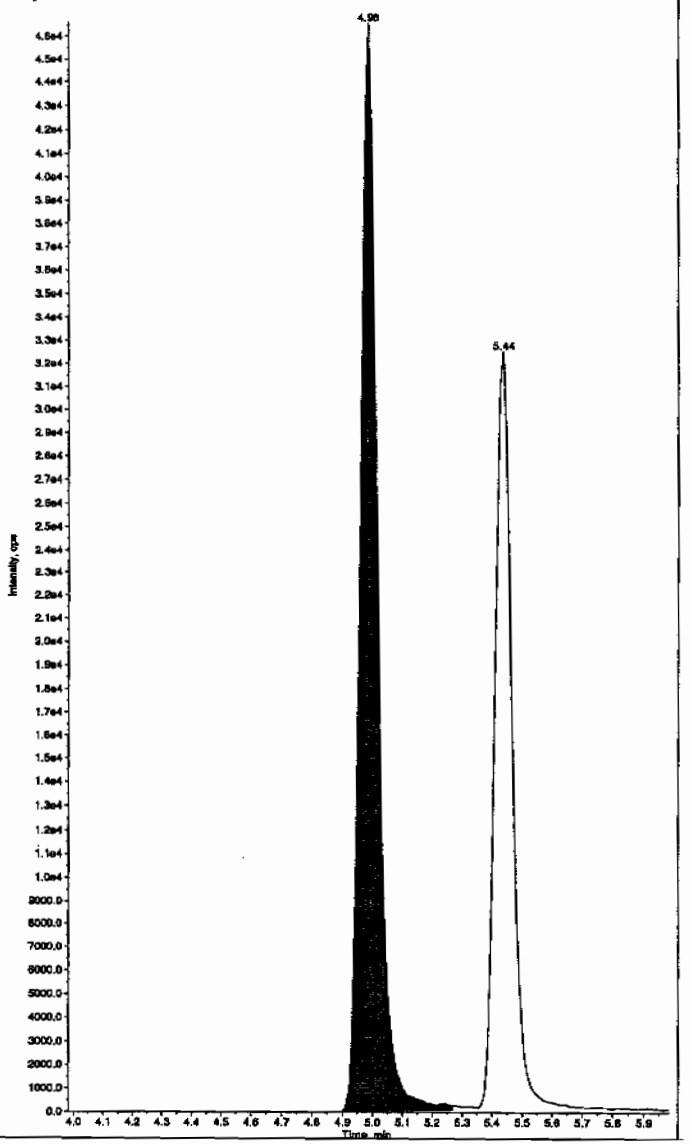


Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010013.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 99.3 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:11:50 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: 4.98 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.98 min
Area: 1.91e+005 counts
Height: 46581.150 cps
Start Time: 4.87 min
End Time: 5.27 min



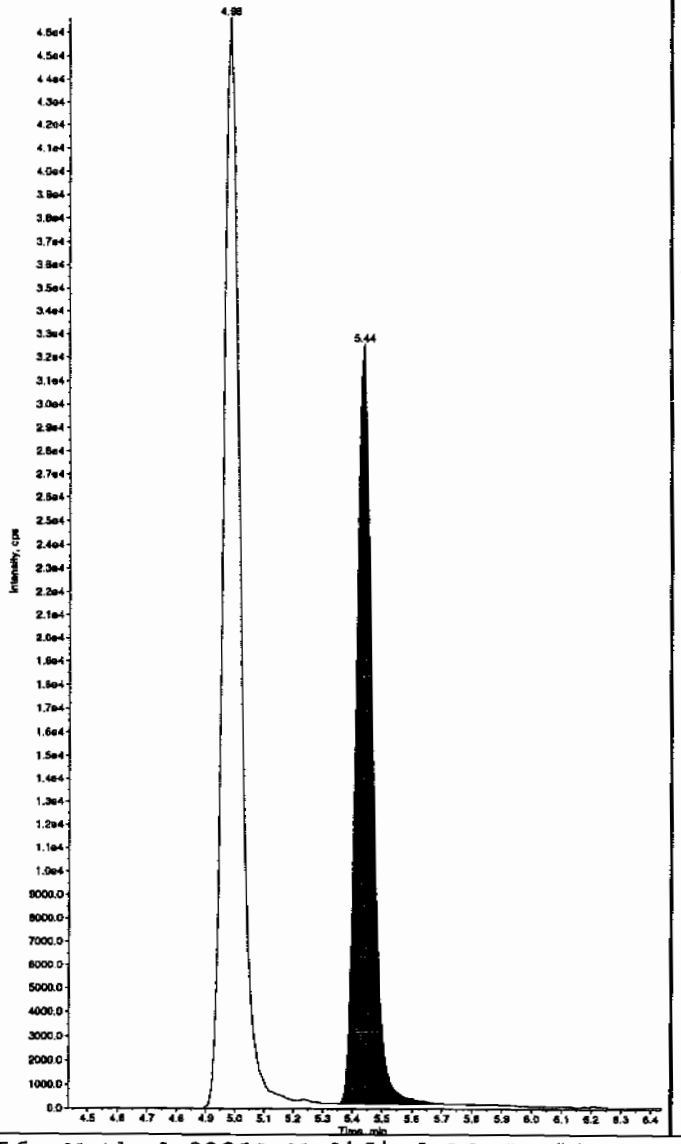
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010013.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 99.6 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:11:50 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: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.44 min
Area: 1.27e+005 counts
Height: 32363.556 cps
Start Time: 5.35 min
End Time: 5.73 min

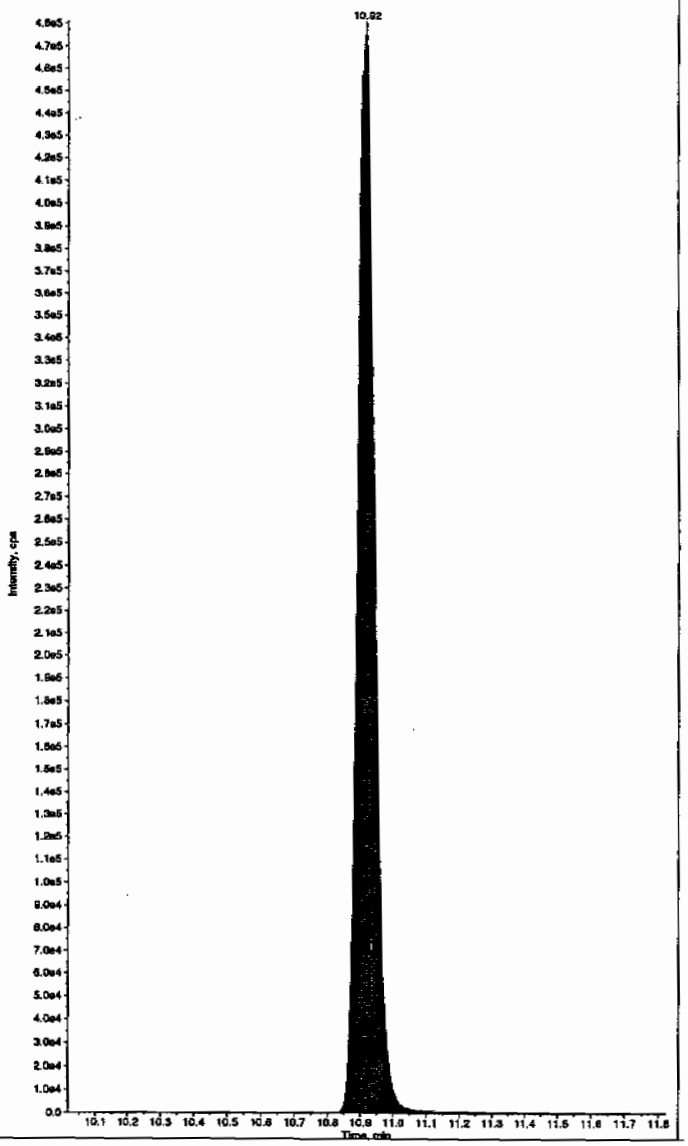


Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010013.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 101. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 12:11:50 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.9 min
Area: 1.76e+006 counts
Height: 480812.347 cps
Start Time: 10.8 min
End Time: 11.2 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010024.wiff

Analysis Date: 01-MAR-10 15:04

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	495	99	
2,6-Diamino-4-nitrotoluene	500	499	100	
3,4-Dinitrotoluene	250	229	92	
3,5-Dinitroaniline	500	513	103	
TATB	500	498	100	
tris(o-cresyl) phosphate	500	500	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%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

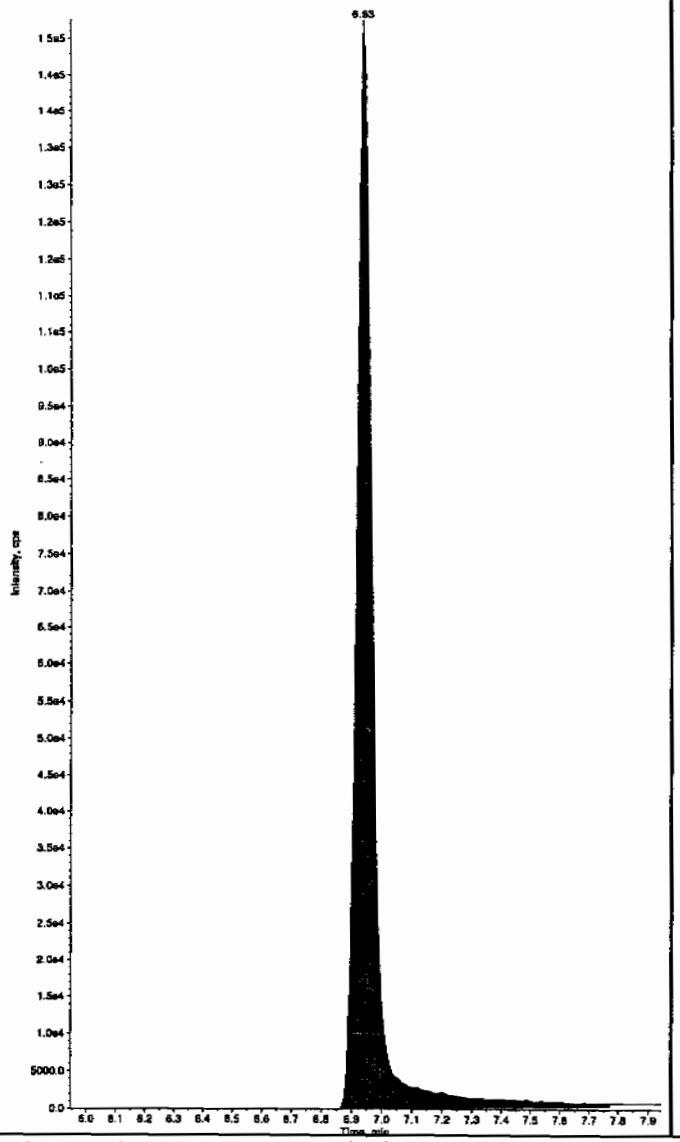
Before Plan 3/3/10

Sample Name: "WXX100301-26CCV" Sample ID: "|1|LER" File: "EXS03010024.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 498. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:04:50 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.93 min
Area: 5.94e+005 counts
Height: 147589.539 cps
Start Time: 6.84 min
End Time: 7.77 min

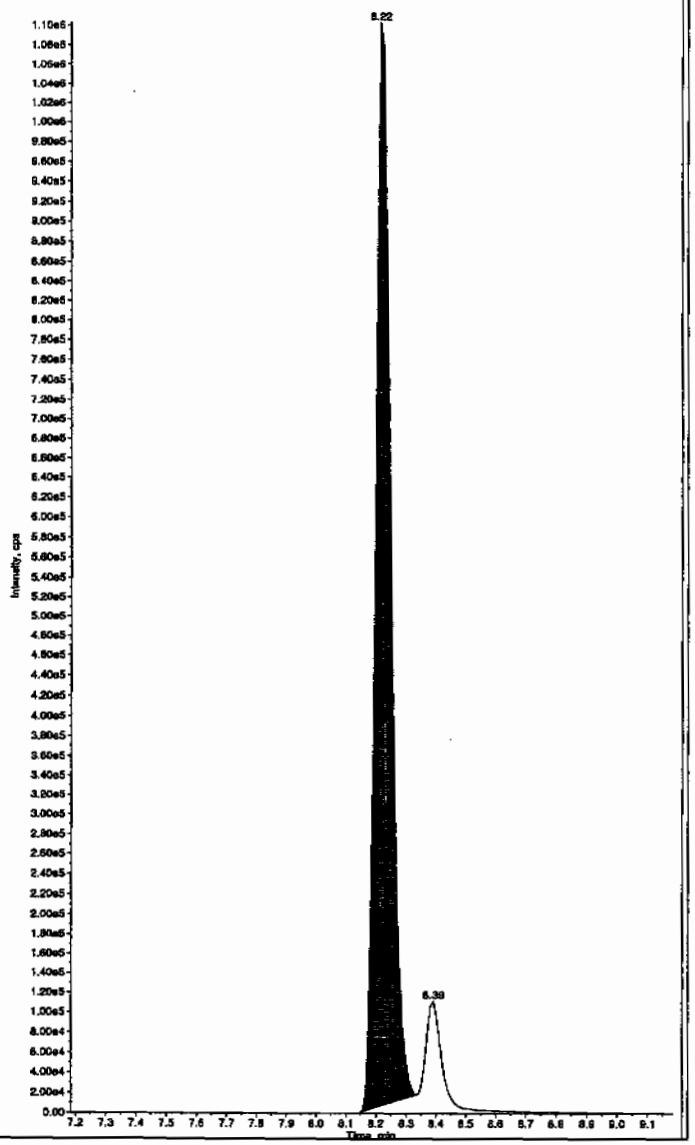


Sample Name: "WXX100301-26CCV" Sample ID: "|1|LER" File: "EXS03010024.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 503. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:04:50 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: 8.19 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.22 min
Area: 3.94e+006 counts
Height: 1095798.828 cps
Start Time: 8.14 min
End Time: 8.34 min



thm 03/04/10

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

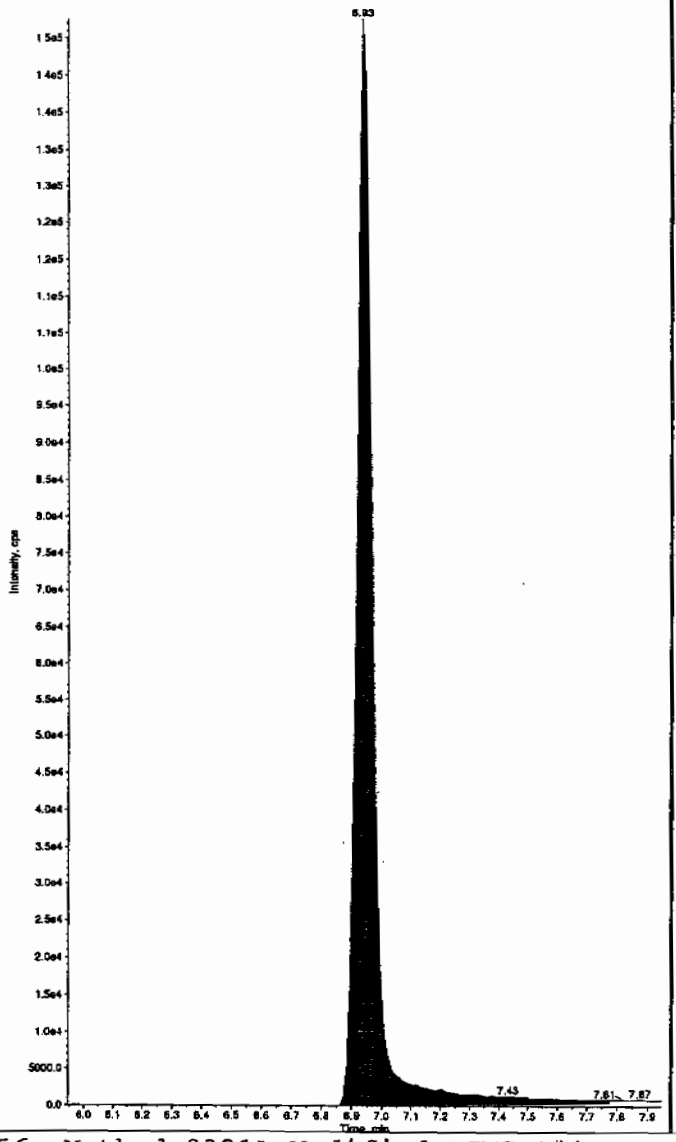
After Run 3/3/10

Sample Name: "WXX100301-25CCV" Sample ID: "|1|LER" File: "EXS03010024.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 498. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:04:50 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.93 min
Area: 5.94e+005 counts
Height: 147589.539 cps
Start Time: 6.84 min
End Time: 7.77 min

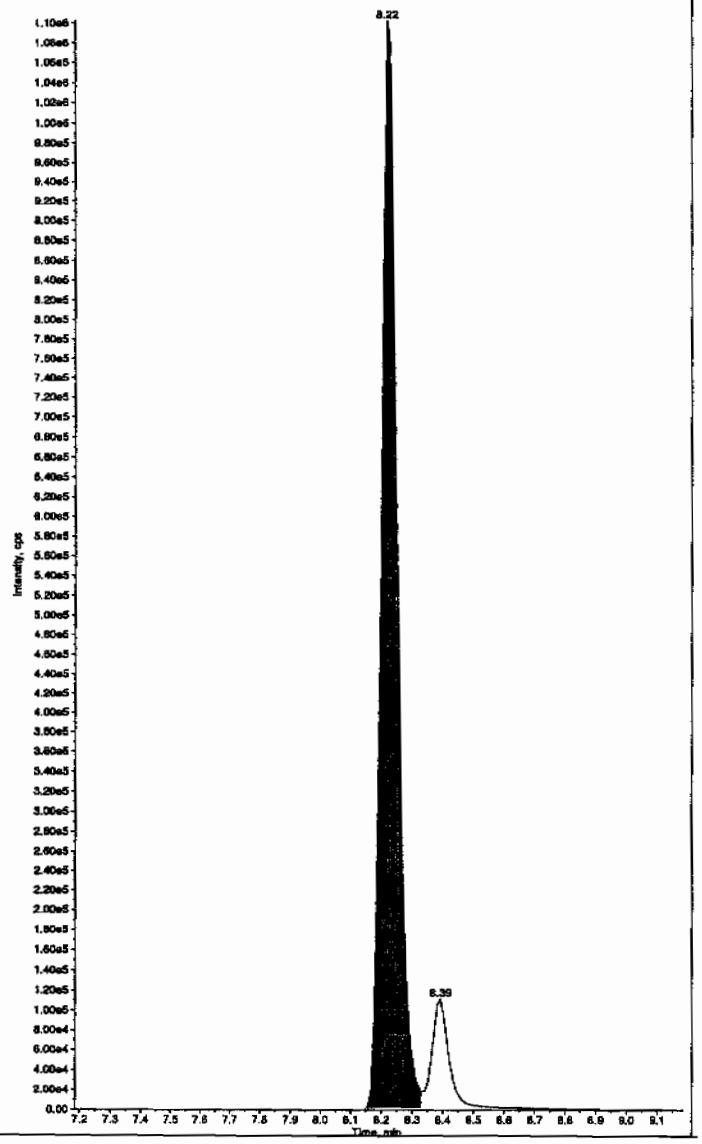


Sample Name: "WXX100301-25CCV" Sample ID: "|1|LER" File: "EXS03010024.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 513. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:04:50 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.19 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.22 min
Area: 4.02e+006 counts
Height: 1121187.984 cps
Start Time: 8.15 min
End Time: 8.33 min



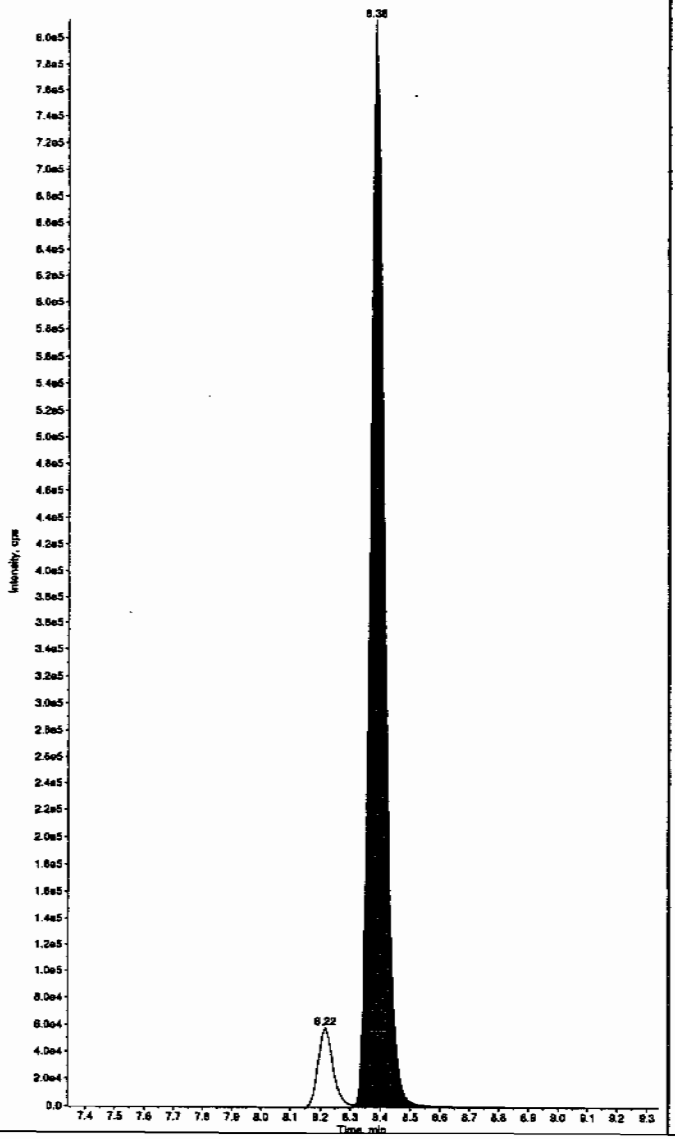
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-26CCV" Sample ID: "|1|LER" File: "EXS03010024.wiff"
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: 229. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:04:50 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.38 min
Area: 2.79e+006 counts
Height: 813807.007 cps
Start Time: 8.31 min
End Time: 8.71 min

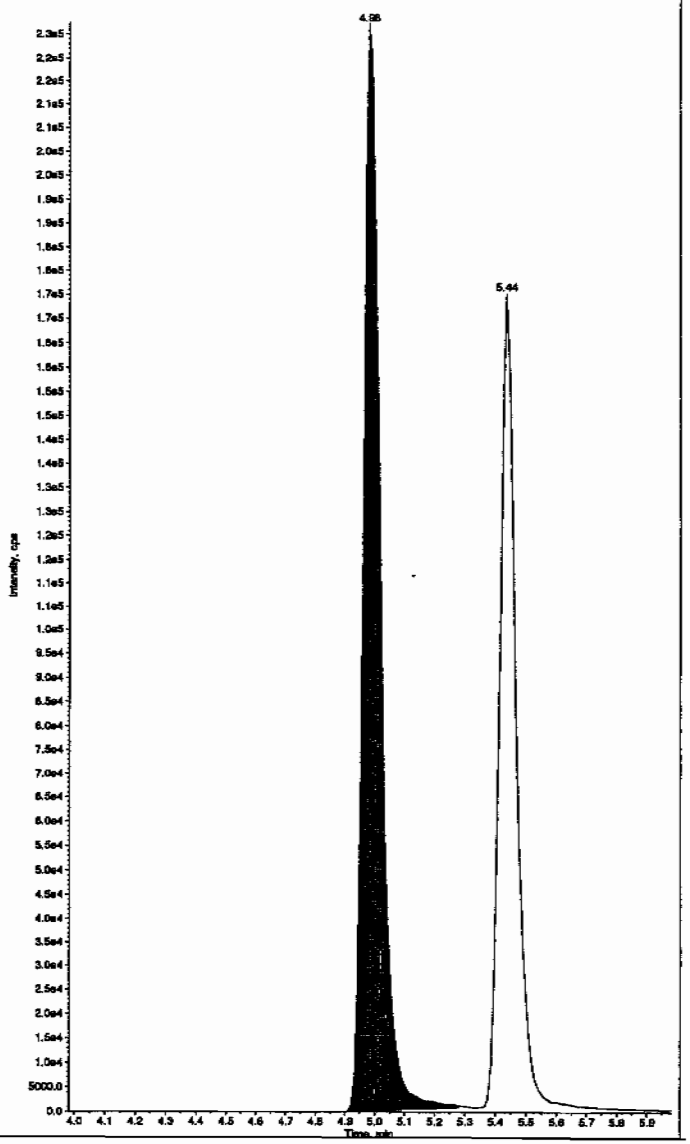


Sample Name: "WXX100301-26CCV" Sample ID: "|1|LER" File: "EXS03010024.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 499. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:04:50 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: 4.98 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.98 min
Area: 9.31e+005 counts
Height: 227229.340 cps
Start Time: 4.90 min
End Time: 5.28 min



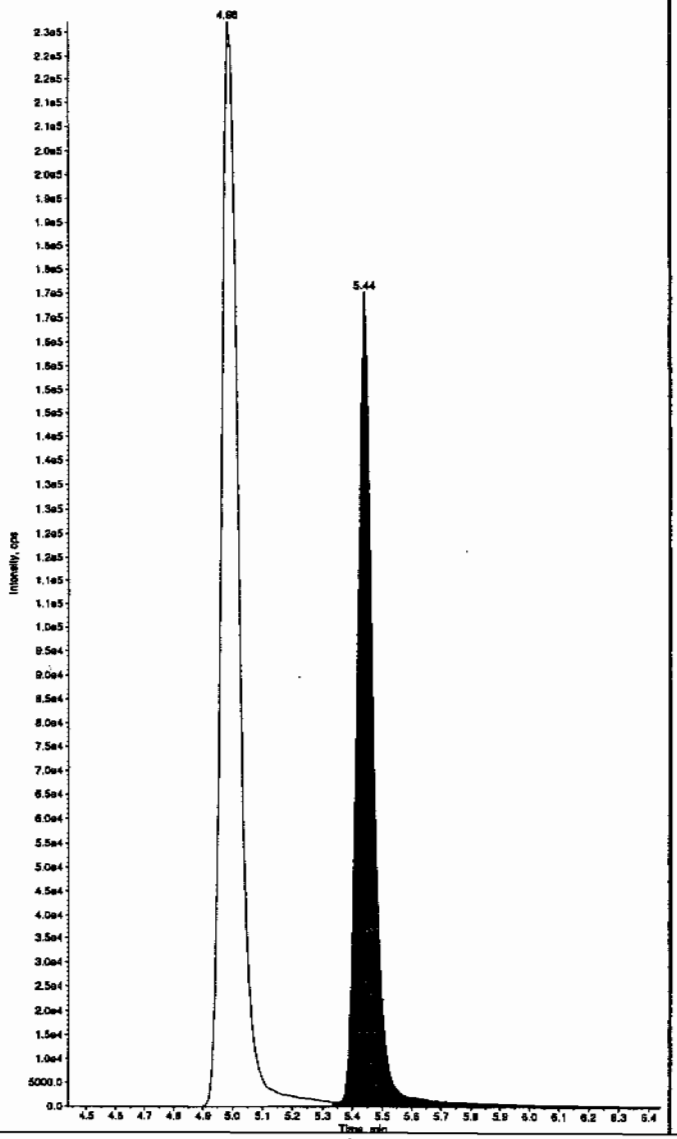
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-26CCV" Sample ID: "[1][LER" File: "EXS03010024.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "156.0/45.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 495. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:04:50 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: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.44 min
Area: 6.57e+005 counts
Height: 170321.594 cps
Start Time: 5.33 min
End Time: 6.07 min

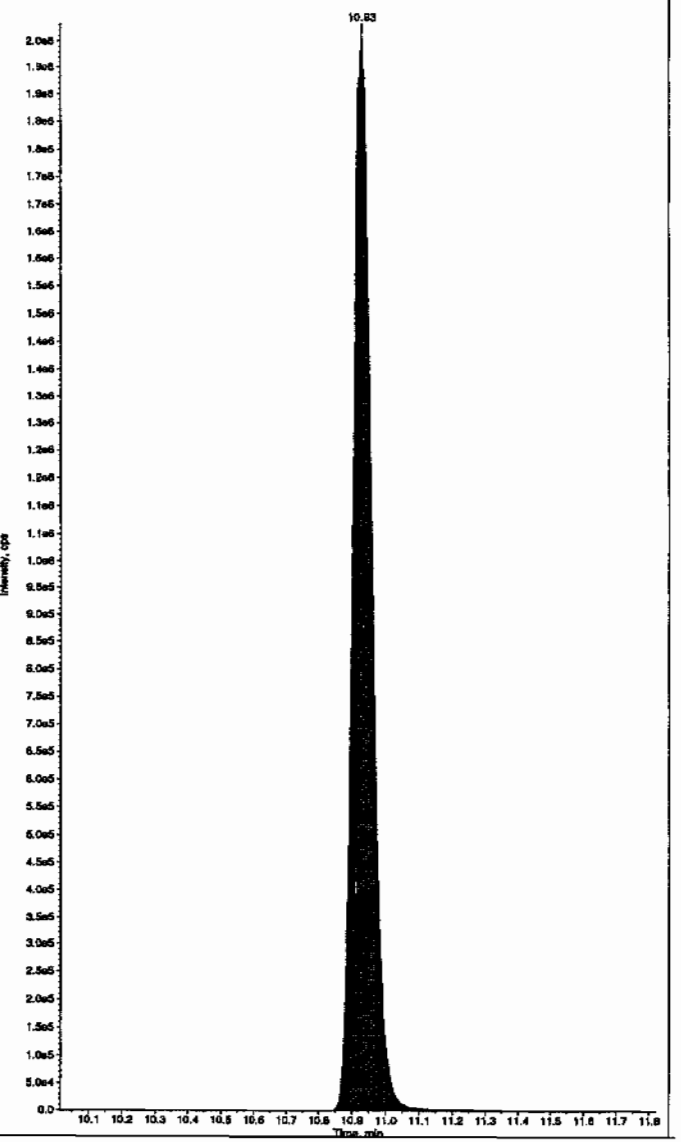


Sample Name: "WXX100301-26CCV" Sample ID: "[1][LER" File: "EXS03010024.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 500. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:04:50 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.9 min
Area: 7.81e+006 counts
Height: 1982946.289 cps
Start Time: 10.8 min
End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010026.wiff

Analysis Date: 01-MAR-10 15:36

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	101	101	
3,4-Dinitrotoluene	50	52.7	105	
3,5-Dinitroaniline	100	96.2	96	
TATB	100	102	102	
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%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

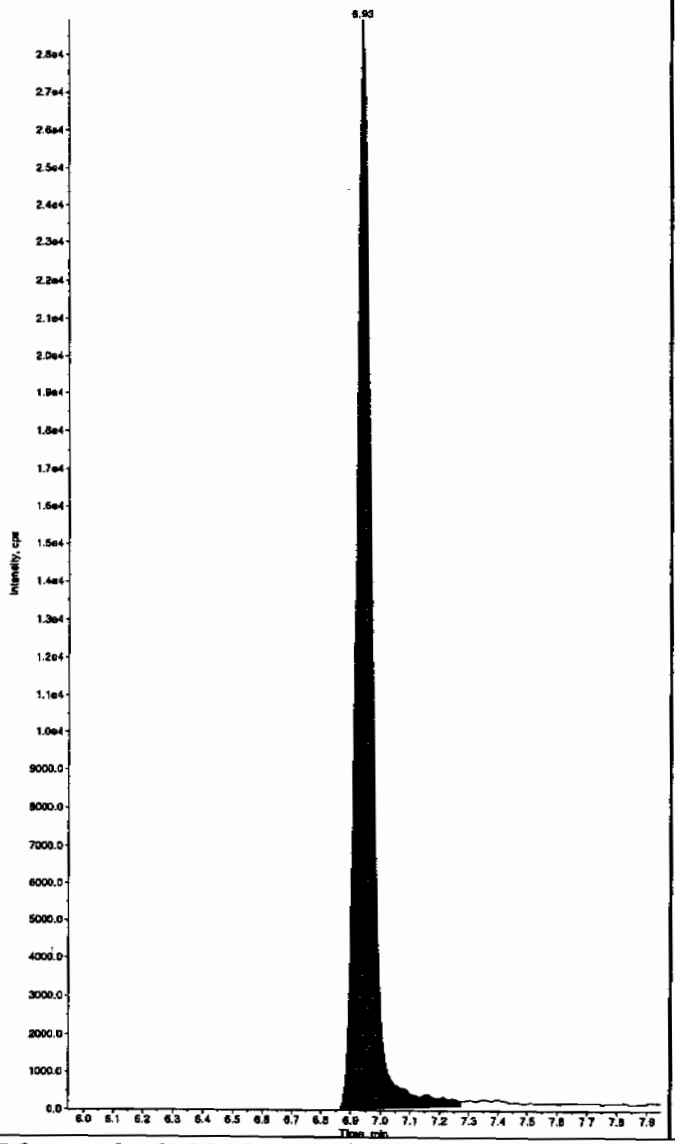
RCL 3/3/10

Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010026.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 102. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:36:24 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.93 min
Area: 1.08e+005 counts
Height: 28924.082 cps
Start Time: 6.85 min
End Time: 7.28 min

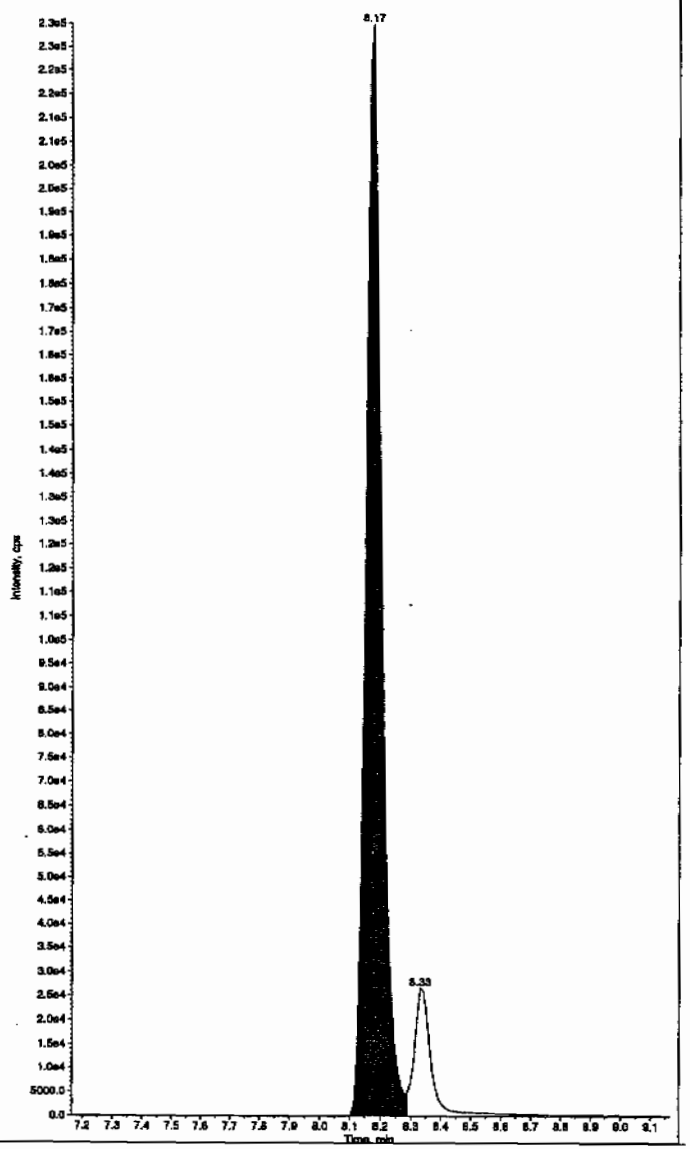


Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010026.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 96.2 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:36:24 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: 8.16 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.17 min
Area: 8.68e+005 counts
Height: 230011.292 cps
Start Time: 8.06 min
End Time: 8.29 min



HMM 03/04/10

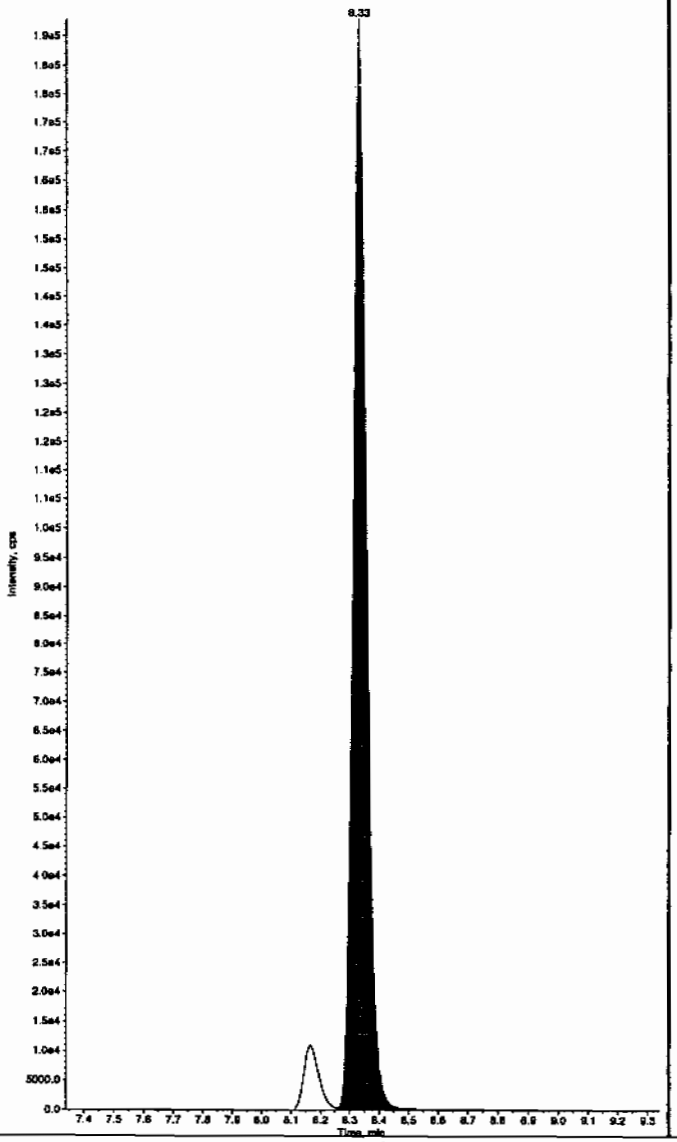
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010026.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 52.7 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:36:24 PM

Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.33 min
Area: 6.07e+005 counts
Height: 187778.061 cps
Start Time: 8.26 min
End Time: 8.67 min

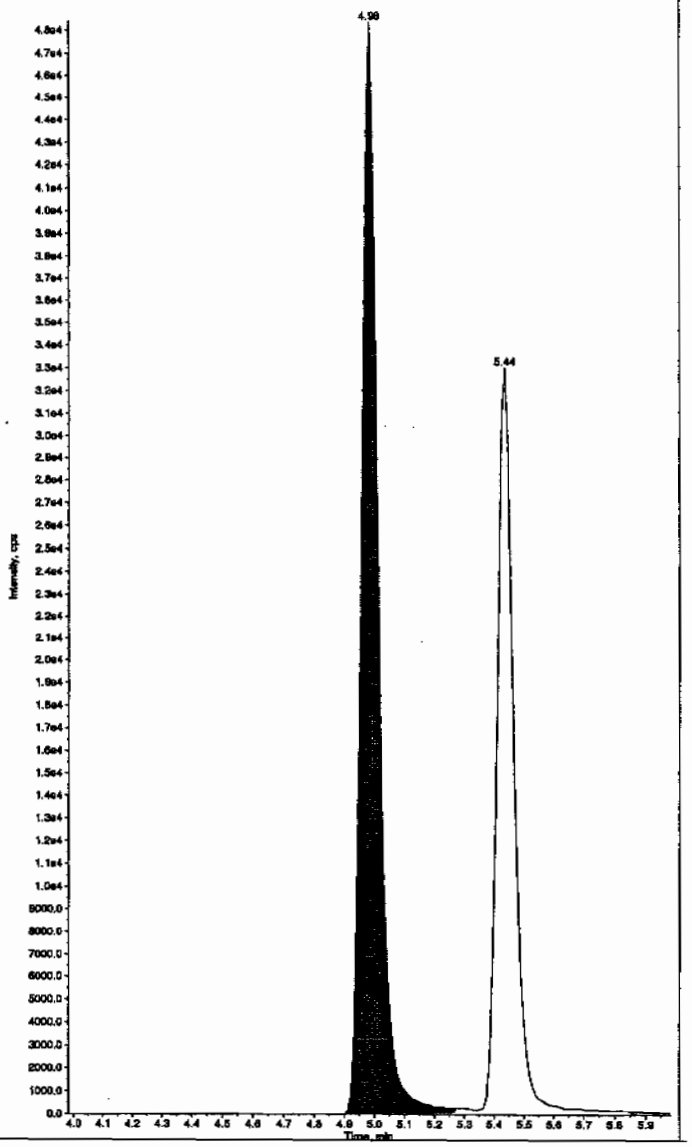


Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010026.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 101. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:36:24 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: 4.98 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.98 min
Area: 1.95e+005 counts
Height: 48368.607 cps
Start Time: 4.89 min
End Time: 5.27 min



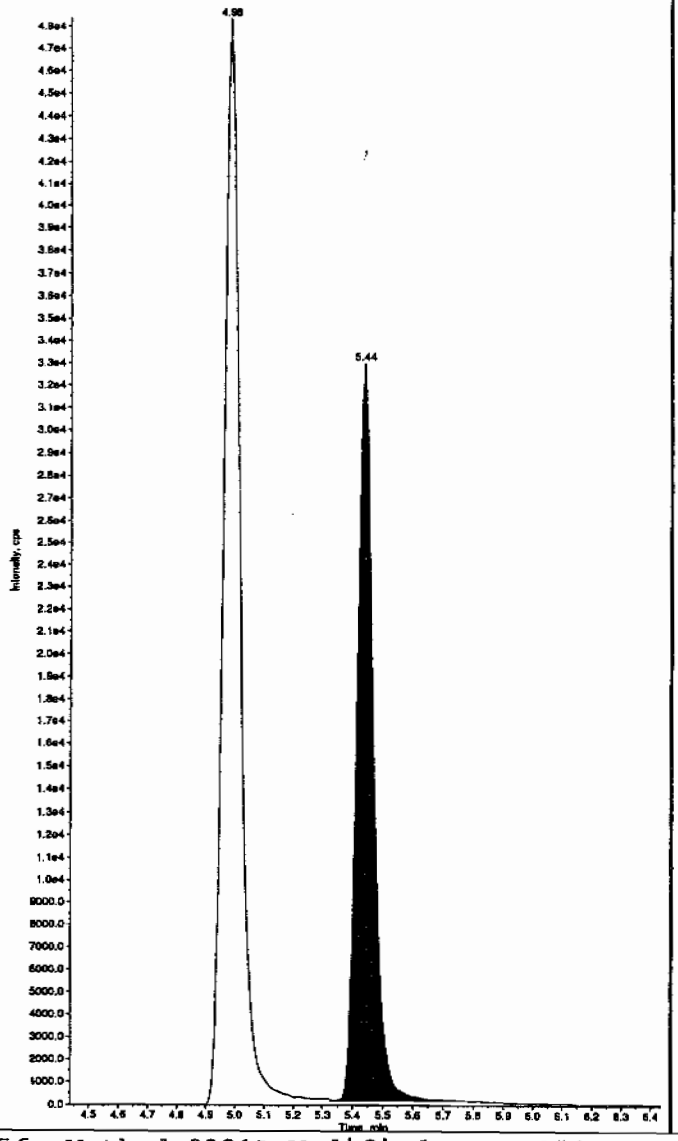
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010026.wiff"
Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 99.7 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:36:24 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: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.44 min
Area: 1.27e+005 counts
Height: 32860.054 cps
Start Time: 5.33 min
End Time: 5.73 min

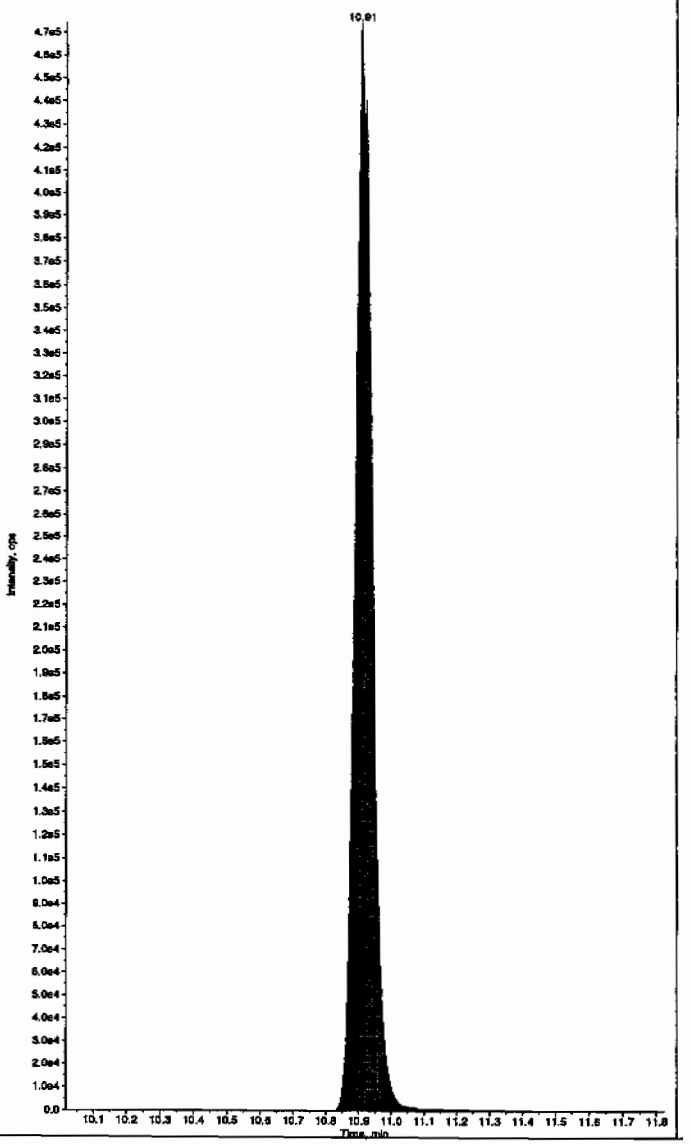


Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010026.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 100. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 3:36:24 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.9 min
Area: 1.75e+006 counts
Height: 474479.401 cps
Start Time: 10.8 min
End Time: 11.3 min



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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03010037.wiff

Analysis Date: 01-MAR-10 18:29

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	500	484	97	
2,4-Diamino-6-nitrotoluene	500	503	101	
2,6-Diamino-4-nitrotoluene	500	525	105	
3,4-Dinitrotoluene	250	235	94	
3,5-Dinitroaniline	500	501	100	
TATB	500	493	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 70-130%
OtherTarget Analytes 80-120%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

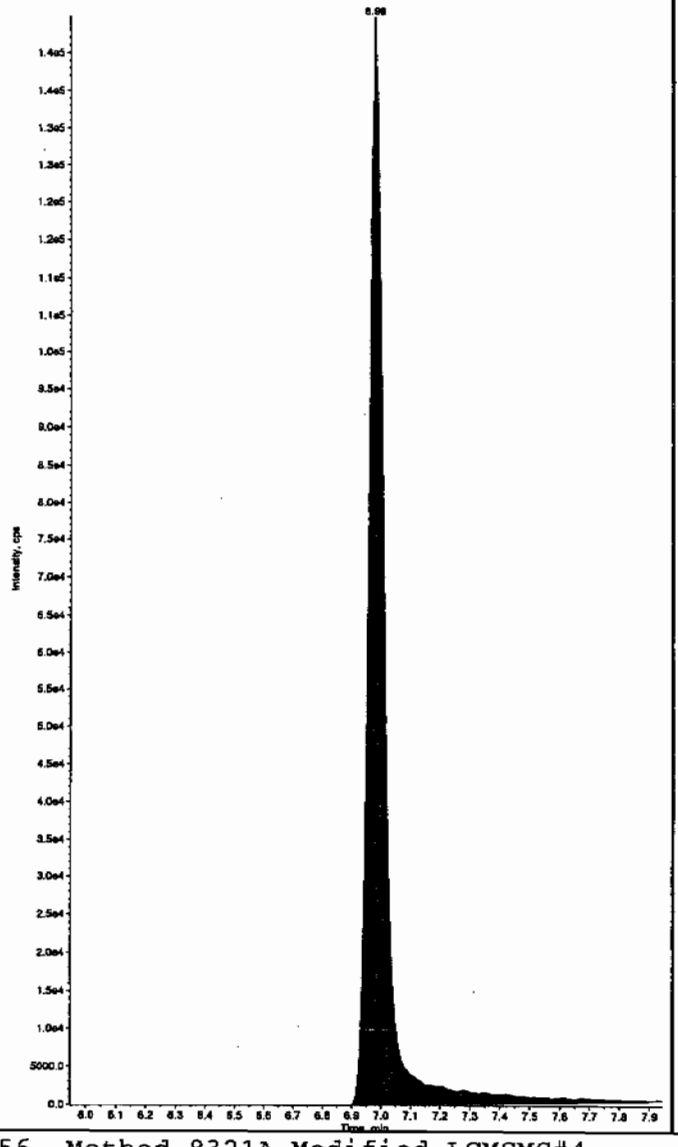
Before Run 3/3/10

Sample Name: "WXX100301-26CCV" Sample ID: "[1]LER" File: "EXS03010037.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 493. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:29:39 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.98 min
Area: 5.89e+005 counts
Height: 144896.042 cps
Start Time: 6.88 min
End Time: 7.90 min

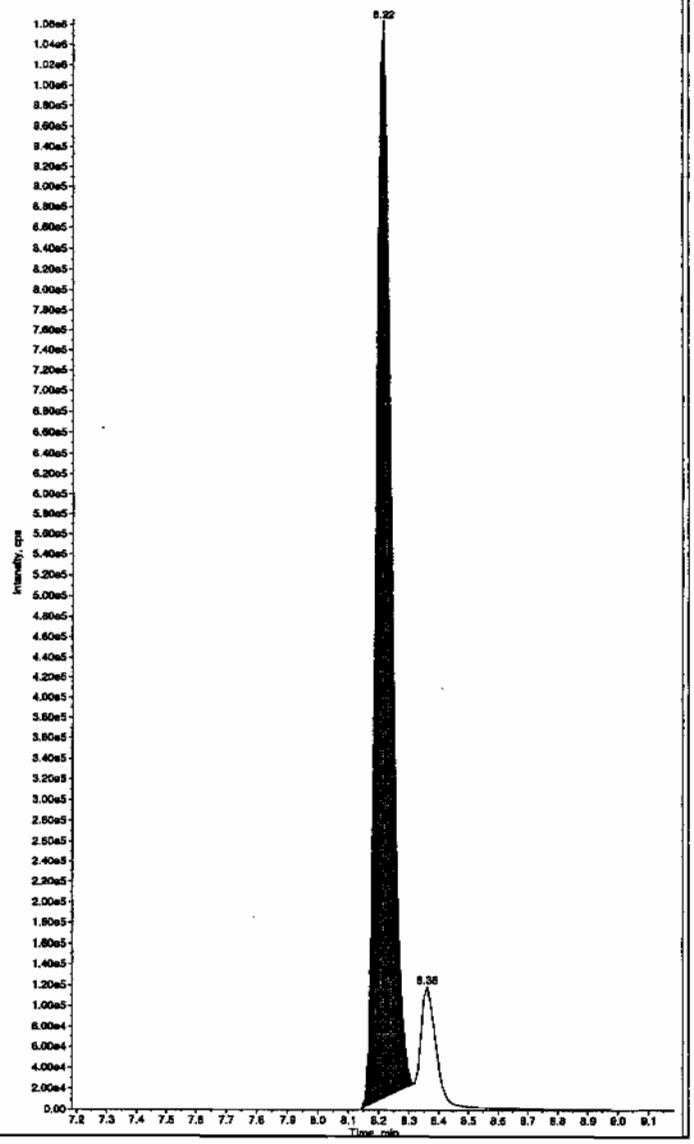


Sample Name: "WXX100301-26CCV" Sample ID: "[1]LER" File: "EXS03010037.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 486. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:29:39 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: 8.19 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.22 min
Area: 3.82e+006 counts
Height: 1053230.835 cps
Start Time: 8.14 min
End Time: 8.32 min



Hmm 03/04/10

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

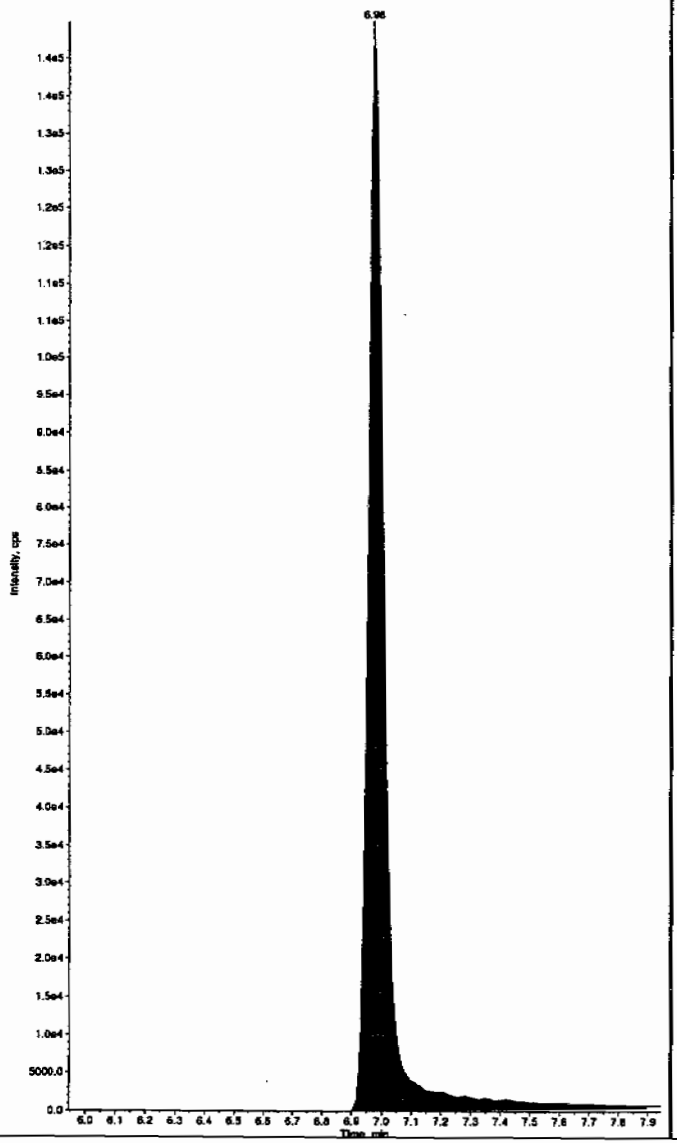
after Run 3/3/10

Sample Name: "WXX100301-26CCV" Sample ID: "[1]LER" File: "EXS03010037.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 493. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:29:39 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.98 min
Area: 5.89e+005 counts
Height: 144896.042 cps
Start Time: 6.88 min
End Time: 7.90 min

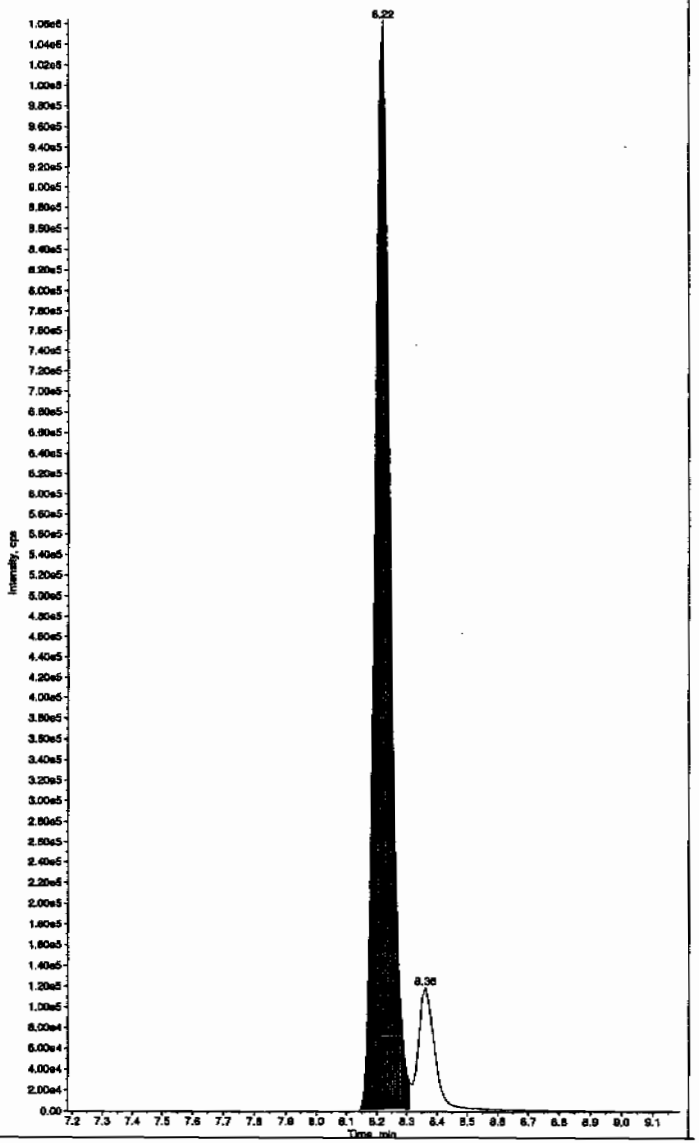


Sample Name: "WXX100301-26CCV" Sample ID: "[1]LER" File: "EXS03010037.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 501. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:29:39 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.19 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.21 min
Area: 3.92e+006 counts
Height: 1067273.537 cps
Start Time: 8.14 min
End Time: 8.31 min



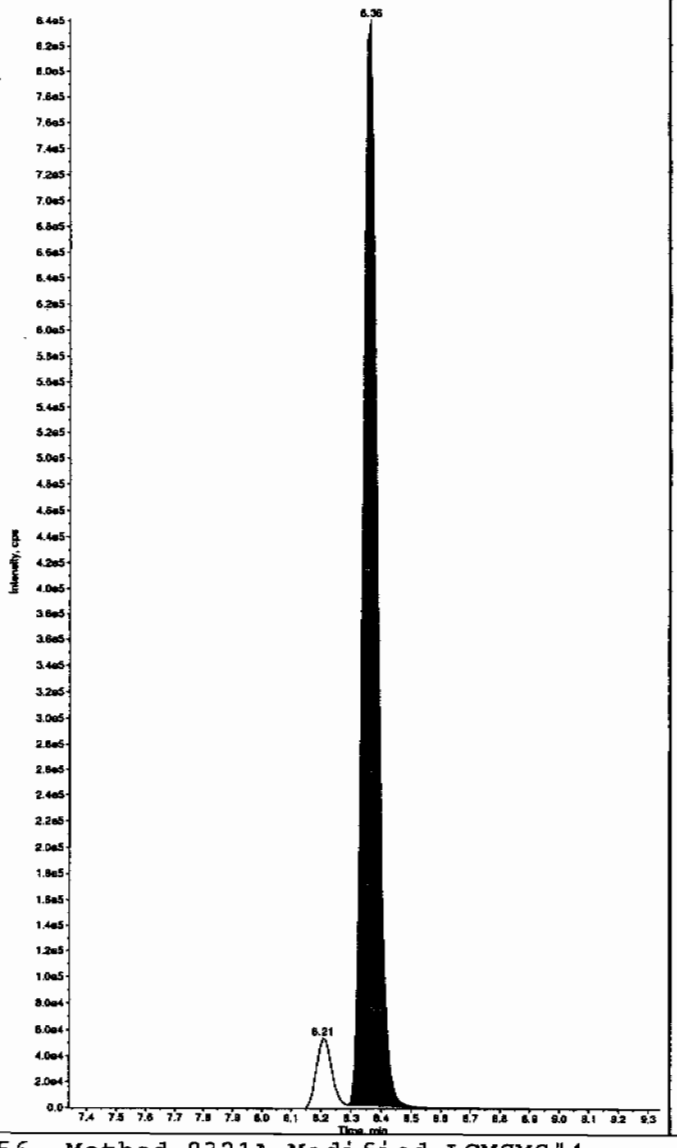
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-26CCV" Sample ID: "[1]LER" File: "EXS03010037.wiff"
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: 235. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:29:39 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.36 min
Area: 2.36e+006 counts
Height: 339577.393 cps
Start Time: 8.29 min
End Time: 8.56 min

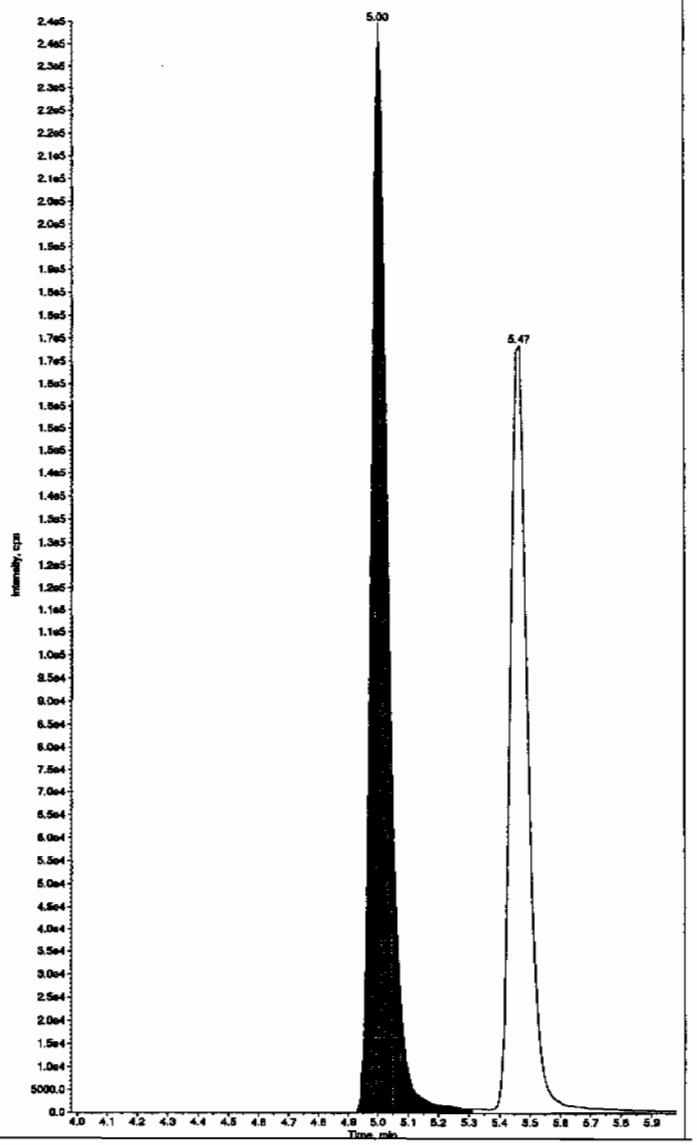


Sample Name: "WXX100301-26CCV" Sample ID: "[1]LER" File: "EXS03010037.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 525. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:29:39 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: 4.98 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.00 min
Area: 9.79e+005 counts
Height: 239931.122 cps
Start Time: 4.91 min
End Time: 5.31 min



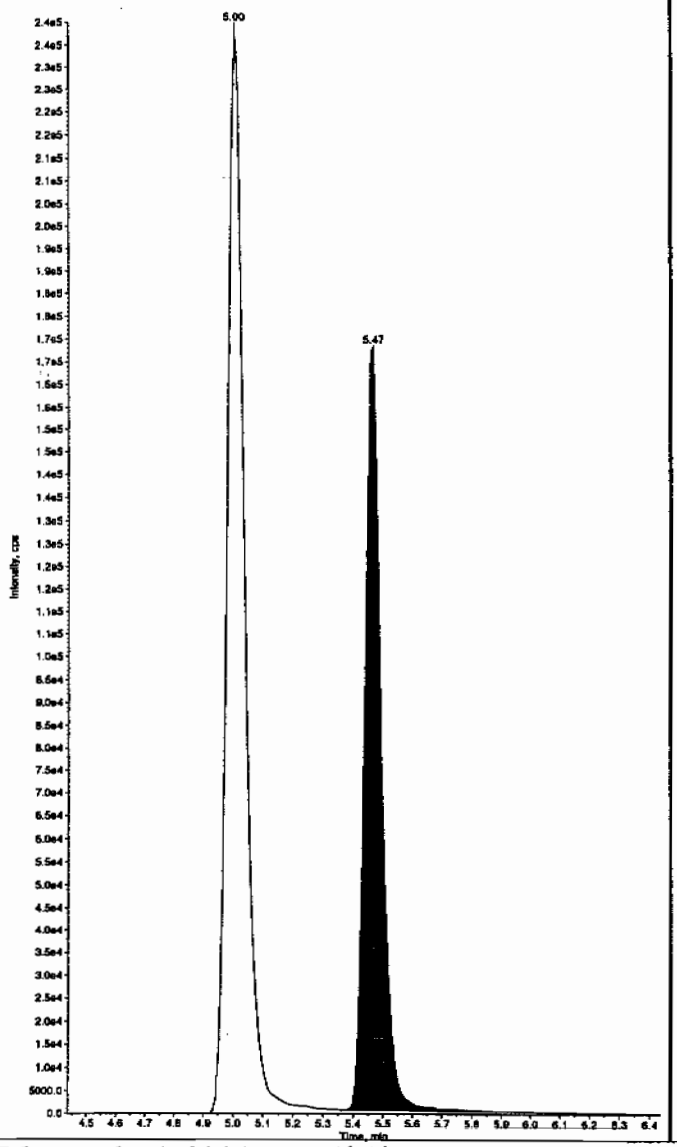
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-26CCV" Sample ID: "[1]LER" File: "EXS03010037.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 503. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:29:39 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: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.47 min
Area: 6.67e+005 counts
Height: 167895.447 cps
Start Time: 5.36 min
End Time: 5.85 min

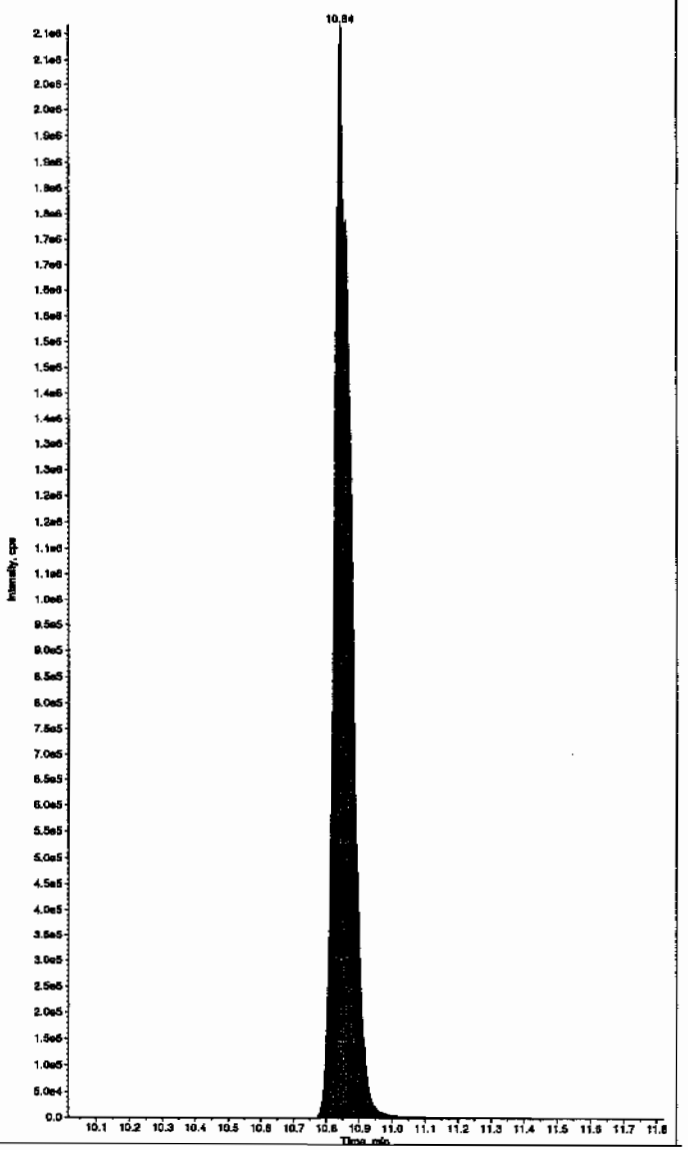


Sample Name: "WXX100301-26CCV" Sample ID: "[1]LER" File: "EXS03010037.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 484. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:29:39 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 7.58e+006 counts
Height: 2117050.049 cps
Start Time: 10.7 min
End Time: 11.2 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): 10-1703

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03010039.wiff

Analysis Date: 01-MAR-10 19:01

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	109	109	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	51.7	103	
3,5-Dinitroaniline	100	93.9	94	
TATB	100	103	103	
tris(o-cresyl) phosphate	100	101	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 50-150%
OtherTarget Analytes 70-130%
Column used to flag Recovery outside of Limits
* Value outside of Recovery Limits

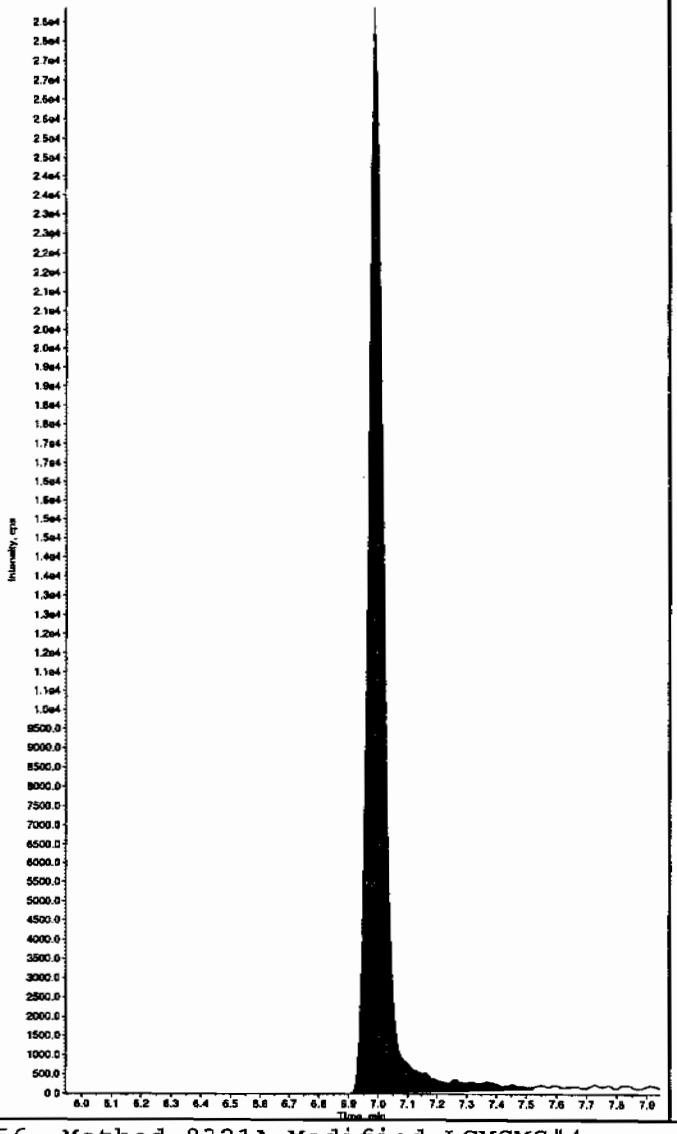
Before Lan 3/3/10

Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010039.wiff"
Peak Name: "TATB" Mass(as): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 103. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 7:01:13 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.99 min
Area: 1.10e+005 counts
Height: 28370.554 cps
Start Time: 6.89 min
End Time: 7.52 min

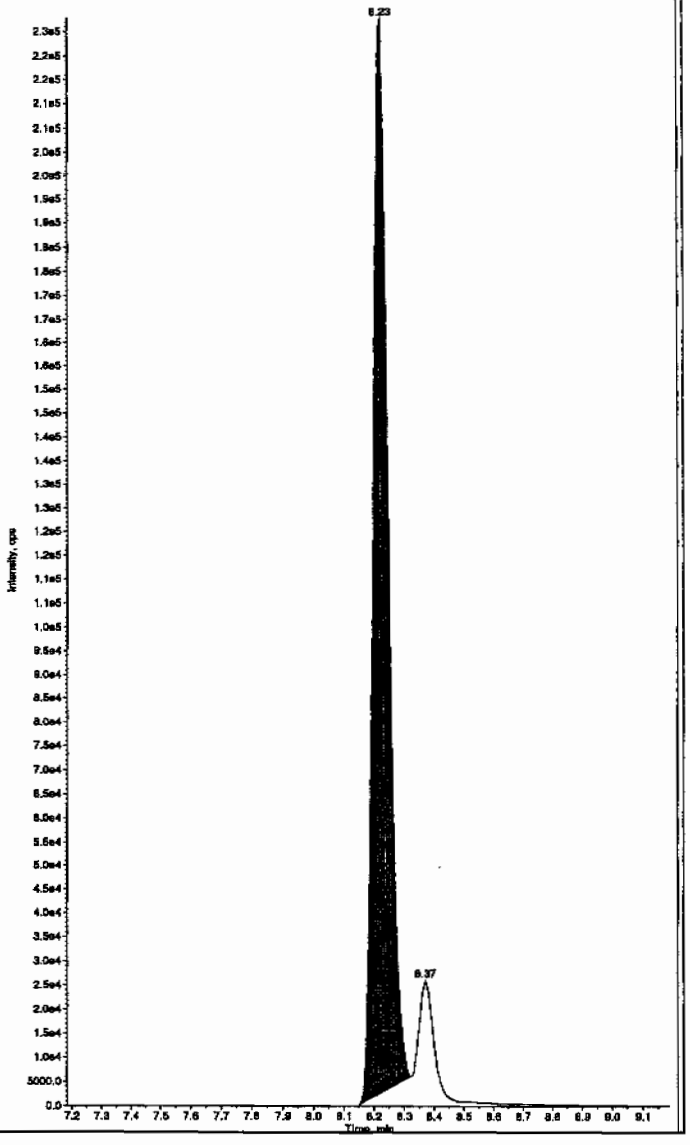


Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010039.wiff"
Peak Name: "35-Dinitroaniline" Mass(as): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 90.5 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 7:01:13 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: 8.19 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.23 min
Area: 8.02e+005 counts
Height: 225071.579 cps
Start Time: 8.15 min
End Time: 8.32 min



Hmm 03/04/10

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

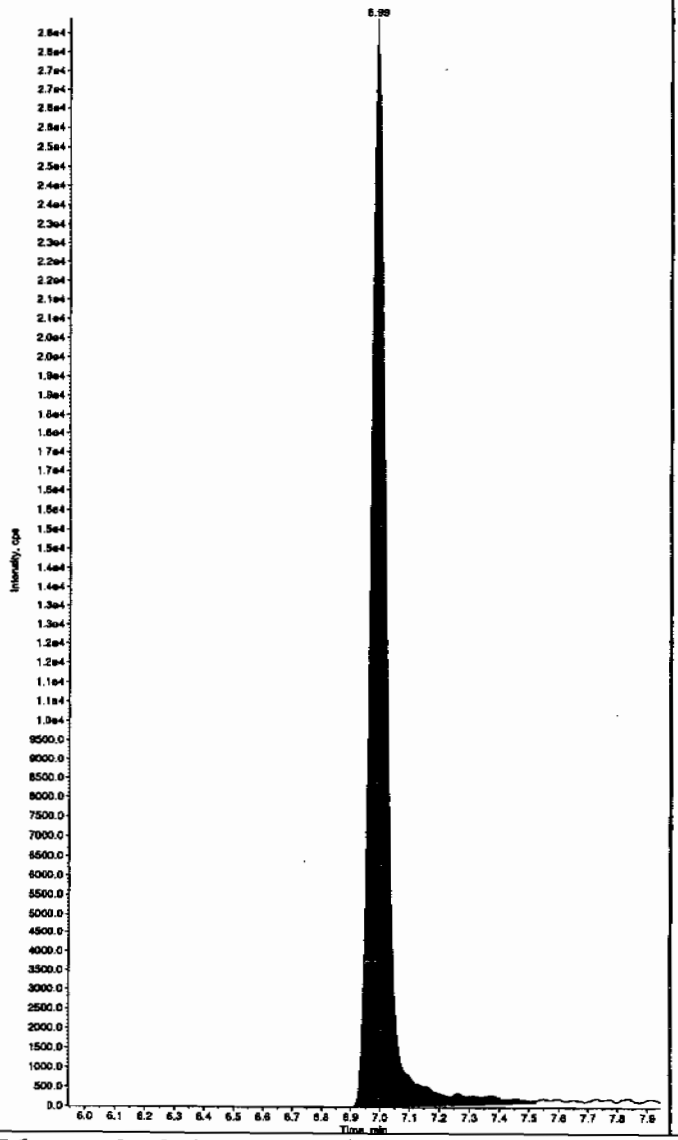
after Lan 3/3/10

Sample Name: "WXX100301-27CRI" Sample ID: "|1|LER" File: "EXS03010039.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 103. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 7:01:13 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.99 min
Area: 1.10e+005 counts
Height: 28370.554 cps
Start Time: 6.89 min
End Time: 7.52 min

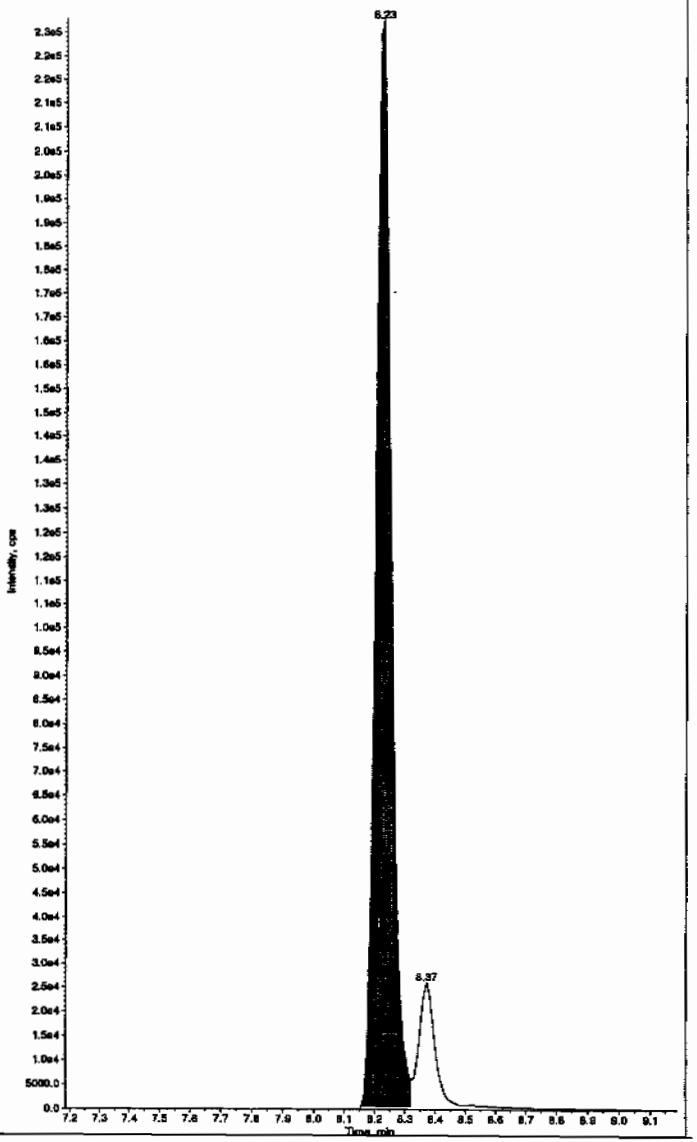


Sample Name: "WXX100301-27CRI" Sample ID: "|1|LER" File: "EXS03010039.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 93.9 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 7:01:13 PM

Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.19 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 8.22 min
Area: 8.29e+005 counts
Height: 231271.689 cps
Start Time: 8.15 min
End Time: 8.32 min

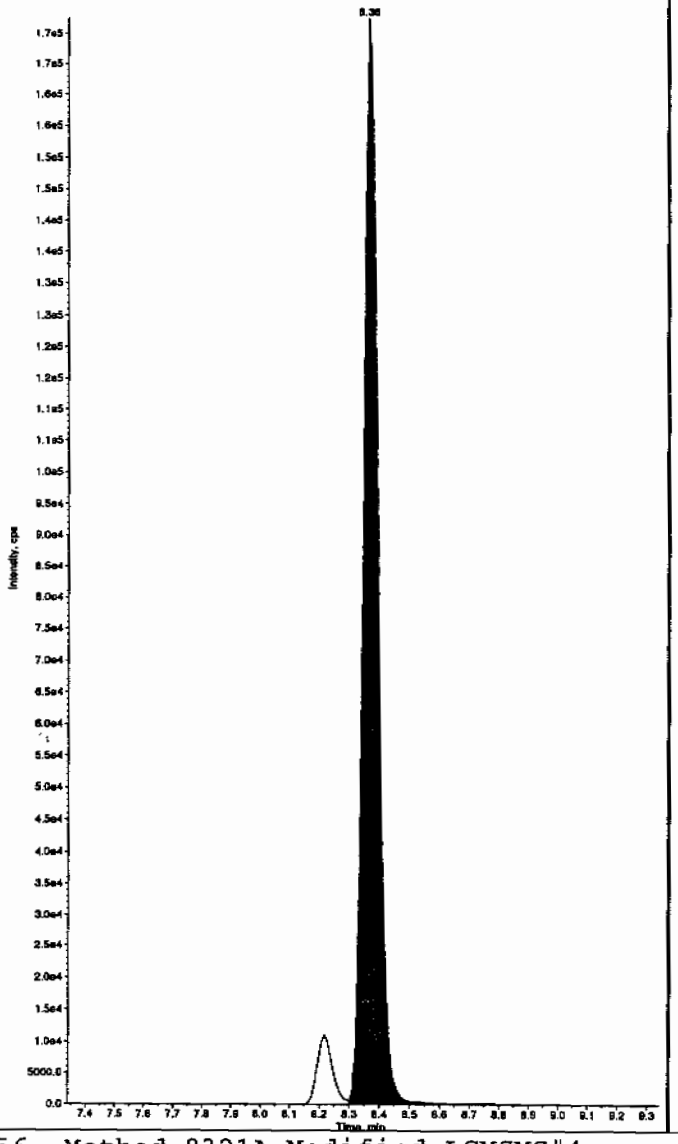


Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010039.wiff"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 50.0 ng/mL
Calculated Conc: 51.7 ng/mL
Acq. Date: 3/1/2010
Acq. Time: 7:01:13 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.36 min
Area: 5.95e+005 counts
Height: 172563.049 cps
Start Time: 8.30 min
End Time: 8.68 min

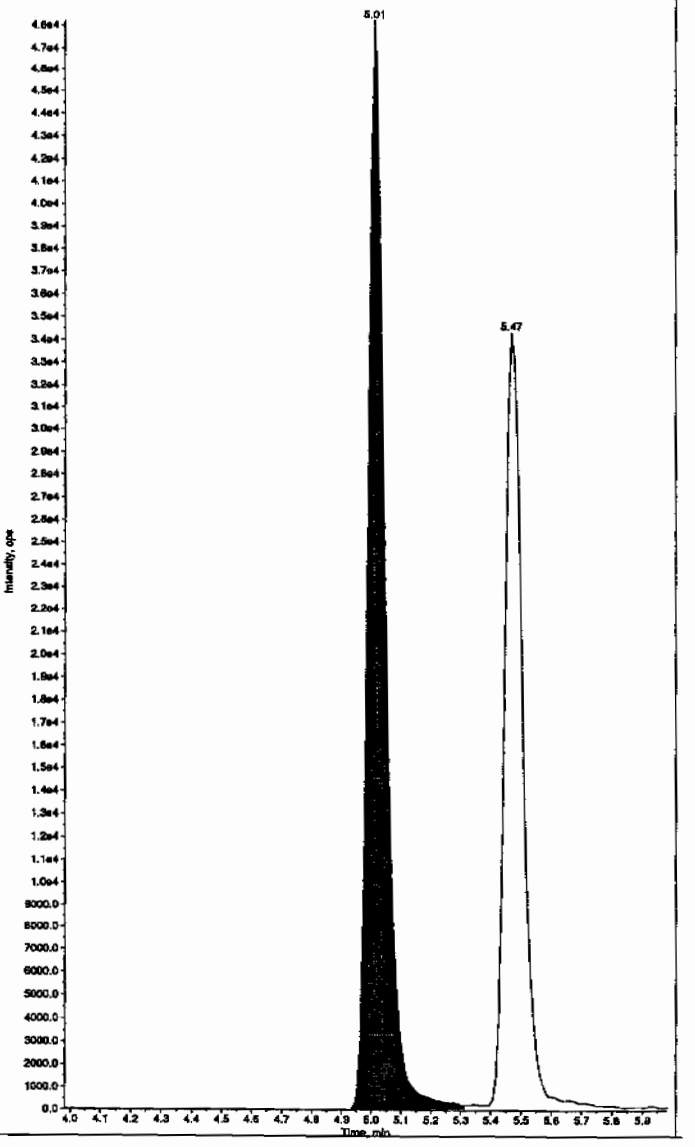


Sample Name: "WXX100301-27CRI" Sample ID: "[1]LER" File: "EXS03010039.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 103. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 7:01:13 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: 4.98 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.01 min
Area: 1.99e+005 counts
Height: 48209.217 cps
Start Time: 4.92 min
End Time: 5.31 min



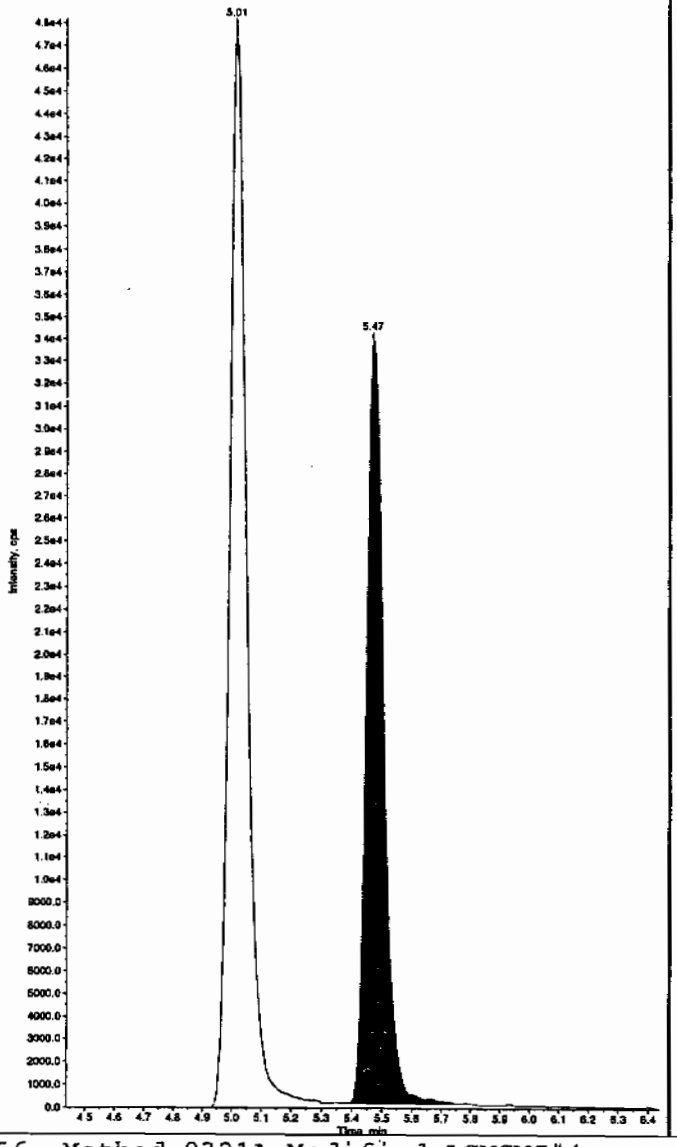
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100301-27CRI" Sample ID: "|1|LER" File: "EXS03010039.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 109. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 7:01:13 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: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.47 min
Area: 1.40e+005 counts
Height: 34102.001 cps
Start Time: 5.38 min
End Time: 5.76 min

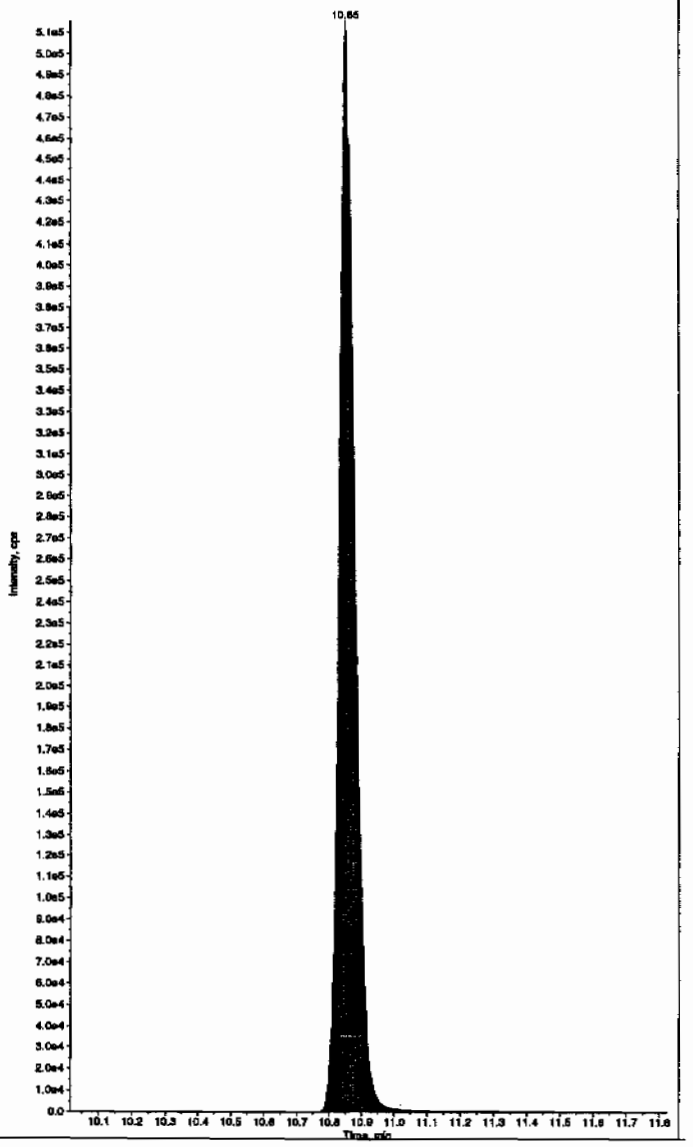


Sample Name: "WXX100301-27CRI" Sample ID: "|1|LER" File: "EXS03010039.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 101. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 7:01:13 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.9 min
Area: 1.76e+006 counts
Height: 515516.296 cps
Start Time: 10.8 min
End Time: 11.1 min



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

QUALITY CONTROL DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 952041

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 1202040457

Sample Amount 2

Moisture:

Amount Units g

Date Received: 11-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311013a

Date Analyzed: 11-MAR-10 16:38

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 =

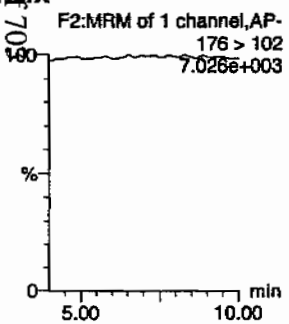
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

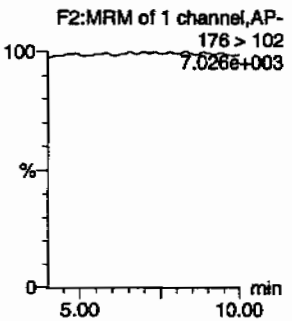
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311013a
Date: 11-Mar-2010
Time: 16:38:04
ID: 1202040457 | LANL | 952043 | Solid | MB | 2 |
Vial: 2:1,A

MJP 3/12/10

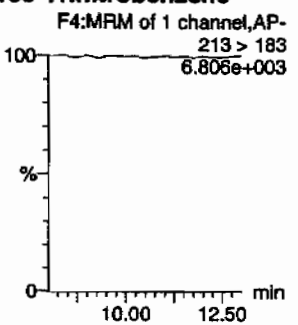
HMX



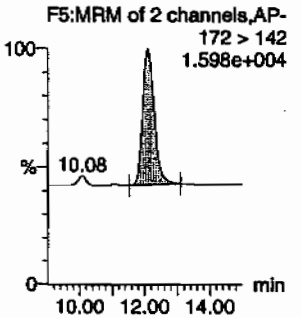
RDX



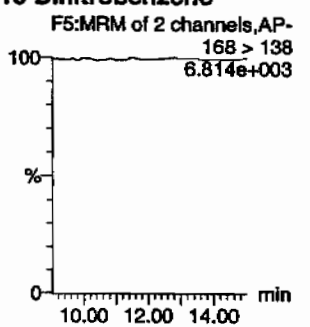
135-Trinitrobenzene



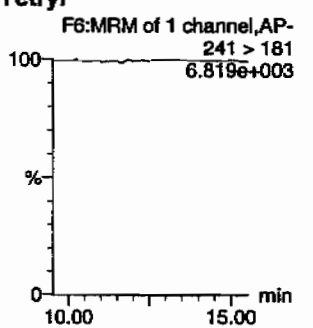
13-Dinitrobenzene-d4



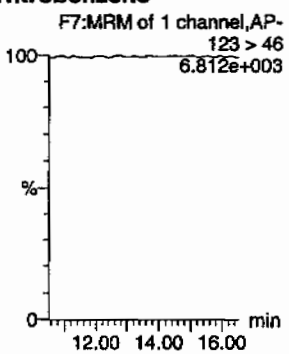
13-Dinitrobenzene



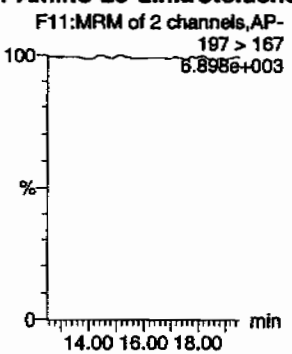
Tetryl



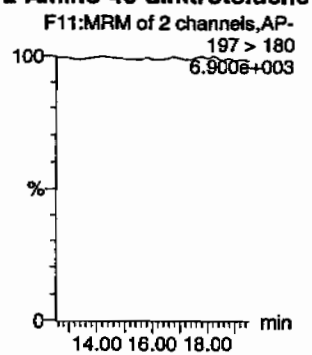
Nitrobenzene



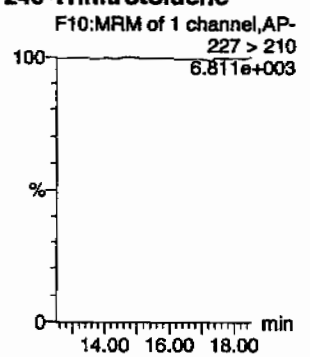
4-Amino-26-dinitrotoluene



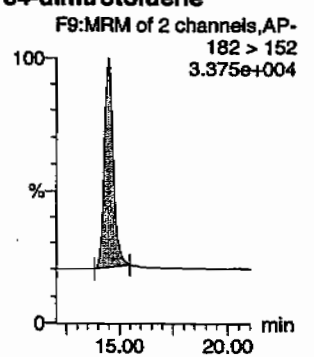
2-Amino-46-dinitrotoluene



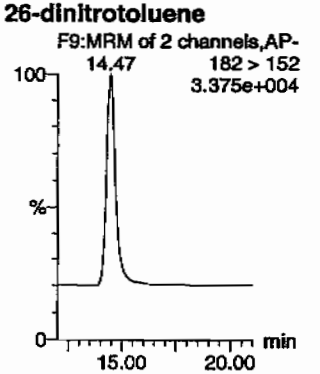
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

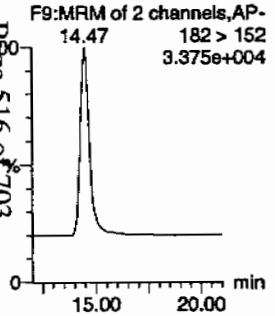


HMC 03/15/10

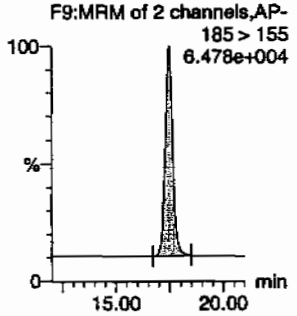
Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

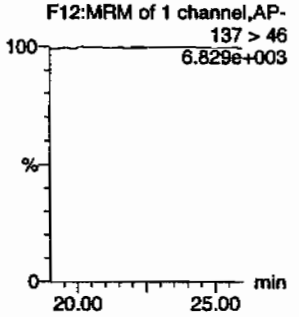
24-dinitrotoluene



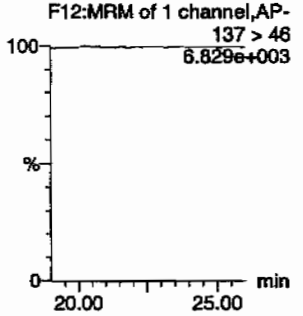
26-dinitrotoluene-d3



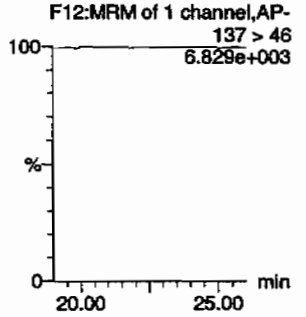
2-Nitrotoluene



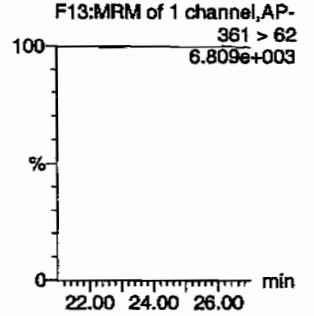
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
1202040457	HMX	176 > 102			3786.931									
1202040457	RDX	176 > 102			3786.931									
1202040457	135-Trinitrobenzene	213 > 183			3786.931									
1202040457	13-Dinitrobenzene-d4	172 > 142	12.10	3786.931		3786.931	3786.931	bb			490.5191	98.1	-1.9	392.7
1202040457	13-Dinitrobenzene	168 > 138			3786.931									
1202040457	Tetryl	241 > 181			3786.931									
1202040457	Nitrobenzene	123 > 46			3786.931									
1202040457	4-Amino-26-dinitrotoluene	197 > 167			23695.518									
1202040457	2-Amino-46-dinitrotoluene	197 > 180			23695.518									
1202040457	246-Trinitrotoluene	227 > 210			23695.518									
1202040457	34-dinitrotoluene	182 > 152	14.47	12894.335	23695.518	12894.335	272.084	bb			254.4629	101.8	1.8	685.0
1202040457	26-dinitrotoluene	182 > 152			23695.518									
1202040457	24-dinitrotoluene	182 > 152			23695.518									
1202040457	26-dinitrotoluene-d3	185 > 155	17.49	23695.518		23695.518	23695.518	bb			538.5931	107.7	7.7	1737.6
1202040457	2-Nitrotoluene	137 > 46			23695.518									
1202040457	4-Nitrotoluene	137 > 46			23695.518									
1202040457	3-Nitrotoluene	137 > 46			23695.518									
1202040457	PETN	361 > 62			23695.518									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 952041

Lab Code: GEL

GEL Job No (SDG) 10–1703

Matrix: SOIL

GEL Sample ID: 1202040457

Sample Amount 2

Moisture:

Amount Units g

Date Received: 11–FEB–10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18–FEB–10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010032.wiff

Date Analyzed: 01–MAR–10 17:10

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 =

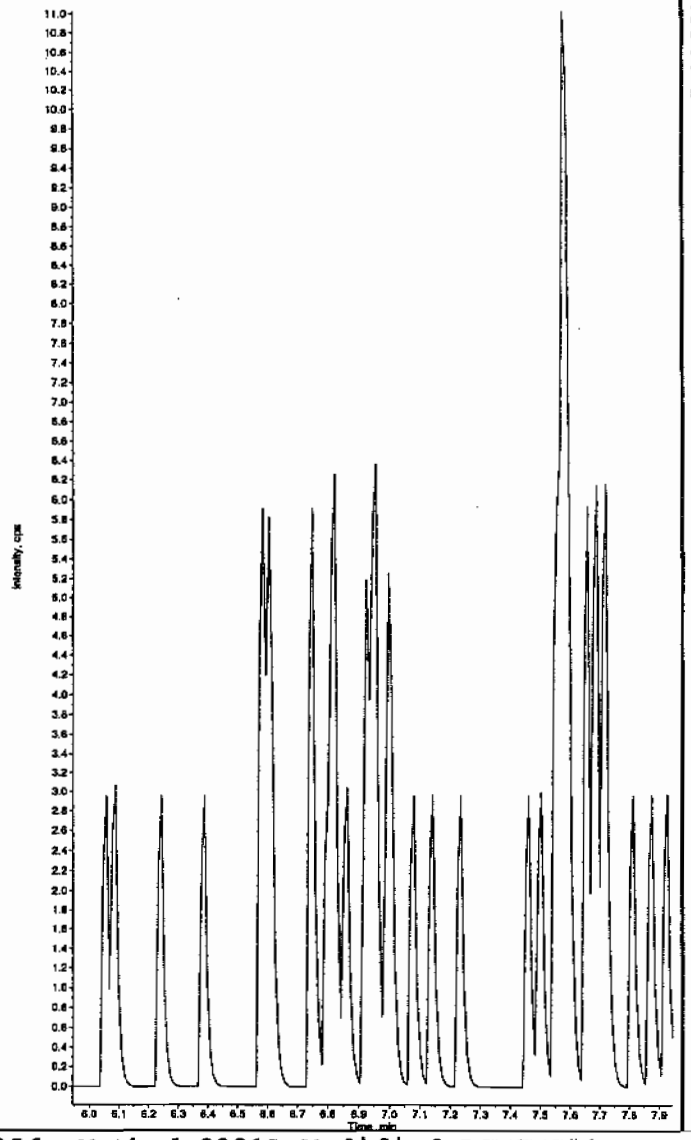
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Lan 3/3/10

Sample Name: "1202040457" Sample ID: "952043|2|LER" File: "EXS03010032.wiff"
Peak Name: "TATS" 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: 3/1/2010
Acq. Time: 5:10:55 PM

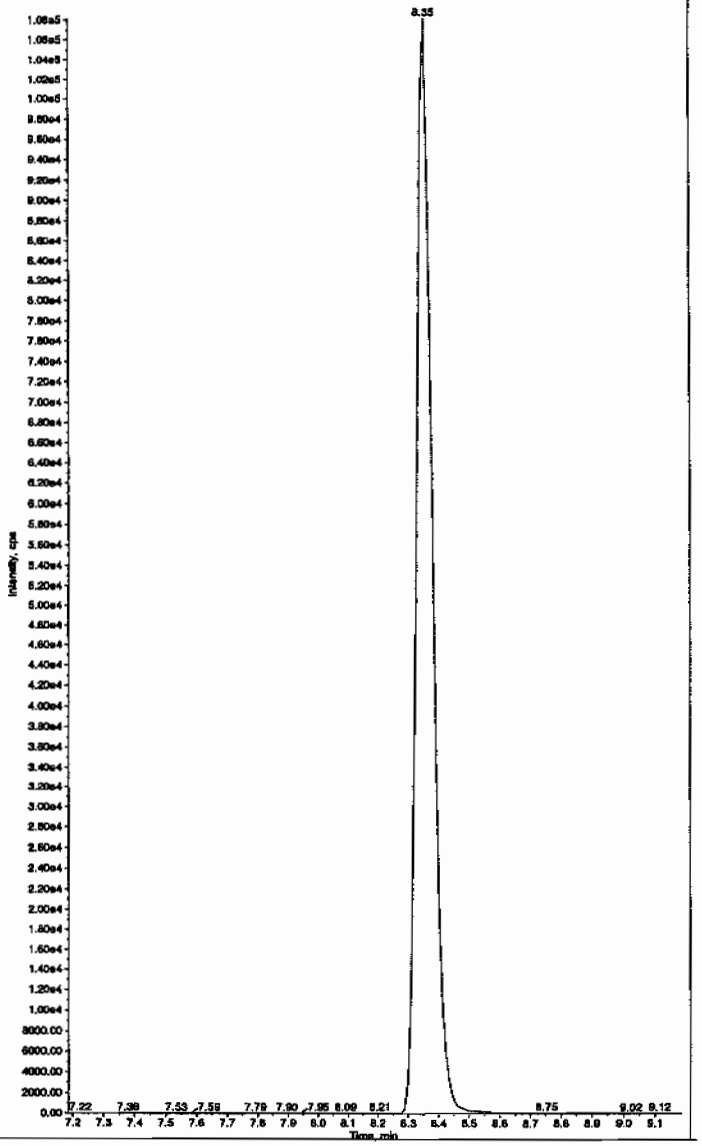
Modified: No



Sample Name: "1202040457" Sample ID: "952043|2|LER" File: "EXS03010032.wiff"
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: 3/1/2010
Acq. Time: 5:10:55 PM

Modified: No



HMW 03/04/10

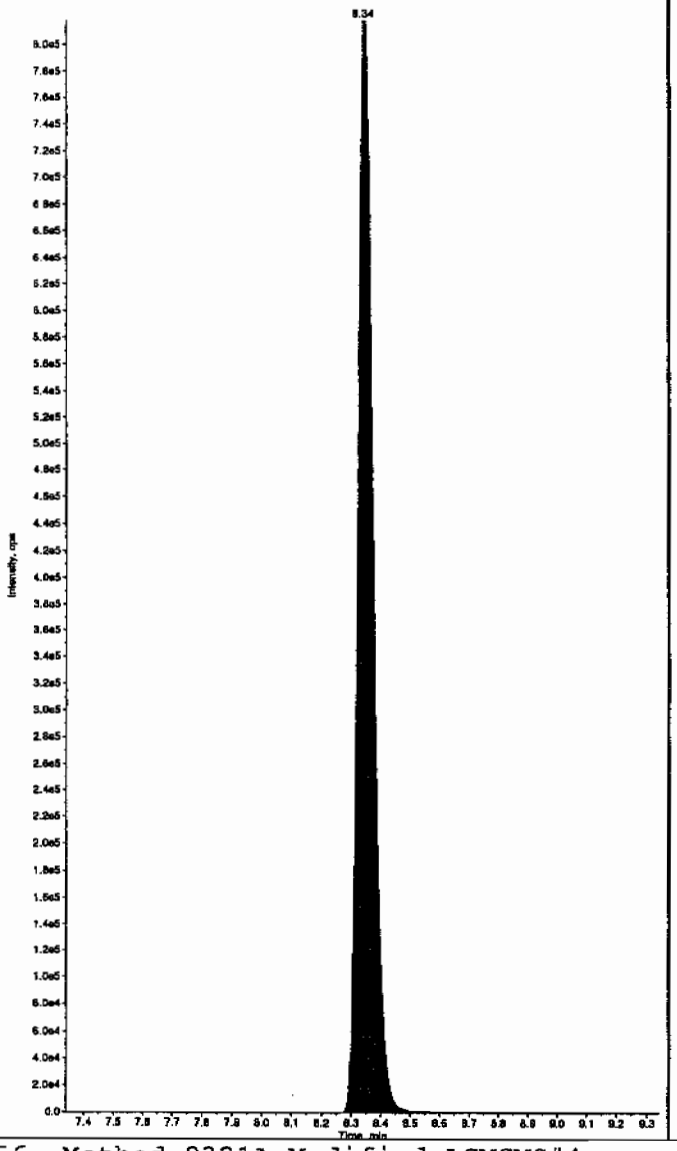
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202040457" Sample ID: "952043[2]LER" File: "EXS03010032.wiff"
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: 249. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:10:55 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

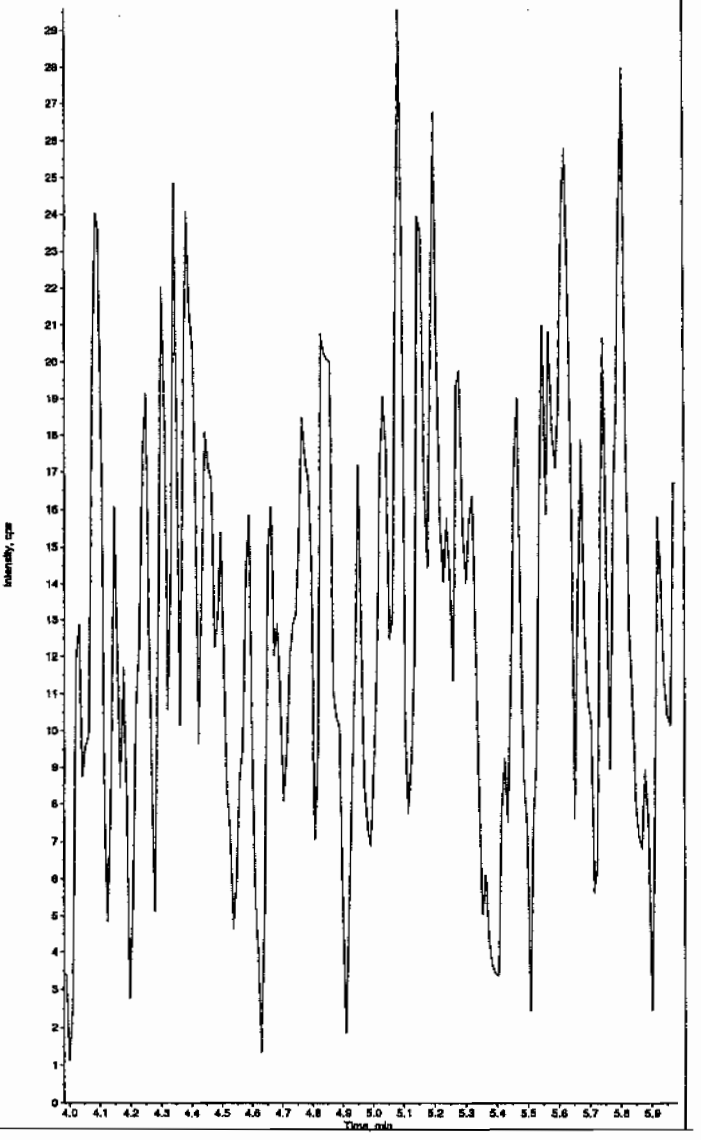
Int. Type: Valley
Retention Time: 8.34 min
Area: 3.03e+006 counts
Height: 818107.361 cps
Start Time: 8.24 min
End Time: 8.70 min



Sample Name: "1202040457" Sample ID: "952043[2]LER" File: "EXS03010032.wiff"
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: 3/1/2010
Acq. Time: 5:10:55 PM

Modified: No

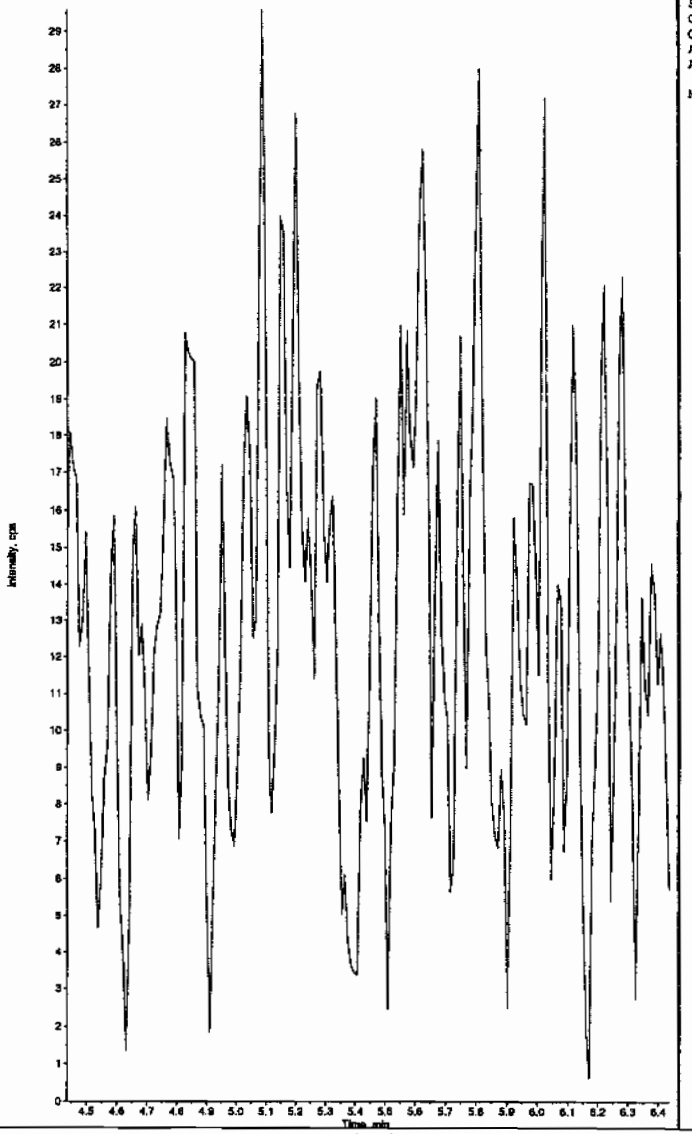


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202040457" Sample ID: "952043|2|LER" File: "EXS03010032.wiff"
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: 3/1/2010
Acq. Time: 5:10:55 PM

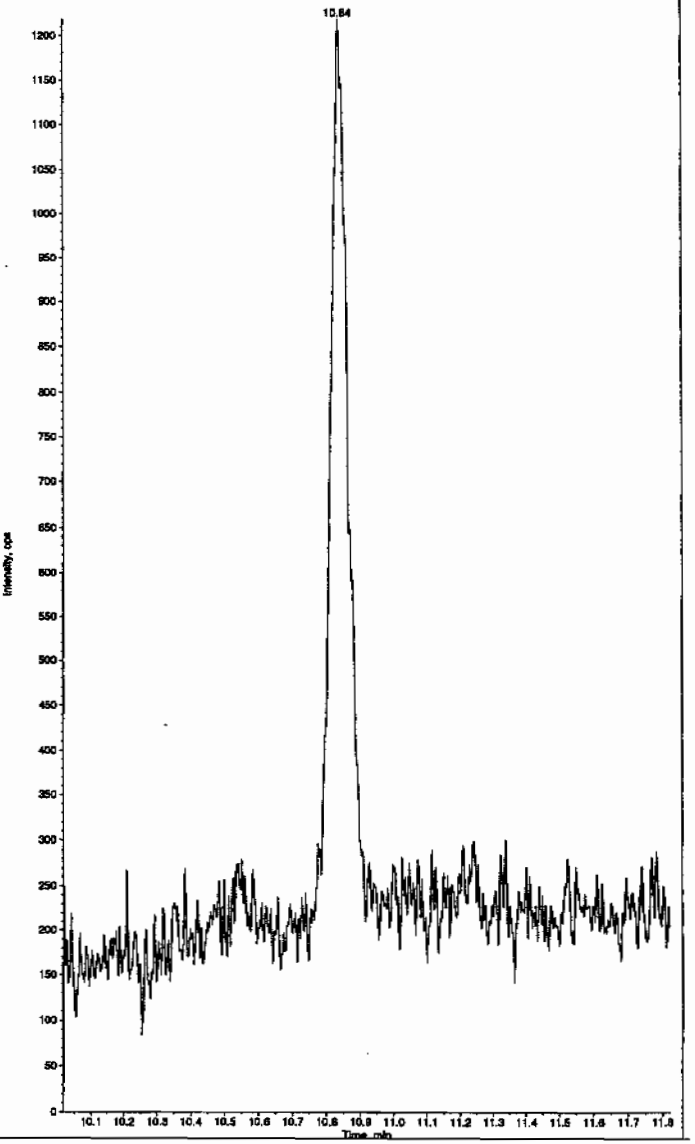
Modified: No



Sample Name: "1202040457" Sample ID: "952043|2|LER" File: "EXS03010032.wiff"
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: 3/1/2010
Acq. Time: 5:10:55 PM

Modified: No



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 952041

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 1202040458

Sample Amount 2

Moisture:

Amount Units g

Date Received: 11-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311014a

Date Analyzed: 11-MAR-10 17:07

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4920	
121-14-2	2,4-Dinitrotoluene	4660	
121-82-4	RDX	4400	
19406-51-0	4-Amino-2,6-dinitrotoluene	5210	
2691-41-0	HMX	4110	
35572-78-2	2-Amino-4,6-dinitrotoluene	5440	
479-45-8	Tetryl	2390	
606-20-2	2,6-Dinitrotoluene	4900	
78-11-5	PETN	4370	
88-72-2	o-Nitrotoluene	4500	
98-95-3	Nitrobenzene	4820	
99-08-1	m-Nitrotoluene	4410	
99-35-4	1,3,5-Trinitrobenzene	4120	
99-65-0	m-Dinitrobenzene	4530	
99-99-0	p-Nitrotoluene	4440	

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

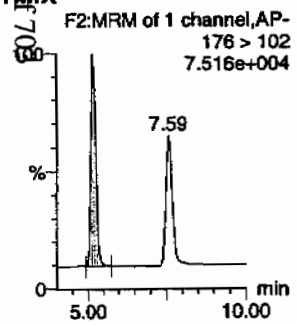
Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311014a
Date: 11-Mar-2010
Time: 17:07:37
ID: 1202040458 | LANL | 952043 | Solid | LCS | 21
Vial: 2:1,B

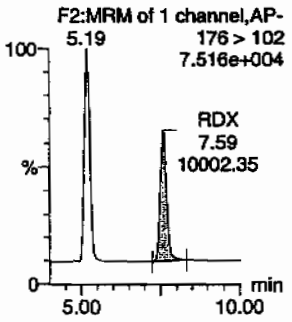
MAP 3/12/10

↓ Tetryl

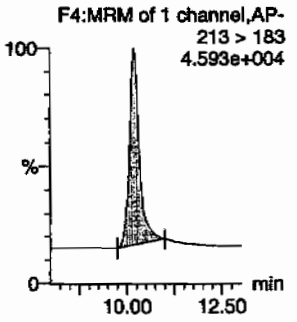
HMX



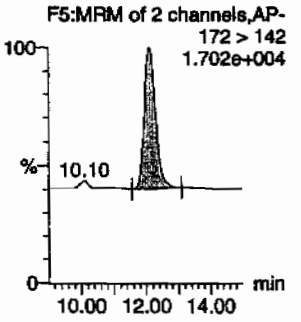
RDX



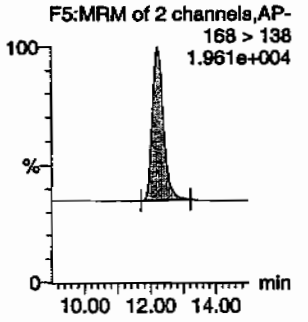
135-Trinitrobenzene



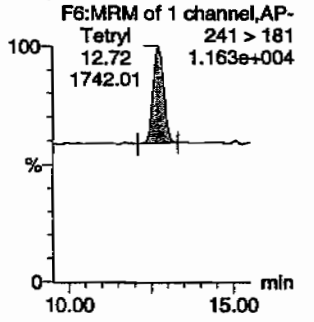
13-Dinitrobenzene-d4



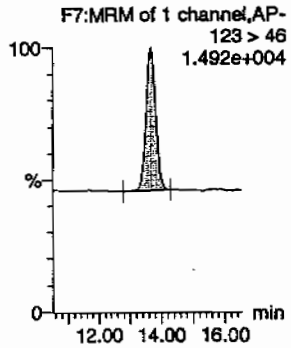
13-Dinitrobenzene



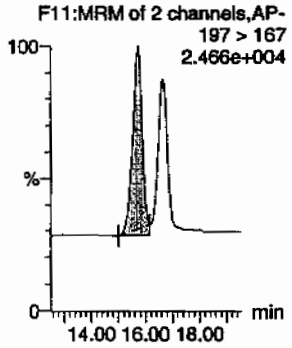
Tetryl



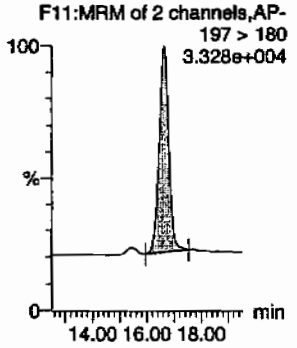
Nitrobenzene



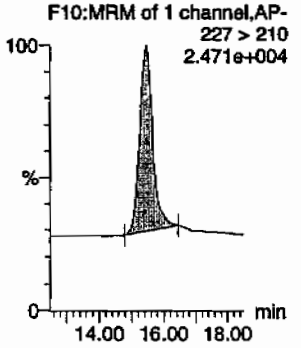
4-Amino-26-dinitrotoluene



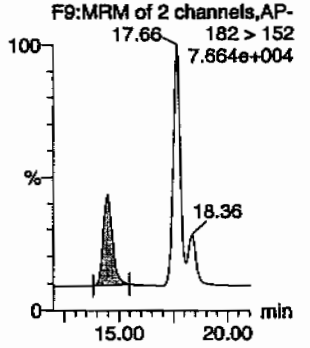
2-Amino-46-dinitrotoluene



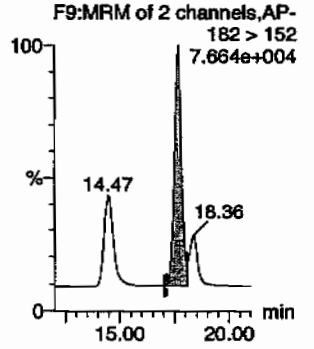
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

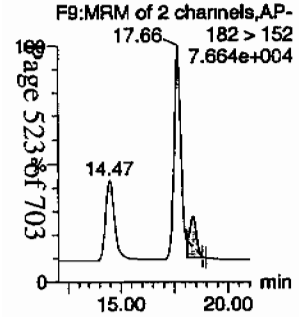


MMM 03/13/10

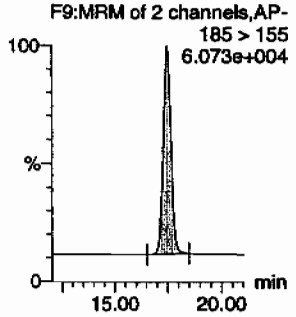
GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

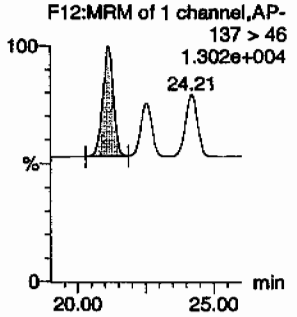
24-dinitrotoluene



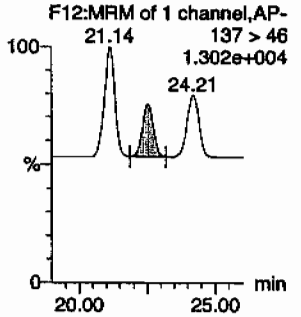
26-dinitrotoluene-d3



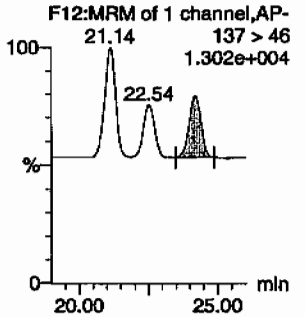
2-Nitrotoluene



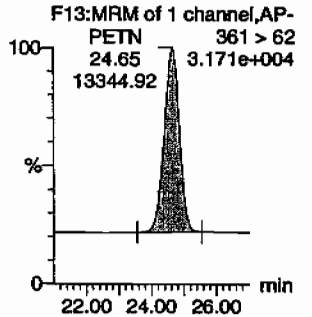
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
1202040458	HMX	176 > 102	5.19	13600.863	4135.657	13600.863	1644.341	db			410.6823	82.1	-17.9	2215.8
1202040458	RDX	176 > 102	7.59	10002.349	4135.657	10002.349	1209.282	bb			439.5495	87.9	-12.1	1358.4
1202040458	135-Trinitrobenzene	213 > 183	10.20	11746.263	4135.657	11746.263	1420.121	bb			411.5352	82.3	-17.7	1500.5
1202040458	13-Dinitrobenzene-d4	172 > 142	12.10	4135.657		4135.657	4135.657	bb			535.6894	107.1	7.1	598.5
1202040458	13-Dinitrobenzene	168 > 138	12.24	4895.916	4135.657	4895.916	591.915	bb			453.0217	90.6	-9.4	425.9
1202040458	Tetryl	241 > 181	12.72	1742.007	4135.657	1742.007	210.608	bb			239.2498	47.8	-52.2	188.5
1202040458	Nitrobenzene	123 > 46	13.67	2907.507	4135.657	2907.507	351.517	bb			482.0536	96.4	-3.6	224.5
1202040458	4-Amino-26-dinitrotoluene	197 > 167	15.71	7478.378	22759.996	7478.378	164.288	MM	12-Mar-10	13:16:42	520.8369	104.2	4.2	314.9
1202040458	2-Amino-46-dinitrotoluene	197 > 180	16.63	10832.876	22759.996	10832.876	237.981	bb			544.2119	108.8	8.8	261.0
1202040458	246-Trinitrotoluene	227 > 210	15.45	8139.516	22759.996	8139.516	178.812	bb			491.7930	98.4	-1.6	348.7
1202040458	34-dinitrotoluene	182 > 152	14.47	12602.676	22759.996	12602.676	276.860	bb			258.9300	103.6	3.6	443.2
1202040458	26-dinitrotoluene	182 > 152	17.66	26096.658	22759.996	26096.658	573.301	MM	12-Mar-10	13:21:19	490.0139	98.0	-2.0	1180.1
1202040458	24-dinitrotoluene	182 > 152	18.36	5502.410	22759.996	5502.410	120.879	MM	12-Mar-10	13:25:56	466.0762	93.2	-6.8	230.4
1202040458	26-dinitrotoluene-d3	185 > 155	17.49	22759.996		22759.996	22759.996	bb			517.3290	103.5	3.5	1248.3
1202040458	2-Nitrotoluene	137 > 46	21.14	2778.984	22759.996	2778.984	61.050	bb			450.3075	90.1	-9.9	453.0
1202040458	4-Nitrotoluene	137 > 46	22.54	1360.748	22759.996	1360.748	29.893	bb			444.2839	88.9	-11.1	216.3
1202040458	3-Nitrotoluene	137 > 46	24.21	1694.504	22759.996	1694.504	37.225	bb			440.8228	88.2	-11.8	253.4
1202040458	PETN	361 > 62	24.65	13344.922	22759.996	13344.922	293.166	bb			437.1894	87.4	-12.6	2058.5

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 952041

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 1202040458

Sample Amount 2

Moisture:

Amount Units g

Date Received: 11-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010033.wiff

Date Analyzed: 01-MAR-10 17:26

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5170	
59229-75-3	2,6-Diamino-4-nitrotoluene	5580	
618-87-1	3,5-Dinitroaniline	5000	
6629-29-4	2,4-Diamino-6-nitrotoluene	5500	
78-30-8	tris(o-cresyl) phosphate	4900	

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

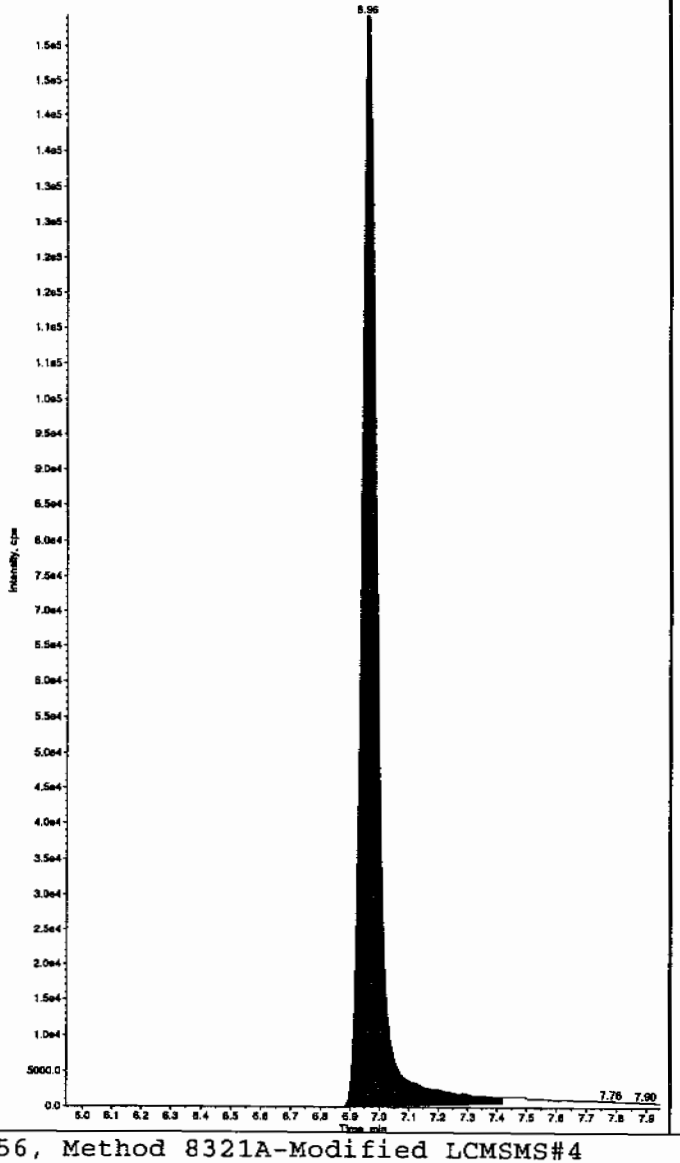
Ken 3/3/10

Sample Name: "1202040458" Sample ID: "952043|2|LER" File: "EXS03010033.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 517. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:26:47 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.96 min
Area: 6.19e+005 counts
Height: 154294.281 cps
Start Time: 6.86 min
End Time: 7.42 min

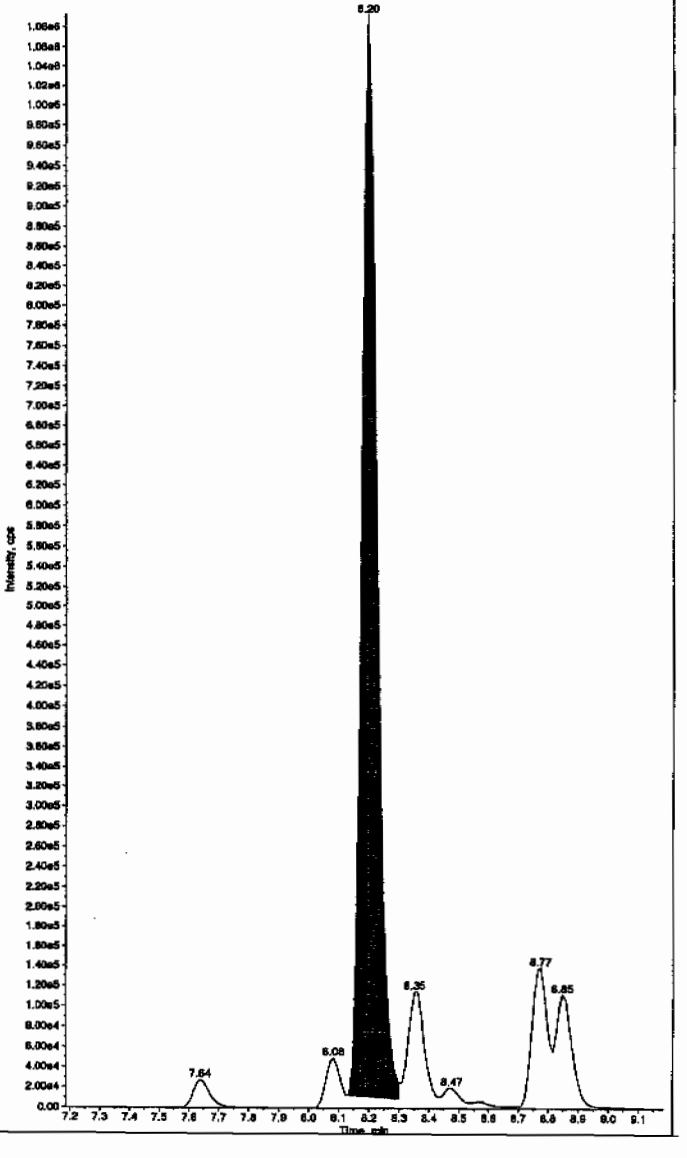


Sample Name: "1202040458" Sample ID: "952043|2|LER" File: "EXS03010033.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 500. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:26:47 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: 8.19 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.20 min
Area: 3.92e+006 counts
Height: 1081937.500 cps
Start Time: 8.12 min
End Time: 8.30 min



AMW 03/04/10

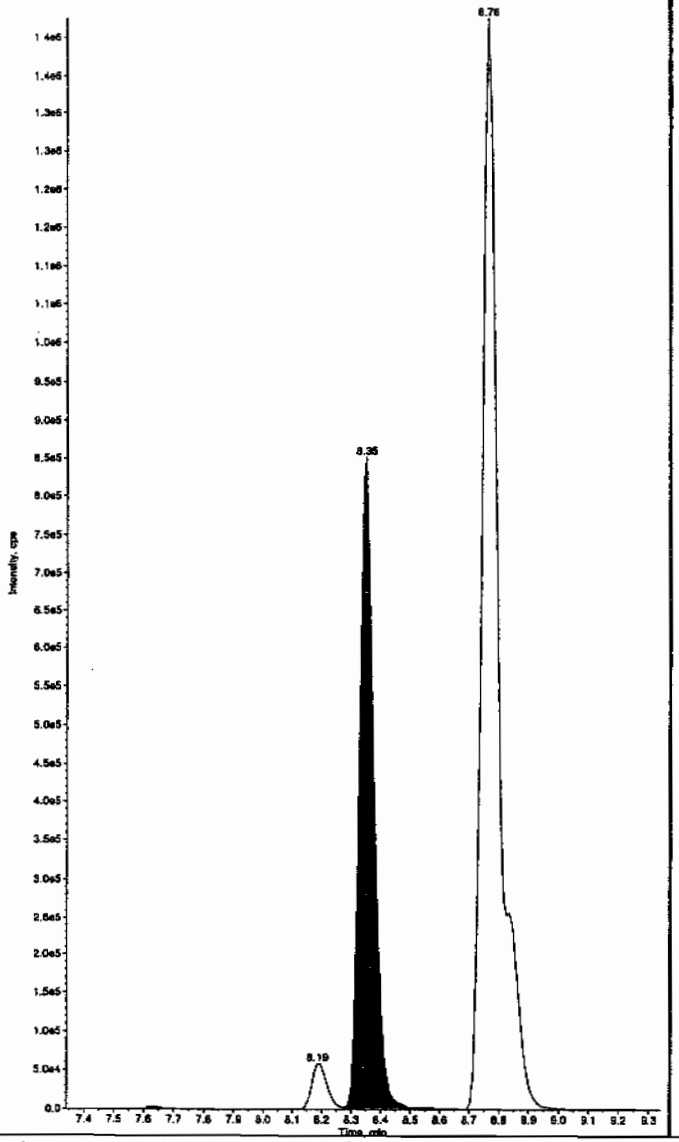
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202040458" Sample ID: "952043|2|LER" File: "EXS03010033.wiff"
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: 3/1/2010
Acq. Time: 5:26:47 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.35 min
Area: 2.94e+006 counts
Height: 849916.138 cps
Start Time: 8.28 min
End Time: 8.58 min

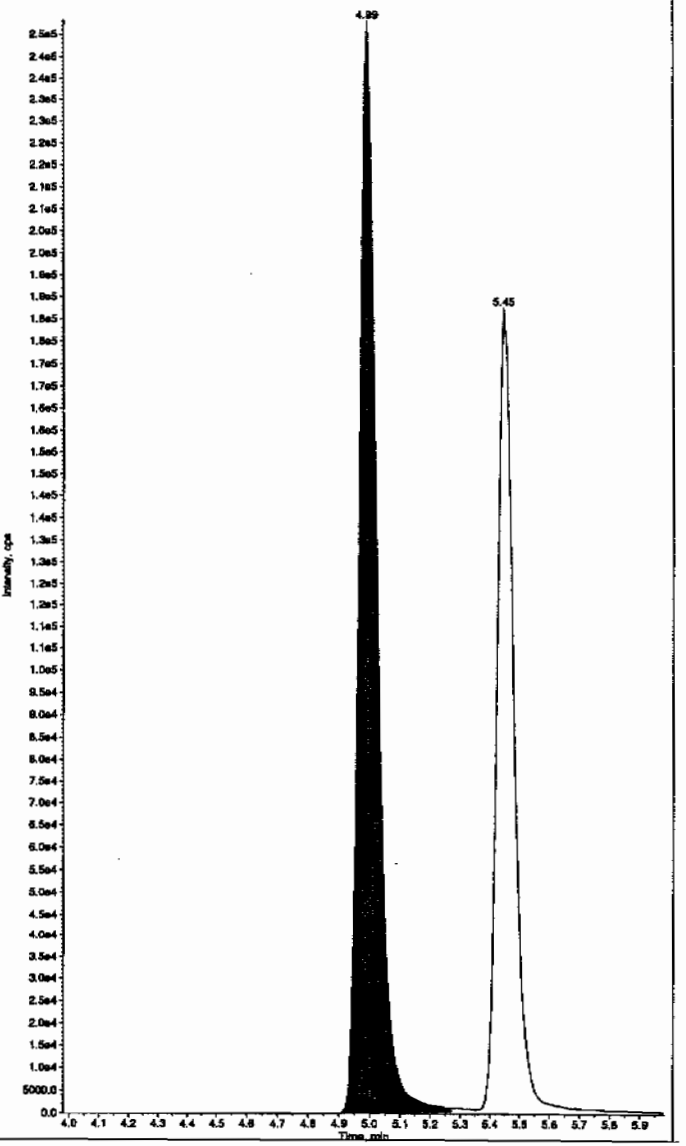


Sample Name: "1202040458" Sample ID: "952043|2|LER" File: "EXS03010033.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 558. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:26:47 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: 4.98 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.99 min
Area: 1.04e+006 counts
Height: 248212.967 cps
Start Time: 4.90 min
End Time: 5.27 min



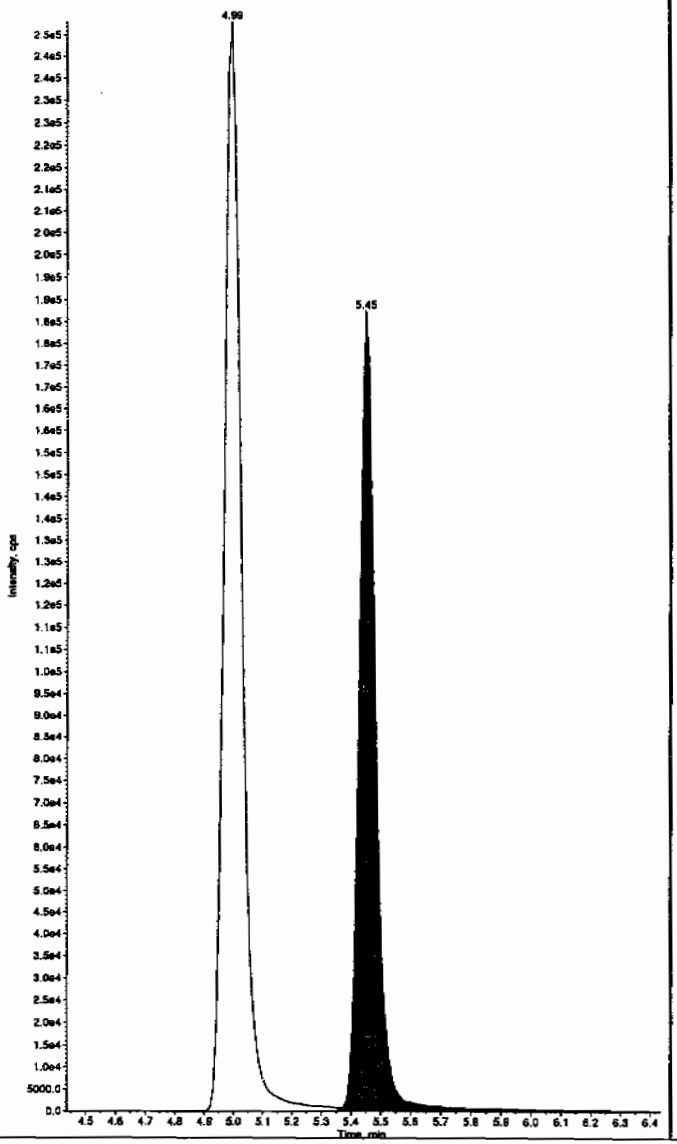
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202040458" Sample ID: "952043|2|LER" File: "EXS03010033.wiff"
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "156.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 550. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:26:47 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: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.45 min
Area: 7.29e+005 counts
Height: 182559.341 cps
Start Time: 5.35 min
End Time: 6.08 min

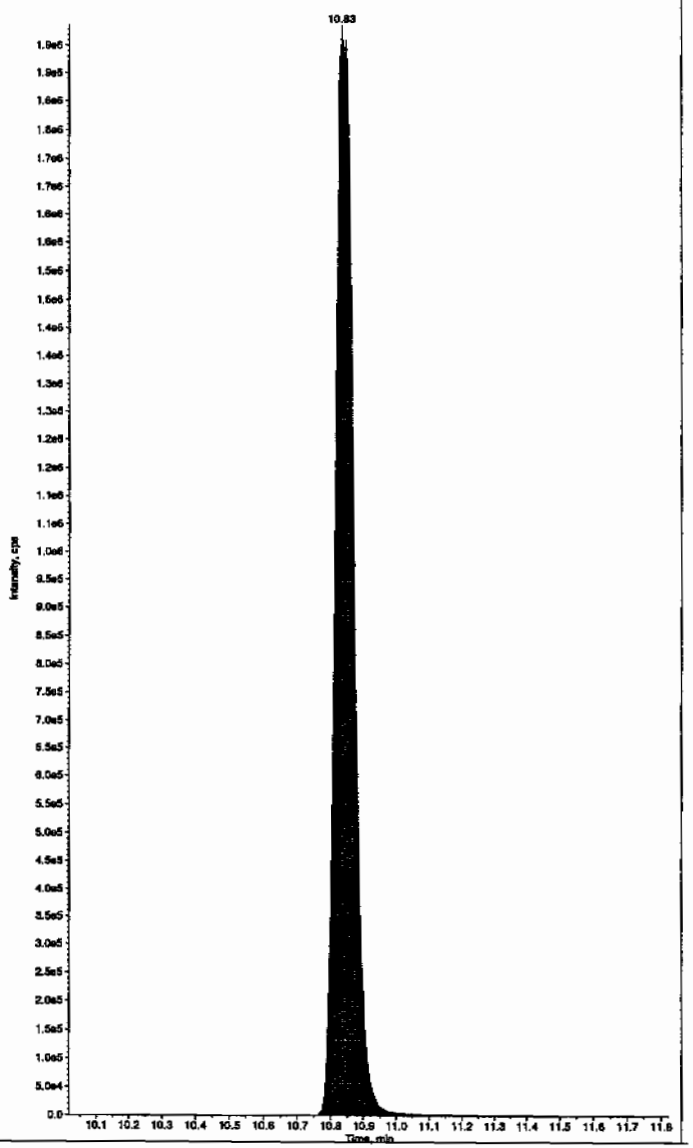


Sample Name: "1202040458" Sample ID: "952043|2|LER" File: "EXS03010033.wiff"
Peak Name: "Iris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 490. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:26:47 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 7.67e+006 counts
Height: 1938789.307 cps
Start Time: 10.7 min
End Time: 11.2 min



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8185(246677001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 1202040459

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311016a

Date Analyzed: 11-MAR-10 18:06

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4870	
121-14-2	2,4-Dinitrotoluene	4740	
121-82-4	RDX	4470	
19406-51-0	4-Amino-2,6-dinitrotoluene	4670	
2691-41-0	HMX	4580	
35572-78-2	2-Amino-4,6-dinitrotoluene	5330	
479-45-8	Tetryl	4040	
606-20-2	2,6-Dinitrotoluene	4710	
78-11-5	PETN	4770	
88-72-2	o-Nitrotoluene	5080	
98-95-3	Nitrobenzene	4780	
99-08-1	m-Nitrotoluene	5000	
99-35-4	1,3,5-Trinitrobenzene	5090	
99-65-0	m-Dinitrobenzene	4800	
99-99-0	p-Nitrotoluene	5260	

*Concentration =

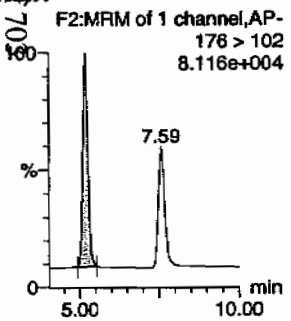
$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

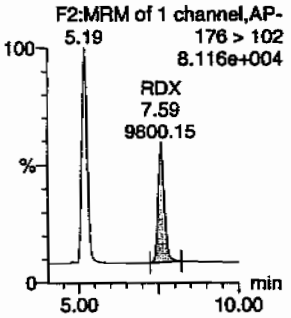
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311016a
Date: 11-Mar-2010
Time: 18:06:33
ID: 1202040459 | LANL | 952043 | Solids | 246677001MS | 2
Vial: 2:1,D

MM 3/12/10

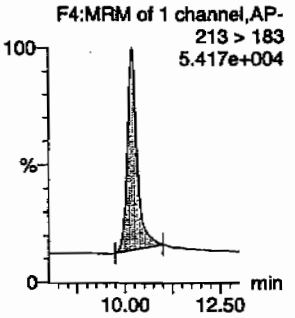
HMX



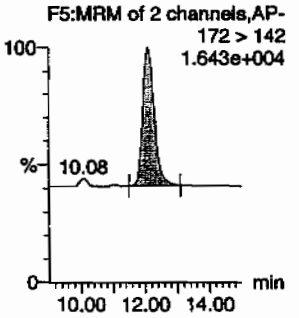
RDX



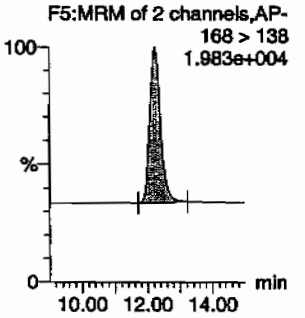
135-Trinitrobenzene



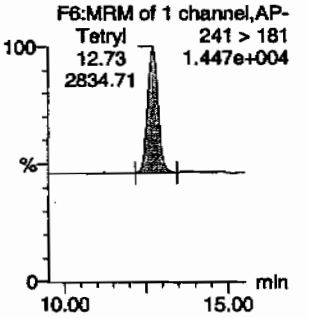
13-Dinitrobenzene-d4



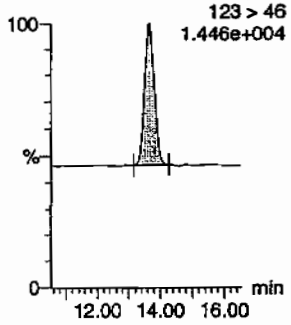
13-Dinitrobenzene



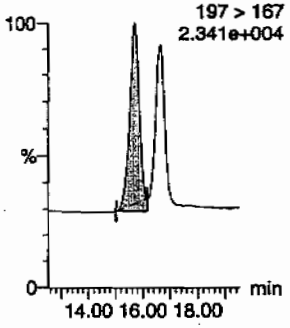
Tetryl



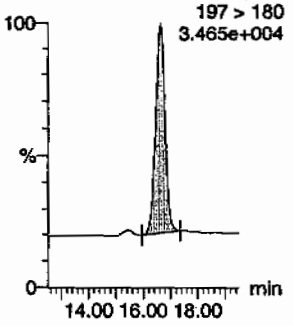
Nitrobenzene



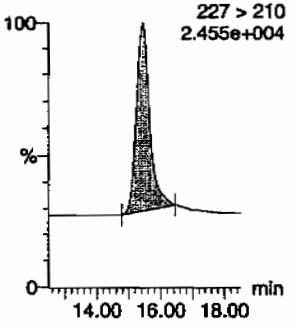
4-Amino-26-dinitrotoluene



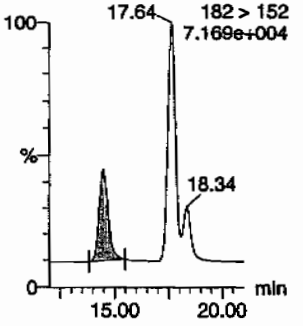
2-Amino-46-dinitrotoluene



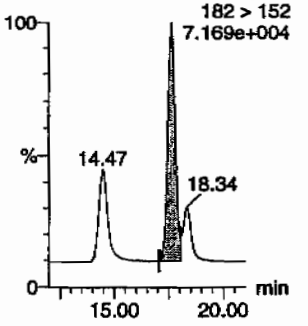
246-Trinitrotoluene



34-dinitrotoluene



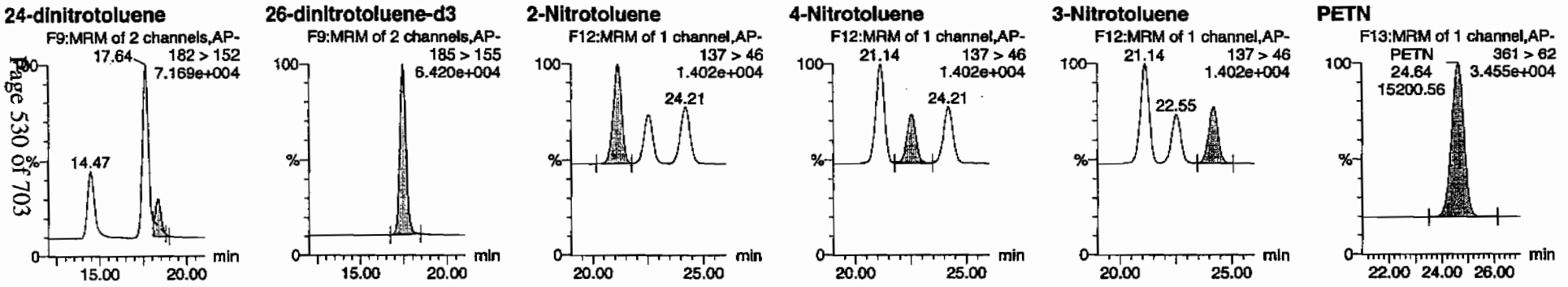
26-dinitrotoluene



AMW 03/13/10

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
1202040459	HMX	176 > 102	5.19	14628.841	3987.905	14628.841	1834.151	bb			458.0882	91.6	-8.4	1426.4
1202040459	RDX	176 > 102	7.59	9800.145	3987.905	9800.145	1228.734	bb			446.6198	89.3	-10.7	797.2
1202040459	135-Trinitrobenzene	213 > 183	10.20	14016.143	3987.905	14016.143	1757.332	bb			509.2552	101.9	1.9	1006.4
1202040459	13-Dinitrobenzene-d4	172 > 142	12.10	3987.905		3987.905	3987.905	bb			516.5511	103.3	3.3	423.7
1202040459	13-Dinitrobenzene	168 > 138	12.24	5005.172	3987.905	5005.172	627.544	bb			480.2903	96.1	-3.9	476.4
1202040459	Tetryl	241 > 181	12.73	2834.709	3987.905	2834.709	355.413	bb			403.7475	80.7	-19.3	125.4
1202040459	Nitrobenzene	123 > 46	13.67	2777.735	3987.905	2777.735	348.270	bb			477.6008	95.5	-4.5	219.5
1202040459	4-Amino-26-dinitrotoluene	197 > 167	15.71	6995.852	23750.107	6995.852	147.280	MM	12-Mar-10	13:16:52	466.9190	93.4	-6.6	176.3
1202040459	2-Amino-46-dinitrotoluene	197 > 180	16.63	11064.212	23750.107	11064.212	232.930	bb			532.6616	106.5	6.5	592.4
1202040459	246-Trinitrotoluene	227 > 210	15.45	8415.096	23750.107	8415.096	177.159	bb			487.2473	97.4	-2.6	561.4
1202040459	34-dinitrotoluene	182 > 152	14.47	12066.269	23750.107	12066.269	254.026	bb			237.5742	95.0	-5.0	193.7
1202040459	26-dinitrotoluene	182 > 152	17.64	26198.674	23750.107	26198.674	551.549	MM	12-Mar-10	13:21:32	471.4216	94.3	-5.7	500.2
1202040459	24-dinitrotoluene	182 > 152	18.34	5841.315	23750.107	5841.315	122.974	MM	12-Mar-10	13:26:04	474.1560	94.8	-5.2	110.1
1202040459	26-dinitrotoluene-d3	185 > 155	17.47	23750.107		23750.107	23750.107	bb			539.8339	108.0	8.0	2092.9
1202040459	2-Nitrotoluene	137 > 46	21.14	3273.450	23750.107	3273.450	68.914	bb			508.3179	101.7	1.7	208.7
1202040459	4-Nitrotoluene	137 > 46	22.55	1680.317	23750.107	1680.317	35.375	bb			525.7517	105.2	5.2	101.2
1202040459	3-Nitrotoluene	137 > 46	24.21	2005.679	23750.107	2005.679	42.225	bb			500.0225	100.0	0.0	116.3
1202040459	PETN	361 > 62	24.64	15200.557	23750.107	15200.557	320.010	bb			477.2212	95.4	-4.6	635.8

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8185(246677001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 1202040459

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010035.wiff

Date Analyzed: 01-MAR-10 17:58

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5200	
59229-75-3	2,6-Diamino-4-nitrotoluene	5160	
618-87-1	3,5-Dinitroaniline	4930	
6629-29-4	2,4-Diamino-6-nitrotoluene	4830	
78-30-8	tris(o-cresyl) phosphate	4950	

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

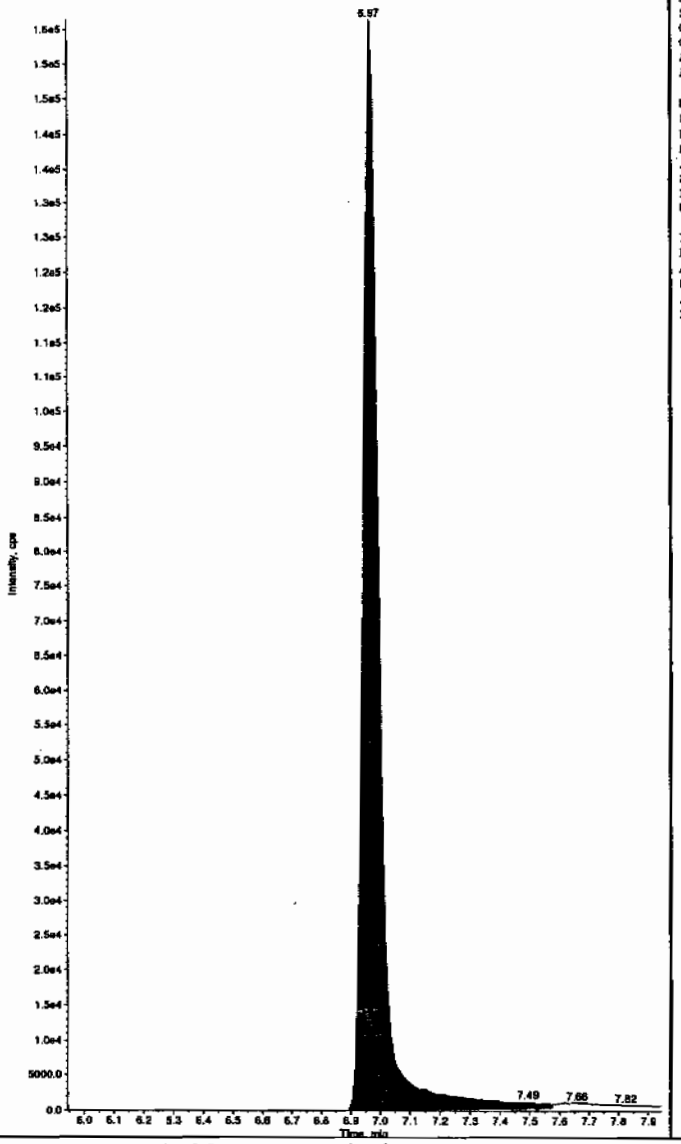
Ken 3/3/10

Sample Name: "1202040459" Sample ID: "952043[2]LER" File: "EXS03010035.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 520. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:58:12 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.97 min
Area: 6.23e+005 counts
Height: 156449.768 cps
Start Time: 6.86 min
End Time: 7.58 min

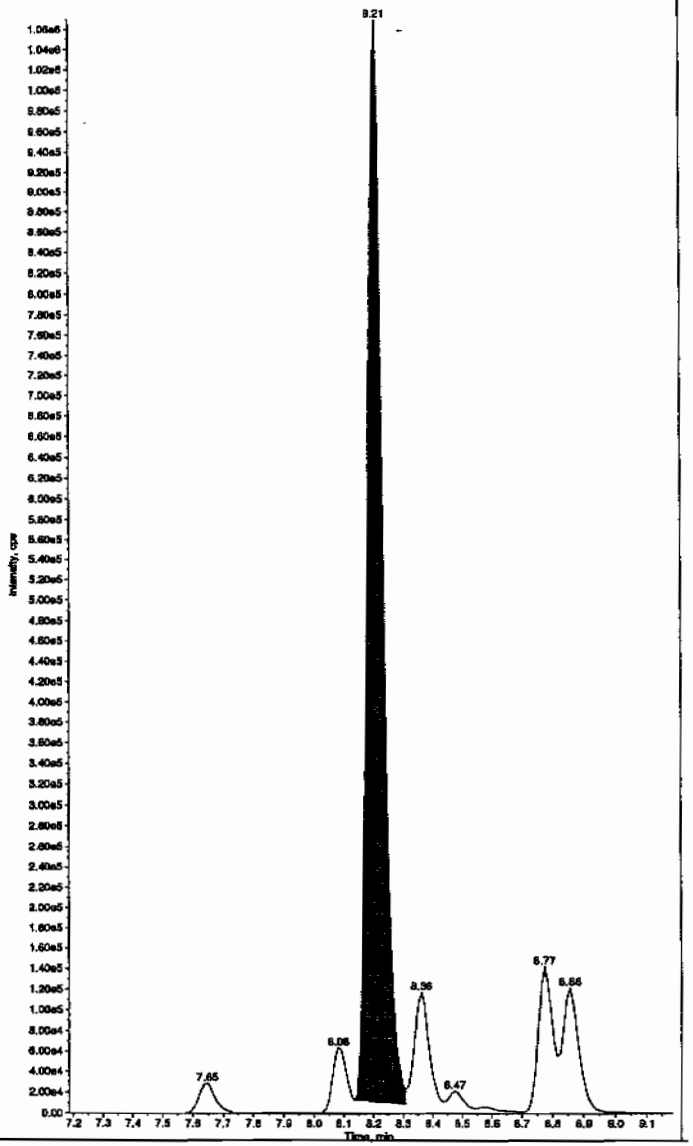


Sample Name: "1202040459" Sample ID: "952043[2]LER" File: "EXS03010035.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 493. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:58:12 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: 8.19 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.21 min
Area: 3.87e+006 counts
Height: 1059143.066 cps
Start Time: 8.13 min
End Time: 8.31 min



HM 03/04/10

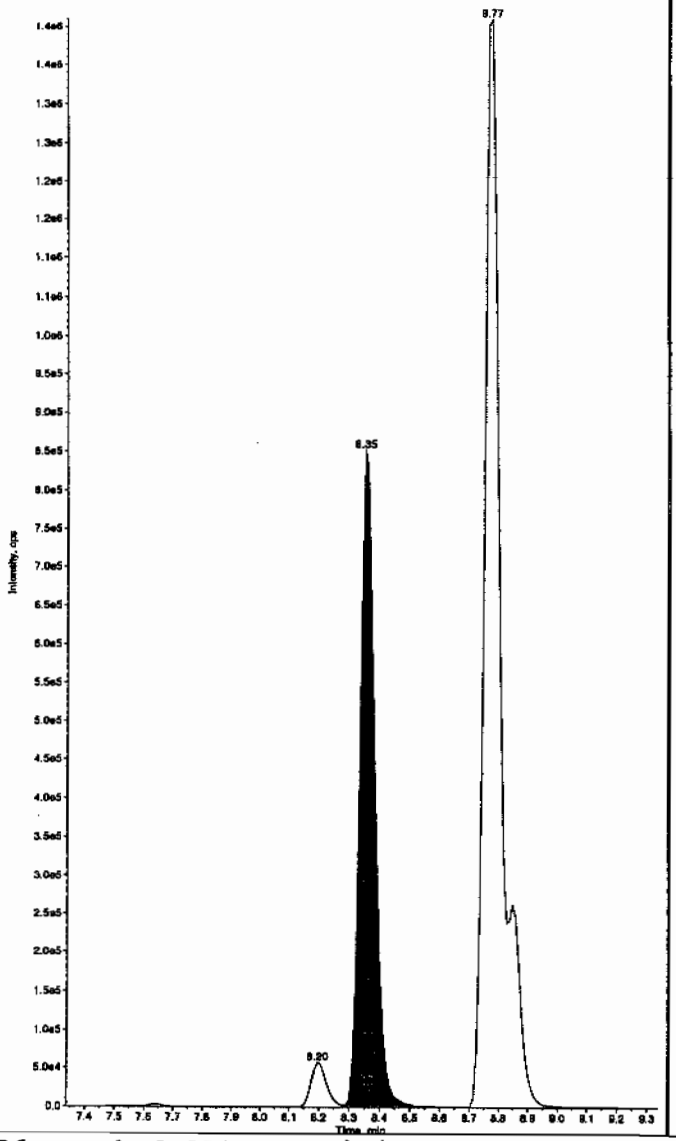
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202040459" Sample ID: "952043[2]LER" File: "EXS03010035.wiff"
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: 3/1/2010
Acq. Time: 5:58:12 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.35 min
Area: 2.95e+006 counts
Height: 849884.338 cps
Start Time: 8.28 min
End Time: 8.59 min

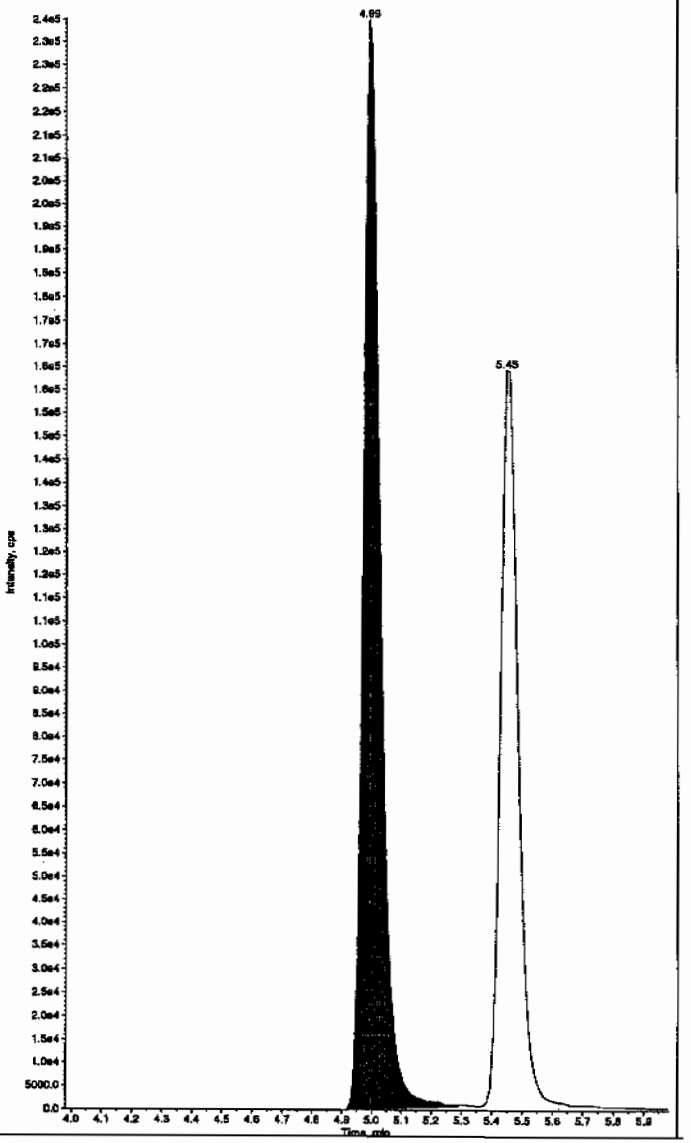


Sample Name: "1202040459" Sample ID: "952043[2]LER" File: "EXS03010035.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 516. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:58:12 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: 4.98 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.99 min
Area: 9.62e+005 counts
Height: 235152.802 cps
Start Time: 4.90 min
End Time: 5.29 min



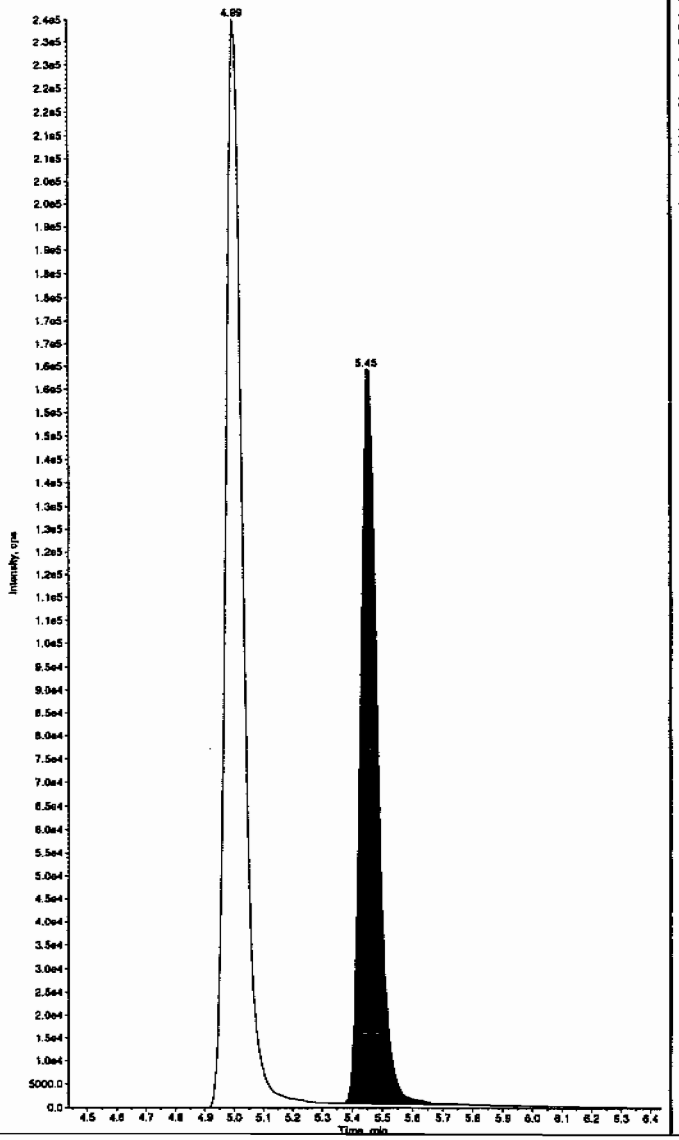
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202040459" Sample ID: "952043|2|LER" File: "EXS03010035.wiff"
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: 483. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:58:12 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: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.45 min
Area: 6.41e+005 counts
Height: 158691.437 cps
Start Time: 5.35 min
End Time: 5.80 min

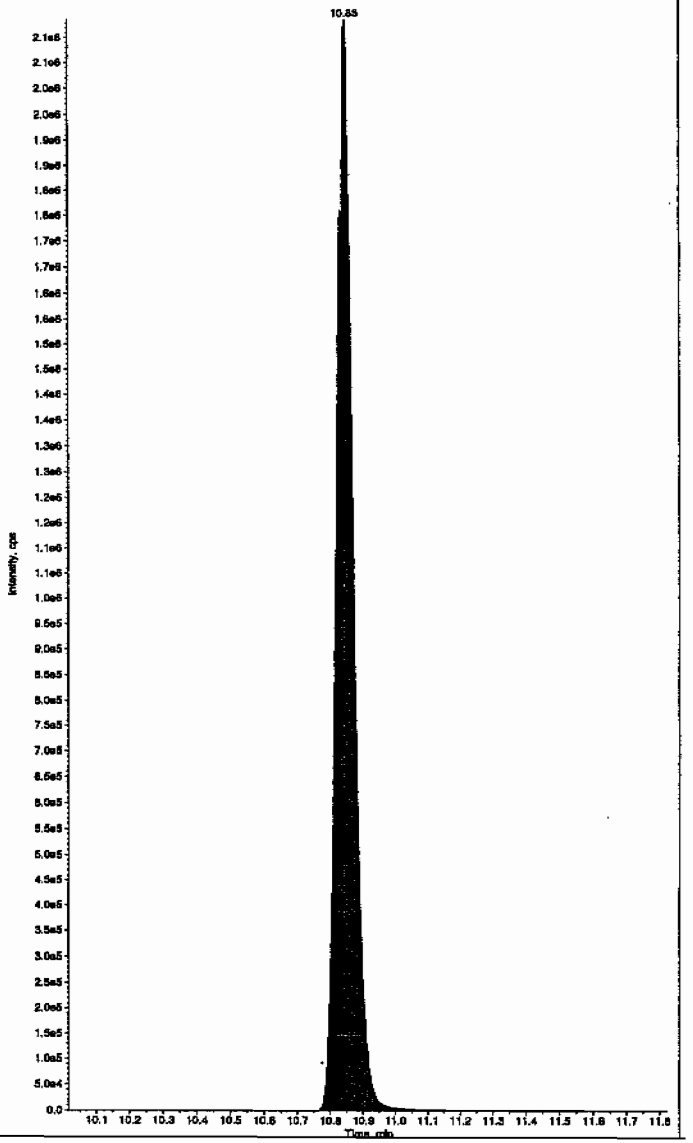


Sample Name: "1202040459" Sample ID: "952043|2|LER" File: "EXS03010035.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 495. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 5:58:12 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 7.75e+006 counts
Height: 2136749.512 cps
Start Time: 10.7 min
End Time: 11.1 min



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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8185(246677001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 1202040460

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0311017a

Date Analyzed: 11-MAR-10 18:36

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5010	
121-14-2	2,4-Dinitrotoluene	5200	
121-82-4	RDX	5170	
19406-51-0	4-Amino-2,6-dinitrotoluene	4700	
2691-41-0	HMX	5490	
35572-78-2	2-Amino-4,6-dinitrotoluene	4920	
479-45-8	Tetryl	3450	
606-20-2	2,6-Dinitrotoluene	4830	
78-11-5	PETN	5760	
88-72-2	o-Nitrotoluene	4980	
98-95-3	Nitrobenzene	4520	
99-08-1	m-Nitrotoluene	5380	
99-35-4	1,3,5-Trinitrobenzene	4950	
99-65-0	m-Dinitrobenzene	4810	
99-99-0	p-Nitrotoluene	5000	

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

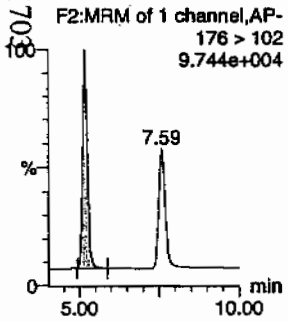
Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0311017a
Date: 11-Mar-2010
Time: 18:36:00
ID: 1202040460
Vial: 2:1,E

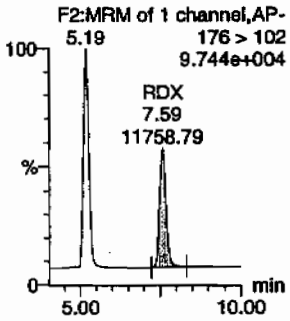
LANL | 952043 | Solid | 246677001 MSD | 2

MMP 3/12/10

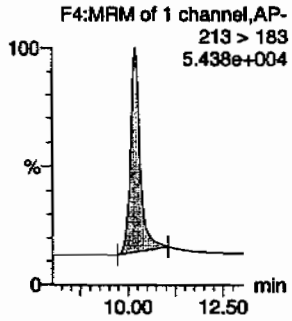
HMX



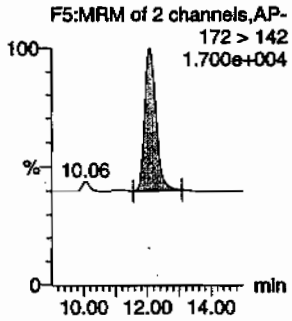
RDX



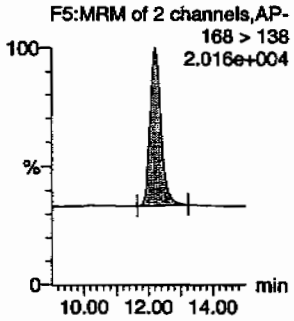
135-Trinitrobenzene



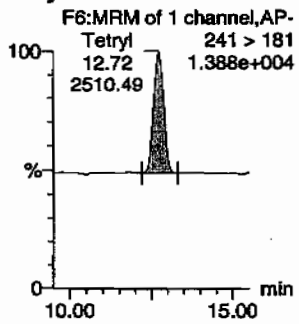
13-Dinitrobenzene-d4



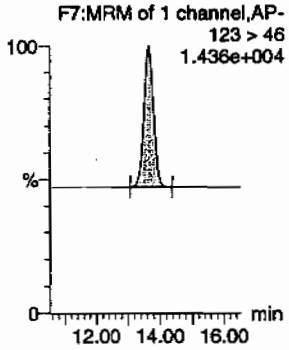
13-Dinitrobenzene



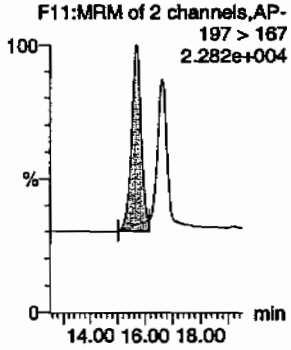
Tetryl



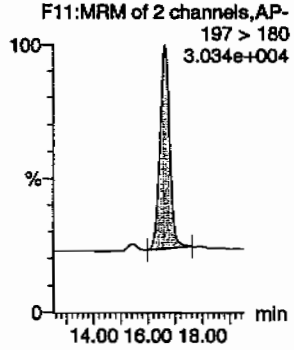
Nitrobenzene



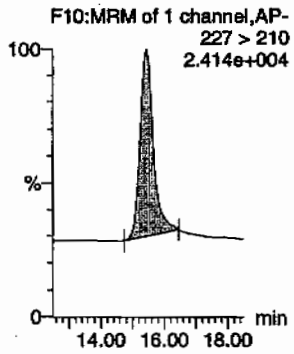
4-Amino-26-dinitrotoluene



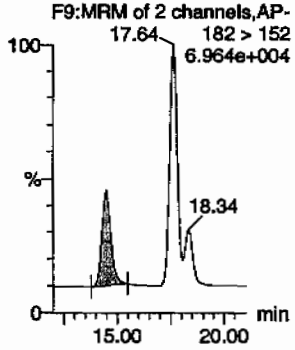
2-Amino-46-dinitrotoluene



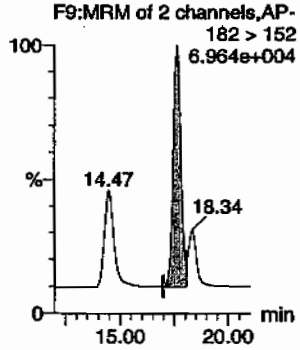
246-Trinitrotoluene



34-dinitrotoluene



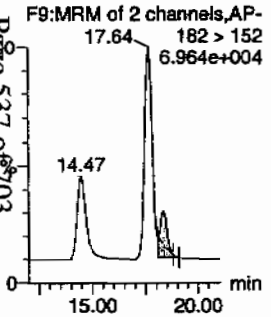
26-dinitrotoluene



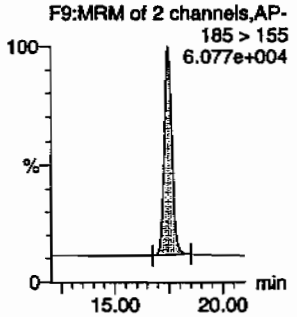
HMC 03/12/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031110expA.qld, Time: Fri Mar 12 13:28:30 2010

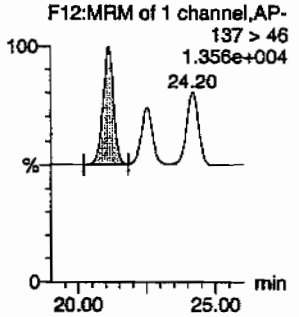
24-dinitrotoluene



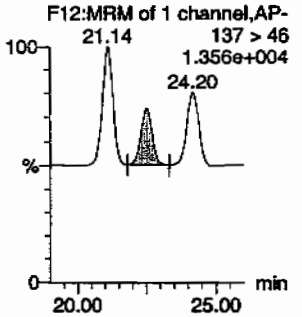
26-dinitrotoluene-d3



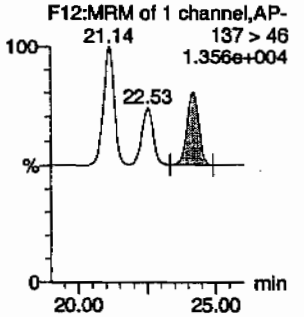
2-Nitrotoluene



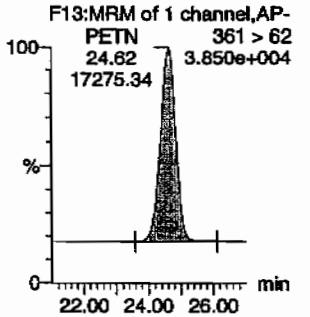
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
1202040460	HMX	176 > 102	5.19	18189.299	4134.277	18189.299	2199.816	db			549.4148	109.9	9.9	1052.7
1202040460	RDX	176 > 102	7.59	11758.792	4134.277	11758.792	1422.110	bb			516.9082	103.4	3.4	572.1
1202040460	135-Trinitrobenzene	213 > 183	10.20	14137.167	4134.277	14137.167	1709.751	bb			495.4668	99.1	-0.9	1541.1
1202040460	13-Dinitrobenzene-d4	172 > 142	12.10	4134.277		4134.277	4134.277	bb			535.5106	107.1	7.1	616.9
1202040460	13-Dinitrobenzene	168 > 138	12.24	5191.728	4134.277	5191.728	627.888	bb			480.5537	96.1	-3.9	463.9
1202040460	Tetryl	241 > 181	12.72	2510.491	4134.277	2510.491	303.619	bb			344.9096	69.0	-31.0	226.6
1202040460	Nitrobenzene	123 > 46	13.63	2726.802	4134.277	2726.802	329.780	bb			452.2443	90.4	-9.6	275.5
1202040460	4-Amino-26-dinitrotoluene	197 > 167	15.71	6626.695	22350.289	6626.695	148.246	MM	12-Mar-10	13:17:07	469.9810	94.0	-6.0	456.0
1202040460	2-Amino-46-dinitrotoluene	197 > 180	16.63	9626.724	22350.289	9626.724	215.360	bb			492.4837	98.5	-1.5	311.1
1202040460	246-Trinitrotoluene	227 > 210	15.45	8145.966	22350.289	8145.966	182.234	bb			501.2050	100.2	0.2	1004.9
1202040460	34-dinitrotoluene	182 > 152	14.47	12074.310	22350.289	12074.310	270.115	bb			252.6219	101.0	1.0	707.6
1202040460	26-dinitrotoluene	182 > 152	17.64	25236.029	22350.289	25236.029	564.557	MM	12-Mar-10	13:21:43	482.5403	96.5	-3.5	1778.4
1202040460	24-dinitrotoluene	182 > 152	18.34	6030.000	22350.289	6030.000	134.898	MM	12-Mar-10	13:26:17	520.1281	104.0	4.0	399.2
1202040460	26-dinitrotoluene-d3	185 > 155	17.47	22350.289		22350.289	22350.289	bb			508.0164	101.6	1.6	1853.7
1202040460	2-Nitrotoluene	137 > 46	21.14	3017.665	22350.289	3017.665	67.508	bb			497.9470	99.6	-0.4	185.9
1202040460	4-Nitrotoluene	137 > 46	22.53	1503.045	22350.289	1503.045	33.625	bb			499.7397	99.9	-0.1	87.3
1202040460	3-Nitrotoluene	137 > 46	24.20	2030.748	22350.289	2030.748	45.430	bb			537.9805	107.6	7.6	112.4
1202040460	PETN	361 > 62	24.62	17275.338	22350.289	17275.338	386.468	bb			576.3273	115.3	15.3	6289.3

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8185(246677001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1703

Matrix: SOIL

GEL Sample ID: 1202040460

Sample Amount 2

Moisture: 9.0

Amount Units g

Date Received: 10-FEB-10

Extraction Type Sonication

Extraction Batch ID: 952041

Concentrated Extract Volume (mL) 10

Date Extracted: 18-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03010036.wiff

Date Analyzed: 01-MAR-10 18:13

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5480	
59229-75-3	2,6-Diamino-4-nitrotoluene	5220	
618-87-1	3,5-Dinitroaniline	5130	
6629-29-4	2,4-Diamino-6-nitrotoluene	4940	
78-30-8	tris(o-cresyl) phosphate	5180	

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

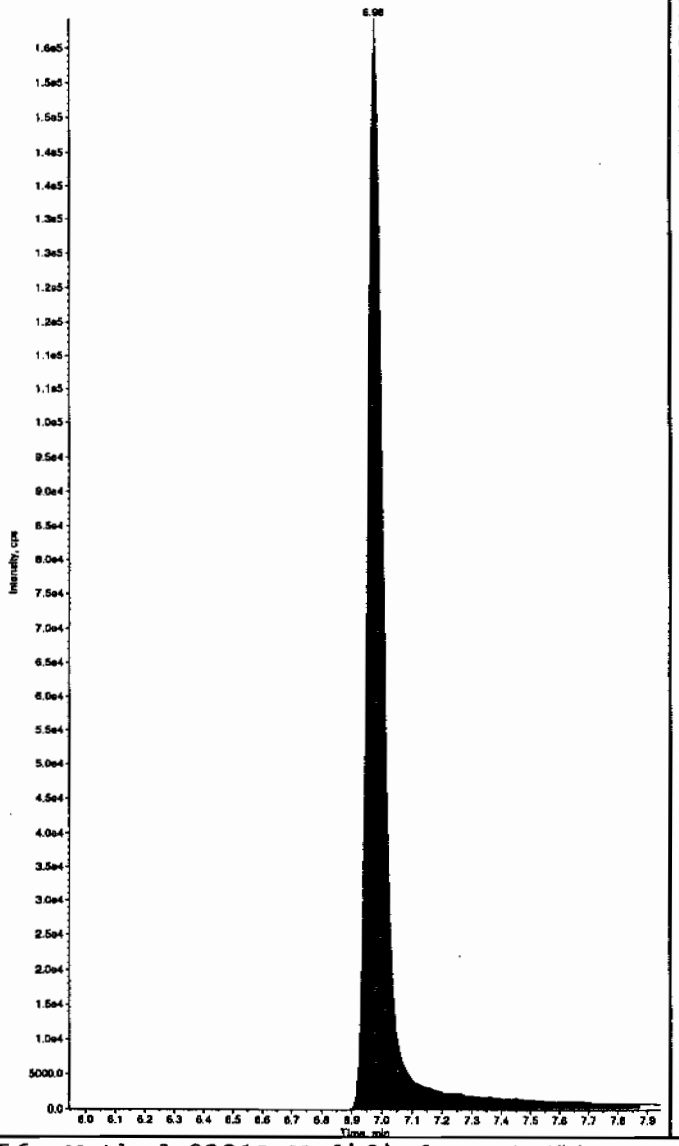
Ran 3/3/10

Sample Name: "1202040450" Sample ID: "952043[2]LER" File: "EXS03010036.wiff"
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 548. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:13:55 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: 6.94 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.98 min
Area: 6.58e+005 counts
Height: 159321.121 cps
Start Time: 6.88 min
End Time: 7.87 min

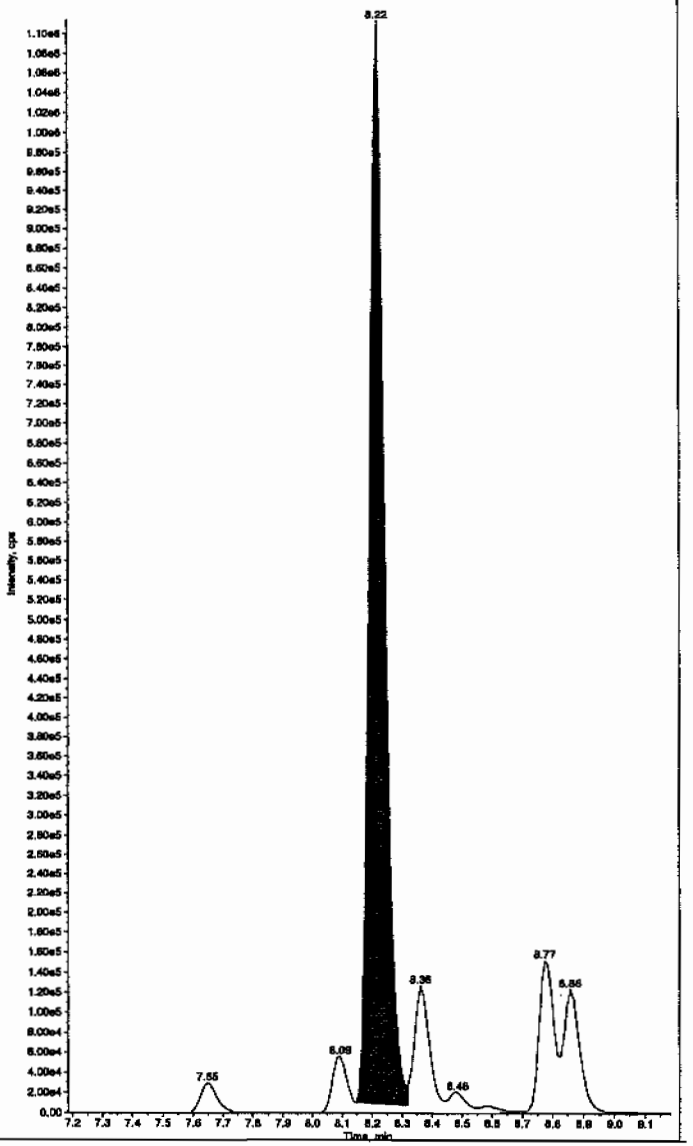


Sample Name: "1202040460" Sample ID: "952043[2]LER" File: "EXS03010036.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 513. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:13:55 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: 8.19 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.22 min
Area: 4.01e+006 counts
Height: 1106030.518 cps
Start Time: 8.14 min
End Time: 8.32 min



Hmm 03/04/10

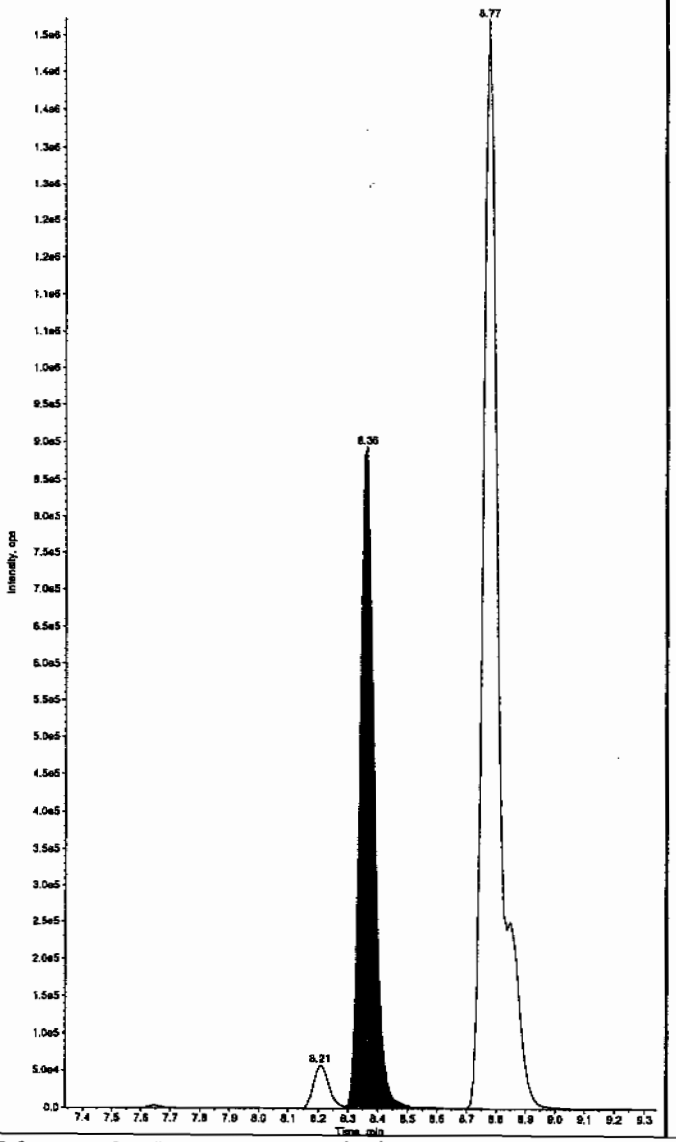
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202040460" Sample ID: "952043|2|LER" File: "EXS03010036.wiff"
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: 253. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:13:55 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: 15.0 sec
Expected RT: 8.34 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.36 min
Area: 3.08e+006 counts
Height: 892271.301 cps
Start Time: 8.29 min
End Time: 8.60 min

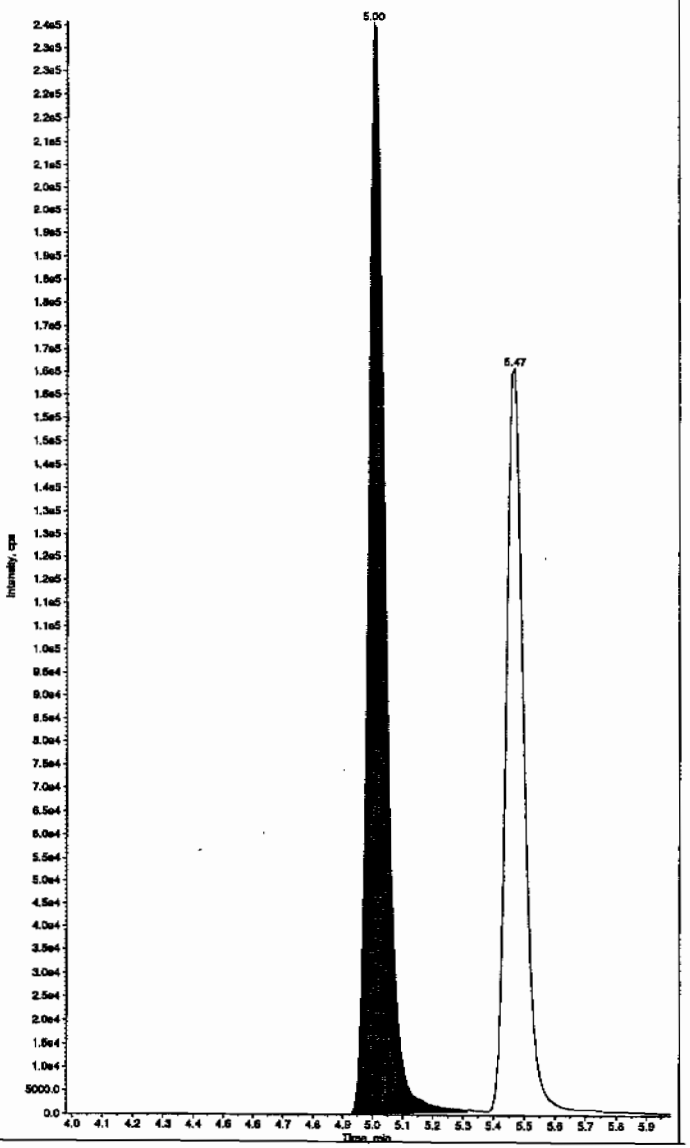


Sample Name: "1202040460" Sample ID: "952043|2|LER" File: "EXS03010036.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/45.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 522. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:13:55 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: 4.98 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.00 min
Area: 9.74e+005 counts
Height: 235711.884 cps
Start Time: 4.91 min
End Time: 5.31 min



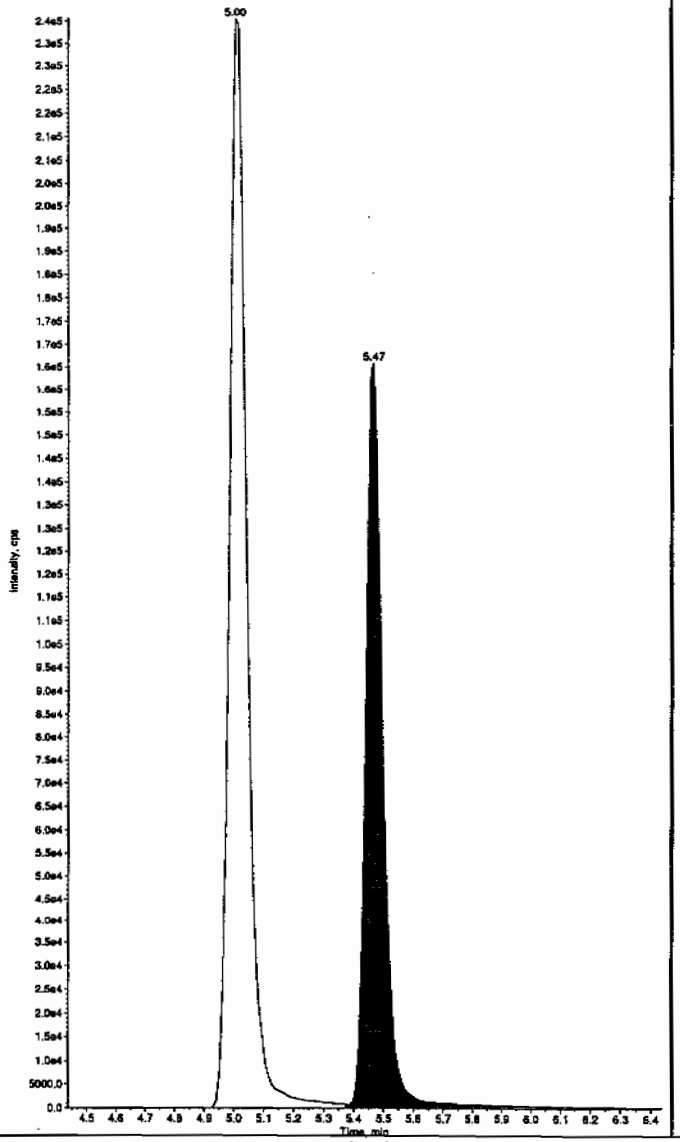
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202040460" Sample ID: "952043[2]LER" File: "EXS03010036.wiff"
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: 494. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:13:55 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: 5.44 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 5.47 min
Area: 6.56e+005 counts
Height: 160875.305 cps
Start Time: 5.37 min
End Time: 5.96 min

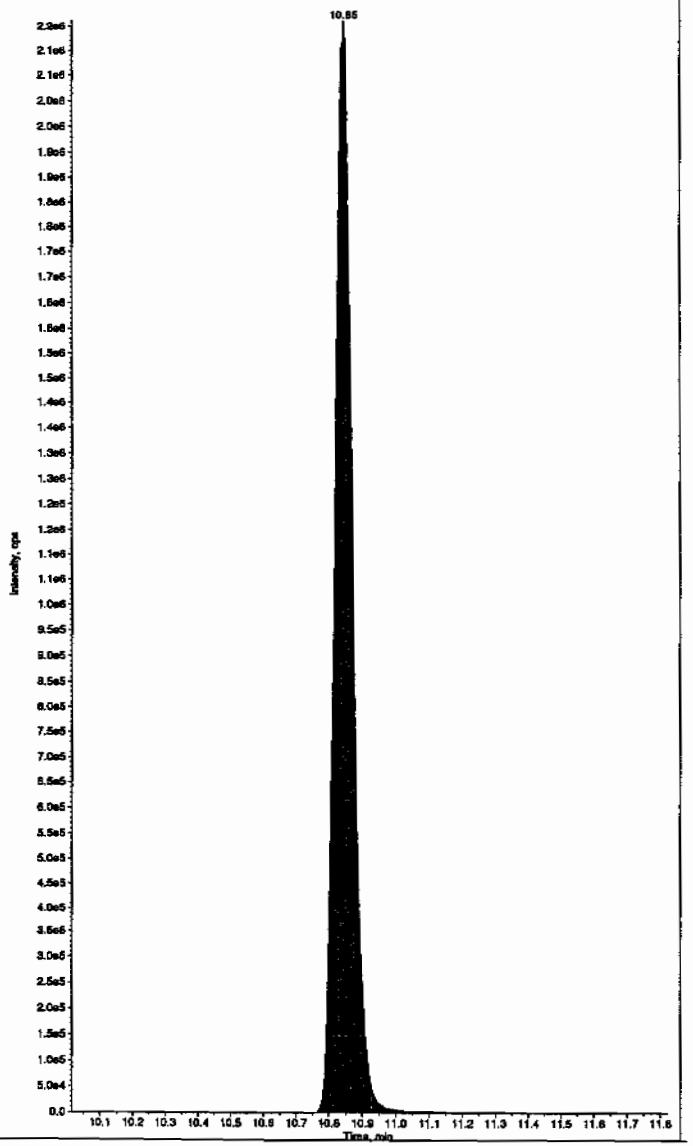


Sample Name: "1202040460" Sample ID: "952043[2]LER" File: "EXS03010036.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 518. ng/mL
Acq. Date: 3/1/2010
Acq. Time: 6:13:55 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: 10.8 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 10.8 min
Area: 8.07e+006 counts
Height: 2161609.131 cps
Start Time: 10.7 min
End Time: 11.2 min



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

MISCELLANEOUS DATA

Prep Logbook

Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 952041 **Verified by:** _____

Analyst: Sirena White

Method: SW846 8330 PREP

Lab SOP: GL-OA-E-033 REV# 17

Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202040457 MB	18-FEB-2010 16:58:00	2	10	5
1202040458 LCS	18-FEB-2010 16:58:00	2	10	5
246677001	18-FEB-2010 16:58:00	2	10	5
1202040459 MS (246677001)	18-FEB-2010 16:58:00	2	10	5
1202040460 MSD (246677001)	18-FEB-2010 16:58:00	2	10	5
246677002	18-FEB-2010 16:58:00	2	10	5
246677003	18-FEB-2010 16:58:00	2	10	5
246677004	18-FEB-2010 16:58:00	2	10	5
246677005	18-FEB-2010 16:58:00	2	10	5
246677006	18-FEB-2010 16:58:00	2	10	5
246677007	18-FEB-2010 16:58:00	2	10	5
246677008	18-FEB-2010 16:58:00	2	10	5
246682002	18-FEB-2010 16:58:00	2	10	5
246682003	18-FEB-2010 16:58:00	2	10	5
246682004	18-FEB-2010 16:58:00	2	10	5
246682005	18-FEB-2010 16:58:00	2	10	5
246682006	18-FEB-2010 16:58:00	2	10	5
246682007	18-FEB-2010 16:58:00	2	10	5
246682008	18-FEB-2010 16:58:00	2	10	5
246682009	18-FEB-2010 16:58:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1202040458	8321 Explosives LCS	IXX100208-03	.1	mL
LCS	1202040458	8321 LANL Explosives Mix 10mg/L	UXX100210-02.2	1	mL
MS	1202040459	8321 Explosives LCS	IXX100208-03	.1	mL
MS	1202040459	8321 LANL Explosives Mix 10mg/L	UXX100210-02.2	1	mL
MSD	1202040460	8321 Explosives LCS	IXX100208-03	.1	mL
MSD	1202040460	8321 LANL Explosives Mix 10mg/L	UXX100210-02.2	1	mL
SURR	All	3,4-Dinitrotoluene (8330 Surr.) 100ppm	IXP100215-02	.05	mL
SURR	All	3,4-Dinitrotoluene (8330 Surr.) 100ppm	IXP100218-02	.05	mL

Comments:

Final Solvent: ACN

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date:03/11/10
Extr. Injection Volume: 50uL
Sequence Number: 031110expA
Initial Calibration Date: 03/11/10

Method: SW846 8321A-Modified
Int. Std.: UXX1000220-02.3
Mobile Phase Lot#: 1277087, 1268566
Standard-Samp Reagent Lot#: 1274562, 1271949

Reviewed BY: [illegible]
Date: 03/13/10
SOP: GL-OA-E-056 Rev.12
Alt Check Std. ID: WXX100311-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0311001a	XIBLK01	MAP	3/11/10 10:41			1		USE	B
EXP0311002a	XIBLK01	MAP	3/11/10 11:10			1		USE	B
EXP0311003a	WXXICAL-01	MAP	3/11/10 11:40			1		USE	I
EXP0311004a	WXXICAL-02	MAP	3/11/10 12:09			1		USE	I
EXP0311005a	WXXICAL-03	MAP	3/11/10 12:39			1		USE	I
EXP0311006a	WXXICAL-04	MAP	3/11/10 13:08			1		USE	I
EXP0311007a	WXXICAL-05	MAP	3/11/10 13:38			1		USE	I
EXP0311008a	WXXICAL-06	MAP	3/11/10 14:07			1		USE	I
EXP0311009a	XIBLK02	MAP	3/11/10 14:37			1		USE	B
EXP0311010a	WXXICV	MAP	3/11/10 15:06			1		USE	C
EXP0311011a	XIBLK03	MAP	3/11/10 15:35			1		USE	B
EXP0311012a	WXXCRI	MAP	3/11/10 16:05			1		USE	C
EXP0311013a	1202040457	MAP	3/11/10 16:38	952043	Various	2	LANL	USE	S
EXP0311014a	1202040458	MAP	3/11/10 17:07	952043	Various	2	LANL	USE	S
EXP0311015a	246677001	MAP	3/11/10 17:37	952043	10-1703	2	LANL	USE	S
EXP0311016a	1202040459	MAP	3/11/10 18:06	952043	10-1703	2	LANL	USE	S
EXP0311017a	1202040460	MAP	3/11/10 18:36	952043	10-1703	2	LANL	USE	S
EXP0311018a	246677002	MAP	3/11/10 19:05	952043	10-1703	2	LANL	USE	S
EXP0311019a	246677003	MAP	3/11/10 19:34	952043	10-1703	2	LANL	USE	S
EXP0311020a	246677004	MAP	3/11/10 20:04	952043	10-1703	2	LANL	USE	S
EXP0311021a	246677005	MAP	3/11/10 20:33	952043	10-1703	2	LANL	USE	S
EXP0311022a	246677006	MAP	3/11/10 21:03	952043	10-1703	2	LANL	USE	S
EXP0311023a	WXXCCV	MAP	3/11/10 21:32			1		USE	C
EXP0311024a	XIBLK04	MAP	3/11/10 22:02			1		USE	B
EXP0311025a	WXXCRI	MAP	3/11/10 22:31			1		USE	C
EXP0311026a	246677007	MAP	3/11/10 23:01	952043	10-1703	2	LANL	DUSE-RA	S
EXP0311027a	246677008	MAP	3/11/10 23:30	952043	10-1703	2	LANL	DUSE-RA	S
EXP0311028a	246682002	MAP	3/12/10 0:00	952043	10-1706	2	LANL	DUSE-RA	S
EXP0311029a	246682003	MAP	3/12/10 0:29	952043	10-1706	2	LANL	DUSE-RA	S

EXP0311030a	246682004	MAP	3/12/10 0:59	952043	10-1706	2	LANL	DUSE-RA	S
EXP0311031a	246682005	MAP	3/12/10 1:28	952043	10-1706	2	LANL	DUSE-RA	S
EXP0311032a	246682006	MAP	3/12/10 1:58	952043	10-1706	2	LANL	DUSE-RA	S
EXP0311033a	246682007	MAP	3/12/10 2:27	952043	10-1706	2	LANL	DUSE-RA	S
EXP0311034a	246682008	MAP	3/12/10 2:57	952043	10-1706	2	LANL	DUSE-RA	S
EXP0311035a	246682009	MAP	3/12/10 3:26	952043	10-1706	2	LANL	DUSE-RA	S
EXP0311036a	WXXCCV	MAP	3/12/10 3:56			1		DUSE	C
EXP0311037a	XIBLK05	MAP	3/12/10 4:25			1		DUSE	B
EXP0311038a	WXXCRI	MAP	3/12/10 4:55			1		DUSE	C
EXP0311039a	1202049788	MAP	3/12/10 5:24	956029	Various	2	LANL	DUSE-RA	S
EXP0311040a	1202049789	MAP	3/12/10 5:54	956029	Various	2	LANL	DUSE-RA	S
EXP0311041a	247429004	MAP	3/12/10 6:23	956029	10-1926	2	LANL	DUSE-RA	S
EXP0311042a	1202049790	MAP	3/12/10 6:53	956029	10-1926	2	LANL	DUSE-RA	S
EXP0311043a	1202049791	MAP	3/12/10 7:22	956029	10-1926	2	LANL	DUSE-RA	S
EXP0311044a	247432006	MAP	3/12/10 7:52	956029	10-1928	2	LANL	DUSE-RA	S
EXP0311045a	1202049868	MAP	3/12/10 8:21	956029	10-1928	2	LANL	DUSE-RA	S
EXP0311046a	1202049869	MAP	3/12/10 8:51	956029	10-1928	2	LANL	DUSE-RA	S
EXP0311047a	247437006	MAP	3/12/10 9:20	956029	10-1931	2	LANL	DUSE-RA	S
EXP0311048a	WXXCCV	MAP	3/12/10 9:50			1		DUSE	C
EXP0311049a	XIBLK06	MAP	3/12/10 10:19			1		DUSE	B
EXP0311050a	WXXCRI	MAP	3/12/10 10:49			1		DUSE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date:03/12/10
Extr. Injection Volume: 50uL
Sequence Number: 031210expA
Initial Calibration Date: 03/12/10

Method: SW846 8321A-Modified
Int. Std.: UXX100220-02.2
Mobile Phase Lot#: 1283854, 1291642
Standard-Samp Reagent Lot#: 1283379, 1271949

Reviewed BY: HAM
Date: 03/12/10
SOP: GL-OA-E-056 Rev.12
Alt Check Std. ID: WXX100312-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0312001a	XIBLK01	MAP	3/12/10 16:06			1		USE	B
EXP0312002a	XIBLK01	MAP	3/12/10 16:35			1		USE	B
EXP0312003a	WXXICAL-01	MAP	3/12/10 17:05			1		USE	I
EXP0312004a	WXXICAL-02	MAP	3/12/10 17:34			1		USE	I
EXP0312005a	WXXICAL-03	MAP	3/12/10 18:04			1		USE	I
EXP0312006a	WXXICAL-04	MAP	3/12/10 18:33			1		USE	I
EXP0312007a	WXXICAL-05	MAP	3/12/10 19:03			1		USE	I
EXP0312008a	WXXICAL-06	MAP	3/12/10 19:32			1		USE	I
EXP0312009a	XIBLK02	MAP	3/12/10 20:01			1		USE	B
EXP0312010a	WXXICV	MAP	3/12/10 20:31			1		USE	C
EXP0312011a	XIBLK03	MAP	3/12/10 21:00			1		USE	B
EXP0312012a	WXXCRI	MAP	3/12/10 21:30			1		USE	C
EXP0312013a	246677007	MAP	3/12/10 21:59	952043	10-1703	2	LANL	USE	S
EXP0312014a	246677008	MAP	3/12/10 22:29	952043	10-1703	2	LANL	USE	S
EXP0312015a	246682002	MAP	3/12/10 22:58	952043	10-1706	2	LANL	USE	S
EXP0312016a	246682003	MAP	3/12/10 23:28	952043	10-1706	2	LANL	USE	S
EXP0312017a	246682004	MAP	3/12/10 23:57	952043	10-1706	2	LANL	USE	S
EXP0312018a	246682005	MAP	3/13/10 0:27	952043	10-1706	2	LANL	USE	S
EXP0312019a	246682006	MAP	3/13/10 0:56	952043	10-1706	2	LANL	USE	S
EXP0312020a	246682007	MAP	3/13/10 1:26	952043	10-1706	20	LANL	USE	S
EXP0312021a	246682007	MAP	3/13/10 1:55	952043	10-1706	2	LANL	USE	S
EXP0312022a	XIBLK04	MAP	3/13/10 2:25			1		USE	B
EXP0312023a	WXXCCV	MAP	3/13/10 2:54			1		USE	C
EXP0312024a	XIBLK05	MAP	3/13/10 3:24			1		USE	B
EXP0312025a	WXXCRI	MAP	3/13/10 3:53			1		USE	C
EXP0312026a	246682008	MAP	3/13/10 4:23	952043	10-1706	2	LANL	USE	S
EXP0312027a	246682009	MAP	3/13/10 4:52	952043	10-1706	2	LANL	USE	S
EXP0312028a	WXXCCV	MAP	3/13/10 5:22			1		USE	C
EXP0312029a	XIBLK06	MAP	3/13/10 5:51			1		USE	B
EXP0312030a	WXXCRI	MAP	3/13/10 6:21			1		USE	C

GEL ORGANIC RUN LOG INSTRUMENT ID: LCMSMS4

Date: 02/26/10 Method: 8321A-Modified Reviewed By: [illegible]
Extr. Injection Volume: 10uL Int. Std.: N/A Date: 03/01/10
Sequence Number: 022610exs Mobile Phase Lot#:1268566, 1268568 SOP: GL-OA-E-056 Rev.12
Initial Calibration Date: 022610 Standard-Samp Reagent Lot# :1274562, 1261217 Alt Check Std. ID: WXX100226-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS02260001.wiff	XIBLK01	LER	2/26/2010 14:53			1		USE	B
EXS02260002.wiff	XIBLK01	LER	2/26/2010 15:09			1		USE	B
EXS02260003.wiff	WXXICAL-19	LER	2/26/2010 15:25			1		USE	I
EXS02260004.wiff	WXXICAL-20	LER	2/26/2010 15:41			1		USE	I
EXS02260005.wiff	WXXICAL-21	LER	2/26/2010 15:56			1		USE	I
EXS02260006.wiff	WXXICAL-22	LER	2/26/2010 16:12			1		USE	I
EXS02260007.wiff	WXXICAL-23	LER	2/26/2010 16:28			1		USE	I
EXS02260008.wiff	WXXICAL-24	LER	2/26/2010 16:43			1		USE	I
EXS02260009.wiff	WXXICAL-25	LER	2/26/2010 16:59			1		USE	I
EXS02260010.wiff	XIBLK02	LER	2/26/2010 17:15			1		USE	B
EXS02260011.wiff	WXXICV	LER	2/26/2010 17:31			1		USE	C
EXS02260012.wiff	XIBLK03	LER	2/26/2010 17:46			1		USE	B
EXS02260013.wiff	WXXCRI	LER	2/26/2010 18:02			1		USE	C
EXS02260014.wiff	246837005	LER	2/26/2010 18:18	952679	10-1747	2	LANL	USE	S
EXS02260015.wiff	246837006	LER	2/26/2010 18:33	952679	10-1747	2	LANL	USE	S
EXS02260016.wiff	246841001	LER	2/26/2010 18:49	952679	10-1748	2	LANL	USE	S
EXS02260017.wiff	246841002	LER	2/26/2010 19:05	952679	10-1748	2	LANL	USE	S
EXS02260018.wiff	246841003	LER	2/26/2010 19:21	952679	10-1748	2	LANL	USE	S
EXS02260019.wiff	246843002	LER	2/26/2010 19:36	952679	10-1749	2	LANL	USE	S
EXS02260020.wiff	246843003	LER	2/26/2010 19:52	952679	10-1749	2	LANL	USE	S
EXS02260021.wiff	246843004	LER	2/26/2010 20:08	952679	10-1749	2	LANL	USE	S
EXS02260022.wiff	246846001	LER	2/26/2010 20:23	952679	10-1750	2	LANL	USE	S
EXS02260023.wiff	246846002	LER	2/26/2010 20:39	952679	10-1750	2	LANL	USE	S
EXS02260024.wiff	WXXCCV	LER	2/26/2010 20:55			1		USE	C
EXS02260025.wiff	XIBLK04	LER	2/26/2010 21:10			1		USE	B
EXS02260026.wiff	WXXCRI	LER	2/26/2010 21:26			1		USE	C
EXS02260027.wiff	246847001	LER	2/26/2010 21:42	952679	10-1751	2	LANL	USE	S
EXS02260028.wiff	246847002	LER	2/26/2010 21:58	952679	10-1751	2	LANL	USE	S
EXS02260029.wiff	XIBLK05	LER	2/26/2010 22:13			1		USE	B
EXS02260030.wiff	1202032874	LER	2/26/2010 22:29	948888	10-1543	2	LANL	USE	S

EXS02260031.wiff	1202032875	LER	2/26/2010 22:45	948888	10-1543	2	LANL	USE	S
EXS02260032.wiff	246066001	LER	2/26/2010 23:01	948888	10-1543	2	LANL	USE	S
EXS02260033.wiff	1202032876	LER	2/26/2010 23:16	948888	10-1543	2	LANL	USE	S
EXS02260034.wiff	1202032877	LER	2/26/2010 23:32	948888	10-1543	2	LANL	USE	S
EXS02260035.wiff	246066002	LER	2/26/2010 23:48	948888	10-1543	2	LANL	USE	S
EXS02260036.wiff	246066003	LER	2/27/2010 0:03	948888	10-1543	2	LANL	USE	S
EXS02260037.wiff	WXXCCV	LER	2/27/2010 0:19			1		USE	C
EXS02260038.wiff	XIBLK06	LER	2/27/2010 0:35			1		USE	B
EXS02260039.wiff	WXXCRI	LER	2/27/2010 0:51			1		USE	C
EXS02260040.wiff	246066004	LER	2/27/2010 1:06	948888	10-1543	2	LANL	USE	S
EXS02260041.wiff	246066005	LER	2/27/2010 1:22	948888	10-1543	2	LANL	USE	S
EXS02260042.wiff	246066006	LER	2/27/2010 1:38	948888	10-1543	2	LANL	USE	S
EXS02260043.wiff	246066007	LER	2/27/2010 1:53	948888	10-1543	2	LANL	USE	S
EXS02260044.wiff	246066008	LER	2/27/2010 2:09	948888	10-1543	2	LANL	USE	S
EXS02260045.wiff	246066009	LER	2/27/2010 2:25	948888	10-1543	2	LANL	USE	S
EXS02260046.wiff	246066010	LER	2/27/2010 2:40	948888	10-1543	2	LANL	USE	S
EXS02260047.wiff	246066011	LER	2/27/2010 2:56	948888	10-1543	2	LANL	USE	S
EXS02260048.wiff	246066012	LER	2/27/2010 3:12	948888	10-1543	2	LANL	USE	S
EXS02260049.wiff	246066013	LER	2/27/2010 3:28	948888	10-1543	2	LANL	USE	S
EXS02260050.wiff	WXXCCV	LER	2/27/2010 3:43			1		USE	C
EXS02260051.wiff	XIBLK07	LER	2/27/2010 3:59			1		USE	B
EXS02260052.wiff	WXXCRI	LER	2/27/2010 4:15			1		USE	C
EXS02260053.wiff	246066014	LER	2/27/2010 4:30	948888	10-1543	2	LANL	USE	S
EXS02260054.wiff	246066015	LER	2/27/2010 4:46	948888	10-1543	2	LANL	USE	S
EXS02260055.wiff	246066016	LER	2/27/2010 5:02	948888	10-1543	2	LANL	USE	S
EXS02260056.wiff	246066017	LER	2/27/2010 5:18	948888	10-1543	2	LANL	USE	S
EXS02260057.wiff	246066018	LER	2/27/2010 5:33	948888	10-1543	2	LANL	USE	S
EXS02260058.wiff	246066019	LER	2/27/2010 5:49	948888	10-1543	2	LANL	USE	S
EXS02260059.wiff	246066020	LER	2/27/2010 6:05	948888	10-1543	2	LANL	USE	S
EXS02260060.wiff	WXXCCV	LER	2/27/2010 6:20			1		USE	C
EXS02260061.wiff	XIBLK08	LER	2/27/2010 6:36			1		USE	B
EXS02260062.wiff	WXXCRI	LER	2/27/2010 6:52			1		USE	C
EXS02260063.wiff	1202045764	LER	2/27/2010 7:07	954338	VARIOUS	2	LANL	USE	S
EXS02260064.wiff	1202045765	LER	2/27/2010 7:23	954338	VARIOUS	2	LANL	USE	S
EXS02260065.wiff	247083001	LER	2/27/2010 7:39	954338	10-1827	2	LANL	USE	S
EXS02260066.wiff	1202045766	LER	2/27/2010 7:55	954338	10-1827	2	LANL	USE	S
EXS02260067.wiff	1202045767	LER	2/27/2010 8:10	954338	10-1827	2	LANL	USE	S

EXS02260068.wiff	247083002	LER	2/27/2010 8:26	954338	10-1827	2	LANL	USE	S
EXS02260069.wiff	247083003	LER	2/27/2010 8:42	954338	10-1827	2	LANL	USE	S
EXS02260070.wiff	247083004	LER	2/27/2010 8:57	954338	10-1827	2	LANL	USE	S
EXS02260071.wiff	247084001	LER	2/27/2010 9:13	954338	10-1828	2	LANL	USE	S
EXS02260072.wiff	247084002	LER	2/27/2010 9:29	954338	10-1828	2	LANL	USE	S
EXS02260073.wiff	WXXCCV	LER	2/27/2010 9:44			1		USE	C
EXS02260074.wiff	XIBLK09	LER	2/27/2010 10:00			1		USE	B
EXS02260075.wiff	WXXCRI	LER	2/27/2010 10:16			1		USE	C
EXS02260076.wiff	247086001	LER	2/27/2010 10:32	954338	10-1829	2	LANL	USE	S
EXS02260077.wiff	247088001	LER	2/27/2010 10:47	954338	10-1830	2	LANL	USE	S
EXS02260078.wiff	247088002	LER	2/27/2010 11:03	954338	10-1830	2	LANL	USE	S
EXS02260079.wiff	247088003	LER	2/27/2010 11:19	954338	10-1830	2	LANL	USE	S
EXS02260080.wiff	247091001	LER	2/27/2010 11:34	954338	10-1831	2	LANL	USE	S
EXS02260081.wiff	247091002	LER	2/27/2010 11:50	954338	10-1831	2	LANL	USE	S
EXS02260082.wiff	247094001	LER	2/27/2010 12:06	954338	10-1832	2	LANL	USE	S
EXS02260083.wiff	247094002	LER	2/27/2010 12:21	954338	10-1832	2	LANL	USE	S
EXS02260084.wiff	247121002	LER	2/27/2010 12:37	954338	10-1846	2	LANL	USE	S
EXS02260085.wiff	247123001	LER	2/27/2010 12:53	954338	10-1848	2	LANL	USE	S
EXS02260086.wiff	WXXCCV	LER	2/27/2010 13:09			1		USE	C
EXS02260087.wiff	XIBLK10	LER	2/27/2010 13:24			1		USE	B
EXS02260088.wiff	WXXCRI	LER	2/27/2010 13:40			1		USE	C
EXS02260089.wiff	247123002	LER	2/27/2010 13:56	954338	10-1848	2	LANL	USE	S
EXS02260090.wiff	247123003	LER	2/27/2010 14:11	954338	10-1848	2	LANL	USE	S
EXS02260091.wiff	247123004	LER	2/27/2010 14:27	954338	10-1848	2	LANL	USE	S
EXS02260092.wiff	XIBLK11	LER	2/27/2010 14:43			1		USE	B
EXS02260093.wiff	1202032878	LER	2/27/2010 14:59	948890	10-1544	2	LANL	USE	S
EXS02260094.wiff	1202032879	LER	2/27/2010 15:14	948890	10-1544	2	LANL	USE	S
EXS02260095.wiff	246070001	LER	2/27/2010 15:30	948890	10-1544	2	LANL	USE	S
EXS02260096.wiff	1202032880	LER	2/27/2010 15:46	948890	10-1544	2	LANL	USE	S
EXS02260097.wiff	1202032881	LER	2/27/2010 16:01	948890	10-1544	2	LANL	USE	S
EXS02260098.wiff	246070002	LER	2/27/2010 16:17	948890	10-1544	2	LANL	USE	S
EXS02260099.wiff	WXXCCV	LER	2/27/2010 16:33			1		USE	C
EXS02260100.wiff	XIBLK12	LER	2/27/2010 16:48			1		USE	B
EXS02260101.wiff	WXXCRI	LER	2/27/2010 17:04			1		USE	C
EXS02260102.wiff	246070003	LER	2/27/2010 17:20	948890	10-1544	2	LANL	USE	S
EXS02260103.wiff	246070004	LER	2/27/2010 17:35	948890	10-1544	2	LANL	USE	S
EXS02260104.wiff	246070005	LER	2/27/2010 17:51	948890	10-1544	2	LANL	USE	S

EXS02260105.wiff	246070006	LER	2/27/2010 18:07	948890	10-1544	2	LANL	USE	S
EXS02260106.wiff	246070007	LER	2/27/2010 18:23	948890	10-1544	2	LANL	USE	S
EXS02260107.wiff	246070008	LER	2/27/2010 18:38	948890	10-1544	2	LANL	USE	S
EXS02260108.wiff	246070009	LER	2/27/2010 18:54	948890	10-1544	2	LANL	USE	S
EXS02260109.wiff	246070010	LER	2/27/2010 19:10	948890	10-1544	2	LANL	USE	S
EXS02260110.wiff	246070011	LER	2/27/2010 19:25	948890	10-1544	2	LANL	USE	S
EXS02260111.wiff	246070012	LER	2/27/2010 19:41	948890	10-1544	2	LANL	USE	S
EXS02260112.wiff	WXXCCV	LER	2/27/2010 19:57			1		USE	C
EXS02260113.wiff	XIBLK13	LER	2/27/2010 20:12			1		USE	B
EXS02260114.wiff	WXXCRI	LER	2/27/2010 20:28			1		USE	C
EXS02260115.wiff	246070013	LER	2/27/2010 20:44	948890	10-1544	2	LANL	USE	S
EXS02260116.wiff	246070014	LER	2/27/2010 21:00	948890	10-1544	2	LANL	USE	S
EXS02260117.wiff	246070015	LER	2/27/2010 21:15	948890	10-1544	2	LANL	USE	S
EXS02260118.wiff	246070016	LER	2/27/2010 21:31	948890	10-1544	2	LANL	USE	S
EXS02260119.wiff	246070017	LER	2/27/2010 21:47	948890	10-1544	2	LANL	USE	S
EXS02260120.wiff	246070018	LER	2/27/2010 22:02	948890	10-1544	2	LANL	USE	S
EXS02260121.wiff	246070019	LER	2/27/2010 22:18	948890	10-1544	2	LANL	USE	S
EXS02260122.wiff	246070020	LER	2/27/2010 22:34	948890	10-1544	2	LANL	USE	S
EXS02260123.wiff	WXXCCV	LER	2/27/2010 22:49			1		USE	C
EXS02260124.wiff	XIBLK14	LER	2/27/2010 23:05			1		USE	B
EXS02260125.wiff	WXXCRI	LER	2/27/2010 23:21			1		USE	C
EXS02260126.wiff	1202032884	LER	2/27/2010 23:36	948893	10-1545	2	LANL	USE	S
EXS02260127.wiff	1202032885	LER	2/27/2010 23:52	948893	10-1545	2	LANL	USE	S
EXS02260128.wiff	246055001	LER	2/28/2010 0:08	948893	10-1545	2	LANL	USE	S
EXS02260129.wiff	1202032886	LER	2/28/2010 0:24	948893	10-1545	2	LANL	USE	S
EXS02260130.wiff	1202032887	LER	2/28/2010 0:39	948893	10-1545	2	LANL	USE	S
EXS02260131.wiff	246055002	LER	2/28/2010 0:55	948893	10-1545	2	LANL	USE	S
EXS02260132.wiff	246055003	LER	2/28/2010 1:11	948893	10-1545	2	LANL	USE	S
EXS02260133.wiff	246055004	LER	2/28/2010 1:26	948893	10-1545	2	LANL	USE	S
EXS02260134.wiff	246055005	LER	2/28/2010 1:42	948893	10-1545	2	LANL	USE	S
EXS02260135.wiff	246055006	LER	2/28/2010 1:58	948893	10-1545	2	LANL	USE	S
EXS02260136.wiff	WXXCCV	LER	2/28/2010 2:14			1		USE	C
EXS02260137.wiff	XIBLK15	LER	2/28/2010 2:29			1		USE	B
EXS02260138.wiff	WXXCRI	LER	2/28/2010 2:45			1		USE	C
EXS02260139.wiff	246055007	LER	2/28/2010 3:01	948893	10-1545	2	LANL	USE	S
EXS02260140.wiff	246055008	LER	2/28/2010 3:17	948893	10-1545	2	LANL	USE	S
EXS02260141.wiff	246055009	LER	2/28/2010 3:32	948893	10-1545	2	LANL	USE	S

EXS02260142.wiff	UXX100122-01.3	LER	2/28/2010 3:48	SCREEN	SOLID	2	O2SI	USE	S
EXS02260143.wiff	XIBLK16	LER	2/28/2010 4:04			1		USE	B
EXS02260144.wiff	1202040473	LER	2/28/2010 4:20	952049	VARIOUS	2	LANL	USE	S
EXS02260145.wiff	1202040474	LER	2/28/2010 4:36	952049	VARIOUS	2	LANL	USE	S
EXS02260146.wiff	246713001	LER	2/28/2010 4:51	952049	10-1728	2	LANL	USE	S
EXS02260147.wiff	1202040475	LER	2/28/2010 5:07	952049	10-1728	2	LANL	USE	S
EXS02260148.wiff	1202040476	LER	2/28/2010 5:23	952049	10-1728	2	LANL	USE	S
EXS02260149.wiff	WXXCCV	LER	2/28/2010 5:38			1		USE	C
EXS02260150.wiff	XIBLK17	LER	2/28/2010 5:54			1		USE	B
EXS02260151.wiff	WXXCRI	LER	2/28/2010 6:10			1		USE	C
EXS02260152.wiff	246713002	LER	2/28/2010 6:26	952049	10-1728	2	LANL	USE	S
EXS02260153.wiff	246713003	LER	2/28/2010 6:41	952049	10-1728	2	LANL	USE	S
EXS02260154.wiff	246713004	LER	2/28/2010 6:57	952049	10-1728	2	LANL	USE	S
EXS02260155.wiff	246713005	LER	2/28/2010 7:13	952049	10-1728	2	LANL	USE	S
EXS02260156.wiff	246713006	LER	2/28/2010 7:29	952049	10-1728	2	LANL	USE	S
EXS02260157.wiff	246713007	LER	2/28/2010 7:44	952049	10-1728	2	LANL	USE	S
EXS02260158.wiff	246713008	LER	2/28/2010 8:00	952049	10-1728	2	LANL	USE	S
EXS02260159.wiff	246734001	LER	2/28/2010 8:16	952049	10-1731-1	2	LANL	USE	S
EXS02260160.wiff	246736001	LER	2/28/2010 8:31	952049	10-1732	2	LANL	USE	S
EXS02260161.wiff	246736002	LER	2/28/2010 8:47	952049	10-1732	2	LANL	USE	S
EXS02260162.wiff	WXXCCV	LER	2/28/2010 9:03			1		USE	C
EXS02260163.wiff	XIBLK18	LER	2/28/2010 9:19			1		USE	B
EXS02260164.wiff	WXXCRI	LER	2/28/2010 9:34			1		USE	C
EXS02260165.wiff	246739002	LER	2/28/2010 9:50	952049	10-1733	2	LANL	USE	S
EXS02260166.wiff	246739003	LER	2/28/2010 10:06	952049	10-1733	2	LANL	USE	S
EXS02260167.wiff	246739004	LER	2/28/2010 10:22	952049	10-1733	2	LANL	USE	S
EXS02260168.wiff	246739005	LER	2/28/2010 10:37	952049	10-1733	2	LANL	USE	S
EXS02260169.wiff	246739006	LER	2/28/2010 10:53	952049	10-1733	2	LANL	USE	S
EXS02260170.wiff	246739007	LER	2/28/2010 11:09	952049	10-1733	2	LANL	USE	S
EXS02260171.wiff	246739008	LER	2/28/2010 11:25	952049	10-1733	2	LANL	USE	S
EXS02260172.wiff	246739009	LER	2/28/2010 11:40	952049	10-1733	2	LANL	USE	S
EXS02260173.wiff	246739010	LER	2/28/2010 11:56	952049	10-1733	2	LANL	USE	S
EXS02260174.wiff	WXXCCV	LER	2/28/2010 12:12			1		USE	C
EXS02260175.wiff	XIBLK19	LER	2/28/2010 12:28			1		USE	B
EXS02260176.wiff	WXXCRI	LER	2/28/2010 12:43			1		USE	C
EXS02260177.wiff	1202040477	LER	2/28/2010 12:59	952051	VARIOUS	2	LANL	USE	S
EXS02260178.wiff	1202040478	LER	2/28/2010 13:15	952051	VARIOUS	2	LANL	USE	S

EXS02260179.wiff	246732002	LER	2/28/2010 13:30	952051	10-1742	2	LANL	USE	S
EXS02260180.wiff	246732003	LER	2/28/2010 13:46	952051	10-1742	2	LANL	USE	S
EXS02260181.wiff	246732004	LER	2/28/2010 14:02	952051	10-1742	2	LANL	USE	S
EXS02260182.wiff	246732005	LER	2/28/2010 14:18	952051	10-1742	2	LANL	USE	S
EXS02260183.wiff	246732006	LER	2/28/2010 14:33	952051	10-1742	2	LANL	USE	S
EXS02260184.wiff	246744002	LER	2/28/2010 14:49	952051	10-1736	2	LANL	USE	S
EXS02260185.wiff	1202040479	LER	2/28/2010 15:05	952051	10-1736	2	LANL	USE	S
EXS02260186.wiff	1202040480	LER	2/28/2010 15:20	952051	10-1736	2	LANL	USE	S
EXS02260187.wiff	WXXCCV	LER	2/28/2010 15:36			1		USE	C
EXS02260188.wiff	XIBLK20	LER	2/28/2010 15:52			1		USE	B
EXS02260189.wiff	WXXCRI	LER	2/28/2010 16:08			1		USE	C
EXS02260190.wiff	246744003	LER	2/28/2010 16:23	952051	10-1736	2	LANL	DUSE-RA	S
EXS02260191.wiff	246744004	LER	2/28/2010 16:39	952051	10-1736	2	LANL	DUSE-RA	S
EXS02260192.wiff	246752002	LER	2/28/2010 16:55	952051	10-1745	2	LANL	DUSE-RA	S
EXS02260193.wiff	246752003	LER	2/28/2010 17:11	952051	10-1745	2	LANL	DUSE-RA	S
EXS02260194.wiff	246760001	LER	2/28/2010 17:27	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260195.wiff	246760002	LER	2/28/2010 17:42	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260196.wiff	246760003	LER	2/28/2010 17:58	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260197.wiff	246760004	LER	2/28/2010 18:14	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260198.wiff	246760005	LER	2/28/2010 18:29	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260199.wiff	246760006	LER	2/28/2010 18:45	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260200.wiff	WXXCCV	LER	2/28/2010 19:01			1		DUSE-RA	C
EXS02260201.wiff	XIBLK21	LER	2/28/2010 19:17			1		DUSE-RA	B
EXS02260202.wiff	WXXCRI	LER	2/28/2010 19:32			1		DUSE-RA	C
EXS02260203.wiff	246760007	LER	2/28/2010 19:48	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260204.wiff	246760008	LER	2/28/2010 20:04	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260205.wiff	246760009	LER	2/28/2010 20:20	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260206.wiff	246760010	LER	2/28/2010 20:35	952051	10-1739	2	LANL	DUSE-RA	S
EXS02260207.wiff	XIBLK22	LER	2/28/2010 20:51			1		DUSE-RA	B
EXS02260208.wiff	1202040457	LER	2/28/2010 21:07	952043	VARIOUS	2	LANL	DUSE-RA	S
EXS02260209.wiff	1202040458	LER	2/28/2010 21:23	952043	VARIOUS	2	LANL	DUSE-RA	S
EXS02260210.wiff	246677001	LER	2/28/2010 21:38	952043	10-1703	2	LANL	DUSE-RA	S
EXS02260211.wiff	1202040459	LER	2/28/2010 21:54	952043	10-1703	2	LANL	DUSE-RA	S
EXS02260212.wiff	1202040460	LER	2/28/2010 22:10	952043	10-1703	2	LANL	DUSE-RA	S
EXS02260213.wiff	WXXCCV	LER	2/28/2010 22:26			1		USE	C
EXS02260214.wiff	XIBLK23	LER	2/28/2010 22:41			1		USE	B
EXS02260215.wiff	WXXCRI	LER	2/28/2010 22:57			1		USE	C

EXS02260216.wiff	246677002	LER	2/28/2010 23:13	952043	10-1703	2	LANL	USE	S
EXS02260217.wiff	246677003	LER	2/28/2010 23:29	952043	10-1703	2	LANL	USE	S
EXS02260218.wiff	246677004	LER	2/28/2010 23:44	952043	10-1703	2	LANL	USE	S
EXS02260219.wiff	246677005	LER	3/1/2010 0:00	952043	10-1703	2	LANL	USE	S
EXS02260220.wiff	246677006	LER	3/1/2010 0:16	952043	10-1703	2	LANL	USE	S
EXS02260221.wiff	246677007	LER	3/1/2010 0:31	952043	10-1703	2	LANL	USE	S
EXS02260222.wiff	246677008	LER	3/1/2010 0:47	952043	10-1703	2	LANL	USE	S
EXS02260223.wiff	246682002	LER	3/1/2010 1:03	952043	10-1706	2	LANL	USE	S
EXS02260224.wiff	WXXCCV	LER	3/1/2010 1:19			1		USE	C
EXS02260225.wiff	XIBLK24	LER	3/1/2010 1:34			1		USE	B
EXS02260226.wiff	WXXCRI	LER	3/1/2010 1:50			1		USE	C
EXS02260227.wiff	246682003	LER	3/1/2010 2:06	952043	10-1706	2	LANL	USE	S
EXS02260228.wiff	246682004	LER	3/1/2010 2:22	952043	10-1706	2	LANL	USE	S
EXS02260229.wiff	246682005	LER	3/1/2010 2:37	952043	10-1706	2	LANL	USE	S
EXS02260230.wiff	246682006	LER	3/1/2010 2:53	952043	10-1706	2	LANL	USE	S
EXS02260231.wiff	246682007	LER	3/1/2010 3:09	952043	10-1706	2	LANL	USE	S
EXS02260232.wiff	246682008	LER	3/1/2010 3:24	952043	10-1706	2	LANL	USE	S
EXS02260233.wiff	246682009	LER	3/1/2010 3:40	952043	10-1706	2	LANL	USE	S
EXS02260234.wiff	WXXCCV	LER	3/1/2010 3:56			1		USE	C
EXS02260235.wiff	XIBLK25	LER	3/1/2010 4:12			1		USE	B
EXS02260236.wiff	WXXCRI	LER	3/1/2010 4:27			1		USE	C
EXS02260237.wiff	UXX100210-02.3	LER	3/1/2010 4:43	SCREEN	SOLID	2	O2SI	USE	S
EXS02260238.wiff	XIBLK26	LER	3/1/2010 4:59			1		USE	B
EXS02260239.wiff	1202032038	LER	3/1/2010 5:15	948558	VARIOUS	2	LANL	USE	S
EXS02260240.wiff	1202032039	LER	3/1/2010 5:31	948558	VARIOUS	2	LANL	USE	S
EXS02260241.wiff	1202032154	LER	3/1/2010 5:46	948558	VARIOUS	2	LANL	USE	S
EXS02260242.wiff	245928018	LER	3/1/2010 6:02	948558	10-1495	2	LANL	USE	S
EXS02260243.wiff	245928025	LER	3/1/2010 6:18	948558	10-1495	2	LANL	USE	S
EXS02260244.wiff	245932006	LER	3/1/2010 6:33	948558	10-1501	2	LANL	USE	S
EXS02260245.wiff	1202032040	LER	3/1/2010 6:49	948558	10-1501	2	LANL	USE	S
EXS02260246.wiff	1202032041	LER	3/1/2010 7:05	948558	10-1501	2	LANL	USE	S
EXS02260247.wiff	WXXCCV	LER	3/1/2010 7:21			1		USE	C
EXS02260248.wiff	XIBLK27	LER	3/1/2010 7:36			1		USE	B
EXS02260249.wiff	WXXCRI	LER	3/1/2010 7:52			1		USE	C

GEL ORGANIC RUN LOG INSTRUMENT ID: LCMSMS4

Date: 03/01/10 Method: 8321A-Modified Reviewed By: [illegible]
Extr. Injection Volume: 10uL Int. Std.: N/A Date: 03/04/10
Sequence Number: 030110exs Mobile Phase Lot#:1268566, 1268568 SOP: GL-OA-E-056 Rev.12
Initial Calibration Date: 030110 Standard-Samp Reagent Lot# :1274562, 1261217 Alt Check Std. ID: WXX100301-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03010001.wiff	XIBLK01	LER	3/1/2010 9:03			1		USE	B
EXS03010002.wiff	XIBLK01	LER	3/1/2010 9:19			1		USE	B
EXS03010003.wiff	WXXICAL-19	LER	3/1/2010 9:34			1		USE	I
EXS03010004.wiff	WXXICAL-20	LER	3/1/2010 9:50			1		USE	I
EXS03010005.wiff	WXXICAL-21	LER	3/1/2010 10:06			1		USE	I
EXS03010006.wiff	WXXICAL-22	LER	3/1/2010 10:21			1		USE	I
EXS03010007.wiff	WXXICAL-23	LER	3/1/2010 10:37			1		USE	I
EXS03010008.wiff	WXXICAL-24	LER	3/1/2010 10:53			1		USE	I
EXS03010009.wiff	WXXICAL-25	LER	3/1/2010 11:09			1		USE	I
EXS03010010.wiff	XIBLK02	LER	3/1/2010 11:24			1		USE	B
EXS03010011.wiff	WXXICV	LER	3/1/2010 11:40			1		USE	C
EXS03010012.wiff	XIBLK03	LER	3/1/2010 11:56			1		USE	B
EXS03010013.wiff	WXXCRI	LER	3/1/2010 12:11			1		USE	C
EXS03010014.wiff	246744003	LER	3/1/2010 12:27	952051	10-1736	2	LANL	USE	S
EXS03010015.wiff	246744004	LER	3/1/2010 12:43	952051	10-1736	2	LANL	USE	S
EXS03010016.wiff	246752002	LER	3/1/2010 12:59	952051	10-1745	2	LANL	USE	S
EXS03010017.wiff	246752003	LER	3/1/2010 13:14	952051	10-1745	2	LANL	USE	S
EXS03010018.wiff	246760001	LER	3/1/2010 13:30	952051	10-1739	2	LANL	USE	S
EXS03010019.wiff	246760002	LER	3/1/2010 13:46	952051	10-1739	2	LANL	USE	S
EXS03010020.wiff	246760003	LER	3/1/2010 14:01	952051	10-1739	2	LANL	USE	S
EXS03010021.wiff	246760004	LER	3/1/2010 14:17	952051	10-1739	2	LANL	USE	S
EXS03010022.wiff	246760005	LER	3/1/2010 14:33	952051	10-1739	2	LANL	USE	S
EXS03010023.wiff	246760006	LER	3/1/2010 14:49	952051	10-1739	2	LANL	USE	S
EXS03010024.wiff	WXXCCV	LER	3/1/2010 15:04			1		USE	C
EXS03010025.wiff	XIBLK04	LER	3/1/2010 15:20			1		USE	B
EXS03010026.wiff	WXXCRI	LER	3/1/2010 15:36			1		USE	C
EXS03010027.wiff	246760007	LER	3/1/2010 15:52	952051	10-1739	2	LANL	USE	S
EXS03010028.wiff	246760008	LER	3/1/2010 16:07	952051	10-1739	2	LANL	USE	S
EXS03010029.wiff	246760009	LER	3/1/2010 16:23	952051	10-1739	2	LANL	USE	S
EXS03010030.wiff	246760010	LER	3/1/2010 16:39	952051	10-1739	2	LANL	USE	S

EXS03010031.wiff	XIBLK05	LER	3/1/2010 16:55			1		USE	B
EXS03010032.wiff	1202040457	LER	3/1/2010 17:10	952043	VARIOUS	2	LANL	USE	S
EXS03010033.wiff	1202040458	LER	3/1/2010 17:26	952043	VARIOUS	2	LANL	USE	S
EXS03010034.wiff	246677001	LER	3/1/2010 17:42	952043	10-1703	2	LANL	USE	S
EXS03010035.wiff	1202040459	LER	3/1/2010 17:58	952043	10-1703	2	LANL	USE	S
EXS03010036.wiff	1202040460	LER	3/1/2010 18:13	952043	10-1703	2	LANL	USE	S
EXS03010037.wiff	WXXCCV	LER	3/1/2010 18:29			1		USE	C
EXS03010038.wiff	XIBLK06	LER	3/1/2010 18:45			1		USE	B
EXS03010039.wiff	WXXCRI	LER	3/1/2010 19:01			1		USE	C
EXS03010040.wiff	1202041915	LER	3/1/2010 19:16	952684	10-1752-1	2	LANL	USE	S
EXS03010041.wiff	1202041916	LER	3/1/2010 19:32	952684	10-1752-1	2	LANL	USE	S
EXS03010042.wiff	246851001	LER	3/1/2010 19:48	952684	10-1752-1	2	LANL	USE	S
EXS03010043.wiff	1202041917	LER	3/1/2010 20:04	952684	10-1752-1	2	LANL	USE	S
EXS03010044.wiff	1202041918	LER	3/1/2010 20:19	952684	10-1752-1	2	LANL	USE	S
EXS03010045.wiff	246851002	LER	3/1/2010 20:35	952684	10-1752-1	2	LANL	USE	S
EXS03010046.wiff	246851003	LER	3/1/2010 20:51	952684	10-1752-1	2	LANL	USE	S
EXS03010047.wiff	246851004	LER	3/1/2010 21:07	952684	10-1752-1	2	LANL	USE	S
EXS03010048.wiff	246851005	LER	3/1/2010 21:22	952684	10-1752-1	2	LANL	USE	S
EXS03010049.wiff	246851006	LER	3/1/2010 21:38	952684	10-1752-1	2	LANL	USE	S
EXS03010050.wiff	WXXCCV	LER	3/1/2010 21:54			1		USE	C
EXS03010051.wiff	XIBLK07	LER	3/1/2010 22:10			1		USE	B
EXS03010052.wiff	WXXCRI	LER	3/1/2010 22:25			1		USE	C
EXS03010053.wiff	246851007	LER	3/1/2010 22:41	952684	10-1752-1	2	LANL	USE	S
EXS03010054.wiff	246851008	LER	3/1/2010 22:57	952684	10-1752-1	2	LANL	USE	S
EXS03010055.wiff	246851009	LER	3/1/2010 23:12	952684	10-1752-1	2	LANL	USE	S
EXS03010056.wiff	246851010	LER	3/1/2010 23:28	952684	10-1752-1	2	LANL	USE	S
EXS03010057.wiff	246851011	LER	3/1/2010 23:44	952684	10-1752-1	2	LANL	USE	S
EXS03010058.wiff	1202041927	LER	3/2/2010 0:00	952690	10-1755	2	LANL	USE	S
EXS03010059.wiff	1202041928	LER	3/2/2010 0:15	952690	10-1755	2	LANL	USE	S
EXS03010060.wiff	246856002	LER	3/2/2010 0:31	952690	10-1755	2	LANL	USE	S
EXS03010061.wiff	1202041929	LER	3/2/2010 0:47	952690	10-1755	2	LANL	USE	S
EXS03010062.wiff	1202041930	LER	3/2/2010 1:02	952690	10-1755	2	LANL	USE	S
EXS03010063.wiff	WXXCCV	LER	3/2/2010 1:18			1		USE	C
EXS03010064.wiff	XIBLK08	LER	3/2/2010 1:34			1		USE	B
EXS03010065.wiff	WXXCRI	LER	3/2/2010 1:50			1		USE	C
EXS03010066.wiff	246856003	LER	3/2/2010 2:05	952690	10-1755	2	LANL	USE	S
EXS03010067.wiff	246856004	LER	3/2/2010 2:21	952690	10-1755	2	LANL	USE	S

EXS03010068.wiff	246856005	LER	3/2/2010 2:37	952690	10-1755	2	LANL	USE	S
EXS03010069.wiff	246856006	LER	3/2/2010 2:53	952690	10-1755	2	LANL	USE	S
EXS03010070.wiff	246856007	LER	3/2/2010 3:09	952690	10-1755	2	LANL	USE	S
EXS03010071.wiff	246856008	LER	3/2/2010 3:24	952690	10-1755	2	LANL	USE	S
EXS03010072.wiff	246856009	LER	3/2/2010 3:40	952690	10-1755	2	LANL	USE	S
EXS03010073.wiff	246856010	LER	3/2/2010 3:56	952690	10-1755	2	LANL	USE	S
EXS03010074.wiff	WXXCCV	LER	3/2/2010 4:11			1		USE	C
EXS03010075.wiff	XIBLK09	LER	3/2/2010 4:27			1		USE	B
EXS03010076.wiff	WXXCRI	LER	3/2/2010 4:43			1		USE	C
EXS03010077.wiff	1202035678	LER	3/2/2010 4:59	950081	VARIOUS	2	LANL	USE	S
EXS03010078.wiff	1202035679	LER	3/2/2010 5:15	950081	VARIOUS	2	LANL	USE	S
EXS03010079.wiff	246318001	LER	3/2/2010 5:30	950081	10-1564	2	LANL	USE	S
EXS03010080.wiff	246318002	LER	3/2/2010 5:46	950081	10-1564	2	LANL	USE	S
EXS03010081.wiff	246318003	LER	3/2/2010 6:02	950081	10-1564	2	LANL	USE	S
EXS03010082.wiff	246318004	LER	3/2/2010 6:17	950081	10-1564	2	LANL	USE	S
EXS03010083.wiff	246318005	LER	3/2/2010 6:33	950081	10-1564	2	LANL	USE	S
EXS03010084.wiff	246318006	LER	3/2/2010 6:49	950081	10-1564	2	LANL	USE	S
EXS03010085.wiff	246318007	LER	3/2/2010 7:05	950081	10-1564	2	LANL	USE	S
EXS03010086.wiff	246318008	LER	3/2/2010 7:20	950081	10-1564	2	LANL	USE	S
EXS03010087.wiff	WXXCCV	LER	3/2/2010 7:36			1		USE	C
EXS03010088.wiff	XIBLK10	LER	3/2/2010 7:52			1		USE	B
EXS03010089.wiff	WXXCRI	LER	3/2/2010 8:08			1		USE	C
EXS03010090.wiff	246318009	LER	3/2/2010 8:23	950081	10-1564	2	LANL	USE	S
EXS03010091.wiff	246330002	LER	3/2/2010 8:39	950081	10-1567	2	LANL	USE	S
EXS03010092.wiff	1202035680	LER	3/2/2010 8:55	950081	10-1567	2	LANL	USE	S
EXS03010093.wiff	1202035681	LER	3/2/2010 9:11	950081	10-1567	2	LANL	USE	S
EXS03010094.wiff	246330003	LER	3/2/2010 9:26	950081	10-1567	2	LANL	USE	S
EXS03010095.wiff	246330004	LER	3/2/2010 9:42	950081	10-1567	2	LANL	USE	S
EXS03010096.wiff	246330005	LER	3/2/2010 9:58	950081	10-1567	2	LANL	USE	S
EXS03010097.wiff	246330006	LER	3/2/2010 10:14	950081	10-1567	2	LANL	USE	S
EXS03010098.wiff	246330007	LER	3/2/2010 10:29	950081	10-1567	2	LANL	USE	S
EXS03010099.wiff	246330008	LER	3/2/2010 10:45	950081	10-1567	2	LANL	USE	S
EXS03010100.wiff	WXXCCV	LER	3/2/2010 11:01			1		USE	C
EXS03010101.wiff	XIBLK11	LER	3/2/2010 11:17			1		USE	B
EXS03010102.wiff	WXXCRI	LER	3/2/2010 11:32			1		USE	C
EXS03010103.wiff	246330009	LER	3/2/2010 11:48	950081	10-1567	2	LANL	USE	S
EXS03010104.wiff	246330010	LER	3/2/2010 12:04	950081	10-1567	2	LANL	USE	S

EXS03010105.wiff	XIBLK12	LER	3/2/2010 12:20			1		USE	B
EXS03010106.wiff	1202049788	LER	3/2/2010 12:36	956029	VARIOUS	2	LANL	USE	S
EXS03010107.wiff	1202049789	LER	3/2/2010 12:51	956029	VARIOUS	2	LANL	USE	S
EXS03010108.wiff	247429004	LER	3/2/2010 13:07	956029	10-1926	2	LANL	USE	S
EXS03010109.wiff	1202049790	LER	3/2/2010 13:23	956029	10-1926	2	LANL	USE	S
EXS03010110.wiff	1202049791	LER	3/2/2010 13:39	956029	10-1926	2	LANL	USE	S
EXS03010111.wiff	WXXCCV	LER	3/2/2010 13:54			1		USE	C
EXS03010112.wiff	XIBLK13	LER	3/2/2010 14:10			1		USE	B
EXS03010113.wiff	WXXCRI	LER	3/2/2010 14:26			1		USE	C
EXS03010114.wiff	247432006	LER	3/2/2010 14:42	956029	10-1928	2	LANL	USE	S
EXS03010115.wiff	1202049868	LER	3/2/2010 14:57	956029	10-1928	2	LANL	USE	S
EXS03010116.wiff	1202049869	LER	3/2/2010 15:13	956029	10-1928	2	LANL	USE	S
EXS03010117.wiff	247437006	LER	3/2/2010 15:29	956029	10-1931	2	LANL	USE	S
EXS03010118.wiff	246318002	LER	3/2/2010 15:45	950081	10-1564	2	LANL	USE	S
EXS03010119.wiff	246318004	LER	3/2/2010 16:01	950081	10-1564	2	LANL	USE	S
EXS03010120.wiff	246318006	LER	3/2/2010 16:16	950081	10-1564	2	LANL	USE	S
EXS03010121.wiff	246318001	LER	3/2/2010 16:32	950081	10-1564	10	LANL	USE	S
EXS03010122.wiff	246318003	LER	3/2/2010 16:48	950081	10-1564	10	LANL	USE	S
EXS03010123.wiff	246318005	LER	3/2/2010 17:03	950081	10-1564	10	LANL	USE	S
EXS03010124.wiff	WXXCCV	LER	3/2/2010 17:19			1		USE	C
EXS03010125.wiff	XIBLK14	LER	3/2/2010 17:35			1		USE	B
EXS03010126.wiff	WXXCRI	LER	3/2/2010 17:51			1		USE	C
EXS03010127.wiff	1202035690	LER	3/2/2010 18:07	950087	VARIOUS	2	LANL	USE	S
EXS03010128.wiff	1202035691	LER	3/2/2010 18:22	950087	VARIOUS	2	LANL	USE	S
EXS03010129.wiff	246434002	LER	3/2/2010 18:38	950087	10-1620	2	LANL	USE	S
EXS03010130.wiff	1202035692	LER	3/2/2010 18:54	950087	10-1620	2	LANL	USE	S
EXS03010131.wiff	1202035693	LER	3/2/2010 19:10	950087	10-1620	2	LANL	USE	S
EXS03010132.wiff	246434003	LER	3/2/2010 19:25	950087	10-1620	2	LANL	USE	S
EXS03010133.wiff	246434004	LER	3/2/2010 19:41	950087	10-1620	2	LANL	USE	S
EXS03010134.wiff	246434005	LER	3/2/2010 19:57	950087	10-1620	2	LANL	USE	S
EXS03010135.wiff	246434006	LER	3/2/2010 20:12	950087	10-1620	2	LANL	USE	S
EXS03010136.wiff	246434007	LER	3/2/2010 20:28	950087	10-1620	2	LANL	USE	S
EXS03010137.wiff	WXXCCV	LER	3/2/2010 20:44			1		USE	C
EXS03010138.wiff	XIBLK15	LER	3/2/2010 21:00			1		USE	B
EXS03010139.wiff	WXXCRI	LER	3/2/2010 21:15			1		USE	C
EXS03010140.wiff	246434008	LER	3/2/2010 21:31	950087	10-1620	2	LANL	USE	S
EXS03010141.wiff	246434009	LER	3/2/2010 21:47	950087	10-1620	2	LANL	USE	S

EXS03010142.wiff	246434010	LER	3/2/2010 22:03	950087	10-1620	2	LANL	USE	S
EXS03010143.wiff	246434011	LER	3/2/2010 22:18	950087	10-1620	2	LANL	USE	S
EXS03010144.wiff	246434012	LER	3/2/2010 22:34	950087	10-1620	2	LANL	USE	S
EXS03010145.wiff	246434013	LER	3/2/2010 22:50	950087	10-1620	2	LANL	USE	S
EXS03010146.wiff	246434014	LER	3/2/2010 23:06	950087	10-1620	2	LANL	USE	S
EXS03010147.wiff	246434015	LER	3/2/2010 23:21	950087	10-1620	2	LANL	USE	S
EXS03010148.wiff	246442002	LER	3/2/2010 23:37	950087	10-1623	2	LANL	USE	S
EXS03010149.wiff	246442003	LER	3/2/2010 23:53	950087	10-1623	2	LANL	USE	S
EXS03010150.wiff	WXXCCV	LER	3/3/2010 0:09			1		USE	C
EXS03010151.wiff	XIBLK16	LER	3/3/2010 0:24			1		USE	B
EXS03010152.wiff	WXXCRI	LER	3/3/2010 0:40			1		USE	C
EXS03010153.wiff	246442004	LER	3/3/2010 0:56	950087	10-1623	2	LANL	DUSE-RA	S
EXS03010154.wiff	246442005	LER	3/3/2010 1:12	950087	10-1623	2	LANL	DUSE-RA	S
EXS03010155.wiff	246442006	LER	3/3/2010 1:27	950087	10-1623	2	LANL	DUSE-RA	S
EXS03010156.wiff	XIBLK17	LER	3/3/2010 1:43			1		DUSE-RA	B
EXS03010157.wiff	1202035603	LER	3/3/2010 1:59	950039	VARIOUS	2	LANL	DUSE-RA	S
EXS03010158.wiff	1202035604	LER	3/3/2010 2:15	950039	VARIOUS	2	LANL	DUSE-RA	S
EXS03010159.wiff	246289008	LER	3/3/2010 2:31	950039	10-1590	2	LANL	DUSE-RA	S
EXS03010160.wiff	1202035607	LER	3/3/2010 2:46	950039	10-1590	2	LANL	DUSE-RA	S
EXS03010161.wiff	1202035608	LER	3/3/2010 3:02	950039	10-1590	2	LANL	DUSE-RA	S
EXS03010162.wiff	246301006	LER	3/3/2010 3:18	950039	10-1596	2	LANL	DUSE-RA	S
EXS03010163.wiff	WXXCCV	LER	3/3/2010 3:34			1		DUSE-RA	C
EXS03010164.wiff	XIBLK18	LER	3/3/2010 3:49			1		DUSE-RA	B
EXS03010165.wiff	WXXCRI	LER	3/3/2010 4:05			1		DUSE-RA	C
EXS03010166.wiff	246301011	LER	3/3/2010 4:21	950039	10-1596	2	LANL	DUSE-RA	S
EXS03010167.wiff	246345006	LER	3/3/2010 4:37	950039	10-1614	2	LANL	DUSE-RA	S
EXS03010168.wiff	246473005	LER	3/3/2010 4:52	950039	10-1643	2	LANL	DUSE-RA	S
EXS03010169.wiff	246475004	LER	3/3/2010 5:08	950039	10-1645	2	LANL	DUSE-RA	S
EXS03010170.wiff	246479004	LER	3/3/2010 5:24	950039	10-1654	2	LANL	DUSE-RA	S
EXS03010171.wiff	1202035605	LER	3/3/2010 5:40	950039	10-1654	2	LANL	DUSE-RA	S
EXS03010172.wiff	1202035606	LER	3/3/2010 5:55	950039	10-1654	2	LANL	DUSE-RA	S
EXS03010173.wiff	WXXCCV	LER	3/3/2010 6:11			1		DUSE-RA	C
EXS03010174.wiff	XIBLK19	LER	3/3/2010 6:27			1		DUSE-RA	B
EXS03010175.wiff	WXXCRI	LER	3/3/2010 6:43			1		DUSE-RA	C

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 803719
Revision No.: 1

DATA EXCEPTION REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
13-MAR-10	Federal	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
LC-MS/MS	SW846 8321A Modified	Solid	LANL
Batch ID:	**Sample Numbers:**		
952043	1202040458		

Potentially affected work order(s)(SDG): 246677(10-1703),246682(10-1706)

Application Issues:

Failed Recovery for LCS/LCSD

Specification and Requirements Exception Description:	DER Disposition:
1. The Laboratory Control Sample (1202040458) did not meet spike recovery limits for Tetryl at 47.9%. The recovery limits are 51-112%.	1. Since both the Matrix Spike and Matrix Spike Duplicate met acceptance limits for Tetryl, the data are reported with the appropriate DER. The discrepancy is noted in the case narrative. The Tetryl recovery met the DOD QSM marginal exceedance recovery limits of 41-122%.

Originator's Name:

Michael Penny 13-MAR-10

Data Validator/Group Leader:

Herbert Maier 13-MAR-10

GC SEMIVOLATILE PCB ANALYSIS

PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1703

Method/Analysis Information

Procedure:	**Analysis of Polychlorinated Biphenyls by ECD**
Analytical Method:	SW846 8082
Prep Method:	SW846 3550B
Analytical Batch Number:	953776
Prep Batch Number:	953774

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
246677001	RE15-10-8185
246677002	RE15-10-8183
246677003	RE15-10-8179
246677004	RE15-10-8184
246677005	RE15-10-8180
246677006	RE15-10-8181
246677007	RE15-10-8182
246677008	RE15-10-8210
1202044729	Method Blank (MB)
1202044730	Laboratory Control Sample (LCS)
1202044731	246725001(RE46-10-12649) Matrix Spike (MS)
1202044732	246725001(RE46-10-12649) 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
A LANL sample of similar matrix associated with another SDG (#10-1710) was selected for the matrix spike and matrix spike duplicate analysis. A Form III and QC raw data are included in the package summarizing the results.

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.

Sample Dilutions
The samples in this SDG did not require dilutions.

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 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
ECD2A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD2A.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: 3-8-2010

Roadmap for LANL 10-1703 PCB

This roadmap was analyzed by jen01212 on 02-24-2010, 14:26.
This roadmap was reviewed by jim01140 on 02-25-2010, 11:22.
This roadmap was packaged by yml on 03-07-2010, 08:37.

Front Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
☐	N	/chem/ecd2a.i/021710.b/016f1601.d	246677001	sample	17-FEB-2010	10:42	10-1703.sub	RE15-10-8185	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/017f1701.d	246677002	sample	17-FEB-2010	10:53	10-1703.sub	RE15-10-8183	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/018f1801.d	246677003	sample	17-FEB-2010	11:04	10-1703.sub	RE15-10-8179	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/019f1901.d	246677004	sample	17-FEB-2010	11:15	10-1703.sub	RE15-10-8184	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/020f2001.d	246677005	sample	17-FEB-2010	11:26	10-1703.sub	RE15-10-8180	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/021f2101.d	246677006	sample	17-FEB-2010	11:38	10-1703.sub	RE15-10-8181	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/022f2201.d	246677007	sample	17-FEB-2010	11:49	10-1703.sub	RE15-10-8182	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/023f2301.d	246677008	sample	17-FEB-2010	12:00	10-1703.sub	RE15-10-8210	1.00000	953776	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
☐	N	/chem/ecd2a.i/021710.b/016b1601.d	246677001	sample	17-FEB-2010	10:42	10-1703.sub	RE15-10-8185	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/017b1701.d	246677002	sample	17-FEB-2010	10:53	10-1703.sub	RE15-10-8183	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/018b1801.d	246677003	sample	17-FEB-2010	11:04	10-1703.sub	RE15-10-8179	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/019b1901.d	246677004	sample	17-FEB-2010	11:15	10-1703.sub	RE15-10-8184	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/020b2001.d	246677005	sample	17-FEB-2010	11:26	10-1703.sub	RE15-10-8180	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/021b2101.d	246677006	sample	17-FEB-2010	11:38	10-1703.sub	RE15-10-8181	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/022b2201.d	246677007	sample	17-FEB-2010	11:49	10-1703.sub	RE15-10-8182	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/023b2301.d	246677008	sample	17-FEB-2010	12:00	10-1703.sub	RE15-10-8210	1.00000	953776	UPLOAD BOTH, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
☐	N	/chem/ecd2a.i/021710.b/014f1401.d	1202044729	mb	17-FEB-2010	10:20	10-1703.sub	PBLK01	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/015f1501.d	1202044730	lcs	17-FEB-2010	10:31	10-1703.sub	PBLK01LCS	1.00000	953776	UPLOAD BOTH, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment

☐	N	/chem/ecd2a.i/021710.b/014b1401.d	1202044729	mb	17-FEB-2010	10:20	10-1703.sub	PBLK01	1.00000	953776	UPLOAD BOTH, USE HIGHER
☐	N	/chem/ecd2a.i/021710.b/015b1501.d	1202044730	lcs	17-FEB-2010	10:31	10-1703.sub	PBLK01LCS	1.00000	953776	UPLOAD BOTH, USE HIGHER

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677003	**Date Received:**	02/10/2010 08:50	**%Moisture:**	1.5
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8179	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:04	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.03 g	**Final Volume:**	1 mL
Data File:	018f1801.d	**Column:**	1 CLP1	**Level:**	LOW
	018b1801.d		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:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677005	**Date Received:**	02/10/2010 08:50	**%Moisture:**	1.6
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8180	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:26	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.18 g	**Final Volume:**	1 mL
Data File:	020f2001.d	**Column:**	1 CLP1	**Level:**	LOW
	020b2001.d		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:	10-1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677006	**Date Received:**	02/10/2010 08:50	**%Moisture:**	1.9
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15-10-8181	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:38	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.15 g	**Final Volume:**	1 mL
Data File:	021f2101.d	**Column:**	1 CLP1	**Level:**	LOW
	021b2101.d		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:	**10–1703**	**Date Collected:**	**02/05/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**246677007**	**Date Received:**	**02/10/2010 08:50**	**%Moisture:**	**2.1**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15–10–8182**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL–OA–E–040**
Batch ID:	**953776**	**Inst:**	**ECD2A.I**	**Dilution:**	**1**
Run Date:	**02/17/2010 11:49**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/16/2010 20:17**	**Aliquot:**	**30.03 g**	**Final Volume:**	**1 mL**
Data File:	**022f2201.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	022b2201.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.40	ug/kg	1.13	3.40	1
11104–28–2	Aroclor–1221	U	3.40	ug/kg	1.13	3.40	1
11141–16–5	Aroclor–1232	U	3.40	ug/kg	1.13	3.40	1
53469–21–9	Aroclor–1242	U	3.40	ug/kg	1.13	3.40	1
12672–29–6	Aroclor–1248	U	3.40	ug/kg	1.13	3.40	1
11097–69–1	Aroclor–1254	U	3.40	ug/kg	1.13	3.40	1
11096–82–5	Aroclor–1260	U	3.40	ug/kg	1.13	3.40	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677002	**Date Received:**	02/10/2010 08:50	**%Moisture:**	3.1
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15-10-8183	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 10:53	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.18 g	**Final Volume:**	1 mL
Data File:	017f1701.d	**Column:**	1 CLP1	**Level:**	LOW
	017b1701.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	**10–1703**	**Date Collected:**	**02/05/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**246677004**	**Date Received:**	**02/10/2010 08:50**	**%Moisture:**	**2.9**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15–10–8184**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL–OA–E–040**
Batch ID:	**953776**	**Inst:**	**ECD2A,I**	**Dilution:**	**1**
Run Date:	**02/17/2010 11:15**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/16/2010 20:17**	**Aliquot:**	**30.04 g**	**Final Volume:**	**1 mL**
Data File:	**019f1901.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	019b1901.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.43	ug/kg	1.14	3.43	1
11104–28–2	Aroclor–1221	U	3.43	ug/kg	1.14	3.43	1
11141–16–5	Aroclor–1232	U	3.43	ug/kg	1.14	3.43	1
53469–21–9	Aroclor–1242	U	3.43	ug/kg	1.14	3.43	1
12672–29–6	Aroclor–1248	U	3.43	ug/kg	1.14	3.43	1
11097–69–1	Aroclor–1254	U	3.43	ug/kg	1.14	3.43	1
11096–82–5	Aroclor–1260	U	3.43	ug/kg	1.14	3.43	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677001	**Date Received:**	02/10/2010 08:50	**%Moisture:**	9
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8185	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 10:42	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.13 g	**Final Volume:**	1 mL
Data File:	016f1601.d	**Column:**	1 CLP1	**Level:**	LOW
	016b1601.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.65	ug/kg	1.22	3.65	1
11104–28–2	Aroclor–1221	U	3.65	ug/kg	1.22	3.65	1
11141–16–5	Aroclor–1232	U	3.65	ug/kg	1.22	3.65	1
53469–21–9	Aroclor–1242	U	3.65	ug/kg	1.22	3.65	1
12672–29–6	Aroclor–1248	U	3.65	ug/kg	1.22	3.65	1
11097–69–1	Aroclor–1254	U	3.65	ug/kg	1.22	3.65	1
11096–82–5	Aroclor–1260	U	3.65	ug/kg	1.22	3.65	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677008	**Date Received:**	02/10/2010 08:50	**%Moisture:**	6.8
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15-10-8210	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 12:00	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.18 g	**Final Volume:**	1 mL
Data File:	023f2301.d	**Column:**	1 CLP1	**Level:**	LOW
	023b2301.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.55	ug/kg	1.18	3.55	1
11104-28-2	Aroclor-1221	U	3.55	ug/kg	1.18	3.55	1
11141-16-5	Aroclor-1232	U	3.55	ug/kg	1.18	3.55	1
53469-21-9	Aroclor-1242	U	3.55	ug/kg	1.18	3.55	1
12672-29-6	Aroclor-1248	U	3.55	ug/kg	1.18	3.55	1
11097-69-1	Aroclor-1254	U	3.55	ug/kg	1.18	3.55	1
11096-82-5	Aroclor-1260	U	3.55	ug/kg	1.18	3.55	1

QUALITY CONTROL SUMMARY

PCB

Surrogate Recovery Report

SDG Number: 10–1703

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 #
1202044729	MB for batch 953774	64	65	62	70
1202044730	LCS for batch 953774	61	63	64	67
246677001	RE15–10–8185	50	51	47	55
246677002	RE15–10–8183	51	53	56	62
246677003	RE15–10–8179	48	49	50	55
246677004	RE15–10–8184	54	55	52	58
246677005	RE15–10–8180	44	45	43	46
246677006	RE15–10–8181	61	63	56	67
246677007	RE15–10–8182	55	56	57	60
246677008	RE15–10–8210	56	57	53	61

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

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1703
Client ID: LCS for batch 953774
Lab Sample ID: 1202044730
Instrument: ECD2A.I
Analyst: JAOC
Inj. Vol: 1 uL

Sample Type: Laboratory Control Sample
Matrix: SOIL
Analysis Date: 02/17/2010 10:31
Dilution: 1
Prep Batch ID: 953774
Batch ID: 953776

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	18.5	56	39-102
11096-82-5	LCS	Aroclor-1260	33.3	0.0	23.6	71	45-118

PCB

Quality Control Summary
Spike Recovery Report

SDG Number: **10–1710**
Client ID: **RE46–10–12649MS**
Lab Sample ID: **1202044731**
Instrument: **ECD2A.I**
Analyst: **JAOC**
Inj. Vol: **1 uL**

Sample Type: **Matrix Spike**
Matrix: **S**
%Moisture: **8.5**
Analysis Date: **02/17/2010 12:44**
Prep Batch ID: **953774**
Batch ID: **953776**
Dilution: 1

CAS No		Parmname	Amount Added ug/kg	Sample Conc. ug/kg		Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674–11–2	MS	Aroclor–1016	36.4	0.00	U	21.5	59	23–119
11096–82–5	MS	Aroclor–1260	36.4	0.00	U	27.7	76	28–124

PCB

Quality Control Summary
Spike Recovery Report

SDG Number:	**10-1710**	**Sample Type:**	**Matrix Spike Duplicate**
Client ID:	**RE46-10-12649MSD**	**Matrix:**	**S**
Lab Sample ID:	**1202044732**	**%Moisture:**	**8.5**
Instrument:	**ECD2A.I**	**Analysis Date:**	**02/17/2010 12:55**
Analyst:	**JAOC**	**Prep Batch ID:**	**953774**
Inj. Vol:	**1 uL**	**Batch ID:**	**953776**

Dilution: 1

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	36.3	0.00	U	20.6	57	23-119	4	0-28
11096-82-5	MSD Aroclor-1260	36.3	0.00	U	27.7	76	28-124	0	0-30

Method Blank Summary

SDG Number:	10-1703	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 953774	Instrument ID:	ECD2A.I_2 ECD2A.I_1	Data File:	014b1401-1.d 014f1401-1.d
Lab Sample ID:	1202044729				
Column:	CLP2 CLP1	Prep Date:	02/16/2010 20:17	Analyzed:	02/17/10 10:20
		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 953774	1202044730	015f1501-1.d 015b1501-1.d	02/17/10	1031
02 RE15-10-8185	246677001	016f1601.d 016b1601.d	02/17/10	1042
03 RE15-10-8183	246677002	017f1701.d 017b1701.d	02/17/10	1053
04 RE15-10-8179	246677003	018f1801.d 018b1801.d	02/17/10	1104
05 RE15-10-8184	246677004	019f1901.d 019b1901.d	02/17/10	1115
06 RE15-10-8180	246677005	020f2001.d 020b2001.d	02/17/10	1126
07 RE15-10-8181	246677006	021f2101.d 021b2101.d	02/17/10	1138
08 RE15-10-8182	246677007	022f2201.d 022b2201.d	02/17/10	1149
09 RE15-10-8210	246677008	023f2301.d 023b2301.d	02/17/10	1200

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number:	**10–1703**	**Date Collected:**	**02/05/2010 12:00**	**Matrix:**	**R**
Lab Sample ID:	**246677003**	**Date Received:**	**02/10/2010 08:50**	**%Moisture:**	**1.5**
		Client:	**LANL010**	**Project:**	**LANL01004**
Client ID:	**RE15–10–8179**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL–OA–E–040**
Batch ID:	**953776**	**Inst:**	**ECD2A.I**	**Dilution:**	**1**
Run Date:	**02/17/2010 11:04**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/16/2010 20:17**	**Aliquot:**	**30.03 g**	**Final Volume:**	**1 mL**
Data File:	**018f1801.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	018b1801.d		**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

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/018f1801.d
Lab Smp Id: 246677003 Client Smp ID: RE15-10-8179
Inj Date : 17-FEB-2010 11:04
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677003|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8179|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.03000	Weight of sample extracted (g)
M	1.50720	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.761	1.759	0.002	7228999	96.6242	3.3	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.604	5.604	0.000	6335710	100.373	3.4	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/018f1801.d

Date : 17-FEB-2010 11:04

Client ID: RE15-10-8179

Sample Info: 1246677003111

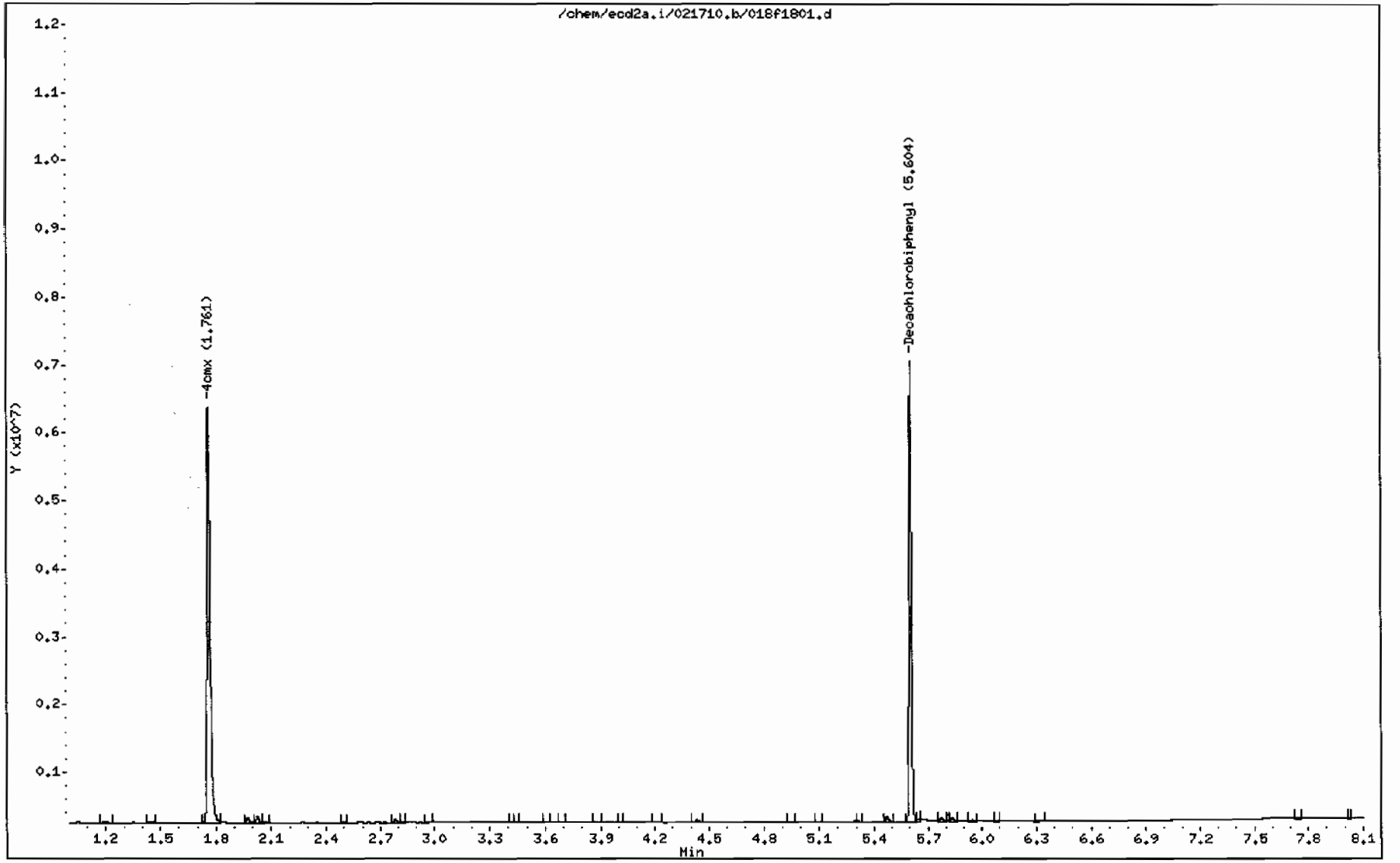
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/018b1801.d
Lab Smp Id: 246677003 Client Smp ID: RE15-10-8179
Inj Date : 17-FEB-2010 11:04
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677003|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8179|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.03000	Weight of sample extracted (g)
M	1.50720	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.060	2.058	0.002	16019205	98.4759	3.3	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.295	6.296	-0.001	14038715	110.661	3.7	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/018b1801.d

Date : 17-FEB-2010 11:04

Client ID: RE15-10-8179

Sample Info: |246677003|1|

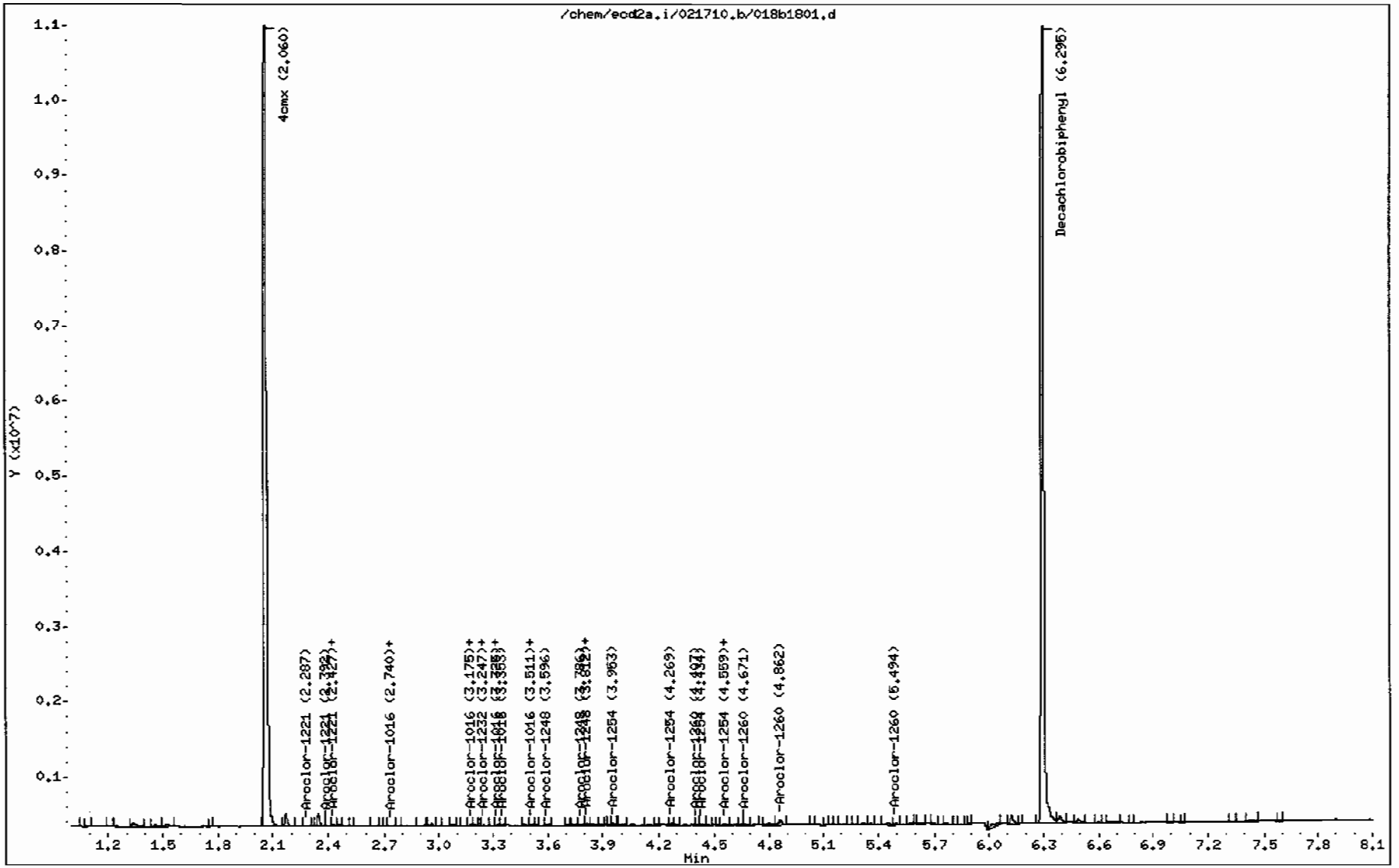
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: ecd2a.i

Operator: JAOC

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677005	**Date Received:**	02/10/2010 08:50	**%Moisture:**	1.6
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8180	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:26	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.18 g	**Final Volume:**	1 mL
Data File:	020f2001.d	**Column:**	1 CLP1	**Level:**	LOW
	020b2001.d		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

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/020f2001.d
Lab Smp Id: 246677005 Client Smp ID: RE15-10-8180
Inj Date : 17-FEB-2010 11:26
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677005|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8180|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.18000	Weight of sample extracted (g)
M	1.58500	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.762	1.759	0.003	6555269	87.6190	2.9	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.603	5.604	-0.001	5422742	85.9090	2.9	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/020f2001.d

Date : 17-FEB-2010 11:26

Client ID: RE15-10-8180

Sample Info: !246677005!1!

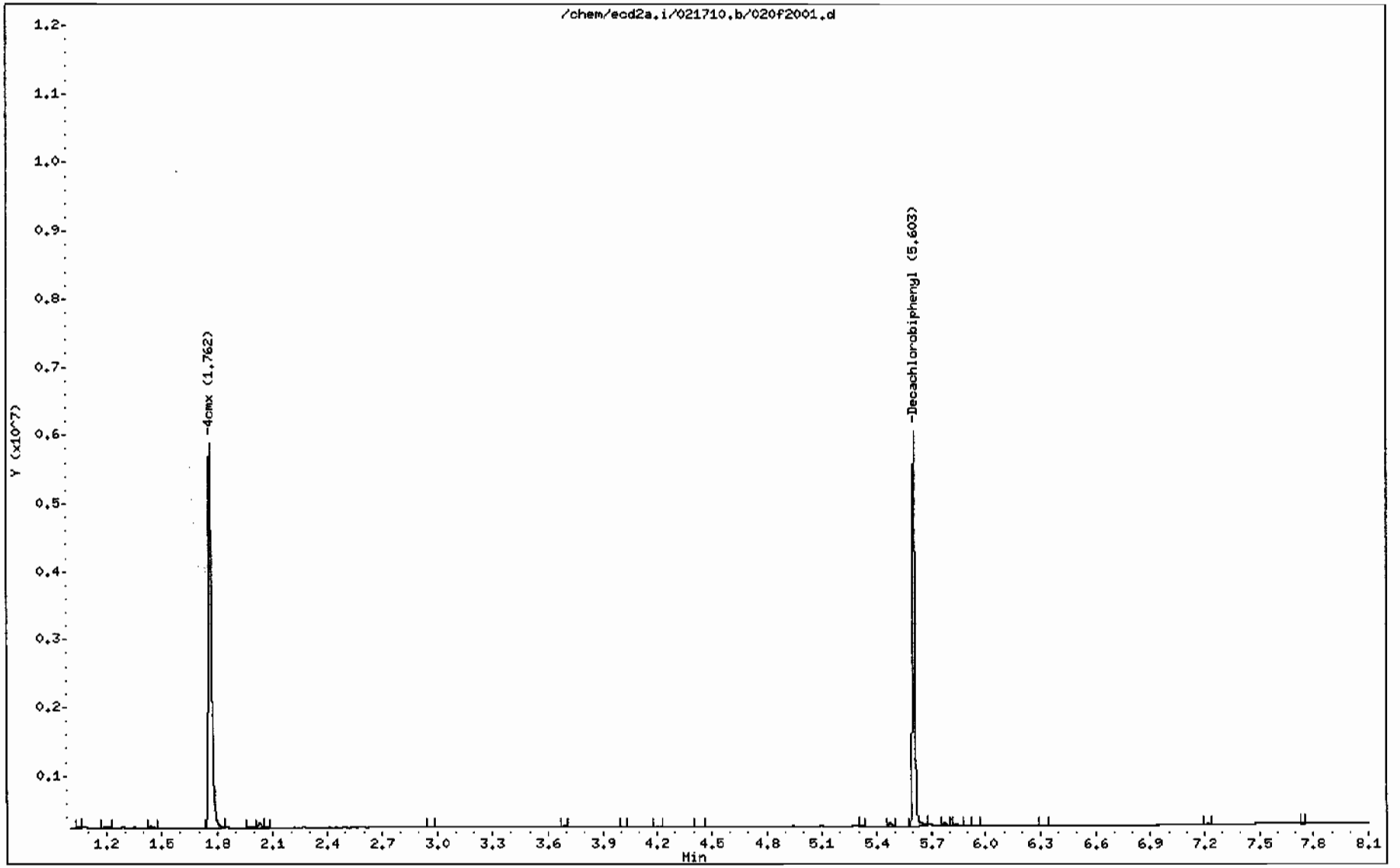
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/020b2001.d
Lab Smp Id: 246677005 Client Smp ID: RE15-10-8180
Inj Date : 17-FEB-2010 11:26
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677005|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8180|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.18000	Weight of sample extracted (g)
M	1.58500	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.061	2.058	0.003	14530001	89.3212	3.0	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.296	6.296	0.000	11635191	91.7152	3.1	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/020b2001.d

Date : 17-FEB-2010 11:26

Client ID: RE15-10-8180

Sample Info: |246677005|1|

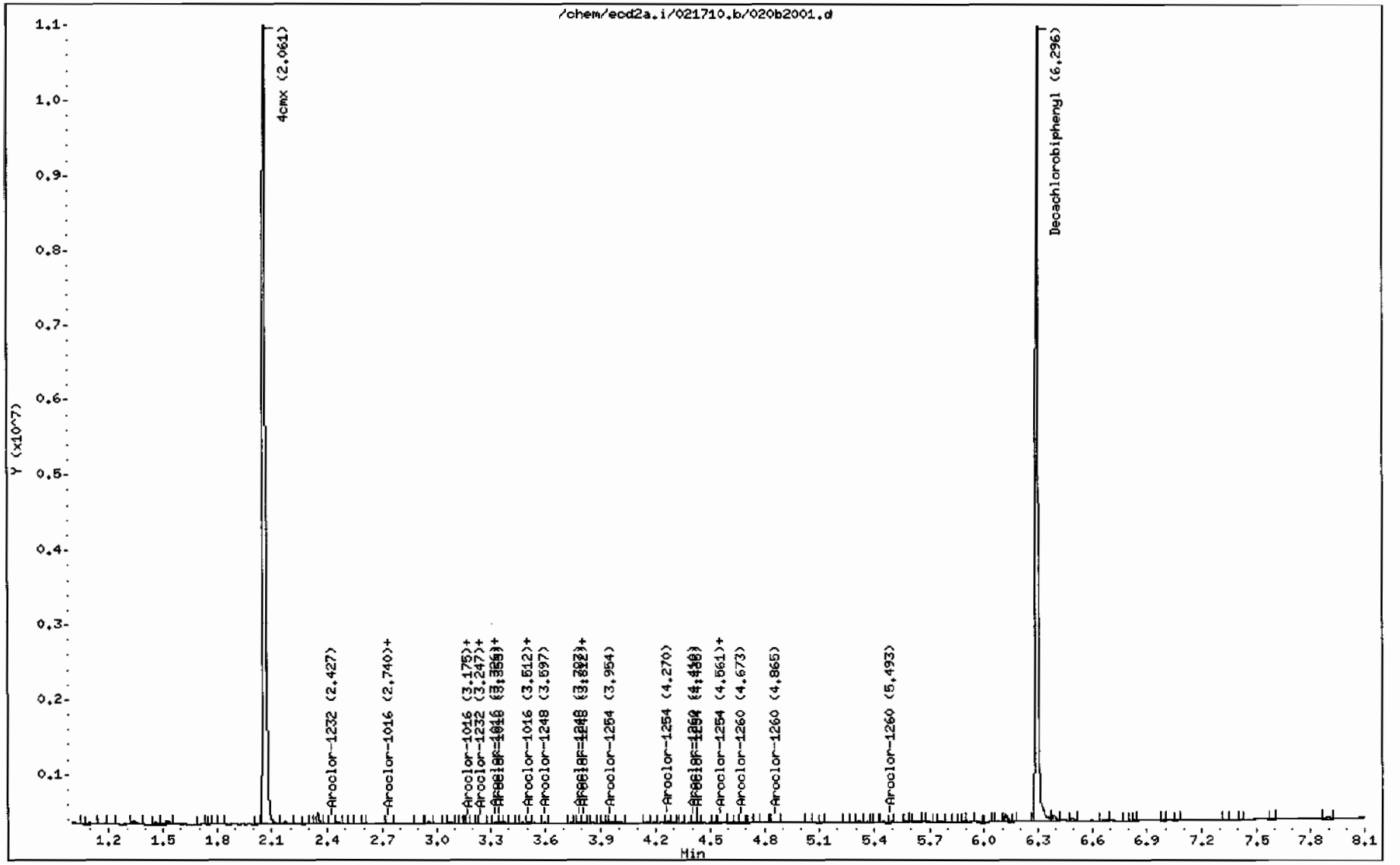
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: ecd2a.i

Operator: JADC

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677006	**Date Received:**	02/10/2010 08:50	**%Moisture:**	1.9
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15-10-8181	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:38	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.15 g	**Final Volume:**	1 mL
Data File:	021f2101.d	**Column:**	1 CLP1	**Level:**	LOW
	021b2101.d		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

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/021f2101.d
Lab Smp Id: 246677006 Client Smp ID: RE15-10-8181
Inj Date : 17-FEB-2010 11:38
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677006|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8181|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.15000	Weight of sample extracted (g)
M	1.91520	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.760	1.759	0.001	9198280	122.946	4.2	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.604	5.604	0.000	7103271	112.533	3.8	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/021f2101.d

Date : 17-FEB-2010 11:38

Client ID: RE15-10-8181

Sample Info: |246677006|1|

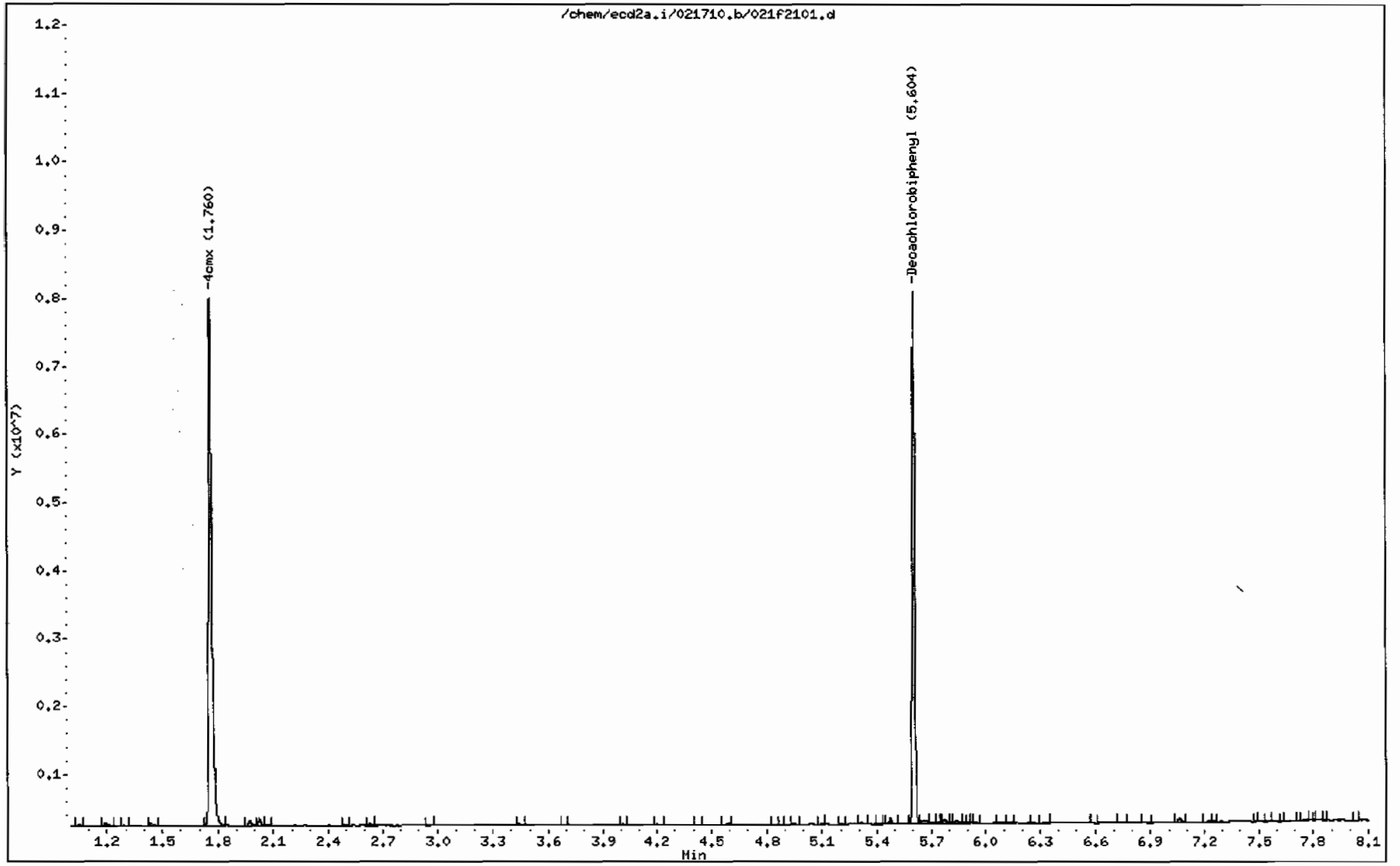
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/021b2101.d
Lab Smp Id: 246677006 Client Smp ID: RE15-10-8181
Inj Date : 17-FEB-2010 11:38
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677006|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8181|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.15000	Weight of sample extracted (g)
M	1.91520	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.060	2.058	0.002	20389750	125.343	4.2	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.295	6.296	-0.001	16950594	133.614	4.5	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/021b2101.d

Date : 17-FEB-2010 11:38

Client ID: RE15-10-8181

Sample Info: |246677006|1|

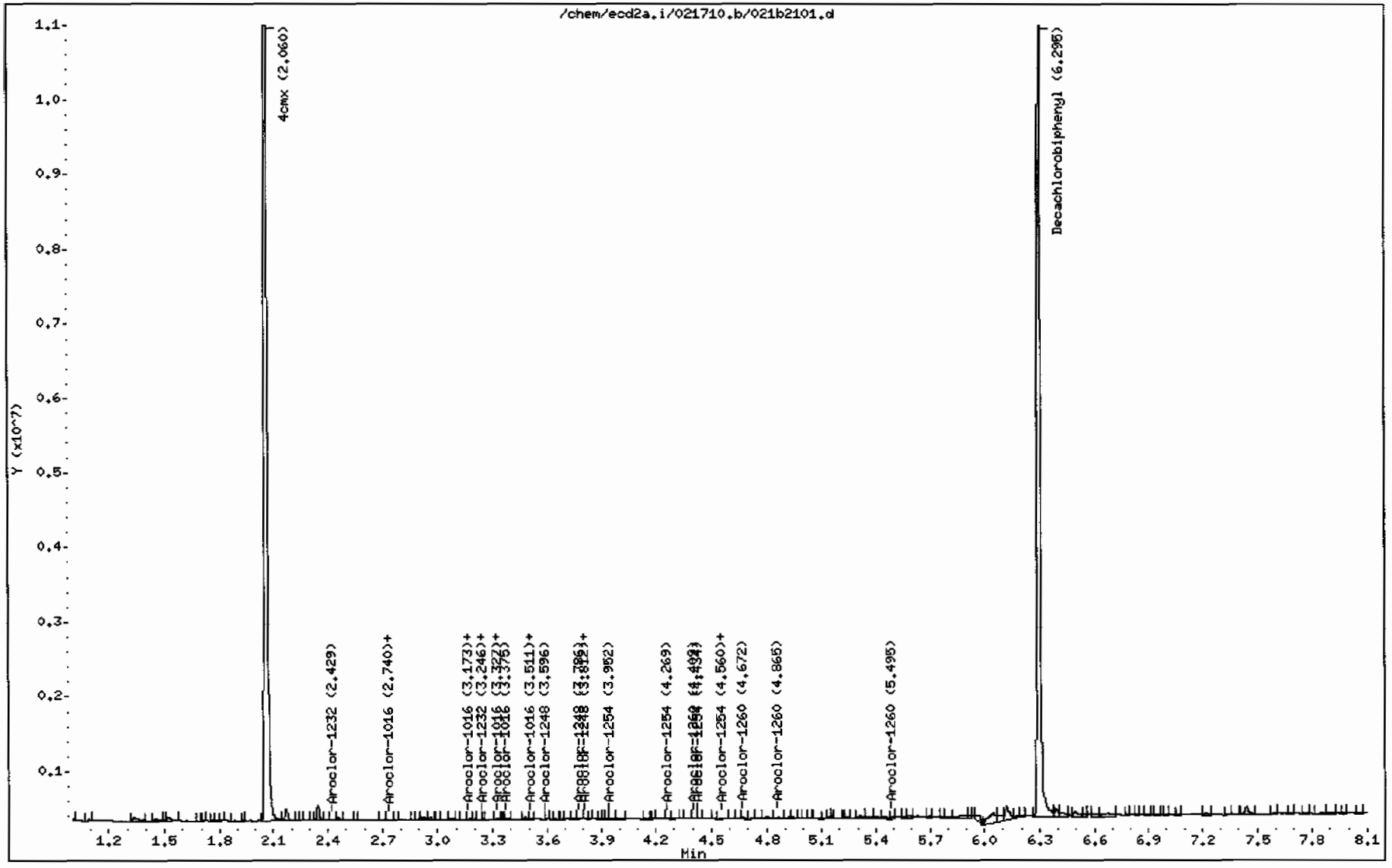
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: ecd2a.i

Operator: JAOC

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677007	**Date Received:**	02/10/2010 08:50	**%Moisture:**	2.1
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8182	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:49	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.03 g	**Final Volume:**	1 mL
Data File:	022f2201.d	**Column:**	1 CLP1	**Level:**	LOW
	022b2201.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.40	ug/kg	1.13	3.40	1
11104–28–2	Aroclor–1221	U	3.40	ug/kg	1.13	3.40	1
11141–16–5	Aroclor–1232	U	3.40	ug/kg	1.13	3.40	1
53469–21–9	Aroclor–1242	U	3.40	ug/kg	1.13	3.40	1
12672–29–6	Aroclor–1248	U	3.40	ug/kg	1.13	3.40	1
11097–69–1	Aroclor–1254	U	3.40	ug/kg	1.13	3.40	1
11096–82–5	Aroclor–1260	U	3.40	ug/kg	1.13	3.40	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/022f2201.d
Lab Smp Id: 246677007 Client Smp ID: RE15-10-8182
Inj Date : 17-FEB-2010 11:49
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677007|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8182|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.03000	Weight of sample extracted (g)
M	2.05610	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.761	1.759	0.002	8185960	109.415	3.7	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.602	5.604	-0.002	7198515	114.041	3.9	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/022f2201.d

Page 1

Date : 17-FEB-2010 11:49

Client ID: RE15-10-8182

Instrument: ecd2a.i

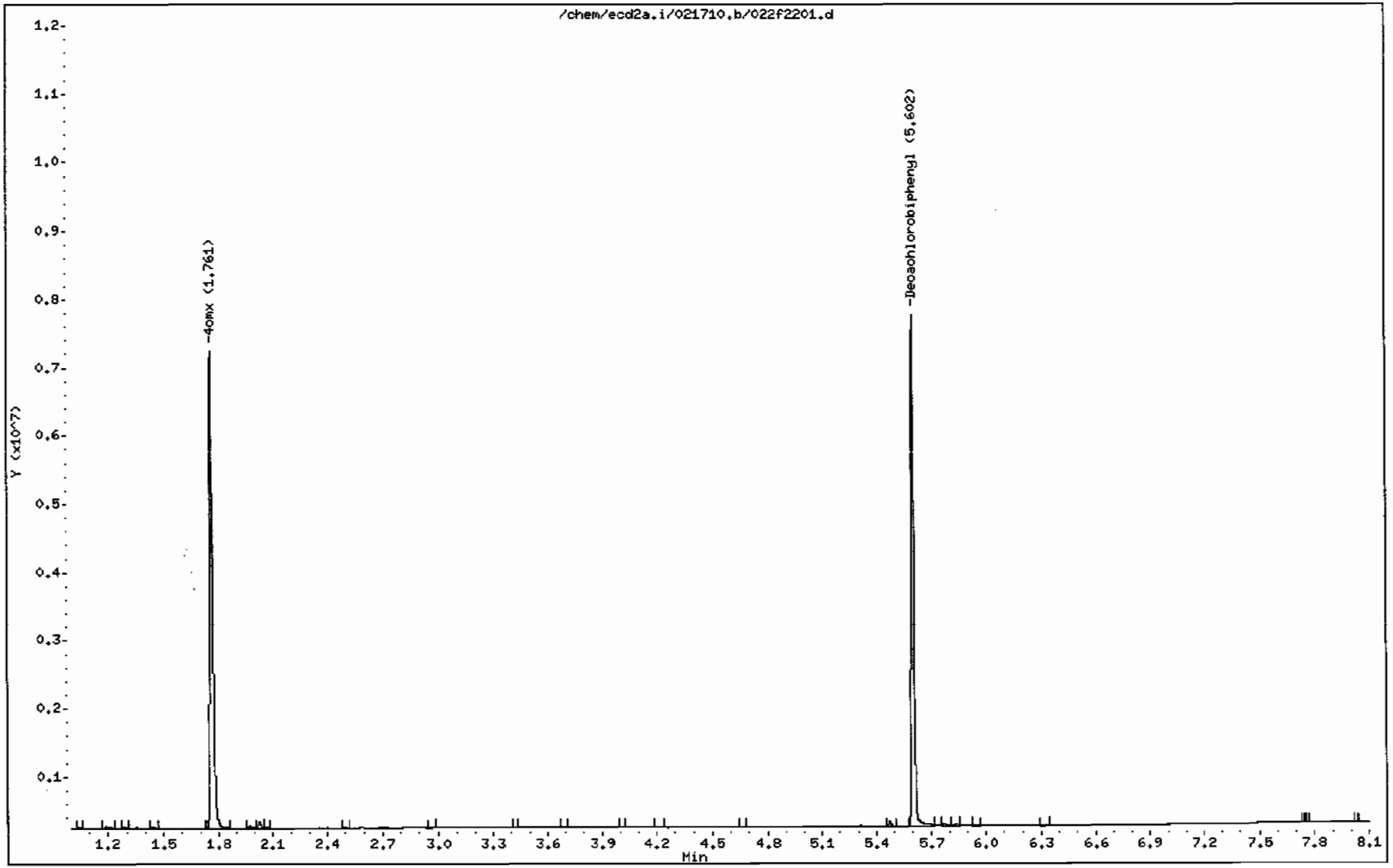
Sample Info: |246677007|1|

Volume Injected (uL): 1.0

Operator: JAOC

Column phase: CLP1

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/022b2201.d
Lab Smp Id: 246677007 Client Smp ID: RE15-10-8182
Inj Date : 17-FEB-2010 11:49
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677007|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8182|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.03000	Weight of sample extracted (g)
M	2.05610	% Moisture

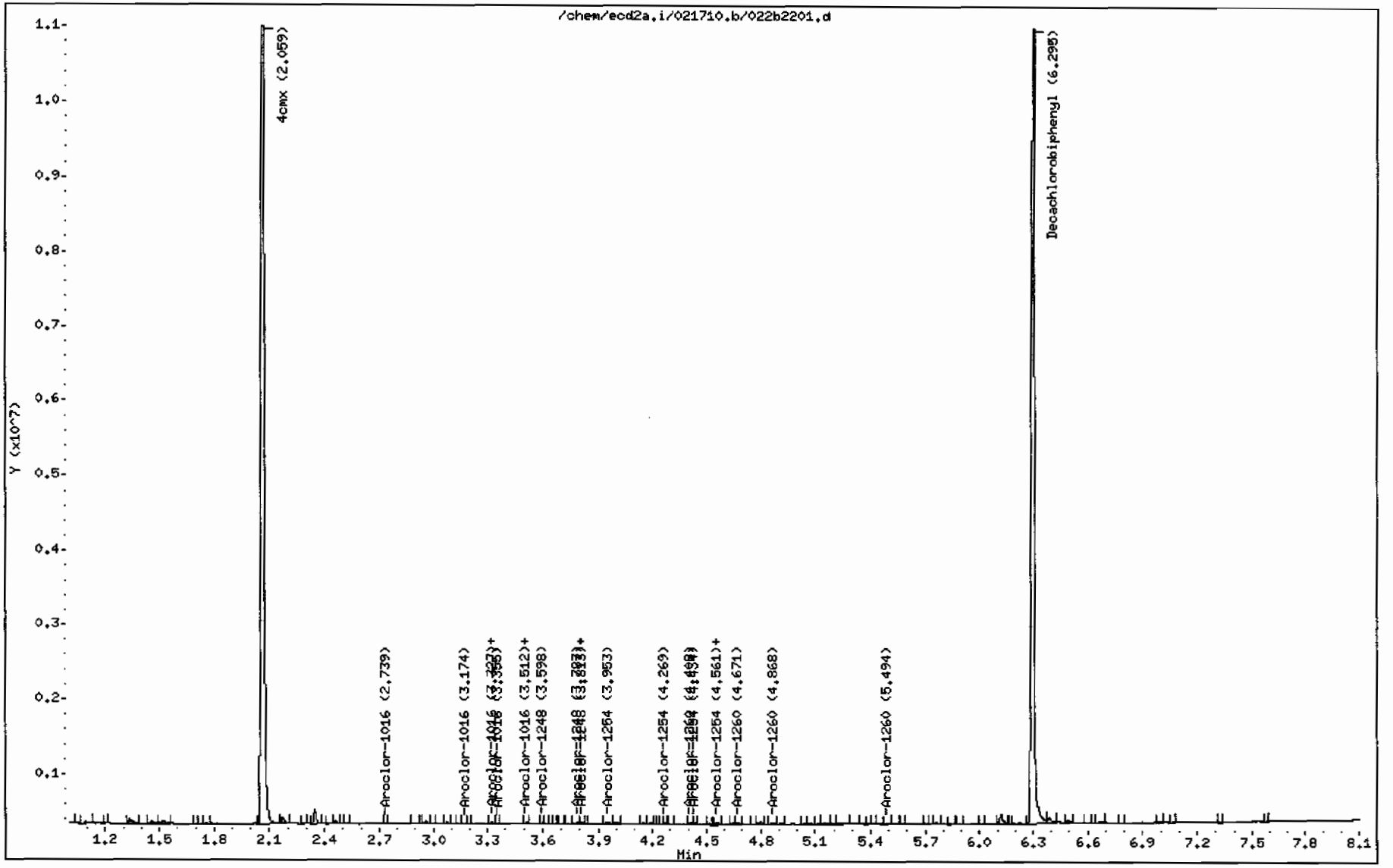
Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.059	2.058	0.001	18187480	111.805	3.8	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.295	6.296	-0.001	15282464	120.465	4.1	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/022b2201.d
Date : 17-FEB-2010 11:49
Client ID: RE15-10-8182
Sample Info: 1246677007|1|
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i

Operator: JADC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677002	**Date Received:**	02/10/2010 08:50	**%Moisture:**	3.1
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8183	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 10:53	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.18 g	**Final Volume:**	1 mL
Data File:	017f1701.d	**Column:**	1 CLP1	**Level:**	LOW
	017b1701.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.42	ug/kg	1.14	3.42	1
11104–28–2	Aroclor–1221	U	3.42	ug/kg	1.14	3.42	1
11141–16–5	Aroclor–1232	U	3.42	ug/kg	1.14	3.42	1
53469–21–9	Aroclor–1242	U	3.42	ug/kg	1.14	3.42	1
12672–29–6	Aroclor–1248	U	3.42	ug/kg	1.14	3.42	1
11097–69–1	Aroclor–1254	U	3.42	ug/kg	1.14	3.42	1
11096–82–5	Aroclor–1260	U	3.42	ug/kg	1.14	3.42	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/017f1701.d
Lab Smp Id: 246677002 Client Smp ID: RE15-10-8183
Inj Date : 17-FEB-2010 10:53
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677002|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8183|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

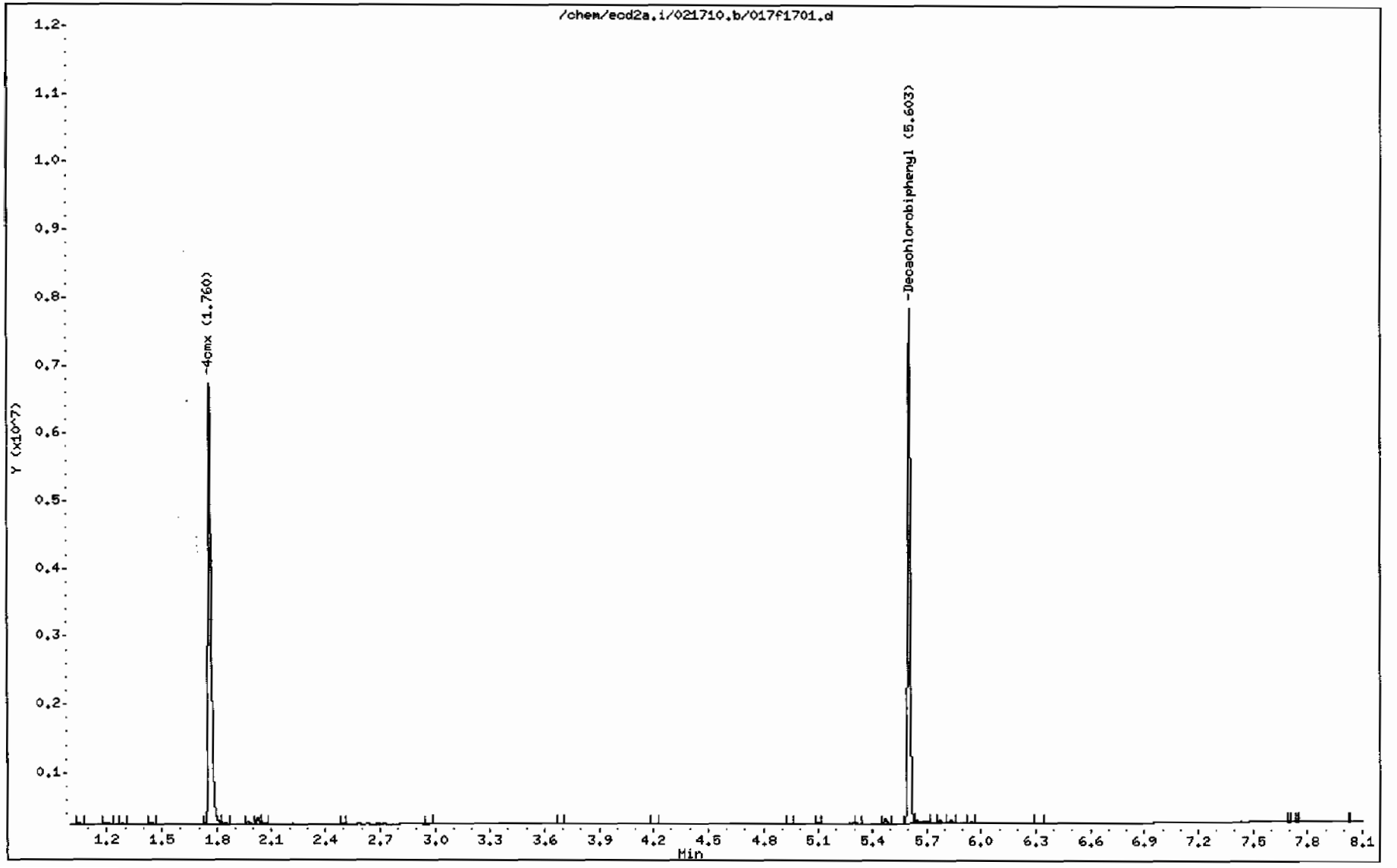
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.18000	Weight of sample extracted (g)
M	3.09850	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.760	1.759	0.001	7699947	102.919	3.5	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.603	5.604	-0.001	7074005	112.069	3.8	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/017f1701.d
Date : 17-FEB-2010 10:53
Client ID: RE15-10-8183
Sample Info: |246677002|1|
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/017b1701.d
Lab Smp Id: 246677002 Client Smp ID: RE15-10-8183
Inj Date : 17-FEB-2010 10:53
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677002|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8183|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

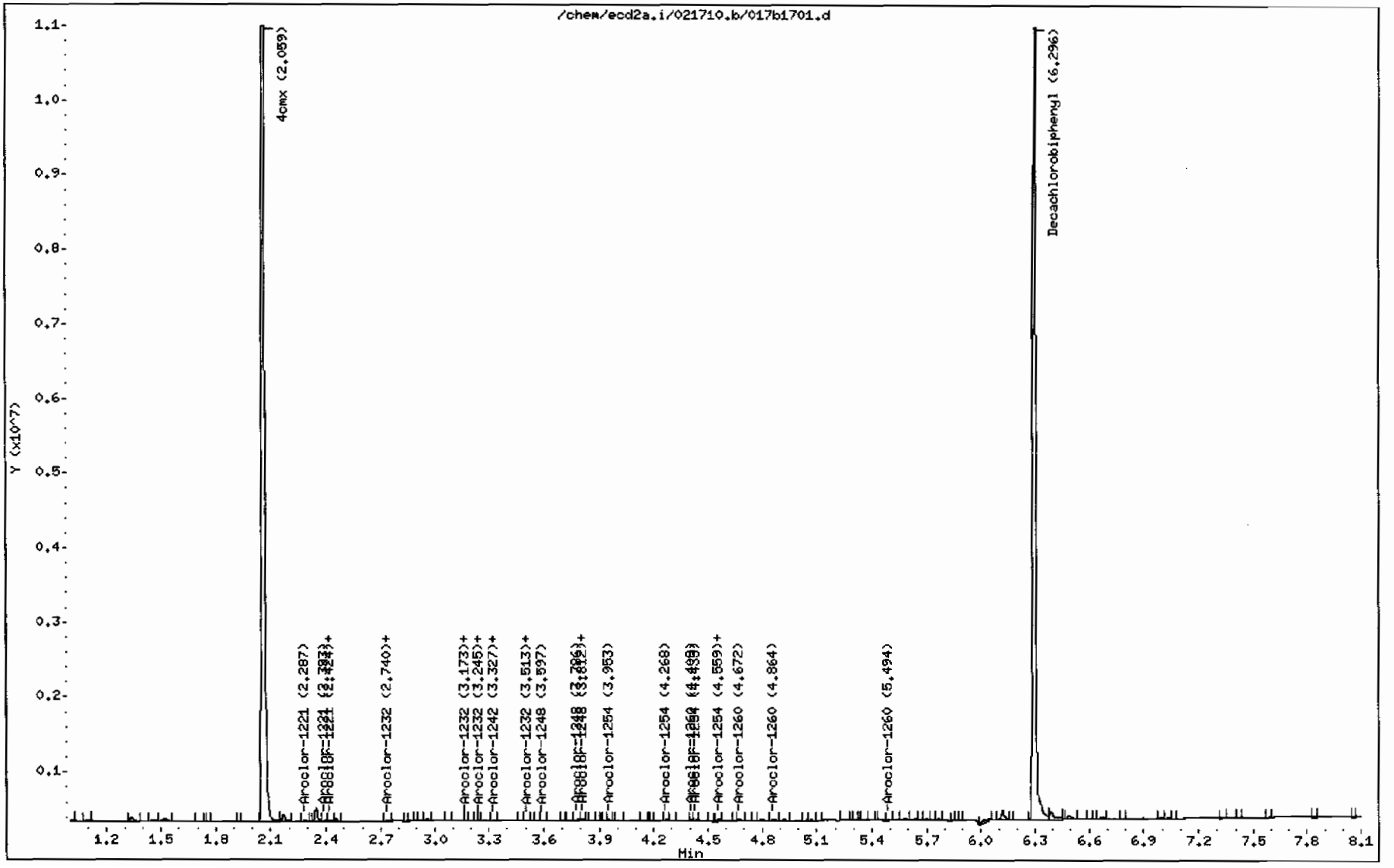
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.18000	Weight of sample extracted (g)
M	3.09850	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.059	2.058	0.001	17151999	105.440	3.6	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.296	6.296	0.000	15765265	124.271	4.2	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/017b1701.d
Date : 17-FEB-2010 10:53
Client ID: RE15-10-8183
Sample Info: |246677002|1|
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677004	**Date Received:**	02/10/2010 08:50	**%Moisture:**	2.9
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8184	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 11:15	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.04 g	**Final Volume:**	1 mL
Data File:	019f1901.d	**Column:**	1 CLP1	**Level:**	LOW
	019b1901.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.43	ug/kg	1.14	3.43	1
11104–28–2	Aroclor–1221	U	3.43	ug/kg	1.14	3.43	1
11141–16–5	Aroclor–1232	U	3.43	ug/kg	1.14	3.43	1
53469–21–9	Aroclor–1242	U	3.43	ug/kg	1.14	3.43	1
12672–29–6	Aroclor–1248	U	3.43	ug/kg	1.14	3.43	1
11097–69–1	Aroclor–1254	U	3.43	ug/kg	1.14	3.43	1
11096–82–5	Aroclor–1260	U	3.43	ug/kg	1.14	3.43	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/019f1901.d
Lab Smp Id: 246677004 Client Smp ID: RE15-10-8184
Inj Date : 17-FEB-2010 11:15
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677004|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8184|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.04000	Weight of sample extracted (g)
M	2.86170	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.757	1.759	-0.002	8019408	107.189	3.7	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.604	5.604	0.000	6597968	104.527	3.6	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/019f1901.d

Date : 17-FEB-2010 11:15

Client ID: RE15-10-8184

Sample Info: 1246677004|1|

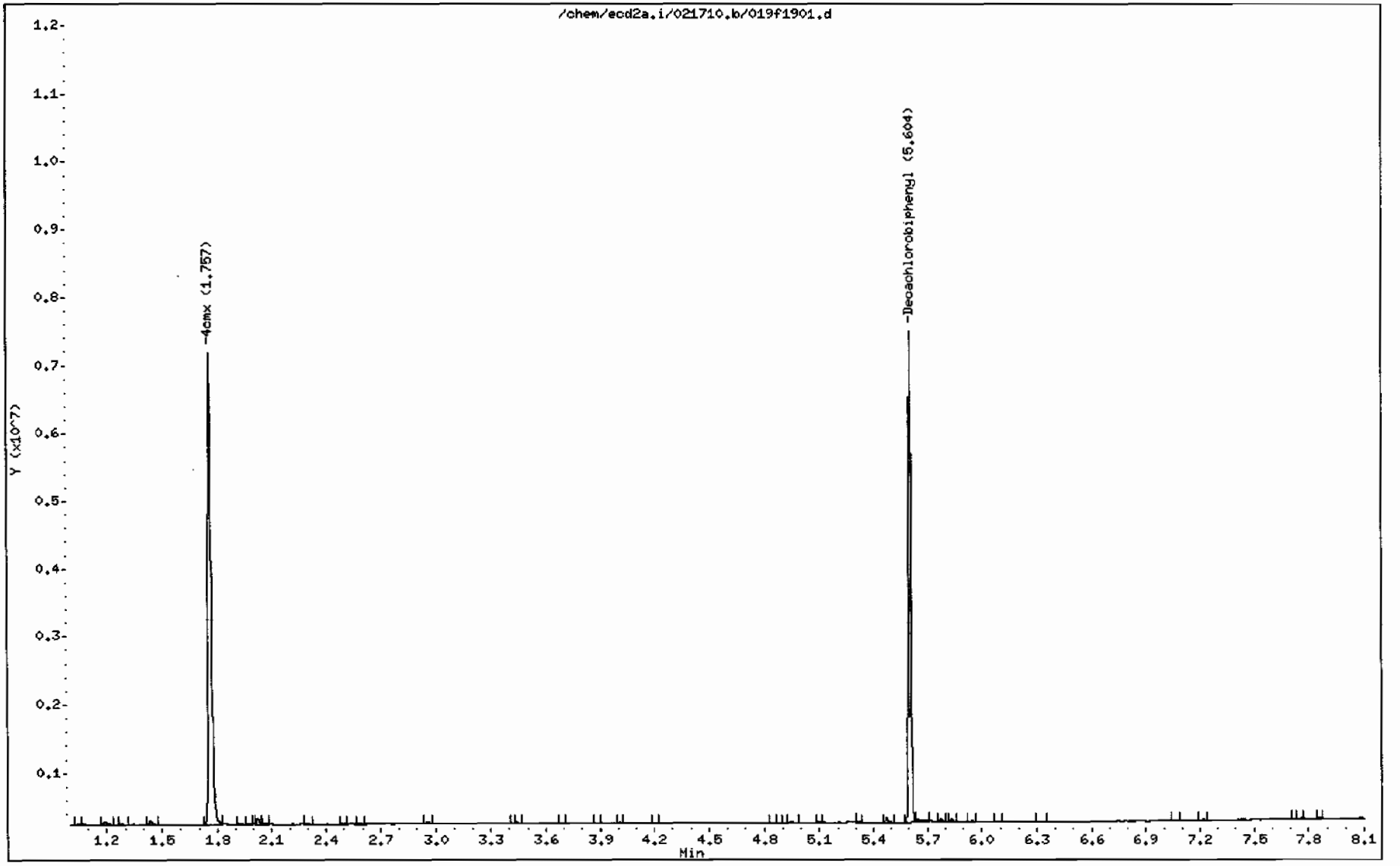
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/019b1901.d
Lab Smp Id: 246677004 Client Smp ID: RE15-10-8184
Inj Date : 17-FEB-2010 11:15
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677004|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8184|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

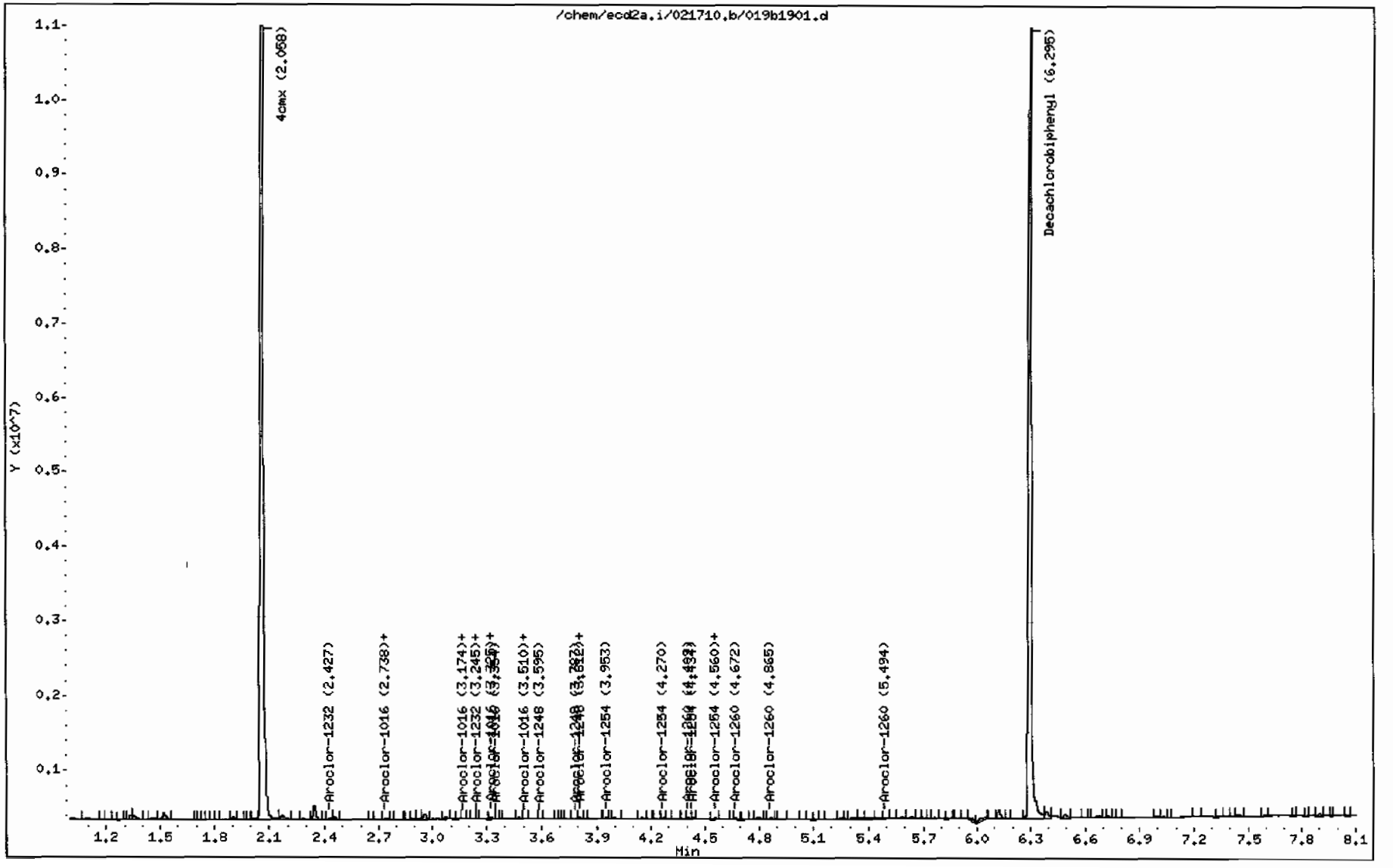
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.04000	Weight of sample extracted (g)
M	2.86170	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.058	2.058	0.000	17774692	109.268	3.7	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.295	6.296	-0.001	14788669	116.573	4.0	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/019b1901.d
Date : 17-FEB-2010 11:15
Client ID: RE15-10-8184
Sample Info: |246677004|1|
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677001	**Date Received:**	02/10/2010 08:50	**%Moisture:**	9
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8185	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 10:42	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.13 g	**Final Volume:**	1 mL
Data File:	016f1601.d	**Column:**	1 CLP1	**Level:**	LOW
	016b1601.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.65	ug/kg	1.22	3.65	1
11104–28–2	Aroclor–1221	U	3.65	ug/kg	1.22	3.65	1
11141–16–5	Aroclor–1232	U	3.65	ug/kg	1.22	3.65	1
53469–21–9	Aroclor–1242	U	3.65	ug/kg	1.22	3.65	1
12672–29–6	Aroclor–1248	U	3.65	ug/kg	1.22	3.65	1
11097–69–1	Aroclor–1254	U	3.65	ug/kg	1.22	3.65	1
11096–82–5	Aroclor–1260	U	3.65	ug/kg	1.22	3.65	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/016f1601.d
Lab Smp Id: 246677001 Client Smp ID: RE15-10-8185
Inj Date : 17-FEB-2010 10:42
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677001|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8185|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

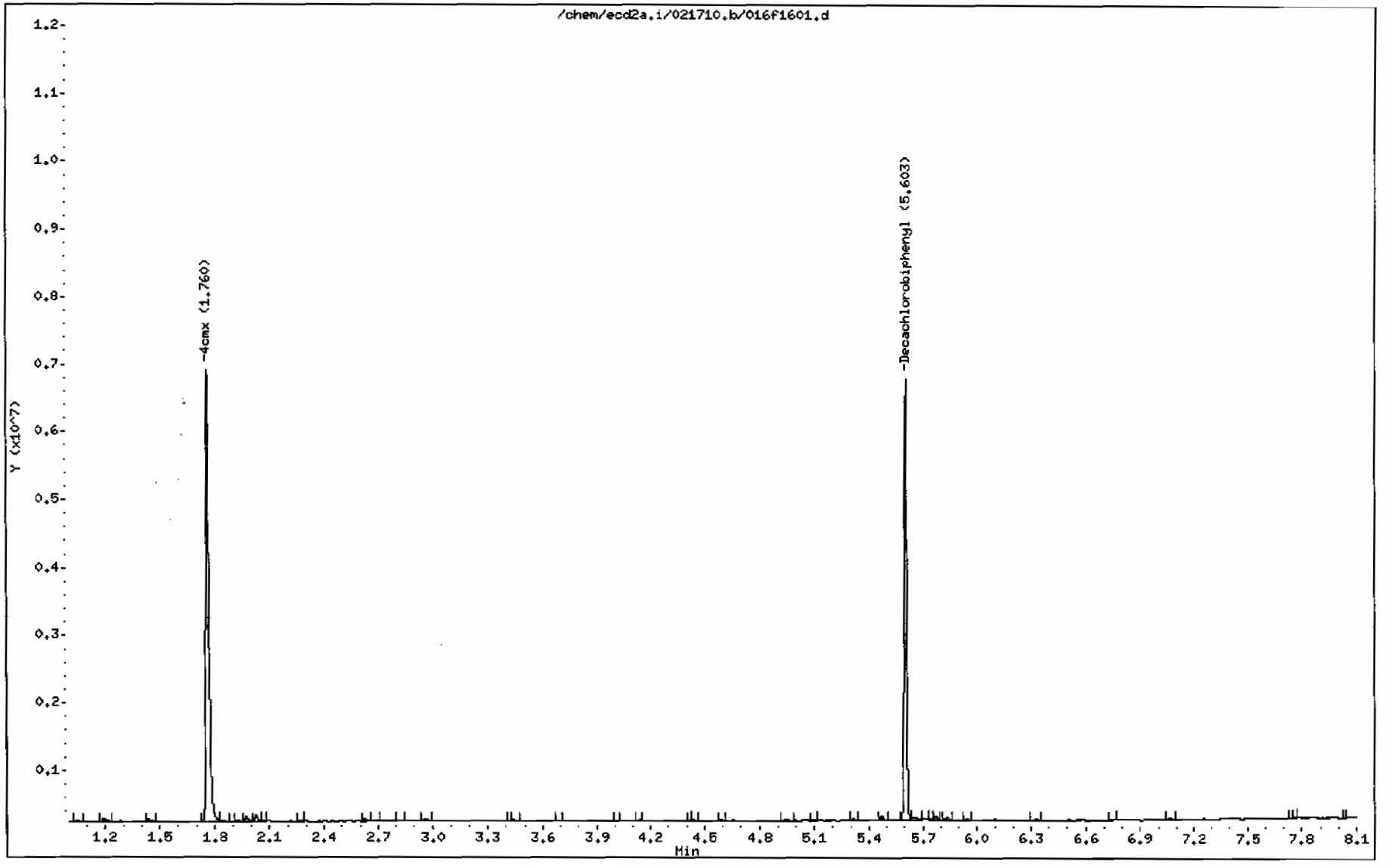
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.13000	Weight of sample extracted (g)
M	9.03850	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.760	1.759	0.001	7458753	99.6951	3.6	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.603	5.604	-0.001	5964543	94.4924	3.4	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/016f1601.d
Date : 17-FEB-2010 10:42
Client ID: RE15-10-8185
Sample Info: |246677001|1|
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/016b1601.d
Lab Smp Id: 246677001 Client Smp ID: RE15-10-8185
Inj Date : 17-FEB-2010 10:42
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677001|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8185|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

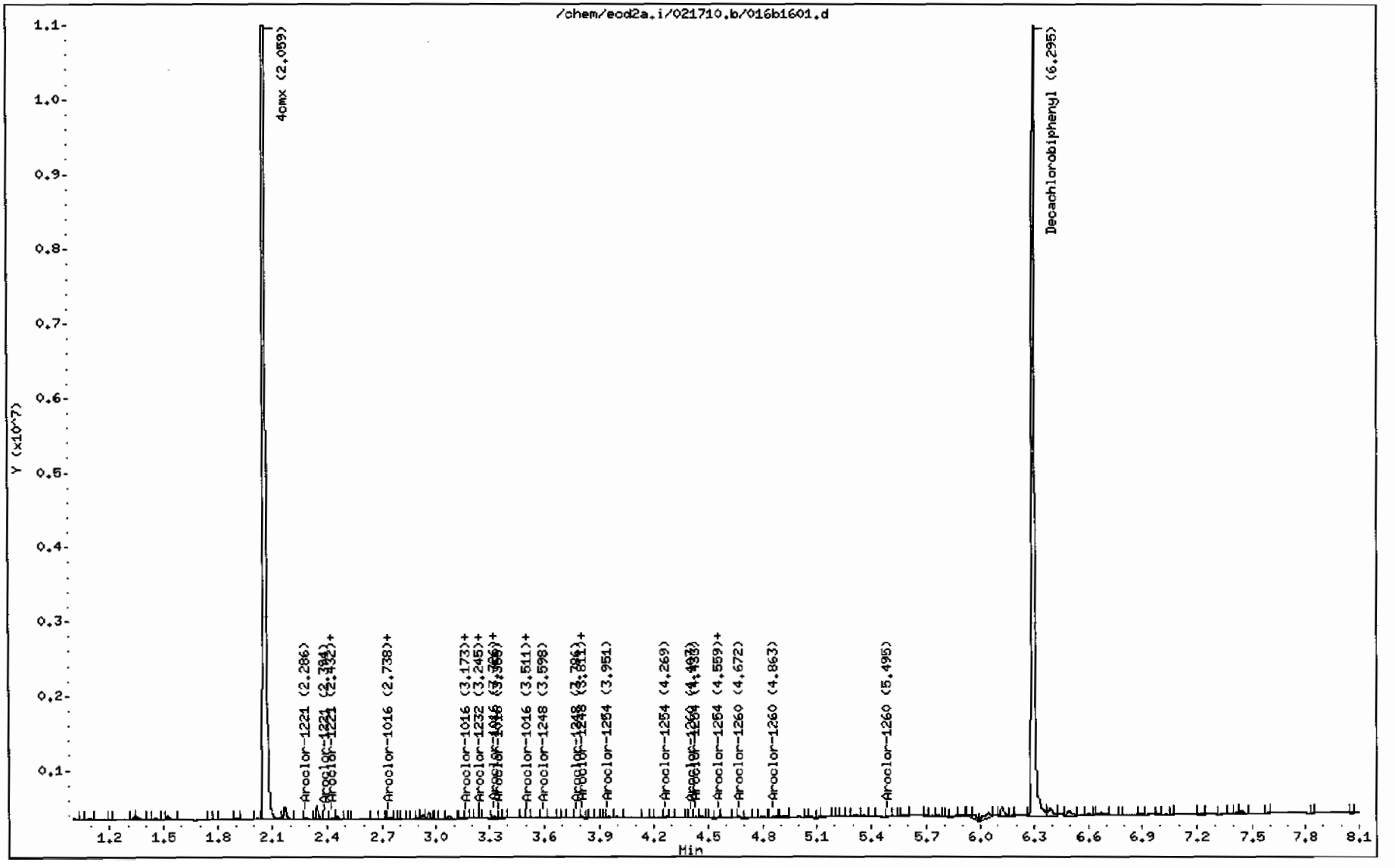
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.13000	Weight of sample extracted (g)
M	9.03850	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.059	2.058	0.001	16578310	101.913	3.7	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.295	6.296	-0.001	13902123	109.584	4.0	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/016b1601.d
Date : 17-FEB-2010 10:42
Client ID: RE15-10-8185
Sample Info: |246677001|1|
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703	**Date Collected:**	02/05/2010 12:00	**Matrix:**	R
Lab Sample ID:	246677008	**Date Received:**	02/10/2010 08:50	**%Moisture:**	6.8
		Client:	LANL010	**Project:**	LANL01004
Client ID:	RE15–10–8210	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 12:00	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30.18 g	**Final Volume:**	1 mL
Data File:	023f2301.d	**Column:**	1 CLP1	**Level:**	LOW
	023b2301.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016	U	3.55	ug/kg	1.18	3.55	1
11104–28–2	Aroclor–1221	U	3.55	ug/kg	1.18	3.55	1
11141–16–5	Aroclor–1232	U	3.55	ug/kg	1.18	3.55	1
53469–21–9	Aroclor–1242	U	3.55	ug/kg	1.18	3.55	1
12672–29–6	Aroclor–1248	U	3.55	ug/kg	1.18	3.55	1
11097–69–1	Aroclor–1254	U	3.55	ug/kg	1.18	3.55	1
11096–82–5	Aroclor–1260	U	3.55	ug/kg	1.18	3.55	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/023f2301.d
Lab Smp Id: 246677008 Client Smp ID: RE15-10-8210
Inj Date : 17-FEB-2010 12:00
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677008|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8210|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

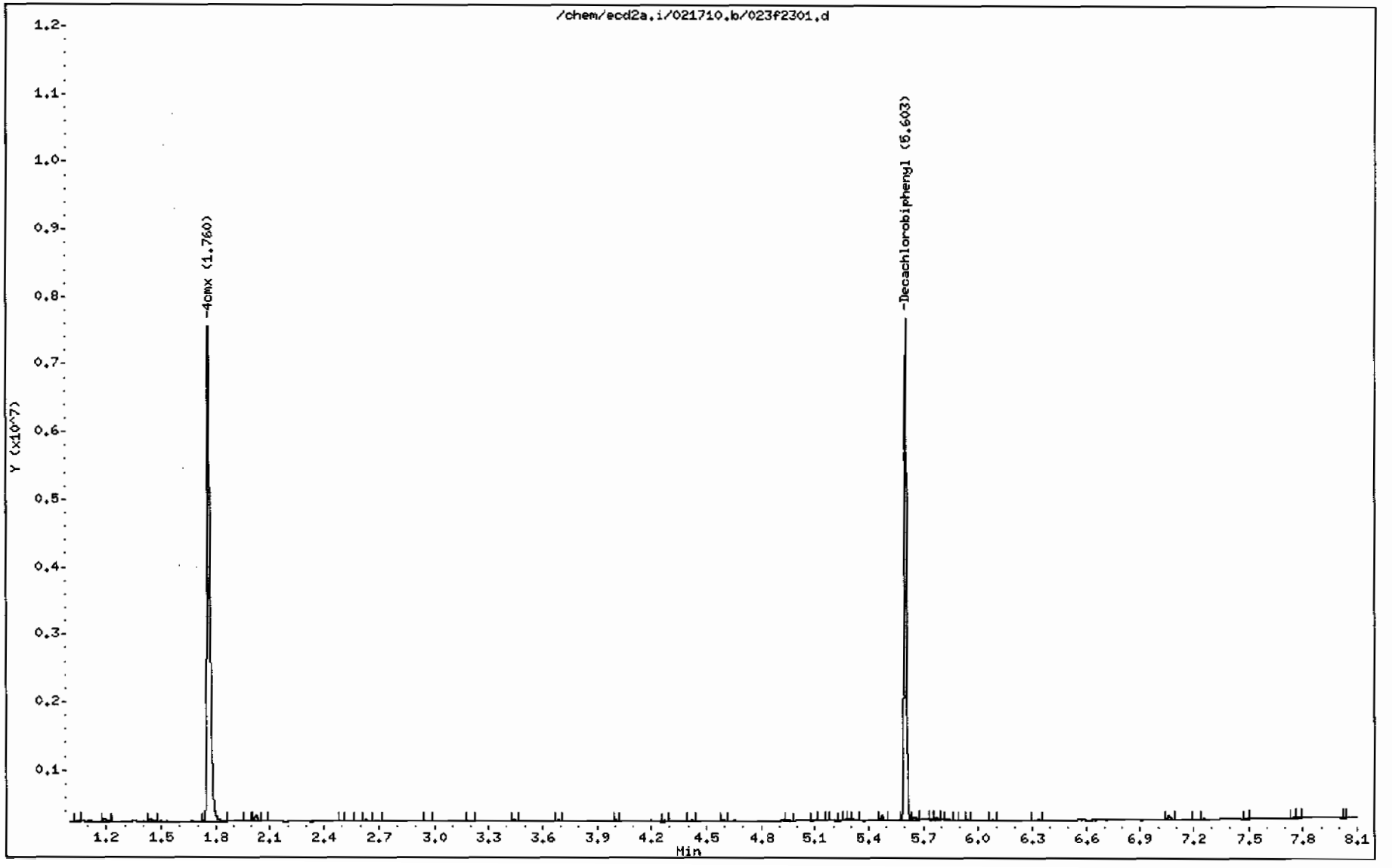
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.18000	Weight of sample extracted (g)
M	6.75240	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.760	1.759	0.001	8424165	112.599	4.0	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.603	5.604	-0.001	6737310	106.735	3.8	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/023f2301.d
Date : 17-FEB-2010 12:00
Client ID: RE15-10-8210
Sample Info: |246677008|1|
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/023b2301.d
Lab Smp Id: 246677008 Client Smp ID: RE15-10-8210
Inj Date : 17-FEB-2010 12:00
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |246677008|1|
Misc Info : |ECD82P_1S|953776|SVA|LANL|SOIL|RE15-10-8210|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

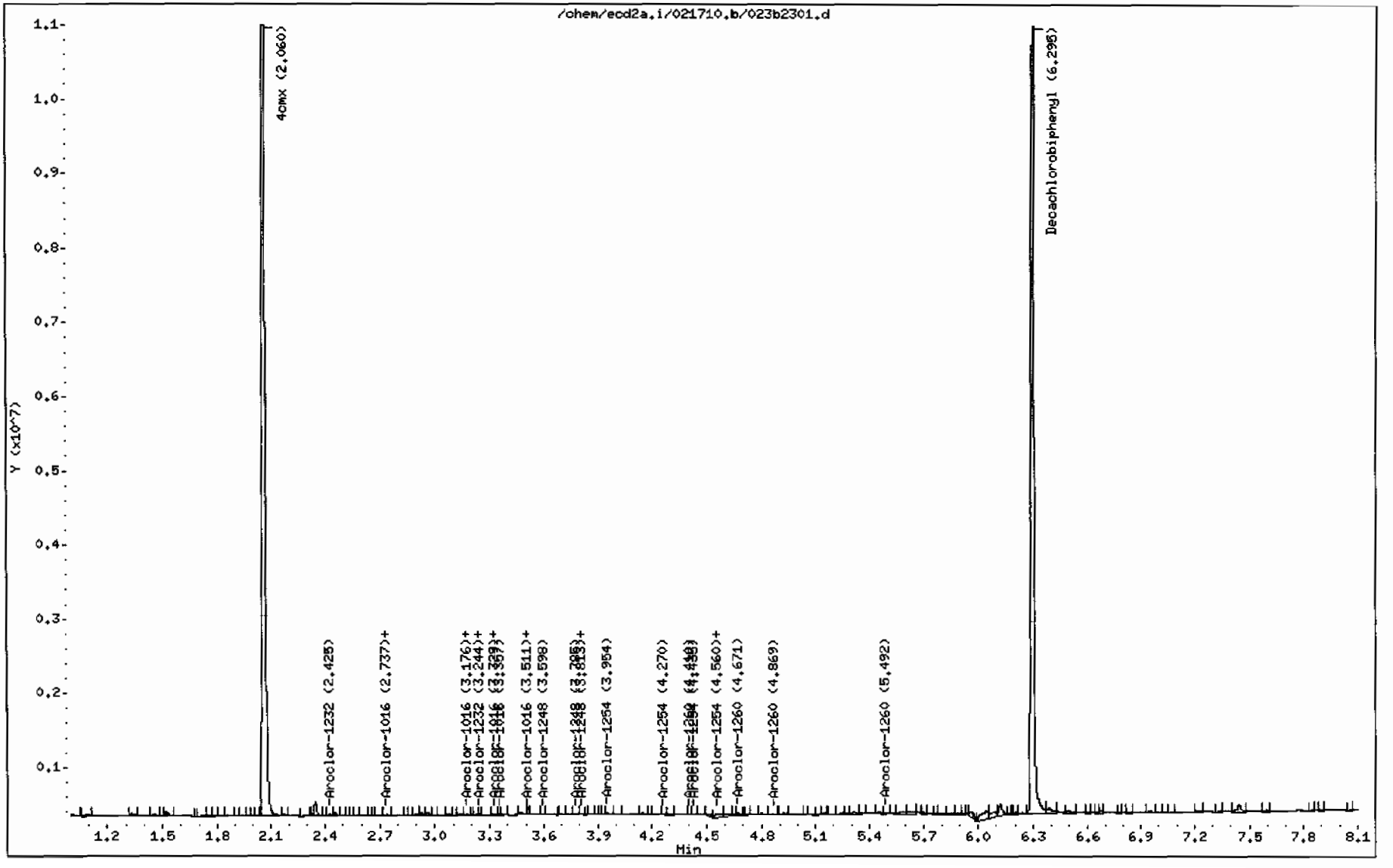
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.18000	Weight of sample extracted (g)
M	6.75240	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.060	2.058	0.002	18588233	114.269	4.1	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.295	6.296	-0.001	15559715	122.651	4.4	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/023b2301.d
Date : 17-FEB-2010 12:00
Client ID: RE15-10-8210
Sample Info: 1246677008|1|
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



STANDARDS DATA

Report Date: 18-Feb-2010 10:53

Calibration History

Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Start Cal Date: 12-NOV-2009 11:00
End Cal Date : 15-FEB-2010 12:10

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
21-JAN-2010 08:01	AR1232	/chem/ecd2a.i/012110.b/006f0601.d
02-DEC-2009 07:05	AR1262	/chem/ecd2a.i/120209.b/008f0801.d
07-JAN-2010 08:16	AR1268	/chem/ecd2a.i/010710.b/009f0901.d
05-FEB-2010 12:16	AR1248	/chem/ecd2a.i/020510.b/030f3001.d
05-FEB-2010 10:57	AR1242	/chem/ecd2a.i/020510.b/023f2301.d
15-FEB-2010 11:25	AR1254	/chem/ecd2a.i/021510a.b/016f1601.d
15-FEB-2010 10:19	AR1660	/chem/ecd2a.i/021510a.b/010f1001.d
Cal Level: 2 , Cal Amount: 250.00000		
21-JAN-2010 08:12	AR1232	/chem/ecd2a.i/012110.b/007f0701.d
02-DEC-2009 07:16	AR1262	/chem/ecd2a.i/120209.b/009f0901.d
07-JAN-2010 08:27	AR1268	/chem/ecd2a.i/010710.b/010f1001.d
05-FEB-2010 12:27	AR1248	/chem/ecd2a.i/020510.b/031f3101.d
05-FEB-2010 11:08	AR1242	/chem/ecd2a.i/020510.b/024f2401.d
15-FEB-2010 11:36	AR1254	/chem/ecd2a.i/021510a.b/017f1701.d
15-FEB-2010 10:30	AR1660	/chem/ecd2a.i/021510a.b/011f1101.d
Cal Level: 3 , Cal Amount: 500.00000		
21-JAN-2010 08:23	AR1232	/chem/ecd2a.i/012110.b/008f0801.d
02-DEC-2009 07:27	AR1262	/chem/ecd2a.i/120209.b/010f1001.d
07-JAN-2010 08:38	AR1268	/chem/ecd2a.i/010710.b/011f1101.d
05-FEB-2010 12:38	AR1248	/chem/ecd2a.i/020510.b/032f3201.d
05-FEB-2010 11:19	AR1242	/chem/ecd2a.i/020510.b/025f2501.d
15-FEB-2010 11:47	AR1254	/chem/ecd2a.i/021510a.b/018f1801.d
15-FEB-2010 10:41	AR1660	/chem/ecd2a.i/021510a.b/012f1201.d
Cal Level: 4 , Cal Amount: 1000.00000		
05-FEB-2010 12:49	AR1248	/chem/ecd2a.i/020510.b/033f3301.d
05-FEB-2010 11:30	AR1242	/chem/ecd2a.i/020510.b/026f2601.d
15-FEB-2010 11:58	AR1254	/chem/ecd2a.i/021510a.b/019f1901.d
15-FEB-2010 10:52	AR1660	/chem/ecd2a.i/021510a.b/013f1301.d
12-NOV-2009 11:45	DDTANALOGSTD	/chem/ecd2a.i/111209a.b/010f1001.d
07-JAN-2010 08:49	AR1268	/chem/ecd2a.i/010710.b/012f1201.d
02-DEC-2009 07:38	AR1262	/chem/ecd2a.i/120209.b/011f1101.d
12-NOV-2009 11:11	AR1221	/chem/ecd2a.i/111209a.b/007f0701.d
21-JAN-2010 08:34	AR1232	/chem/ecd2a.i/012110.b/009f0901.d
Cal Level: 5 , Cal Amount: 4000.00000		

21-JAN-2010 08:45	AR1232	/chem/ecd2a.i/012110.b/010f1001.d
02-DEC-2009 07:50	AR1262	/chem/ecd2a.i/120209.b/012f1201.d
07-JAN-2010 09:00	AR1268	/chem/ecd2a.i/010710.b/013f1301.d
05-FEB-2010 13:00	AR1248	/chem/ecd2a.i/020510.b/034f3401.d
05-FEB-2010 11:41	AR1242	/chem/ecd2a.i/020510.b/027f2701.d
15-FEB-2010 12:10	AR1254	/chem/ecd2a.i/021510a.b/020f2001.d
15-FEB-2010 11:03	AR1660	/chem/ecd2a.i/021510a.b/014f1401.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 15:20	AR1660	/chem/ecd2a.i/021710.b/041f4101.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 14:24	AR1660	/chem/ecd2a.i/021710.b/036f3601.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 12:11	AR1660	/chem/ecd2a.i/021710.b/024f2401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:46	AR1268	/chem/ecd2a.i/021710.b/011f1101.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:35	AR1262	/chem/ecd2a.i/021710.b/010f1001.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:24	AR1221	/chem/ecd2a.i/021710.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:13	AR1254	/chem/ecd2a.i/021710.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:51	AR1232	/chem/ecd2a.i/021710.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:40	AR1248	/chem/ecd2a.i/021710.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:02	AR1660	/chem/ecd2a.i/021710.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:29	AR1242	/chem/ecd2a.i/021710.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:18	AR1254	/chem/ecd2a.i/021710.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:07	AR1660	/chem/ecd2a.i/021710.b/002f0201.d

Report Date: 18-Feb-2010 10:53

Calibration History

Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Start Cal Date: 12-NOV-2009 11:00
End Cal Date : 15-FEB-2010 12:10

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
21-JAN-2010 08:01	AR1232	/chem/ecd2a.i/012110.b/006b0601.d
02-DEC-2009 07:05	AR1262	/chem/ecd2a.i/120209.b/008b0801.d
07-JAN-2010 08:16	AR1268	/chem/ecd2a.i/010710.b/009b0901.d
05-FEB-2010 12:16	AR1248	/chem/ecd2a.i/020510.b/030b3001.d
05-FEB-2010 10:57	AR1242	/chem/ecd2a.i/020510.b/023b2301.d
15-FEB-2010 11:25	AR1254	/chem/ecd2a.i/021510a.b/016b1601.d
15-FEB-2010 10:19	AR1660	/chem/ecd2a.i/021510a.b/010b1001.d
Cal Level: 2 , Cal Amount: 250.00000		
21-JAN-2010 08:12	AR1232	/chem/ecd2a.i/012110.b/007b0701.d
02-DEC-2009 07:16	AR1262	/chem/ecd2a.i/120209.b/009b0901.d
07-JAN-2010 08:27	AR1268	/chem/ecd2a.i/010710.b/010b1001.d
05-FEB-2010 12:27	AR1248	/chem/ecd2a.i/020510.b/031b3101.d
05-FEB-2010 11:08	AR1242	/chem/ecd2a.i/020510.b/024b2401.d
15-FEB-2010 11:36	AR1254	/chem/ecd2a.i/021510a.b/017b1701.d
15-FEB-2010 10:30	AR1660	/chem/ecd2a.i/021510a.b/011b1101.d
Cal Level: 3 , Cal Amount: 500.00000		
21-JAN-2010 08:23	AR1232	/chem/ecd2a.i/012110.b/008b0801.d
02-DEC-2009 07:27	AR1262	/chem/ecd2a.i/120209.b/010b1001.d
07-JAN-2010 08:38	AR1268	/chem/ecd2a.i/010710.b/011b1101.d
05-FEB-2010 12:38	AR1248	/chem/ecd2a.i/020510.b/032b3201.d
05-FEB-2010 11:19	AR1242	/chem/ecd2a.i/020510.b/025b2501.d
15-FEB-2010 11:47	AR1254	/chem/ecd2a.i/021510a.b/018b1801.d
15-FEB-2010 10:41	AR1660	/chem/ecd2a.i/021510a.b/012b1201.d
Cal Level: 4 , Cal Amount: 1000.00000		
05-FEB-2010 12:49	AR1248	/chem/ecd2a.i/020510.b/033b3301.d
05-FEB-2010 11:30	AR1242	/chem/ecd2a.i/020510.b/026b2601.d
15-FEB-2010 11:58	AR1254	/chem/ecd2a.i/021510a.b/019b1901.d
15-FEB-2010 10:52	AR1660	/chem/ecd2a.i/021510a.b/013b1301.d
12-NOV-2009 11:45	DDTANALOGSTD	/chem/ecd2a.i/111209a.b/010b1001.d
07-JAN-2010 08:49	AR1268	/chem/ecd2a.i/010710.b/012b1201.d
02-DEC-2009 07:38	AR1262	/chem/ecd2a.i/120209.b/011b1101.d
12-NOV-2009 11:11	AR1221	/chem/ecd2a.i/111209a.b/007b0701.d
21-JAN-2010 08:34	AR1232	/chem/ecd2a.i/012110.b/009b0901.d
Cal Level: 5 , Cal Amount: 4000.00000		
21-JAN-2010 08:45	AR1232	/chem/ecd2a.i/012110.b/010b1001.d
02-DEC-2009 07:50	AR1262	/chem/ecd2a.i/120209.b/012b1201.d
07-JAN-2010 09:00	AR1268	/chem/ecd2a.i/010710.b/013b1301.d
05-FEB-2010 13:00	AR1248	/chem/ecd2a.i/020510.b/034b3401.d
05-FEB-2010 11:41	AR1242	/chem/ecd2a.i/020510.b/027b2701.d

15-FEB-2010 12:10	AR1254	/chem/ecd2a.i/021510a.b/020b2001.d
15-FEB-2010 11:03	AR1660	/chem/ecd2a.i/021510a.b/014b1401.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 15:20	AR1660	/chem/ecd2a.i/021710.b/041b4101.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 14:24	AR1660	/chem/ecd2a.i/021710.b/036b3601.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 12:11	AR1660	/chem/ecd2a.i/021710.b/024b2401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:46	AR1268	/chem/ecd2a.i/021710.b/011b1101.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:35	AR1262	/chem/ecd2a.i/021710.b/010b1001.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:24	AR1221	/chem/ecd2a.i/021710.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:13	AR1254	/chem/ecd2a.i/021710.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:51	AR1232	/chem/ecd2a.i/021710.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:40	AR1248	/chem/ecd2a.i/021710.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 09:02	AR1660	/chem/ecd2a.i/021710.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:29	AR1242	/chem/ecd2a.i/021710.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:18	AR1254	/chem/ecd2a.i/021710.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
17-FEB-2010 08:07	AR1660	/chem/ecd2a.i/021710.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Quant Method : ESTD Target Version : 3.50
Last Update : 17-Feb-2010 15:34 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	500.000000
Initial:End Threshold	250.000000
Initial:Area Threshold	10000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	2.000000
Initial:Negative Peaks	OFF
Initial:Tension	1.100000
8.500:Bunch Factor	2.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.265	2.235-2.295	2.533e+03
	2.590	2.560-2.620	3.471e+03
	2.681	2.651-2.711	2.158e+03
	2.816	2.786-2.846	1.100e+03
	2.968	2.938-2.998	1.598e+03
2 Aroclor-1221	1.422	1.392-1.452	4.641e+02
	1.887	1.857-1.917	6.570e+02
	1.987	1.957-2.017	3.467e+02
3 Aroclor-1232	2.017	1.987-2.047	1.478e+03
	2.266	2.236-2.296	1.092e+03
	2.682	2.652-2.712	8.910e+02
	2.725	2.695-2.755	5.508e+02
	2.968	2.938-2.998	6.246e+02
4 Aroclor-1242	2.265	2.235-2.295	2.103e+03
	2.681	2.651-2.711	1.757e+03
	2.723	2.693-2.753	1.073e+03
	2.817	2.787-2.847	8.868e+02
	2.967	2.937-2.997	1.349e+03
5 Aroclor-1248	2.816	2.786-2.846	1.776e+03
	2.967	2.937-2.997	2.350e+03
	3.027	2.997-3.057	1.769e+03
	3.262	3.232-3.292	2.491e+03
	3.416	3.386-3.446	2.125e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.235	3.205-3.265	2.450e+03
	3.417	3.387-3.447	3.234e+03
	3.687	3.657-3.717	4.332e+03
	3.880	3.850-3.910	3.185e+03
	4.009	3.979-4.039	3.257e+03
7 Aroclor-1260	4.010	3.980-4.040	4.610e+03
	4.282	4.252-4.312	2.858e+03
	4.447	4.417-4.477	2.881e+03
	4.660	4.630-4.690	6.731e+03
	4.849	4.819-4.879	3.202e+03
8 Aroclor-1262	3.817	3.787-3.847	2.273e+03
	4.009	3.979-4.039	3.072e+03
	4.281	4.251-4.311	4.004e+03
	4.447	4.417-4.477	3.573e+03
	4.849	4.819-4.879	2.501e+03
9 Aroclor-1268	4.879	4.849-4.909	9.782e+03
	4.905	4.875-4.935	9.839e+03
	5.038	5.008-5.068	7.469e+03
	5.277	5.247-5.307	3.239e+03
	5.473	5.443-5.503	2.294e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
$ 11 4cmx	1.759	1.729-1.789	7.482e+04
$ 12 Decachlorobiphenyl	5.604	5.574-5.634	6.312e+04
13 4,4'-DDT	4.225	4.205-4.245	5.006e+04
14 4,4'-DDD	4.031	4.011-4.051	7.298e+04
15 4,4'-DDE	3.627	3.607-3.647	7.426e+04

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Quant Method : ESTD Target Version : 3.50
Last Update : 17-Feb-2010 15:34 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	1000.000000
Initial:End Threshold	500.000000
Initial:Area Threshold	500.000000
Initial:P-P Resolution	0.000000
Initial:Bunch Factor	3.000000
Initial:Negative Peaks	OFF
Initial:Tension	4.000000
4.200:Tension	1.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.737	2.707-2.767	5.255e+03
	3.173	3.143-3.203	4.011e+03
	3.324	3.294-3.354	2.323e+03
	3.353	3.323-3.383	2.416e+03
	3.512	3.482-3.542	3.204e+03
2 Aroclor-1221	2.283	2.253-2.313	1.263e+03
	2.389	2.359-2.419	7.739e+02
	2.433	2.403-2.463	3.051e+03
3 Aroclor-1232	2.434	2.404-2.464	2.542e+03
	2.738	2.708-2.768	2.197e+03
	3.174	3.144-3.204	1.559e+03
	3.246	3.216-3.276	9.480e+02
	3.511	3.481-3.541	1.167e+03
4 Aroclor-1242	2.738	2.708-2.768	4.257e+03
	3.173	3.143-3.203	3.239e+03
	3.245	3.215-3.275	1.943e+03
	3.324	3.294-3.354	1.836e+03
	3.512	3.482-3.542	2.632e+03
5 Aroclor-1248	3.324	3.294-3.354	3.807e+03
	3.511	3.481-3.541	4.823e+03
	3.598	3.568-3.628	5.177e+03
	3.787	3.757-3.817	5.242e+03
	3.817	3.787-3.847	6.203e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.811	3.781-3.841	5.931e+03
	3.953	3.923-3.983	6.653e+03
	4.270	4.240-4.300	8.864e+03
	4.434	4.404-4.464	6.352e+03
	4.560	4.530-4.590	4.156e+03
7 Aroclor-1260	4.408	4.378-4.438	6.299e+03
	4.560	4.530-4.590	7.792e+03
	4.672	4.642-4.702	5.424e+03
	4.868	4.838-4.898	6.025e+03
	5.495	5.465-5.525	9.679e+03
8 Aroclor-1262	4.408	4.378-4.438	4.703e+03
	4.559	4.529-4.589	5.853e+03
	4.868	4.838-4.898	8.946e+03
	5.068	5.038-5.098	7.772e+03
	5.248	5.218-5.278	1.672e+04
9 Aroclor-1268	5.493	5.463-5.523	2.078e+04
	5.525	5.495-5.555	2.083e+04
	5.696	5.666-5.726	1.556e+04
	5.897	5.867-5.927	6.423e+03
	6.121	6.091-6.151	4.919e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
$ 11 4cmx	2.058	2.028-2.088	1.627e+05
$ 12 Decachlorobiphenyl	6.296	6.266-6.326	1.269e+05
13 4,4'-DDT	4.814	4.794-4.834	8.705e+04
14 4,4'-DDD	4.600	4.580-4.620	1.499e+05
15 4,4'-DDE	4.195	4.175-4.215	1.504e+05

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
End Cal Date : 15-FEB-2010 12:10
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Cal Date : 17-Feb-2010 15:34 jen01212
Curve Type : Average

Calibration File Names:
Level 1: /chem/ecd2a.i/012110.b/006f0601.d
Level 2: /chem/ecd2a.i/012110.b/007f0701.d
Level 3: /chem/ecd2a.i/012110.b/008f0801.d
Level 4: /chem/ecd2a.i/020510.b/033f3301.d
Level 5: /chem/ecd2a.i/012110.b/010f1001.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	$\overline{RRF}$	% RSD
1 Aroclor-1016(1)	2735	2661	2579	2482	2211	2533	8.030
(2)	3513	3546	3518	3457	3322	3471	2.578
(3)	2336	2237	2177	2101	1940	2158	6.917
(4)	1235	1136	1105	1049	973	1100	8.889
(5)	1682	1627	1615	1595	1472	1598	4.841
2 Aroclor-1221(1)	+++++	+++++	+++++	464	+++++	464	0.000
(2)	+++++	+++++	+++++	657	+++++	657	0.000
(3)	+++++	+++++	+++++	347	+++++	347	0.000
3 Aroclor-1232(1)	1693	1584	1484	1409	1220	1478	12.117
(2)	1305	1155	1079	1032	890	1092	14.062
(3)	1013	935	891	855	761	891	10.499
(4)	596	581	554	535	488	551	7.655
(5)	770	637	618	566	533	625	14.598
4 Aroclor-1242(1)	2293	2275	2105	2031	1809	2103	9.425
(2)	1909	1837	1753	1707	1581	1757	7.149
(3)	1143	1123	1062	1044	993	1073	5.642
(4)	983	935	879	842	795	887	8.401
(5)	1430	1406	1357	1321	1231	1349	5.823
5 Aroclor-1248(1)	1892	1869	1786	1716	1618	1776	6.341
(2)	2410	2436	2369	2316	2221	2350	3.636
(3)	1828	1804	1757	1770	1687	1769	3.037
(4)	2483	2472	2491	2506	2504	2491	0.571
(5)	2153	2154	2123	2135	2060	2125	1.809
6 Aroclor-1254(1)	2598	2499	2430	2426	2300	2450	4.461
(2)	3345	3278	3218	3208	3119	3234	2.614
(3)	4299	4330	4309	4410	4314	4332	1.035
(4)	3163	3164	3133	3232	3232	3185	1.410
(5)	3567	3284	3159	3218	3059	3257	5.889

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
End Cal Date : 15-FEB-2010 12:10
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Cal Date : 17-Feb-2010 15:34 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)	4563	4526	4689	4731	4538	4610	2.041
	(2)	2954	2775	2902	2905	2755	2858	3.072
	(3)	2932	2770	2922	2951	2830	2881	2.693
	(4)	6477	6499	6835	7011	6834	6731	3.465
	(5)	3103	3114	3235	3302	3256	3202	2.771
	8 Aroclor-1262(1)	2530	2266	2239	2239	2092	2273	6.993
	(2)	3295	3066	3031	3051	2917	3072	4.482
	(3)	4237	3997	3977	3997	3815	4004	3.763
	(4)	3754	3532	3556	3594	3430	3573	3.295
	(5)	2578	2453	2481	2538	2454	2501	2.217
	9 Aroclor-1268(1)	9960	9712	9638	9856	9743	9782	1.295
	(2)	10427	9736	9819	9812	9401	9839	3.768
	(3)	7803	7453	7371	7450	7266	7469	2.702
	(4)	3410	3296	3214	3182	3091	3239	3.727
	(5)	23130	22747	22846	23230	22770	22944	0.963
M	10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	13 4,4'-DDT	+++++	+++++	+++++	50063	+++++	50063	0.000
	14 4,4'-DDD	+++++	+++++	+++++	72978	+++++	72978	0.000
	15 4,4'-DDE	+++++	+++++	+++++	74262	+++++	74262	0.000
$	11 4cmx	71677	74364	76425	77370	74242	74816	2.951
$	12 Decachlorobiphenyl	65489	62014	63290	63850	60967	63122	2.748

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
End Cal Date : 15-FEB-2010 12:10
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Cal Date : 17-Feb-2010 15:34 jen01212
Curve Type : Average

Calibration File Names:
Level 1: /chem/ecd2a.i/012110.b/006b0601.d
Level 2: /chem/ecd2a.i/012110.b/007b0701.d
Level 3: /chem/ecd2a.i/012110.b/008b0801.d
Level 4: /chem/ecd2a.i/020510.b/033b3301.d
Level 5: /chem/ecd2a.i/012110.b/010b1001.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)	5185	5333	5463	5418	4876	5255	4.508
(2)	3776	3980	4144	4196	3961	4011	4.149
(3)	2219	2302	2393	2417	2282	2323	3.516
(4)	2303	2385	2471	2515	2405	2416	3.375
(5)	2961	3123	3317	3377	3242	3204	5.168
2 Aroclor-1221(1)	+++++	+++++	+++++	1263	+++++	1263	0.000
(2)	+++++	+++++	+++++	774	+++++	774	0.000
(3)	+++++	+++++	+++++	3051	+++++	3051	0.000
3 Aroclor-1232(1)	2686	2595	2551	2554	2323	2542	5.267
(2)	2414	2215	2163	2169	2023	2197	6.413
(3)	1656	1537	1539	1521	1542	1559	3.506
(4)	997	928	922	933	961	948	3.293
(5)	1358	1132	1098	1113	1134	1167	9.225
4 Aroclor-1242(1)	4342	4353	4299	4352	3941	4257	4.189
(2)	3134	3264	3258	3338	3198	3239	2.374
(3)	1870	1911	1938	2000	1998	1943	2.907
(4)	1843	1845	1822	1868	1803	1836	1.339
(5)	2527	2634	2631	2721	2647	2632	2.640
5 Aroclor-1248(1)	3650	3814	3928	3940	3705	3807	3.403
(2)	4523	4798	5010	5037	4747	4823	4.362
(3)	4855	5100	5422	5358	5152	5177	4.355
(4)	4683	5075	5458	5553	5441	5242	6.903
(5)	5711	6115	6467	6499	6225	6203	5.148
6 Aroclor-1254(1)	5800	5877	6005	6122	5851	5931	2.202
(2)	6230	6535	6718	6962	6818	6653	4.248
(3)	8112	8725	9016	9389	9079	8864	5.441
(4)	5909	6254	6437	6776	6384	6352	4.939
(5)	4114	4005	4065	4390	4208	4156	3.615

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
End Cal Date : 15-FEB-2010 12:10
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Cal Date : 17-Feb-2010 15:34 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)	5763	6215	6488	6684	6347	6299	5.500
	(2)	7057	7679	8044	8354	7825	7792	6.201
	(3)	4985	5319	5586	5757	5472	5424	5.404
	(4)	5691	5878	6154	6374	6028	6025	4.325
	(5)	9523	9169	9538	10215	9951	9679	4.212
	8 Aroclor-1262(1)	4855	4536	4634	4812	4677	4703	2.776
	(2)	5760	5648	5834	6083	5942	5853	2.859
	(3)	8687	8674	9001	9349	9021	8946	3.121
	(4)	7559	7507	7790	8124	7880	7772	3.221
	(5)	15890	16154	16824	17584	17141	16719	4.167
	9 Aroclor-1268(1)	19681	20538	20944	21652	21077	20778	3.522
	(2)	20049	20780	21168	21526	20631	20831	2.683
	(3)	14816	15313	15674	16201	15813	15563	3.374
	(4)	6082	6303	6421	6627	6683	6423	3.811
	(5)	47383	48640	49735	50972	49227	49192	2.697
M	10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	13 4,4'-DDT	+++++	+++++	+++++	87046	+++++	87046	0.000
	14 4,4'-DDD	+++++	+++++	+++++	149858	+++++	149858	0.000
	15 4,4'-DDE	+++++	+++++	+++++	150414	+++++	150414	0.000
$	11 4cmx	146506	159294	167630	172226	167701	162671	6.253
$	12 Decachlorobiphenyl	124056	122029	127008	132547	128671	126862	3.222

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.: 10-1703

Instrument ID: ECD2A Calibration Date: 02/17/10 Time: 0902

Lab File ID: 007F0701 Init. Calib. Date(s): 02/15/10 02/15/10

Heated Purge: (Y/N) N Init. Calib. Times: 1019 1103

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2533.287	2501.264	0.01	-1.3	15.0
(2)	3471.131	3534.595	0.01	1.8	15.0
(3)	2158.216	2129.638	0.01	-1.3	15.0
(4)	1099.569	1077.129	0.01	-2.0	15.0
(5)	1598.089	1594.621	0.01	-0.2	15.0
Aroclor-1260	4609.535	4876.370	0.01	5.8	15.0
(2)	2857.968	3051.606	0.01	6.8	15.0
(3)	2881.239	3100.539	0.01	7.6	15.0
(4)	6731.226	7225.940	0.01	7.3	15.0
(5)	3201.806	3429.046	0.01	7.1	15.0
4cmx	74815.615	78725.200	0.01	5.2	15.0
Decachlorobiphenyl	63121.923	66060.970	0.01	4.6	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.: 10-1703

Instrument ID: ECD2A Calibration Date: 02/17/10 Time: 0902

Lab File ID: 007B0701 Init. Calib. Date(s): 02/15/10 02/15/10

Heated Purge: (Y/N) N Init. Calib. Times: 1019 1103

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	5254.865	5407.534	0.01	2.9	15.0
(2)	4011.159	4238.569	0.01	5.7	15.0
(3)	2322.637	2464.181	0.01	6.1	15.0
(4)	2415.906	2567.229	0.01	6.3	15.0
(5)	3203.971	3451.574	0.01	7.7	15.0
Aroclor-1260	6299.458	6875.703	0.01	9.1	15.0
(2)	7791.989	8597.179	0.01	10.3	15.0
(3)	5423.853	5905.614	0.01	8.9	15.0
(4)	6025.271	6586.506	0.01	9.3	15.0
(5)	9679.152	10443.402	0.01	7.9	15.0
4cmx	162671.28	173043.11	0.01	6.4	15.0
Decachlorobiphenyl	126862.19	130811.96	0.01	3.1	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.: 10-1703

Instrument ID: ECD2A Calibration Date: 02/17/10 Time: 1211

Lab File ID: 024F2401 Init. Calib. Date(s): 02/15/10 02/15/10

Heated Purge: (Y/N) N Init. Calib. Times: 1019 1103

GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2533.287	2487.553	0.01	-1.8	15.0
(2)	3471.131	3505.154	0.01	1.0	15.0
(3)	2158.216	2109.519	0.01	-2.2	15.0
(4)	1099.569	1067.420	0.01	-2.9	15.0
(5)	1598.089	1593.345	0.01	-0.3	15.0
Aroclor-1260	4609.535	4780.993	0.01	3.7	15.0
(2)	2857.968	2970.914	0.01	4.0	15.0
(3)	2881.239	3117.409	0.01	8.2	15.0
(4)	6731.226	7091.404	0.01	5.4	15.0
(5)	3201.806	3392.010	0.01	5.9	15.0
4cmx	74815.615	78192.630	0.01	4.5	15.0
Decachlorobiphenyl	63121.923	65727.960	0.01	4.1	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.: 10-1703

Instrument ID: ECD2A Calibration Date: 02/17/10 Time: 1211

Lab File ID: 024B2401 Init. Calib. Date(s): 02/15/10 02/15/10

Heated Purge: (Y/N) N Init. Calib. Times: 1019 1103

GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	5254.865	5365.799	0.01	2.1	15.0
(2)	4011.159	4184.924	0.01	4.3	15.0
(3)	2322.637	2409.354	0.01	3.7	15.0
(4)	2415.906	2517.150	0.01	4.2	15.0
(5)	3203.971	3374.086	0.01	5.3	15.0
Aroclor-1260	6299.458	6654.909	0.01	5.6	15.0
(2)	7791.989	8304.154	0.01	6.6	15.0
(3)	5423.853	5712.451	0.01	5.3	15.0
(4)	6025.271	6353.886	0.01	5.4	15.0
(5)	9679.152	10244.754	0.01	5.8	15.0
4cmx	162671.28	172564.38	0.01	6.1	15.0
Decachlorobiphenyl	126862.19	130477.38	0.01	2.8	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/004f0401.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 17-FEB-2010 08:29
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091217-42
Misc Info : |PCB_CVS|1242||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 10:54 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.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

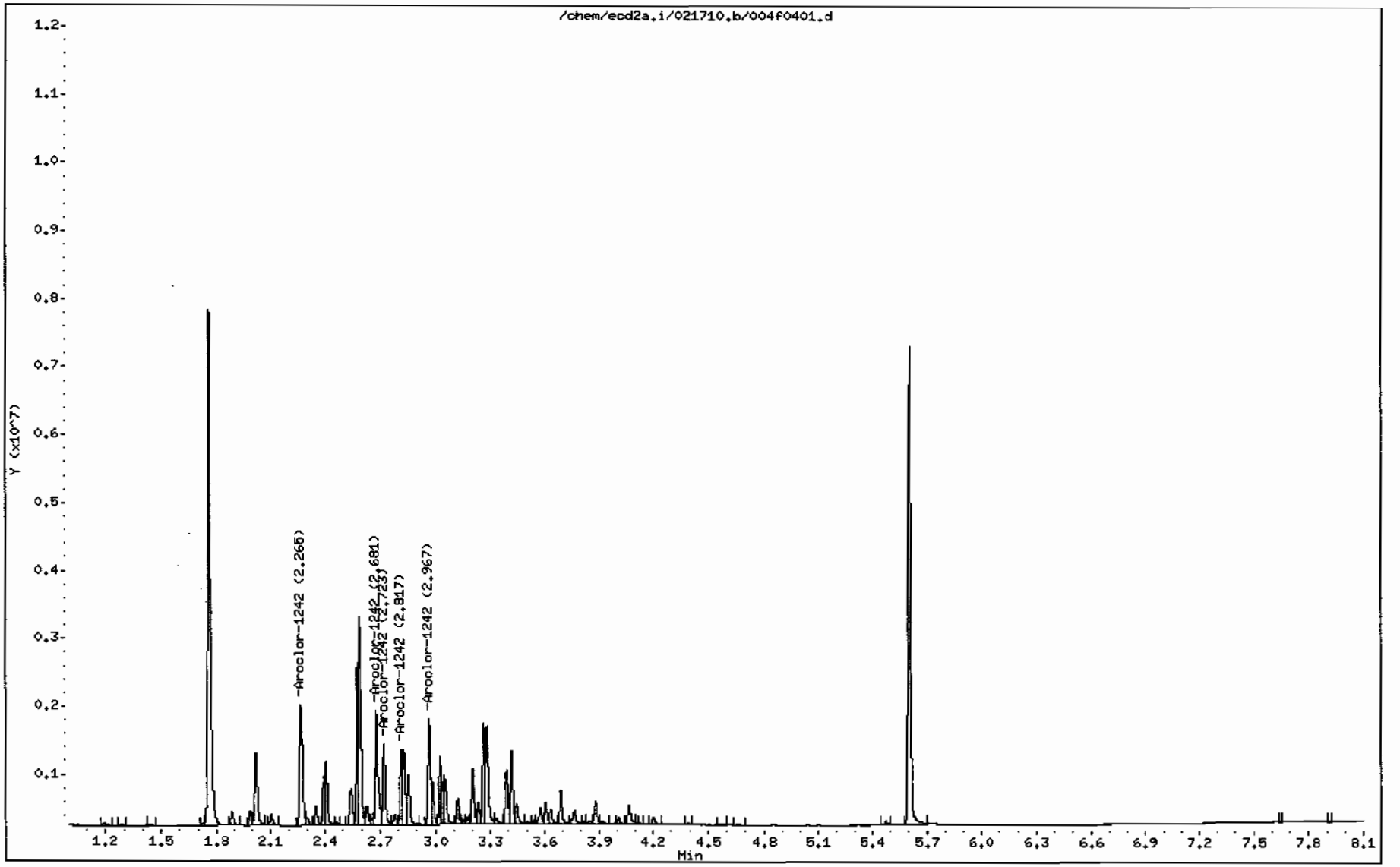
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
4 Aroclor-1242					CAS #: 53469-21-9		
2.265	2.265	0.000	2121063	1000.00	1010	80.00- 120.00	100.00
2.681	2.681	0.000	1779858	1000.00	1010	63.91- 103.91	83.91
2.723	2.723	0.000	1082767	1000.00	1010	31.05- 71.05	51.05
2.817	2.817	0.000	875845	1000.00	988	21.29- 61.29	41.29
2.967	2.967	0.000	1356153	1000.00	1000	43.94- 83.94	63.94
		Average of Peak Amounts =			1e+03		

Data File: /chem/ecd2a.i/021710.b/004f0401.d
Date : 17-FEB-2010 08:29
Client ID: AR124201
Sample Info: IWAR091217-42

Column phase: CLP1

Instrument: ecd2a.i

Operator: JADC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/004b0401.d
Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
Inj Date : 17-FEB-2010 08:29
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091217-42
Misc Info : |PCB_CVS|1242||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 17-Feb-2010 10:53 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.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

RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
4 Aroclor-1242					CAS #: 53469-21-9		
2.738	2.738	0.000	4562740	1000.00	1070	80.00- 120.00	100.00
3.173	3.173	0.000	3496023	1000.00	1080	56.62- 96.62	76.62
3.245	3.245	0.000	2087370	1000.00	1070	25.75- 65.75	45.75
3.324	3.324	0.000	1961824	1000.00	1070	23.00- 63.00	43.00
3.512	3.512	0.000	2868991	1000.00	1090	42.88- 82.88	62.88

Average of Peak Amounts = 1.08e+03

Data File: /chem/ecd2a.i/021710.b/004b0401.d

Date : 17-FEB-2010 08:29

Client ID: AR124201

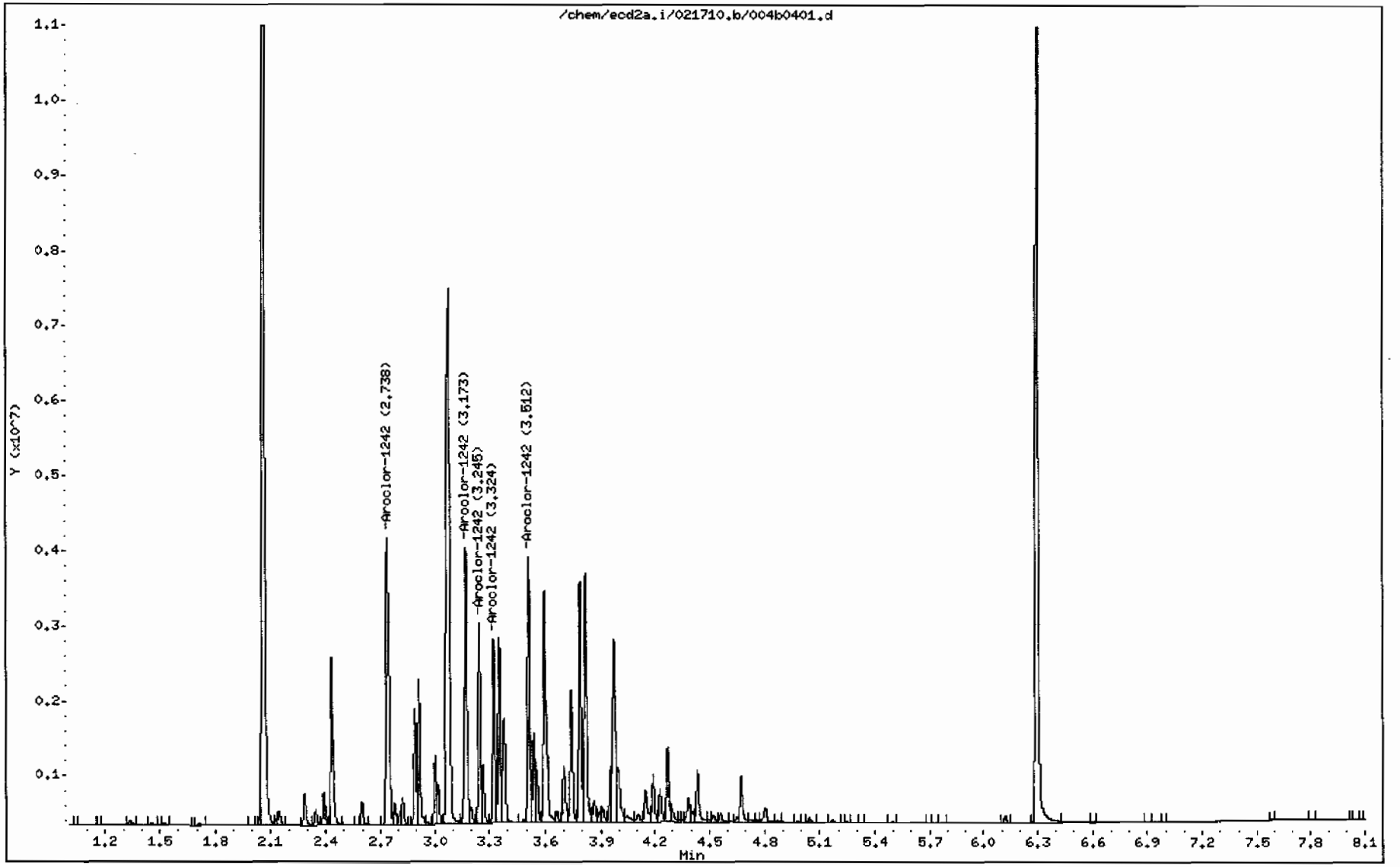
Sample Info: IWAR091217-42

Column phase: CLP2

Instrument: ecd2a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/005f0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 17-FEB-2010 08:40
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091217-48
Misc Info : |PCB_CVS|1248||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 10:54 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None

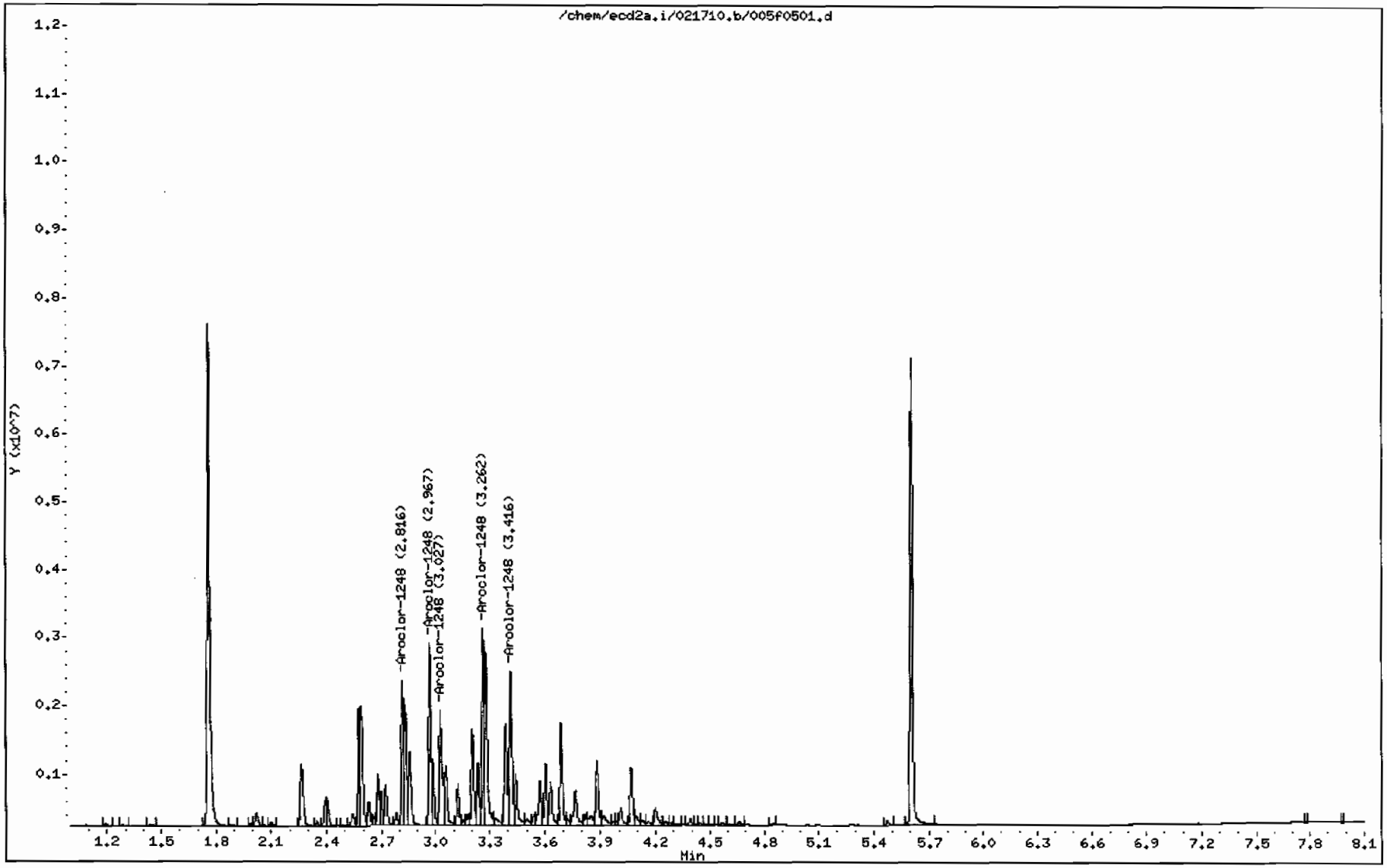
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6		
2.816	2.816	0.000	1703446	1000.00	959	80.00- 120.00	100.00
2.967	2.967	0.000	2322830	1000.00	988	116.36- 156.36	136.36
3.027	3.027	0.000	1811654	1000.00	1020	86.35- 126.35	106.35
3.262	3.262	0.000	2476048	1000.00	994	125.36- 165.36	145.36
3.416	3.416	0.000	2117803	1000.00	996	104.32- 144.32	124.32
		Average of Peak Amounts =			992		

Data File: /chem/ecd2a.i/021710.b/005f0501.d
Date : 17-FEB-2010 08:40
Client ID: AR124801
Sample Info: IWAR091217-48

Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/005b0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 17-FEB-2010 08:40
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091217-48
Misc Info : |PCB_CVS|1248||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 17-Feb-2010 10:53 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6		
3.324	3.324	0.000	3862115	1000.00	1010	80.00- 120.00	100.00
3.511	3.511	0.000	4951192	1000.00	1030	108.20- 148.20	128.20
3.598	3.598	0.000	5270930	1000.00	1020	116.48- 156.48	136.48
3.787	3.787	0.000	5356990	1000.00	1020	118.71- 158.71	138.71
3.817	3.817	0.000	6285886	1000.00	1010	142.76- 182.76	162.76

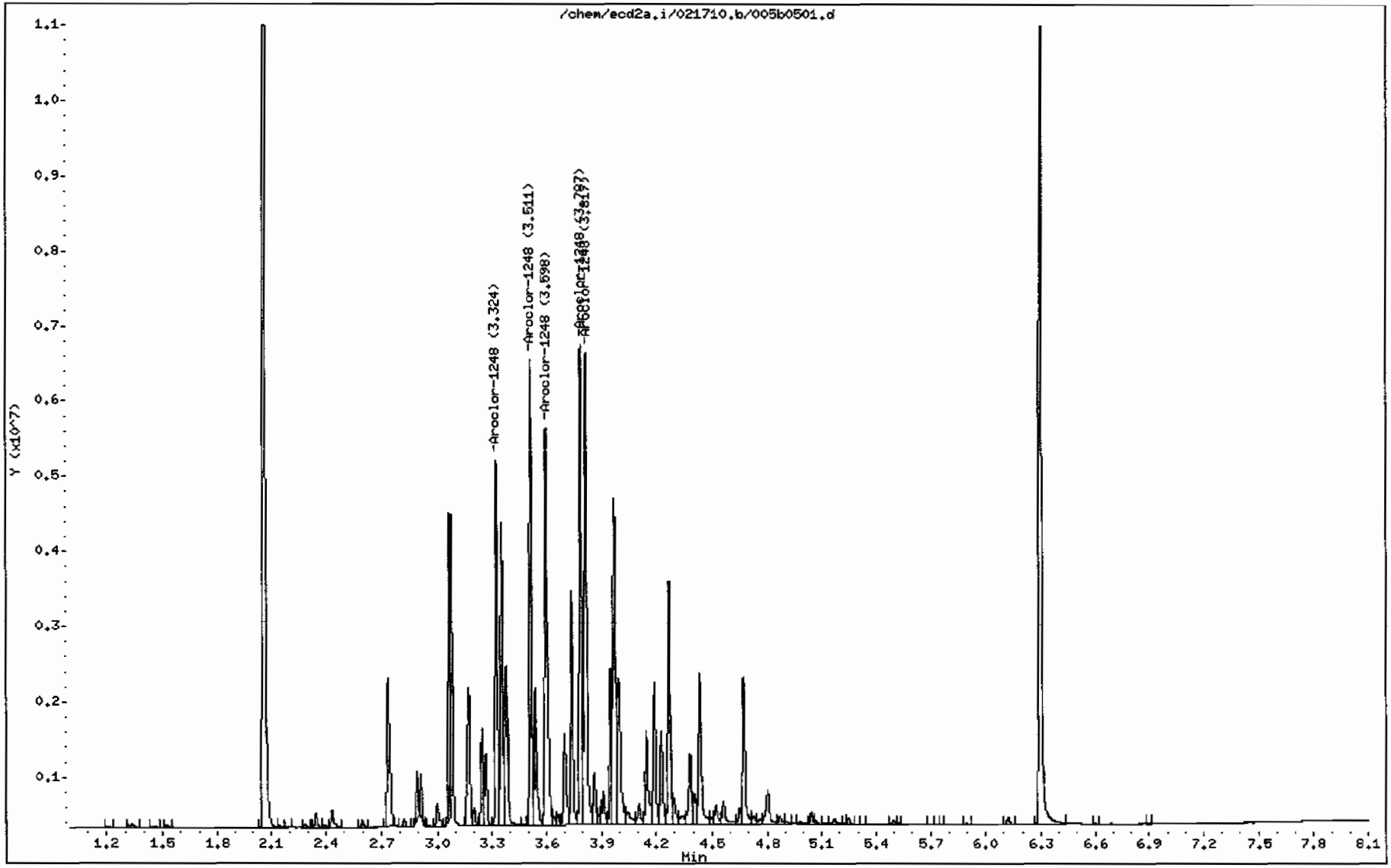
Average of Peak Amounts = 1.02e+03

Data File: /chem/ecd2a.i/021710.b/005b0501.d
Date : 17-FEB-2010 08:40
Client ID: AR124801
Sample Info: IWAR091217-48

Column phase: CLP2

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/006f0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 17-FEB-2010 08:51
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100104-32
Misc Info : |PCB_CVS|1232||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 10:54 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		
2.017	2.017	0.000	1550038	1000.00	1050	80.00- 120.00	100.00
2.266	2.266	0.000	1280525	1000.00	1170	62.61- 102.61	82.61
2.682	2.682	0.000	1098863	1000.00	1230	50.89- 90.89	70.89
2.725	2.725	0.000	695657	1000.00	1260	24.88- 64.88	44.88
2.968	2.968	0.000	785990	1000.00	1260	30.71- 70.71	50.71

Average of Peak Amounts = 1.2e+03

Data File: /chem/ecd2a.i/021710.b/006f0601.d

Date : 17-FEB-2010 08:51

Client ID: AR123201

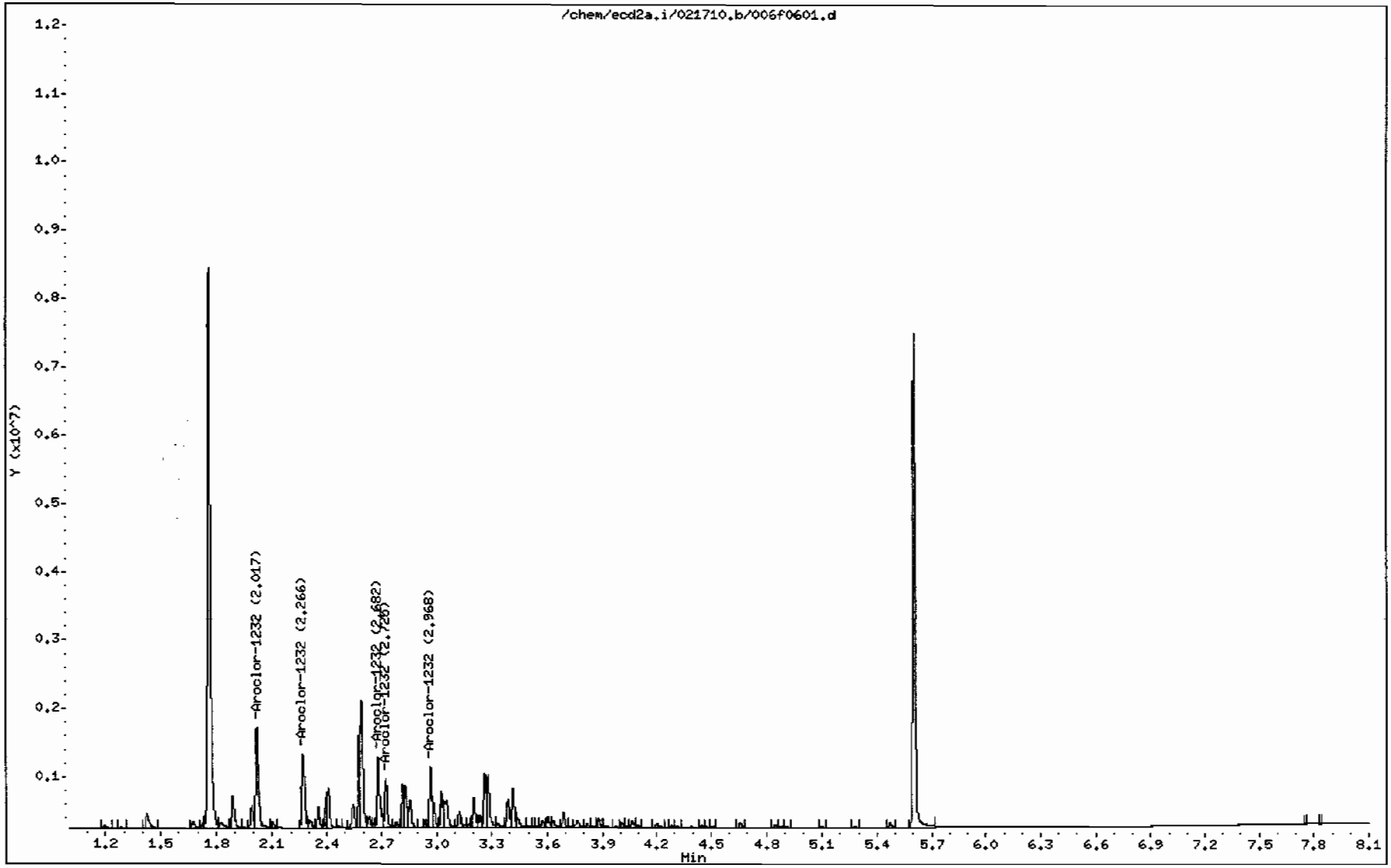
Sample Info: IWAR100104-32

Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/006b0601.d
Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
Inj Date : 17-FEB-2010 08:51
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100104-32
Misc Info : |PCB_CVS|1232||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 17-Feb-2010 10:53 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1232.sub
Target Version: 3.50 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		
2.434	2.434	0.000	2898072	1000.00	1140	80.00- 120.00	100.00
2.738	2.738	0.000	2800822	1000.00	1270	76.64- 116.64	96.64
3.174	3.174	0.000	2083973	1000.00	1340	51.91- 91.91	71.91
3.246	3.246	0.000	1278268	1000.00	1350	24.11- 64.11	44.11
3.511	3.511	0.000	1576973	1000.00	1350	34.41- 74.41	54.41

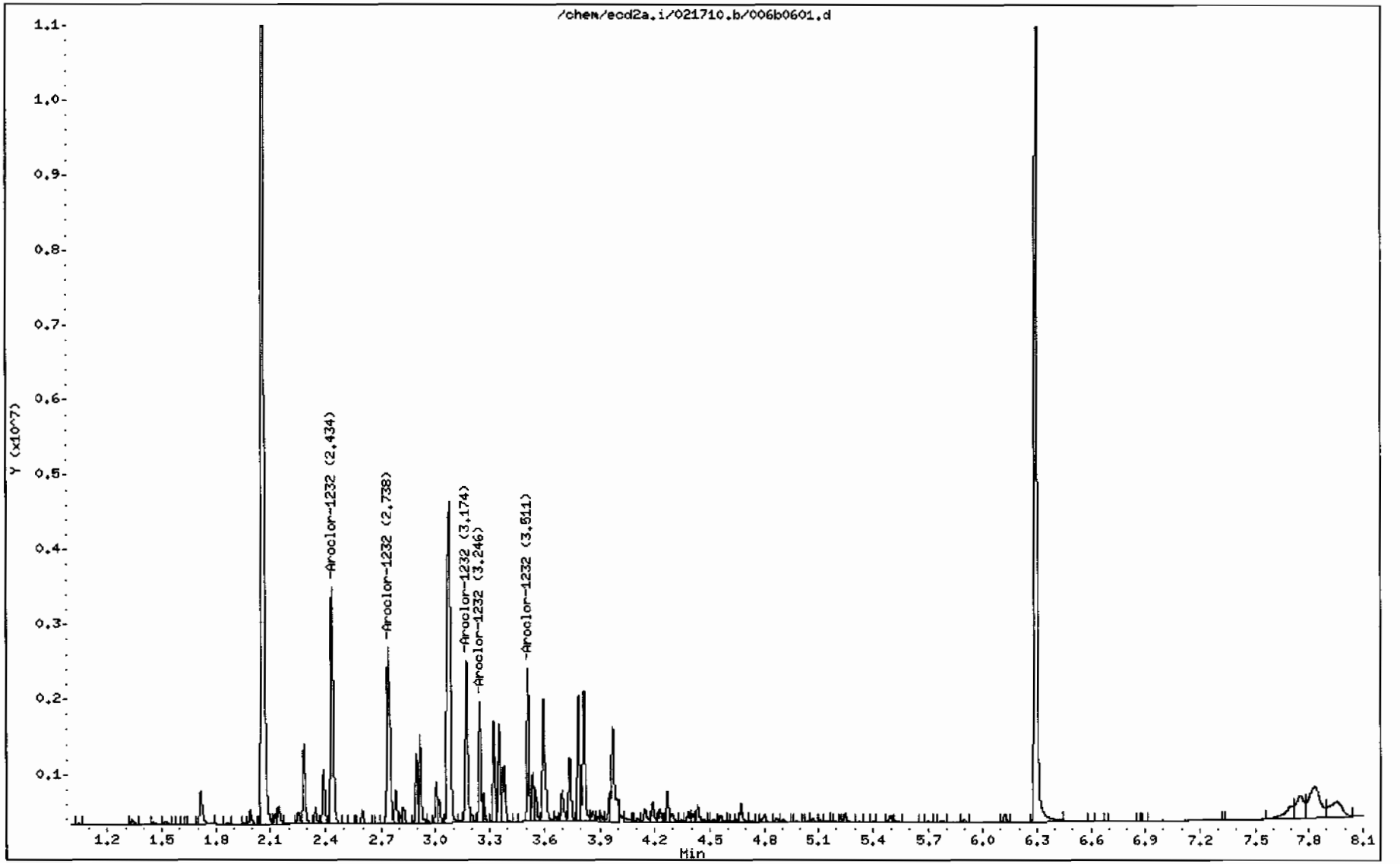
Average of Peak Amounts = 1.29e+03

Data File: /chem/ecd2a.i/021710.b/006b0601.d
Date : 17-FEB-2010 08:51
Client ID: AR123201
Sample Info: IWAR100104-32

Column phase: CLP2

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/007f0701.d
Lab Smp Id: WAR100217-60 01 Client Smp ID: AR166001
Inj Date : 17-FEB-2010 09:02
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100217-60 01
Misc Info : |PCB_CVS|1660||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 10:54 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

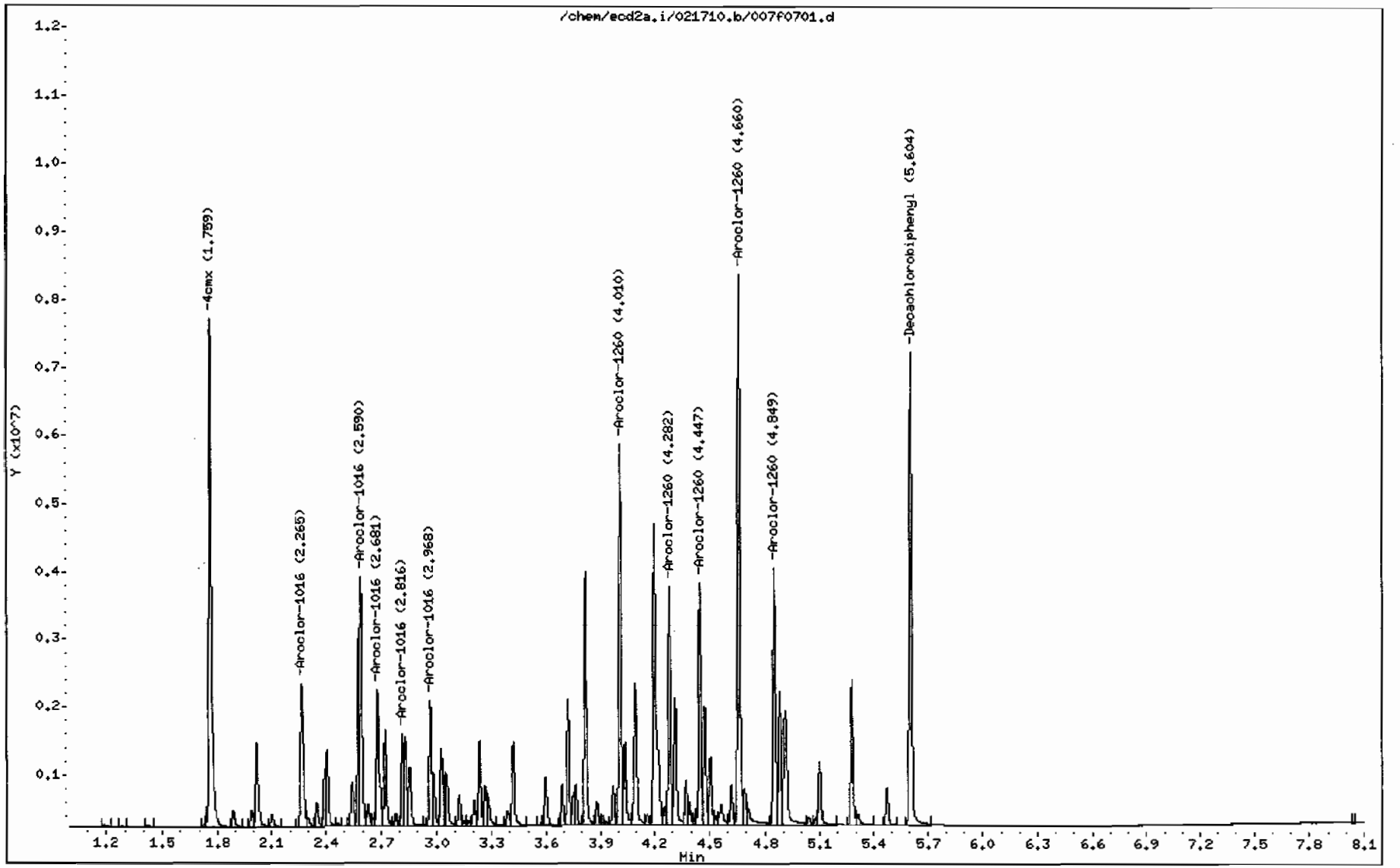
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.759	1.759	0.000	7872520	100.000	105	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.604	5.604	0.000	6606097	100.000	105	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.265	2.265	0.000	2501263	1000.00	987	80.00- 120.00	100.00
2.590	2.590	0.000	3534595	1000.00	1020	121.31- 161.31	141.31
2.681	2.681	0.000	2129638	1000.00	987	65.14- 105.14	85.14
2.816	2.816	0.000	1077128	1000.00	980	23.06- 63.06	43.06
2.968	2.968	0.000	1594620	1000.00	998	43.75- 83.75	63.75
Average of Peak Amounts =					994		
7 Aroclor-1260					CAS #: 11096-82-5		
4.010	4.010	0.000	4876369	1000.00	1060	80.00- 120.00	100.00
4.282	4.282	0.000	3051605	1000.00	1070	42.58- 82.58	62.58
4.447	4.447	0.000	3100539	1000.00	1080	43.58- 83.58	63.58
4.660	4.660	0.000	7225939	1000.00	1070	128.18- 168.18	148.18
4.849	4.849	0.000	3429045	1000.00	1070	50.32- 90.32	70.32
Average of Peak Amounts =					1.07e+03		

Data File: /chem/ecd2a.i/021710.b/007f0701.d
Date : 17-FEB-2010 09:02
Client ID: AR166001
Sample Info: IWAR100217-60 01

Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/007b0701.d
Lab Smp Id: WAR100217-60 01 Client Smp ID: AR166001
Inj Date : 17-FEB-2010 09:02
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100217-60 01
Misc Info : |PCB_CVS|1660||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 17-Feb-2010 10:53 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None

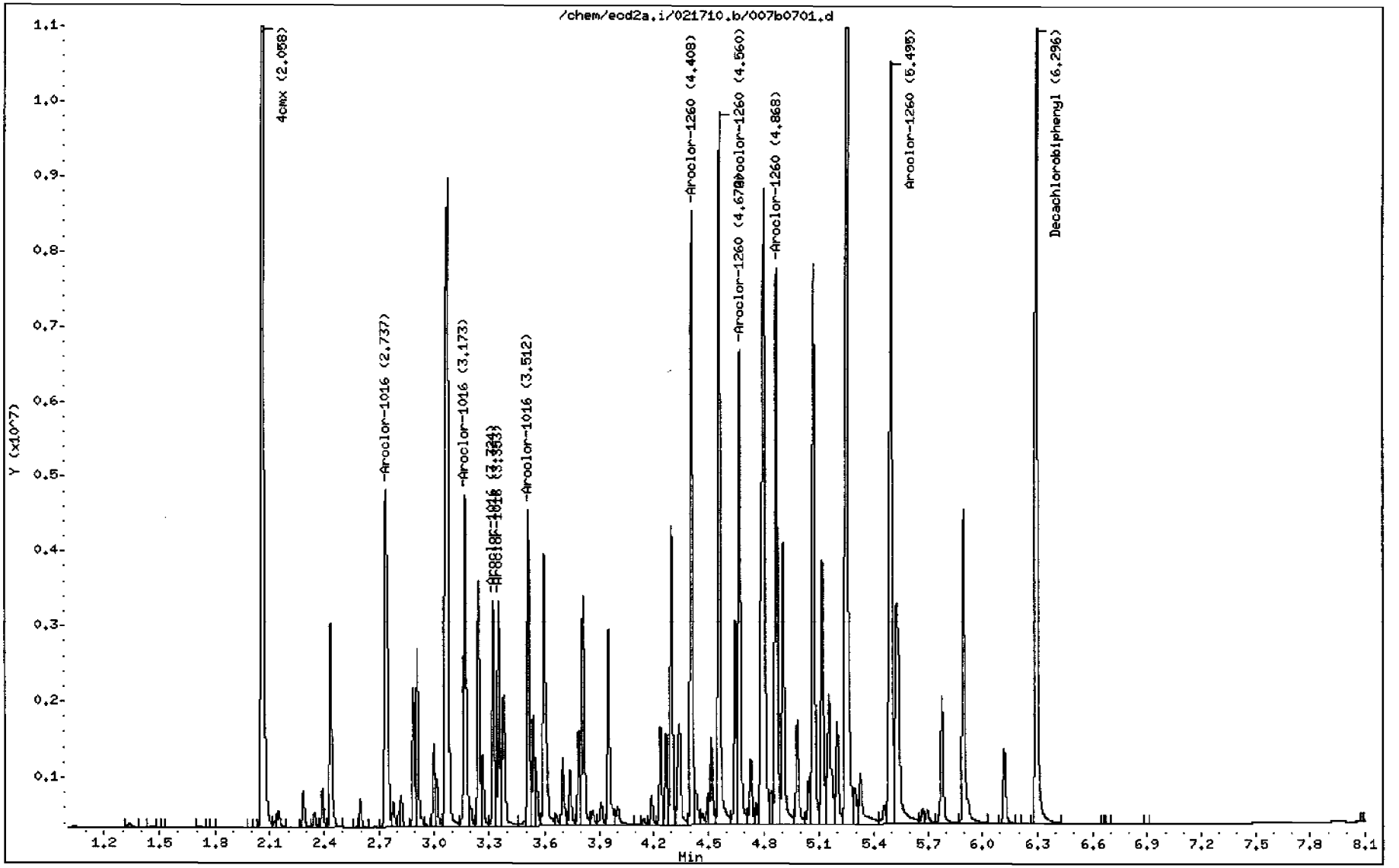
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.058	2.058	0.000	17304311	100.000	106	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.296	6.296	0.000	13081196	100.000	103	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.737	2.737	0.000	5407534	1000.00	1030	80.00- 120.00	100.00
3.173	3.173	0.000	4238569	1000.00	1060	58.38- 98.38	78.38
3.324	3.324	0.000	2464181	1000.00	1060	25.57- 65.57	45.57
3.353	3.353	0.000	2567229	1000.00	1060	27.48- 67.48	47.48
3.512	3.512	0.000	3451573	1000.00	1080	43.83- 83.83	63.83
Average of Peak Amounts =					1.06e+03		
7 Aroclor-1260					CAS #: 11096-82-5		
4.408	4.408	0.000	6875702	1000.00	1090	80.00- 120.00	100.00
4.560	4.560	0.000	8597178	1000.00	1100	105.04- 145.04	125.04
4.672	4.672	0.000	5905614	1000.00	1090	65.89- 105.89	85.89
4.868	4.868	0.000	6586506	1000.00	1090	75.79- 115.79	95.79
5.495	5.495	0.000	10443401	1000.00	1080	131.89- 171.89	151.89
Average of Peak Amounts =					1.09e+03		

Data File: /chem/ecd2a.i/021710.b/007b0701.d
Date : 17-FEB-2010 09:02
Client ID: AR166001
Sample Info: IWAR100217-60 01

Column phase: CLP2

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/008f0801.d
Lab Smp Id: WAR100217-54 Client Smp ID: AR125401
Inj Date : 17-FEB-2010 09:13
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100217-54
Misc Info : |PCB_CVS|1254||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 10:54 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254					CAS #: 11097-69-1		
3.235	3.235	0.000	2476854	1000.00	1010	80.00- 120.00	100.00
3.417	3.417	0.000	3322590	1000.00	1030	114.15- 154.15	134.15
3.687	3.687	0.000	4543085	1000.00	1050	163.42- 203.42	183.42
3.880	3.880	0.000	3327733	1000.00	1040	114.35- 154.35	134.35
4.009	4.009	0.000	3315861	1000.00	1020	113.87- 153.87	133.87

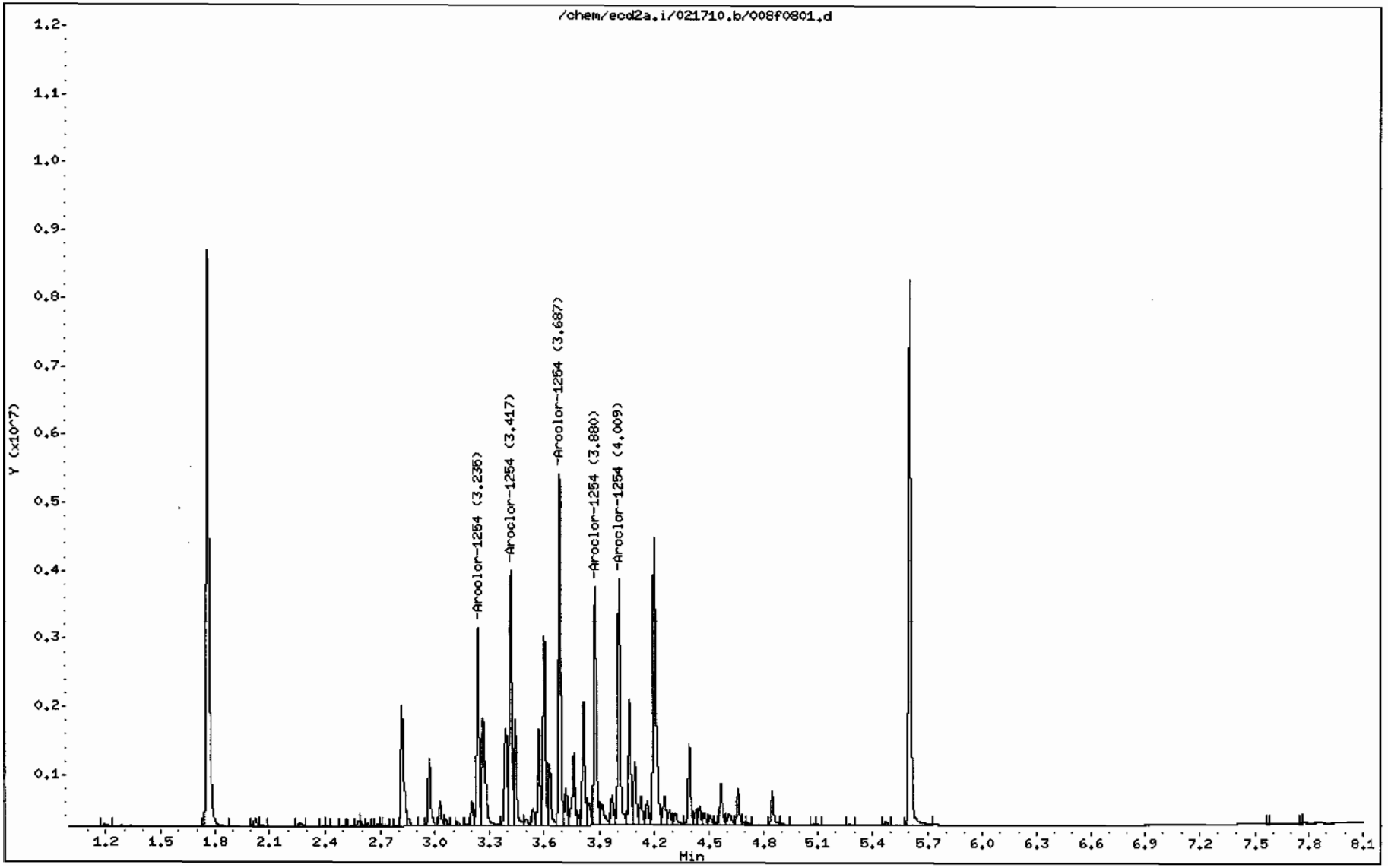
Average of Peak Amounts = 1.03e+03

Data File: /chem/ecd2a.i/021710.b/008f0801.d
Date : 17-FEB-2010 09:13
Client ID: AR125401
Sample Info: IWAR100217-54

Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/008b0801.d
Lab Smp Id: WAR100217-54 Client Smp ID: AR125401
Inj Date : 17-FEB-2010 09:13
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100217-54
Misc Info : |PCB_CVS|1254||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 17-Feb-2010 10:53 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254					CAS #: 11097-69-1		
3.811	3.811	0.000	6294702	1000.00	1060	80.00- 120.00	100.00
3.953	3.953	0.000	7194947	1000.00	1080	94.30- 134.30	114.30
4.270	4.270	0.000	9734381	1000.00	1100	134.64- 174.64	154.64
4.434	4.434	0.000	6963207	1000.00	1100	90.62- 130.62	110.62
4.560	4.560	0.000	4446010	1000.00	1070	50.63- 90.63	70.63

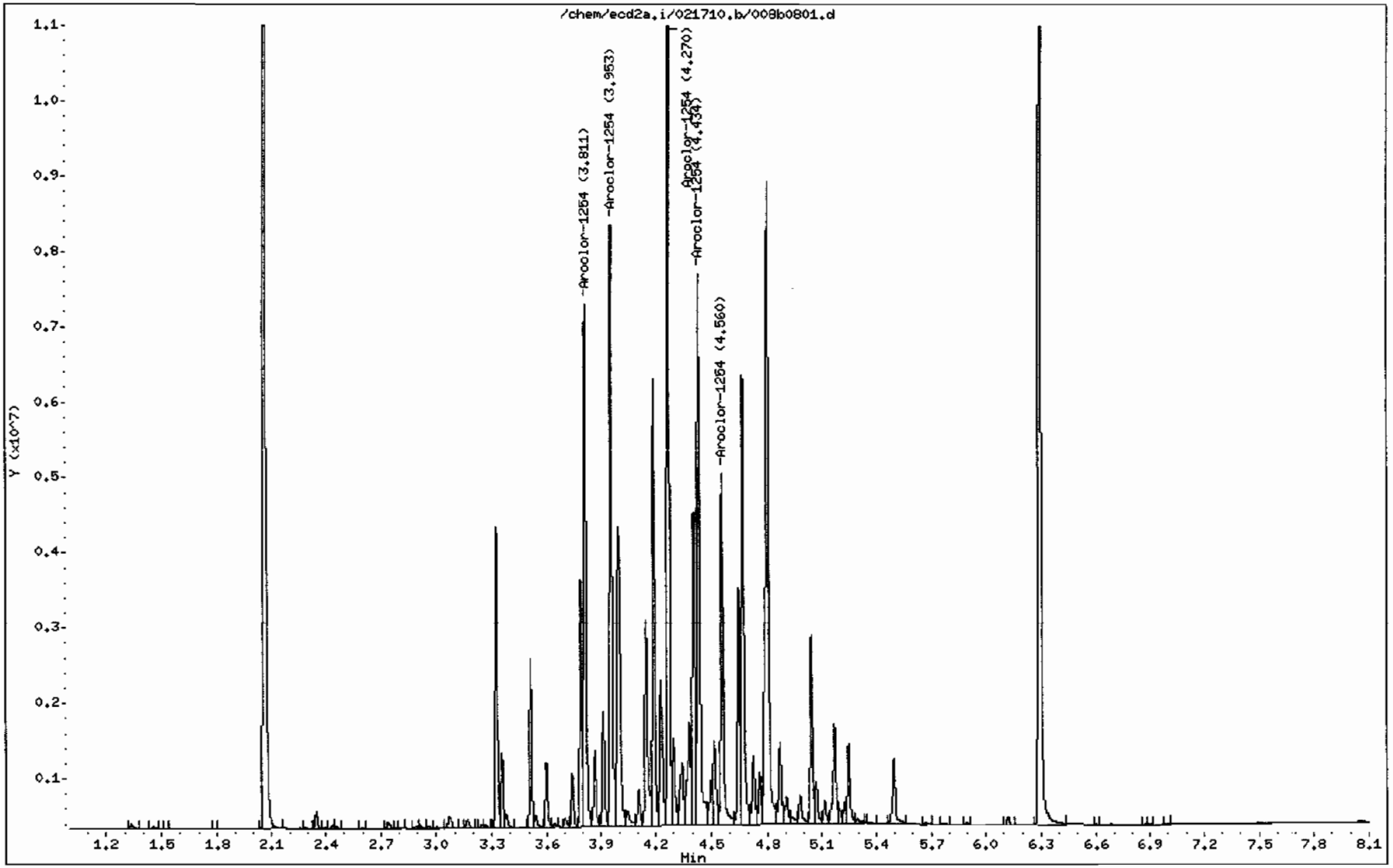
Average of Peak Amounts = 1.08e+03

Data File: /chem/ecd2a.i/021710.b/008b0801.d
Date : 17-FEB-2010 09:13
Client ID: AR125401
Sample Info: IWAR100217-54

Column phase: CLP2

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/009f0901.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 17-FEB-2010 09:24
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100104-21
Misc Info : |PCB_CVS|1221||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 10:54 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
2 Aroclor-1221					CAS #: 11104-28-2		
1.422	1.422	0.000	606235	1000.00	1310	80.00- 120.00	100.00
1.887	1.887	0.000	871647	1000.00	1330	123.78- 163.78	143.78
1.987	1.987	0.000	483763	1000.00	1400	59.80- 99.80	79.80

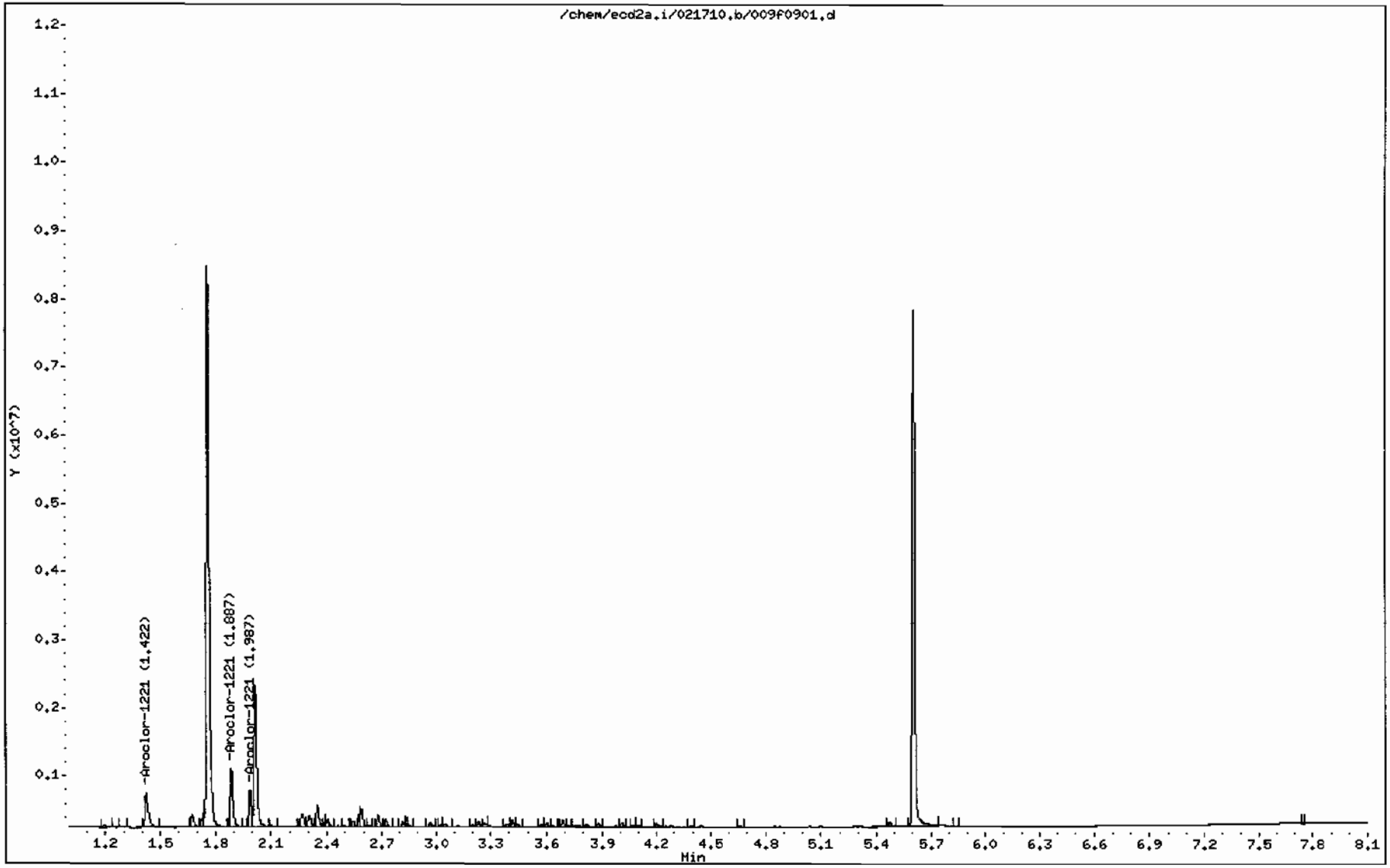
Average of Peak Amounts = 1.34e+03

Data File: /chem/ecd2a.i/021710.b/009f0901.d
Date : 17-FEB-2010 09:24
Client ID: AR122101
Sample Info: IWAR100104-21

Column phase: CLP1

Instrument: ecd2a.i

Operator: JADC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/009b0901.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 17-FEB-2010 09:24
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100104-21
Misc Info : |PCB_CVS|1221||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 17-Feb-2010 10:53 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
2 Aroclor-1221					CAS #: 11104-28-2		
2.283	2.283	0.000	1756674	1000.00	1390	80.00- 120.00	100.00
2.389	2.389	0.000	1055258	1000.00	1360	40.07- 80.07	60.07
2.433	2.433	0.000	4176167	1000.00	1370	217.73- 257.73	237.73

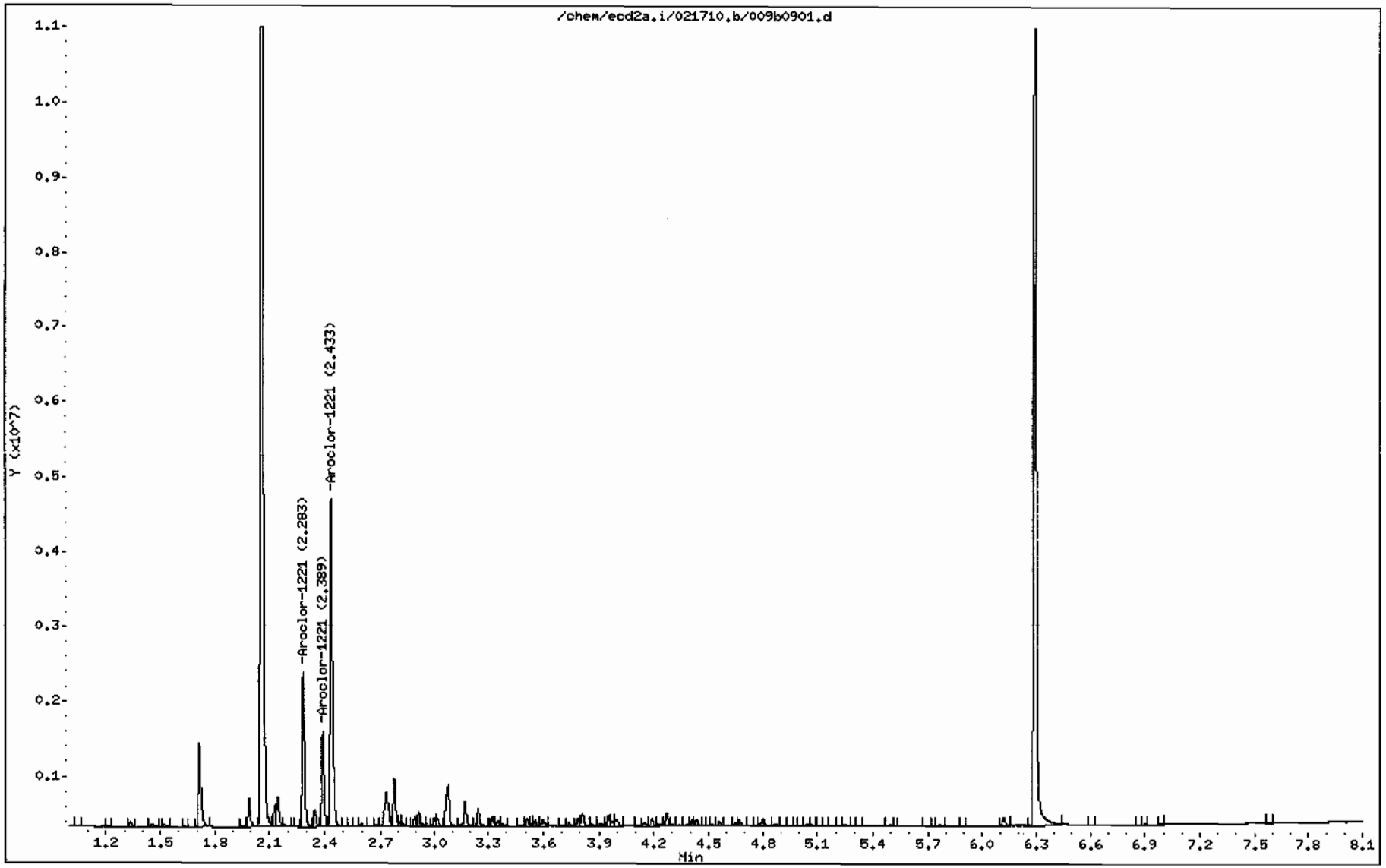
Average of Peak Amounts = 1.37e+03

Data File: /chem/ecd2a.i/021710.b/009b0901.d
Date : 17-FEB-2010 09:24
Client ID: AR122101
Sample Info: IWAR100104-21

Column phase: CLP2

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

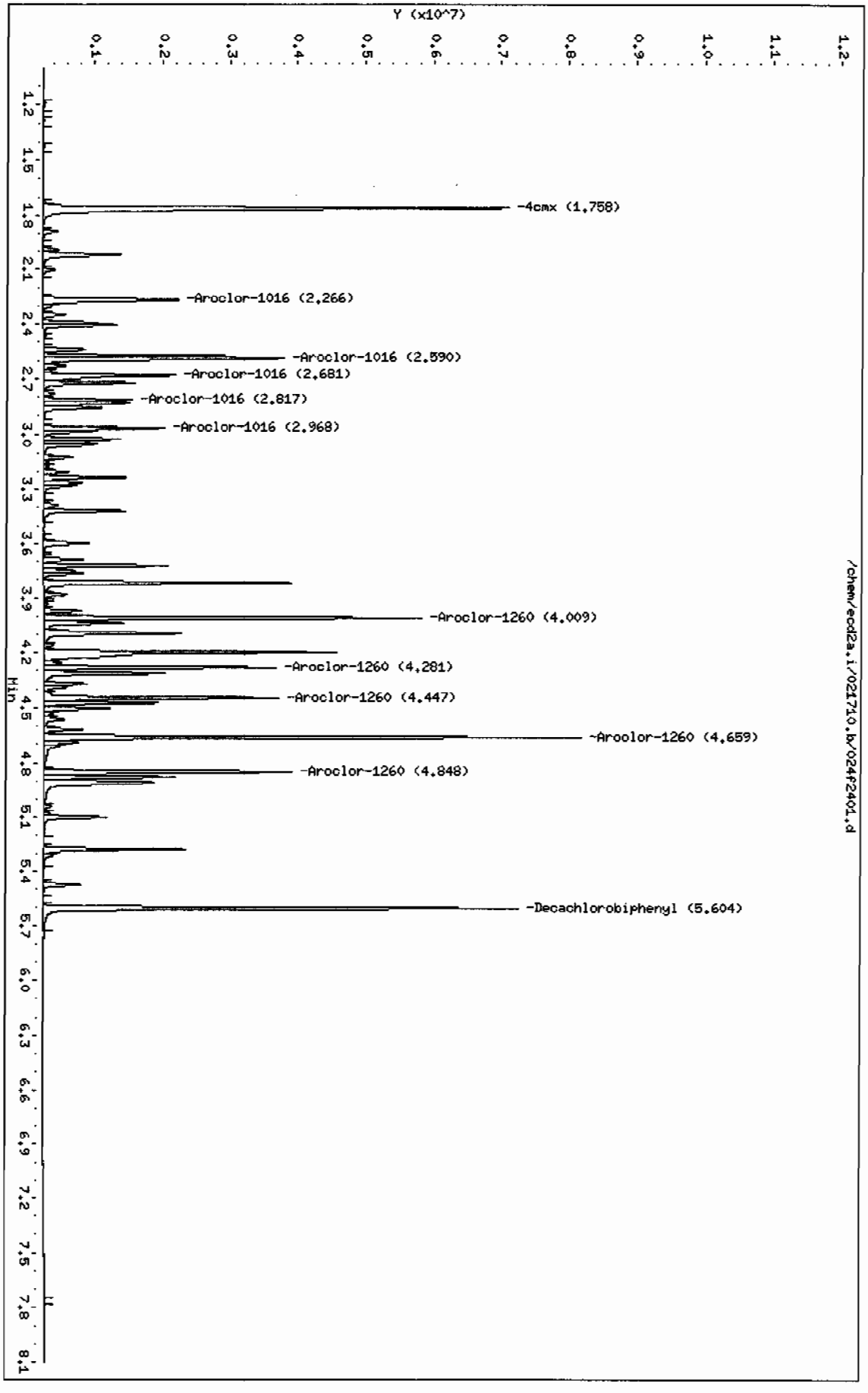
Data file : /chem/ecd2a.i/021710.b/024f2401.d
Lab Smp Id: WAR100217-60 02 Client Smp ID: AR166002
Inj Date : 17-FEB-2010 12:11
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100217-60 02
Misc Info : |PCB_CVS|1660||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclp1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.758	1.759	-0.001	7819263	100.000	104	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.604	5.604	0.000	6572796	100.000	104	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.266	2.265	0.001	2487553	1000.00	982	80.00- 120.00	100.00
2.590	2.590	0.000	3505154	1000.00	1010	120.91- 160.91	140.91
2.681	2.681	0.000	2109519	1000.00	977	64.80- 104.80	84.80
2.817	2.816	0.001	1067420	1000.00	971	22.91- 62.91	42.91
2.968	2.968	0.000	1593345	1000.00	997	44.05- 84.05	64.05
Average of Peak Amounts =					987		
7 Aroclor-1260					CAS #: 11096-82-5		
4.009	4.010	-0.001	4780993	1000.00	1040	80.00- 120.00	100.00
4.281	4.282	-0.001	2970914	1000.00	1040	42.14- 82.14	62.14
4.447	4.447	0.000	3117409	1000.00	1080	45.20- 85.20	65.20
4.659	4.660	-0.001	7091404	1000.00	1050	128.32- 168.32	148.32
4.848	4.849	-0.001	3392010	1000.00	1060	50.95- 90.95	70.95
Average of Peak Amounts =					1.05e+03		

Data File: /chem/ecd2a.i/021710.b/024f2401.d
Date : 17-FEB-2010 12:11
Client ID: AR166002
Sample Info: IWAR100217-60 02

Column phase: CLP1

Instrument: ecd2a.i
Operator: JAGC
Column diameter: 0.25



Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/024b2401.d
Lab Smp Id: WAR100217-60 02 Client Smp ID: AR166002
Inj Date : 17-FEB-2010 12:11
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR100217-60 02
Misc Info : |PCB_CVS|1660||CVS|
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclp1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.059	2.058	0.001	17256438	100.000	106	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.295	6.296	-0.001	13047738	100.000	103	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.738	2.737	0.001	5365799	1000.00	1020	80.00- 120.00	100.00
3.173	3.173	0.000	4184924	1000.00	1040	57.99- 97.99	77.99
3.324	3.324	0.000	2409354	1000.00	1040	24.90- 64.90	44.90
3.353	3.353	0.000	2517150	1000.00	1040	26.91- 66.91	46.91
3.511	3.512	-0.001	3374086	1000.00	1050	42.88- 82.88	62.88
Average of Peak Amounts =				1.04e+03			
7 Aroclor-1260					CAS #: 11096-82-5		
4.408	4.408	0.000	6654909	1000.00	1060	80.00- 120.00	100.00
4.560	4.560	0.000	8304154	1000.00	1060	104.78- 144.78	124.78
4.671	4.672	-0.001	5712451	1000.00	1050	65.84- 105.84	85.84
4.870	4.868	0.002	6353886	1000.00	1050	75.48- 115.48	95.48
5.495	5.495	0.000	10244754	1000.00	1060	133.94- 173.94	153.94
Average of Peak Amounts =				1.06e+03			

Data File: /chem/ecd2a.i/021710.b/024b2401.d

Date : 17-FEB-2010 12:11

Client ID: AR166002

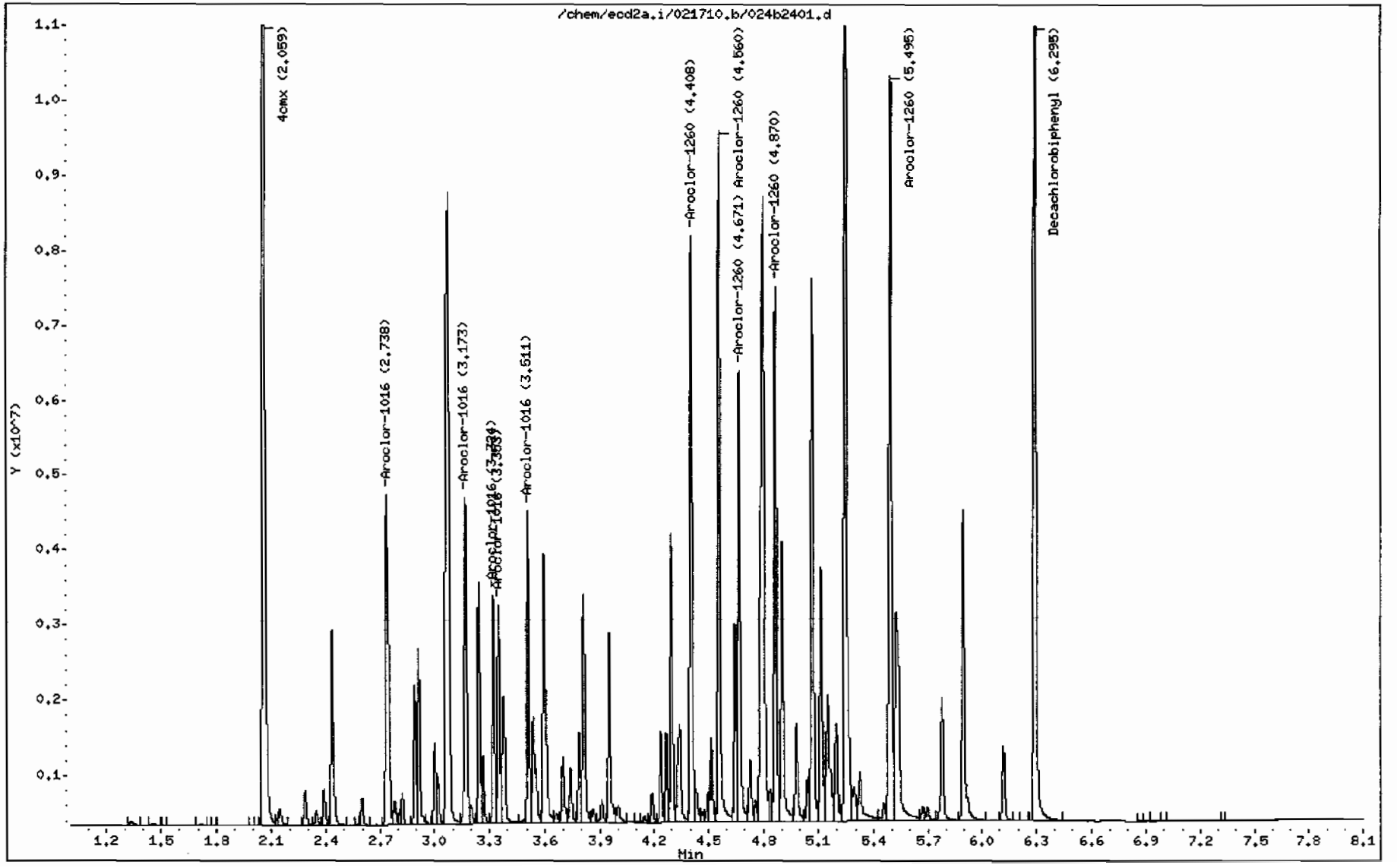
Sample Info: IWAR100217-60 02

Column phase: CLP2

Instrument: ecd2a.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.: 10-1703

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/15/10 02/15/10

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 1.76 DCB: 5.60

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/15/10	0839	1.76	5.60
02	ZZZZZ	ZZZZZ	02/15/10	0850	1.76	5.60
03	ZZZZZ	ZZZZZ	02/15/10	0901		
04	AR124201	WAR091217-42	02/15/10	0912		
05	AR124801	WAR091217-48	02/15/10	0923		
06	AR123201	WAR100104-32	02/15/10	0934		
07	AR122101	WAR100104-21	02/15/10	0945		
08	AR126201	WAR100104-62	02/15/10	0956		
09	AR126801	WAR091106-68	02/15/10	1008		
10	AR166001	WAR100215-01	02/15/10	1019	1.76	5.60
11	AR166002	WAR100215-02	02/15/10	1030	1.76	5.60
12	AR166003	WAR100215-03	02/15/10	1041	1.76	5.60
13	AR166004	WAR100215-04	02/15/10	1052	1.76	5.60
14	AR166005	IAR100104-01	02/15/10	1103	1.76	5.60
15	AR166001	WAR100203-60	02/15/10	1114	1.76	5.60
16	AR125401	WAR100215-05	02/15/10	1125		
17	AR125402	WAR100215-06	02/15/10	1136		
18	AR125403	WAR100215-07	02/15/10	1147		
19	AR125404	WAR100215-08	02/15/10	1158		
20	AR125405	IAR091027-01	02/15/10	1210		
21	AR125401	WAR091102-54	02/15/10	1221		
22	DDTANALOGSTD	WAR091219-DD	02/15/10	1232		
23	PIBLK02	WAR100105-99	02/15/10	1243	1.76	5.60
24	ZZZZZ	ZZZZZ	02/15/10	1254		
25	ZZZZZ	ZZZZZ	02/15/10	1310	1.76	5.60
26	ZZZZZ	ZZZZZ	02/15/10	1321	1.76	5.60
27	ZZZZZ	ZZZZZ	02/15/10	1332	1.76	5.60
28	ZZZZZ	ZZZZZ	02/15/10	1343	1.76	5.60
29	ZZZZZ	ZZZZZ	02/15/10	1359	1.76	5.60
30	AR166002	WAR100203-60	02/15/10	1414	1.76	5.60
31	PIBLK03	WAR100105-99	02/15/10	1426	1.76	5.60
32	ZZZZZ	ZZZZZ	02/15/10	1437	1.76	5.60

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.

FORM VIII PEST OLM03.0

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.: 10-1703

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/15/10 02/15/10

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.06 DCB: 6.29

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/15/10	0839	2.06	6.29
02	ZZZZZ	ZZZZZ	02/15/10	0850	2.06	6.29
03	ZZZZZ	ZZZZZ	02/15/10	0901		
04	AR124201	WAR091217-42	02/15/10	0912		
05	AR124801	WAR091217-48	02/15/10	0923		
06	AR123201	WAR100104-32	02/15/10	0934		
07	AR122101	WAR100104-21	02/15/10	0945		
08	AR126201	WAR100104-62	02/15/10	0956		
09	AR126801	WAR091106-68	02/15/10	1008		
10	AR166001	WAR100215-01	02/15/10	1019	2.06	6.29
11	AR166002	WAR100215-02	02/15/10	1030	2.06	6.29
12	AR166003	WAR100215-03	02/15/10	1041	2.06	6.29
13	AR166004	WAR100215-04	02/15/10	1052	2.06	6.30
14	AR166005	IAR100104-01	02/15/10	1103	2.06	6.30
15	AR166001	WAR100203-60	02/15/10	1114	2.06	6.29
16	AR125401	WAR100215-05	02/15/10	1125		
17	AR125402	WAR100215-06	02/15/10	1136		
18	AR125403	WAR100215-07	02/15/10	1147		
19	AR125404	WAR100215-08	02/15/10	1158		
20	AR125405	IAR091027-01	02/15/10	1210		
21	AR125401	WAR091102-54	02/15/10	1221		
22	DDTANALOGSTD	WAR091219-DD	02/15/10	1232		
23	PIBLK02	WAR100105-99	02/15/10	1243	2.06	6.30
24	ZZZZZ	ZZZZZ	02/15/10	1254		
25	ZZZZZ	ZZZZZ	02/15/10	1310	2.06	6.29
26	ZZZZZ	ZZZZZ	02/15/10	1321	2.06	6.29
27	ZZZZZ	ZZZZZ	02/15/10	1332	2.06	6.29
28	ZZZZZ	ZZZZZ	02/15/10	1343	2.06	6.30
29	ZZZZZ	ZZZZZ	02/15/10	1359	2.06	6.29
30	AR166002	WAR100203-60	02/15/10	1414	2.06	6.29
31	PIBLK03	WAR100105-99	02/15/10	1426	2.06	6.30
32	ZZZZZ	ZZZZZ	02/15/10	1437	2.06	6.30

	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.

FORM VIII PEST OLM03.0

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.: 10-1703

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/15/10 02/15/10

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 1.76 DCB: 5.60

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/17/10	0756	1.76	5.60
02	AR166001	WAR100203-60	02/17/10	0807	1.76	5.60
03	AR125401	WAR091102-54	02/17/10	0818		
04	AR124201	WAR091217-42	02/17/10	0829		
05	AR124801	WAR091217-48	02/17/10	0840		
06	AR123201	WAR100104-32	02/17/10	0851		
07	AR166001	WAR100217-60	02/17/10	0902	1.76	5.60
08	AR125401	WAR100217-54	02/17/10	0913		
09	AR122101	WAR100104-21	02/17/10	0924		
10	AR126201	WAR100104-62	02/17/10	0935		
11	AR126801	WAR091106-68	02/17/10	0946		
12	DDTANALOGSTD	WAR091219-DD	02/17/10	0958		
13	PIBLK02	WAR100105-99	02/17/10	1009	1.76	5.60
14	PBLK01	1202044729	02/17/10	1020	1.76	5.60
15	PBLK01LCS	1202044730	02/17/10	1031	1.76	5.60
16	RE15-10-8185	246677001	02/17/10	1042	1.76	5.60
17	RE15-10-8183	246677002	02/17/10	1053	1.76	5.60
18	RE15-10-8179	246677003	02/17/10	1104	1.76	5.60
19	RE15-10-8184	246677004	02/17/10	1115	1.76	5.60
20	RE15-10-8180	246677005	02/17/10	1126	1.76	5.60
21	RE15-10-8181	246677006	02/17/10	1138	1.76	5.60
22	RE15-10-8182	246677007	02/17/10	1149	1.76	5.60
23	RE15-10-8210	246677008	02/17/10	1200	1.76	5.60
24	AR166002	WAR100217-60	02/17/10	1211	1.76	5.60
25	PIBLK03	WAR100105-99	02/17/10	1222	1.76	5.60
26	ZZZZZ	ZZZZZ	02/17/10	1233	1.76	5.60
27	ZZZZZ	ZZZZZ	02/17/10	1244	1.76	5.60
28	ZZZZZ	ZZZZZ	02/17/10	1255	1.76	5.60
29	ZZZZZ	ZZZZZ	02/17/10	1306	1.76	5.60
30	ZZZZZ	ZZZZZ	02/17/10	1317	1.76	5.60
31	ZZZZZ	ZZZZZ	02/17/10	1329	1.76	5.60
32	ZZZZZ	ZZZZZ	02/17/10	1340	1.76	5.60

	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.

FORM VIII PEST OLM03.0

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.: 10-1703

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/15/10 02/15/10

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.06 DCB: 6.30

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/17/10	0756	2.06	6.30
02	AR166001	WAR100203-60	02/17/10	0807	2.06	6.30
03	AR125401	WAR091102-54	02/17/10	0818		
04	AR124201	WAR091217-42	02/17/10	0829		
05	AR124801	WAR091217-48	02/17/10	0840		
06	AR123201	WAR100104-32	02/17/10	0851		
07	AR166001	WAR100217-60	02/17/10	0902	2.06	6.30
08	AR125401	WAR100217-54	02/17/10	0913		
09	AR122101	WAR100104-21	02/17/10	0924		
10	AR126201	WAR100104-62	02/17/10	0935		
11	AR126801	WAR091106-68	02/17/10	0946		
12	DDTANALOGSTD	WAR091219-DD	02/17/10	0958		
13	PIBLK02	WAR100105-99	02/17/10	1009	2.06	6.30
14	PBLK01	1202044729	02/17/10	1020	2.06	6.30
15	PBLK01LCS	1202044730	02/17/10	1031	2.06	6.30
16	RE15-10-8185	246677001	02/17/10	1042	2.06	6.29
17	RE15-10-8183	246677002	02/17/10	1053	2.06	6.30
18	RE15-10-8179	246677003	02/17/10	1104	2.06	6.29
19	RE15-10-8184	246677004	02/17/10	1115	2.06	6.30
20	RE15-10-8180	246677005	02/17/10	1126	2.06	6.30
21	RE15-10-8181	246677006	02/17/10	1138	2.06	6.30
22	RE15-10-8182	246677007	02/17/10	1149	2.06	6.30
23	RE15-10-8210	246677008	02/17/10	1200	2.06	6.29
24	AR166002	WAR100217-60	02/17/10	1211	2.06	6.29
25	PIBLK03	WAR100105-99	02/17/10	1222	2.06	6.29
26	ZZZZZ	ZZZZZ	02/17/10	1233	2.06	6.30
27	ZZZZZ	ZZZZZ	02/17/10	1244	2.06	6.30
28	ZZZZZ	ZZZZZ	02/17/10	1255	2.06	6.30
29	ZZZZZ	ZZZZZ	02/17/10	1306	2.06	6.30
30	ZZZZZ	ZZZZZ	02/17/10	1317	2.06	6.30
31	ZZZZZ	ZZZZZ	02/17/10	1329	2.06	6.30
32	ZZZZZ	ZZZZZ	02/17/10	1340	2.06	6.29

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.

FORM VIII PEST OLM03.0

Identification Summary

SDG Number: 10–1703 **Client ID:** LCS for batch 953774

Lab Sample ID: 1202044730

Data File:	015f1501.d	**Data File:**	015b1501.d
Inst:	ECD2A.I_1	**Inst:**	ECD2A.I_2
Column:	CLP1	**Column:**	CLP2
Analyzed:	17–FEB–10 10:31	**Analyzed:**	17–FEB–10 10:31

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor–1016							1.04
Column 1	1	2.27	2.23 – 2.29	17.9		ug/kg	
	2	2.59	2.56 – 2.62	19.1		ug/kg	
	3	2.68	2.65 – 2.71	17.8		ug/kg	
	4	2.82	2.79 – 2.85	18.2		ug/kg	
	5	2.97	2.94 – 3	18.5		ug/kg	
					18.3		
Column 2	1	2.74	2.71 – 2.77	17.9		ug/kg	
	2	3.17	3.14 – 3.2	18.2		ug/kg	
	3	3.33	3.29 – 3.35	19		ug/kg	
	4	3.35	3.32 – 3.38	18.7		ug/kg	
	5	3.51	3.48 – 3.54	18.7		ug/kg	
					18.5		
Aroclor–1260							2.41
Column 1	1	4.01	3.98 – 4.04	22.9		ug/kg	
	2	4.28	4.25 – 4.31	23.5		ug/kg	
	3	4.45	4.42 – 4.48	23.7		ug/kg	
	4	4.66	4.63 – 4.69	24.2		ug/kg	
	5	4.85	4.82 – 4.88	23.7		ug/kg	
					23.6		
Column 2	1	4.41	4.38 – 4.44	22.4		ug/kg	
	2	4.56	4.53 – 4.59	23.6		ug/kg	
	3	4.67	4.64 – 4.7	22.4		ug/kg	
	4	4.87	4.84 – 4.9	23.6		ug/kg	
	5	5.5	5.47 – 5.53	23.3		ug/kg	
					23		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10–1703			**Matrix:**	SOIL
Lab Sample ID:	1202044729				
Client Sample:	QC for batch 953774	**Client:**	LANL010	**Project:**	QC
Client ID:	MB for batch 953774	**Method:**	SW846 8082	**SOP Ref:**	GL–OA–E–040
Batch ID:	953776	**Inst:**	ECD2A.I	**Dilution:**	1
Run Date:	02/17/2010 10:20	**Analyst:**	JAOC	**Inj. Vol:**	1 uL
Prep Date:	02/16/2010 20:17	**Aliquot:**	30 g	**Final Volume:**	1 mL
Data File:	014f1401–1.d	**Column:**	1 CLP1	**Level:**	LOW
	014b1401–1.d		2 CLP2		

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

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/014f1401.d
Lab Smp Id: 1202044729 Client Smp ID: PBLK01
Inj Date : 17-FEB-2010 10:20
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202044729|1|
Misc Info : |ECD82P_1S|953776|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 12:32 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

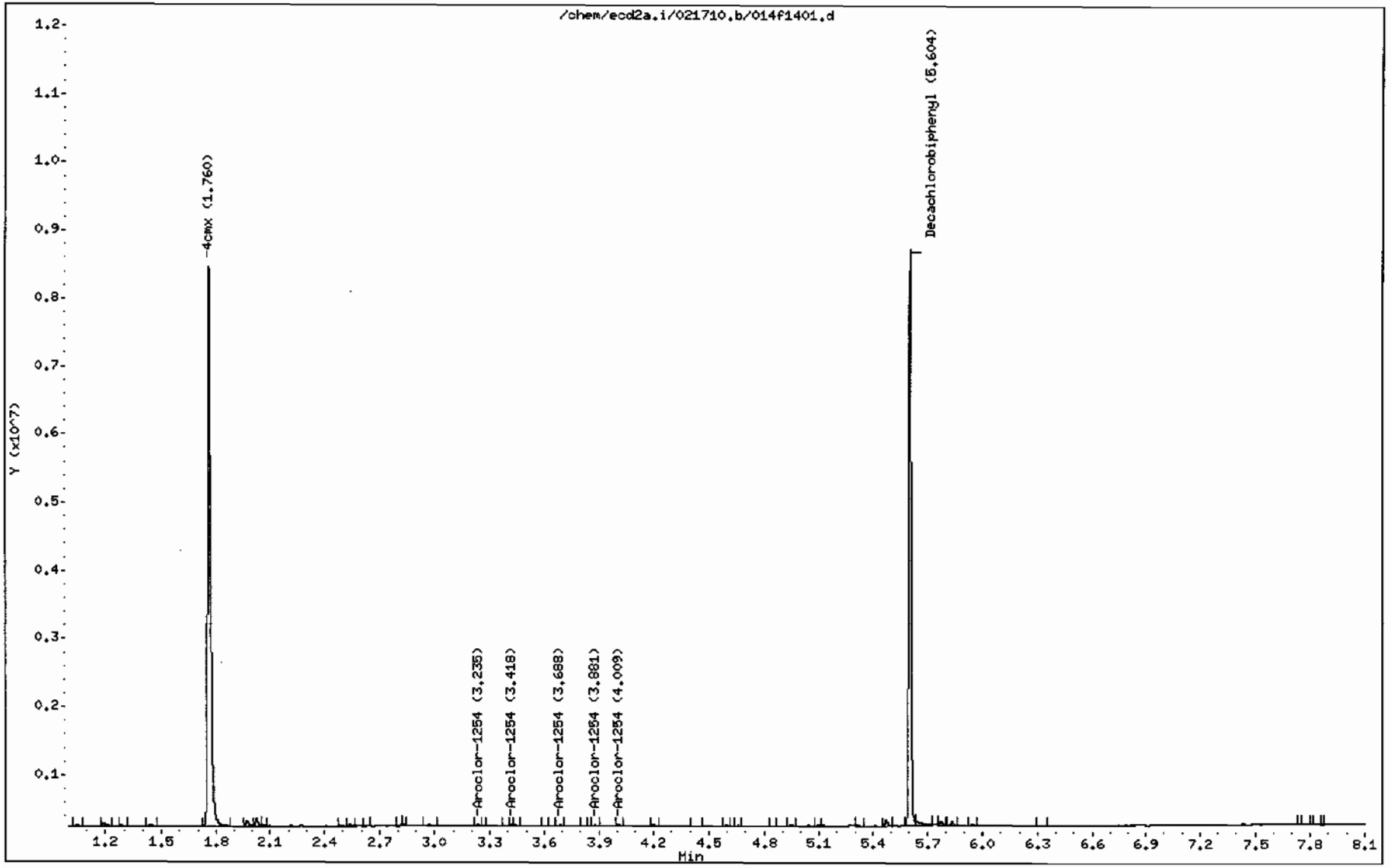
Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.760	1.759	0.001	9525342	127.318	4.2	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.604	5.604	0.000	7847903	124.329	4.1	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/014f1401.d
Date : 17-FEB-2010 10:20
Client ID: PBLK01
Sample Info: |1202044729|1|
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/014b1401.d
Lab Smp Id: 1202044729 Client Smp ID: PBLK01
Inj Date : 17-FEB-2010 10:20
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202044729|1|
Misc Info : |ECD82P_1S|953776|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 17-Feb-2010 12:31 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.060	2.058	0.002	21170113	130.140	4.3	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.296	6.296	0.000	17722705	139.700	4.6	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/021710.b/014b1401.d

Date : 17-FEB-2010 10:20

Client ID: PBLK01

Sample Info: |120204472911|

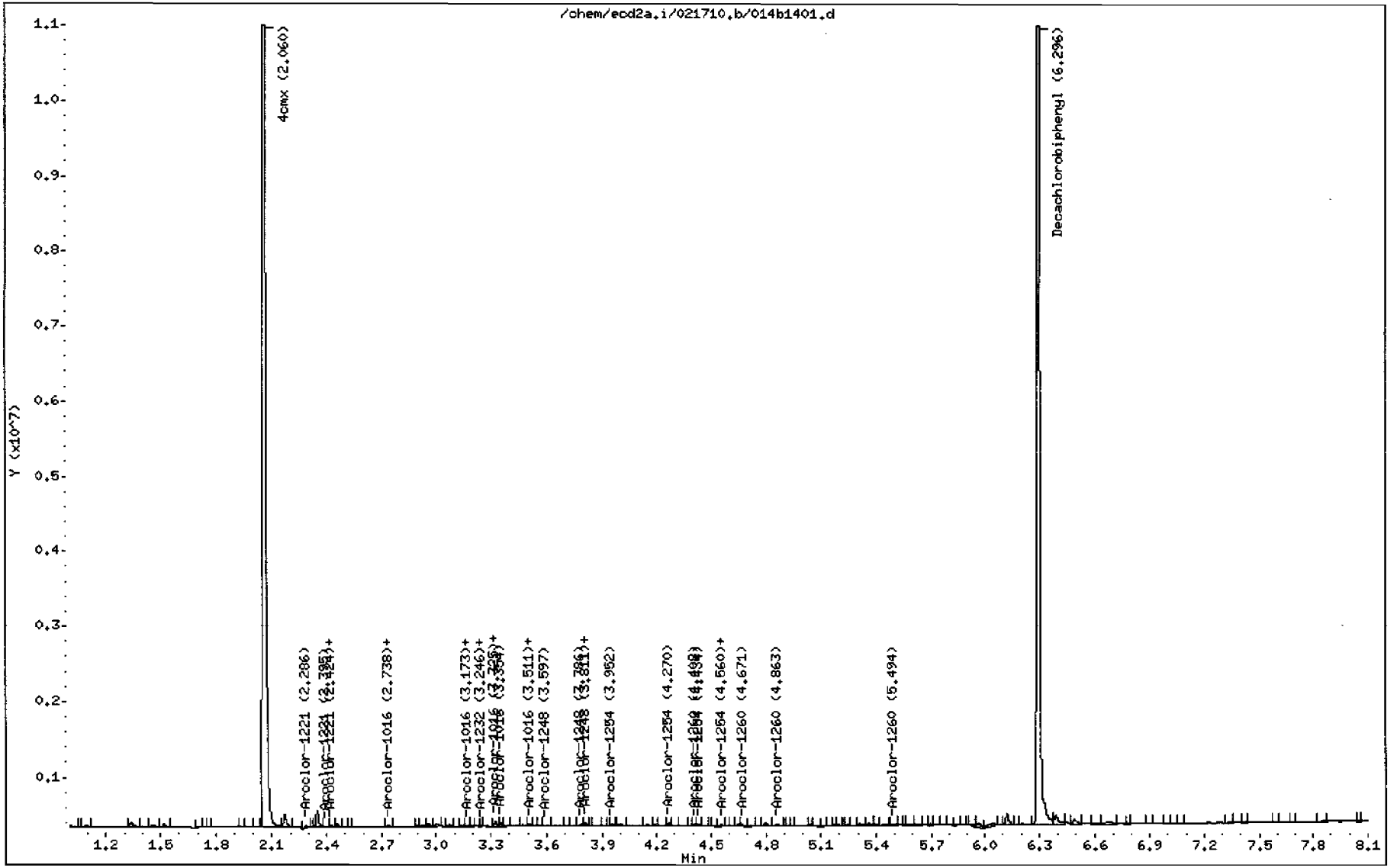
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: ecd2a.i

Operator: JAOC

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	**10–1703**			**Matrix:**	**SOIL**
Lab Sample ID:	**1202044730**				
Client Sample:	**QC for batch 953774**	**Client:**	**LANL010**	**Project:**	**QC**
Client ID:	**LCS for batch 953774**	**Method:**	**SW846 8082**	**SOP Ref:**	**GL–OA–E–040**
Batch ID:	**953776**	**Inst:**	**ECD2A.I**	**Dilution:**	**1**
Run Date:	**02/17/2010 10:31**	**Analyst:**	**JAOC**	**Inj. Vol:**	**1 uL**
Prep Date:	**02/16/2010 20:17**	**Aliquot:**	**30 g**	**Final Volume:**	**1 mL**
Data File:	**015f1501–1.d**	**Column:**	**1 CLP1**	**Level:**	**LOW**
	015b1501–1.d		**2 CLP2**		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674–11–2	Aroclor–1016		18.5	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		23.6	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/015f1501.d
Lab Smp Id: 1202044730 Client Smp ID: PBLK01LCS
Inj Date : 17-FEB-2010 10:31
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202044730|1|
Misc Info : |ECD82P_1S|953776|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 12:32 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.760	1.759	0.001	9183321	122.746	4.1	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.603	5.604	-0.001	8069068	127.833	4.3	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.267	2.265	0.002	1357653	535.925	17.9	80.00- 120.00	100.00
2.591	2.590	0.001	1986049	572.162	19.1	120.91- 160.91	146.29
2.682	2.681	0.001	1153215	534.337	17.8	64.80- 104.80	84.94
2.817	2.816	0.001	600538	546.158	18.2	22.91- 62.91	44.23
2.968	2.968	0.000	887705	555.479	18.5	44.05- 84.05	65.39

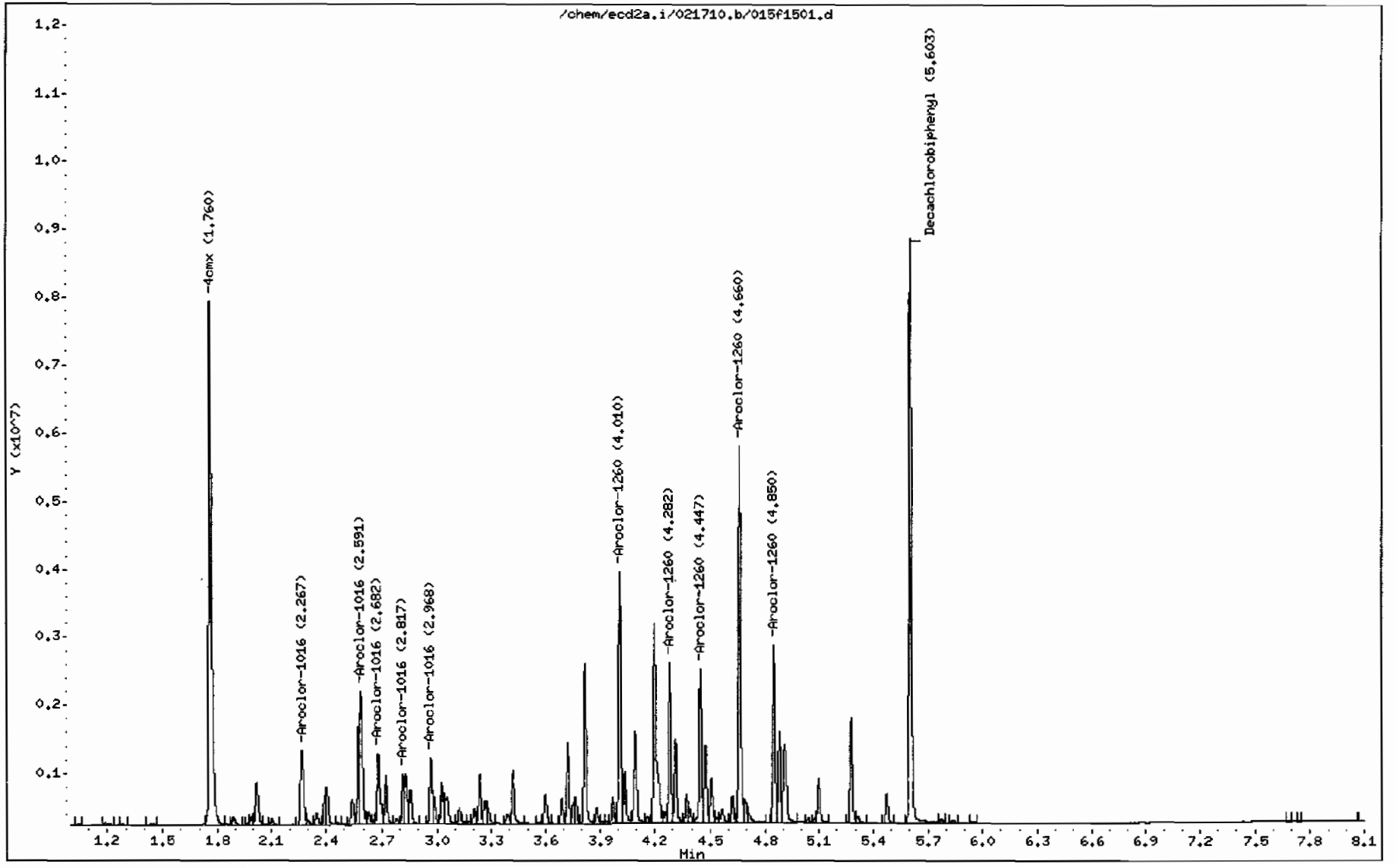
Average of Peak Concentrations = 18.3

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.010	4.010	0.000	3170909	687.902	22.9	80.00- 120.00	100.00
4.282	4.282	0.000	2013178	704.409	23.5	42.14- 82.14	63.49
4.447	4.447	0.000	2051650	712.072	23.7	45.20- 85.20	64.70
4.660	4.660	0.000	4885537	725.802	24.2	128.32- 168.32	154.07
4.850	4.849	0.001	2276386	710.969	23.7	50.95- 90.95	71.79
			Average of Peak Concentrations =		23.6		

Data File: /chem/ecd2a.i/021710.b/015f1501.d
Date : 17-FEB-2010 10:31
Client ID: PBLK01LCS
Sample Info: 1120204473011
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd2a.i

Operator: JADC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/015b1501.d
Lab Smp Id: 1202044730 Client Smp ID: PBLK01LCS
Inj Date : 17-FEB-2010 10:31
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202044730|1|
Misc Info : |ECD82P_1S|953776|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 17-Feb-2010 12:31 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1703.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	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

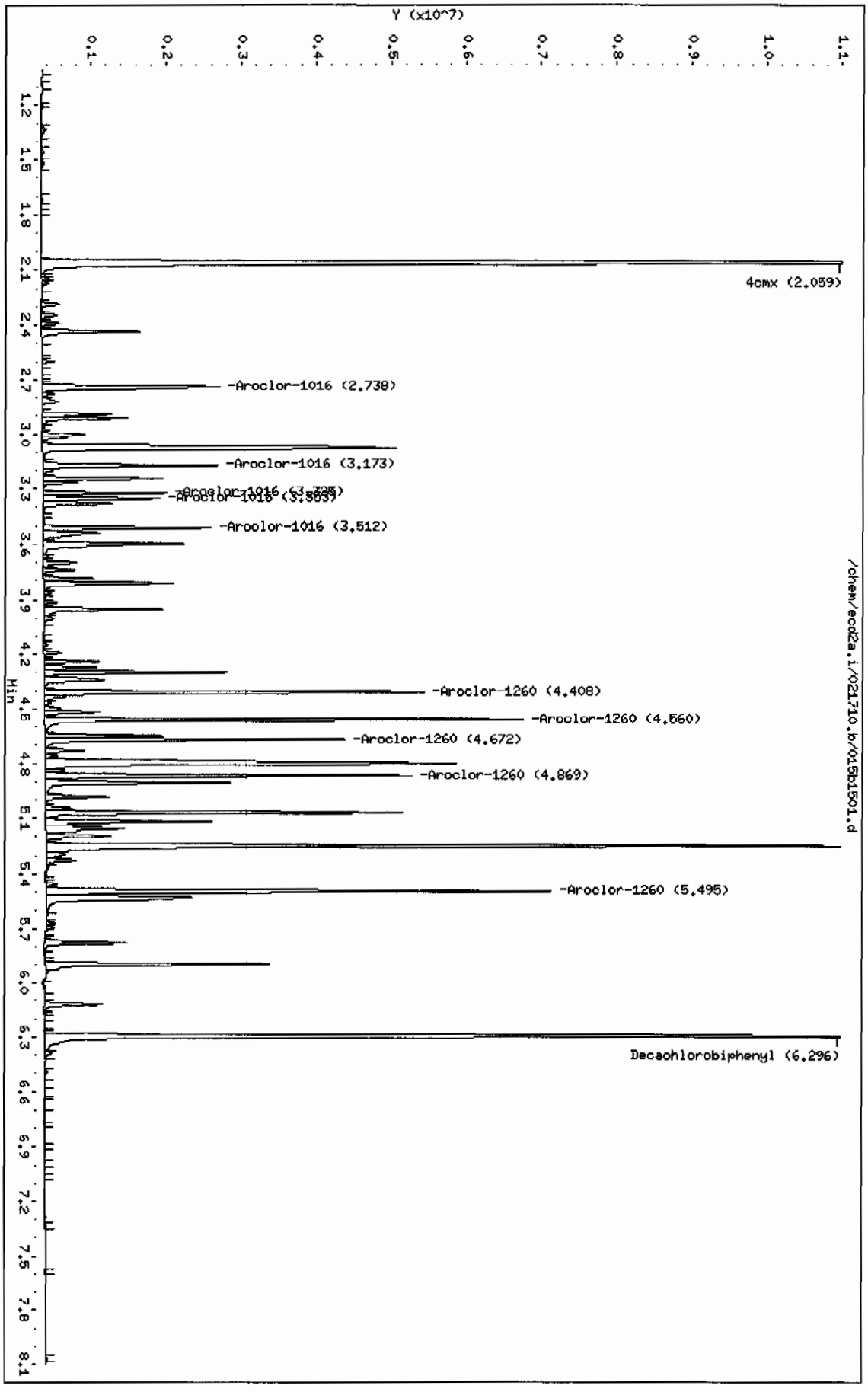
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.059	2.058	0.001	20430927	125.596	4.2	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.296	6.296	0.000	17086058	134.682	4.5	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.738	2.737	0.001	2822502	537.122	17.9	80.00- 120.00	100.00
3.173	3.173	0.000	2191430	546.333	18.2	57.99- 97.99	77.64
3.325	3.324	0.001	1321571	568.996	19.0	24.90- 64.90	46.82
3.353	3.353	0.000	1354648	560.721	18.7	26.91- 66.91	47.99
3.512	3.512	0.000	1792946	559.601	18.6	42.88- 82.88	63.52

Average of Peak Concentrations = 18.5

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.408	4.408	0.000	4237808	672.726	22.4	80.00- 120.00	100.00
4.560	4.560	0.000	5523977	708.930	23.6	104.78- 144.78	130.35
4.672	4.672	0.000	3638023	670.745	22.4	65.84- 105.84	85.85
4.869	4.868	0.001	4259512	706.941	23.6	75.48- 115.48	100.51
5.495	5.495	0.000	6752349	697.618	23.2	133.94- 173.94	159.34
			Average of Peak Concentrations =		23.0		

Data File: /chem/ecd2a.i/021710.b/015b1501.d
Date : 17-FEB-2010 10:31
Client ID: PBLK01LCS
Sample Info: 1120204473011
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



Page 1

MISCELLANEOUS DATA

GEL ORGANIC RUN LOG INSTRUMENT ID: ECD2

DATE: 02/16/2010 METHOD: ECD2-F-8082-111209A.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:021510a Injection Volume: 1.0 uL

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100105-99 IB	JAOC	15-FEB-2010 08:39		021510a	1.0		CLEAN
002f0201.d	WAR100203-60 01	JAOC	15-FEB-2010 08:50		021510a	1.0		DUSE
003f0301.d	WAR091102-54	JAOC	15-FEB-2010 09:01		021510a	1.0		DUSE
004f0401.d	WAR091217-42	JAOC	15-FEB-2010 09:12		021510a	1.0		PASSES BOTH COLUMNS
005f0501.d	WAR091217-48	JAOC	15-FEB-2010 09:23		021510a	1.0		PASSES BOTH COLUMNS
006f0601.d	WAR100104-32	JAOC	15-FEB-2010 09:34		021510a	1.0		PATTERN ONLY
007f0701.d	WAR100104-21	JAOC	15-FEB-2010 09:45		021510a	1.0		PATTERN ONLY
008f0801.d	WAR100104-62	JAOC	15-FEB-2010 09:56		021510a	1.0		PASSES BOTH COLUMNS
009f0901.d	WAR091106-68	JAOC	15-FEB-2010 10:08		021510a	1.0		PASSES BOTH COLUMNS
010f1001.d	WAR100215-01 60	JAOC	15-FEB-2010 10:19		021510a	1.0		1660 LEVEL 1
011f1101.d	WAR100215-02 60	JAOC	15-FEB-2010 10:30		021510a	1.0		1660 LEVEL 2
012f1201.d	WAR100215-03 60	JAOC	15-FEB-2010 10:41		021510a	1.0		1660 LEVEL 3
013f1301.d	WAR100215-04 60	JAOC	15-FEB-2010 10:52		021510a	1.0		1660 LEVEL 4
014f1401.d	WAR100104-01 60	JAOC	15-FEB-2010 11:03		021510a	1.0		1660 LEVEL 5
015f1501.d	WAR100203-60 01	JAOC	15-FEB-2010 11:14		021510a	1.0		PASSES BOTH COLUMNS

Instrument Batch: /chem/ecd2a.i/021510a.b Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	WAR100215-05 54	JAOC	15-FEB-2010 11:25		021510a	1.0		1254 LEVEL 1

017f1701.d	WAR100215-06 54	JAOC	15-FEB-2010 11:36		021510a		1.0		1254 LEVEL 2
018f1801.d	WAR100215-07 54	JAOC	15-FEB-2010 11:47		021510a		1.0		1254 LEVEL 3
019f1901.d	WAR100215-08 54	JAOC	15-FEB-2010 11:58		021510a		1.0		1254 LEVEL 4
020f2001.d	IAR091027-01 54	JAOC	15-FEB-2010 12:10		021510a		1.0		1254 LEVEL 5
021f2101.d	WAR091102-54	JAOC	15-FEB-2010 12:21		021510a		1.0		PASSES BOTH COLUMNS
022f2201.d	WAR091219-DDT	JAOC	15-FEB-2010 12:32		021510a		1.0		DDT
023f2301.d	WAR100105-99 02	JAOC	15-FEB-2010 12:43		021510a		1.0		CLEAN
024f2401.d	246400018	JAOC	15-FEB-2010 12:54	950927	246379-2		50.0	BY12	UPLOAD BOTH, USE BACK
025f2501.d	1202041671	JAOC	15-FEB-2010 13:10	952581	246379-2		1.0	QC A	UPLOAD BOTH, USE FRONT
026f2601.d	1202041672	JAOC	15-FEB-2010 13:21	952581	246379-2		1.0	QC A	UPLOAD BOTH, USE FRONT
027f2701.d	1202041673	JAOC	15-FEB-2010 13:32	952581	246379-2		1.0	QC A	UPLOAD BOTH, USE FRONT
028f2801.d	246400015	JAOC	15-FEB-2010 13:43	952581	246379-2		1.0	BY12	UPLOAD BOTH, USE FRONT
029f2901.d	246400021	JAOC	15-FEB-2010 13:59	952581	246379-2		1.0	BY12	UPLOAD BOTH, USE FRONT
030f3001.d	WAR100203-60 02	JAOC	15-FEB-2010 14:14		021510a		1.0		PASSES BOTH COLUMNS
031f3101.d	WAR100105-99 03	JAOC	15-FEB-2010 14:26		021510a		1.0		CLEAN
032f3201.d	1202041996	JAOC	15-FEB-2010 14:37	952727	246657		1.0	QC A	UPLOAD BOTH, USE HIGHER
033f3301.d	1202041997	JAOC	15-FEB-2010 14:48	952727	246657		1.0	QC A	UPLOAD BOTH, USE HIGHER
034f3401.d	1202041998	JAOC	15-FEB-2010 14:59	952727	246657		1.0	QC A	UPLOAD BOTH, USE HIGHER
035f3501.d	246657008	JAOC	15-FEB-2010 15:10	952727	246657		1.0	SSFL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd2a.i/021510a.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	246669010	JAOC	15-FEB-2010 15:21	952727	246669	1.0	SSFL	UPLOAD BOTH, USE HIGHER
037f3701.d	WAR100203-60 03	JAOC	15-FEB-2010 15:32		021510a	1.0		PASSES BOTH COLUMNS

GEL ORGANIC RUN LOG INSTRUMENT ID: ECD2

DATE: 02/18/2010 METHOD: ECD2-F-8082-111209A.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:021710 Injection Volume: 1.0 uL

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100105-99 IB	JAOC	17-FEB-2010 07:56		021710	1.0		CLEAN
002f0201.d	WAR100203-60 01	JAOC	17-FEB-2010 08:07		021710	1.0		DUSE
003f0301.d	WAR091102-54	JAOC	17-FEB-2010 08:18		021710	1.0		DUSE
004f0401.d	WAR091217-42	JAOC	17-FEB-2010 08:29		021710	1.0		PASSES BOTH COLUMNS
005f0501.d	WAR091217-48	JAOC	17-FEB-2010 08:40		021710	1.0		PASSES BOTH COLUMNS
006f0601.d	WAR100104-32	JAOC	17-FEB-2010 08:51		021710	1.0		PATTERN ONLY
007f0701.d	WAR100217-60 01	JAOC	17-FEB-2010 09:02		021710	1.0		PASSES BOTH COLUMNS
008f0801.d	WAR100217-54	JAOC	17-FEB-2010 09:13		021710	1.0		PASSES BOTH COLUMNS
009f0901.d	WAR100104-21	JAOC	17-FEB-2010 09:24		021710	1.0		PATTERN ONLY
010f1001.d	WAR100104-62	JAOC	17-FEB-2010 09:35		021710	1.0		PASSES BOTH COLUMNS
011f1101.d	WAR091106-68	JAOC	17-FEB-2010 09:46		021710	1.0		PASSES BOTH COLUMNS
012f1201.d	WAR091219-DDT	JAOC	17-FEB-2010 09:58		021710	1.0		DDT
013f1301.d	WAR100105-99 02	JAOC	17-FEB-2010 10:09		021710	1.0		CLEAN
014f1401.d	1202044729	JAOC	17-FEB-2010 10:20	953776	10-1703	1.0	QC A	UPLOAD BOTH, USE HIGHER
015f1501.d	1202044730	JAOC	17-FEB-2010 10:31	953776	10-1703	1.0	QC A	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd2a.i/021710.b Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	246677001	JAOC	17-FEB-2010 10:42	953776	10-1703	1.0	LANL	UPLOAD BOTH, USE HIGHER

017f1701.d	246677002	JAOC	17-FEB-2010 10:53	953776	10-1703		1.0	LANL	UPLOAD BOTH, USE HIGHER
018f1801.d	246677003	JAOC	17-FEB-2010 11:04	953776	10-1703		1.0	LANL	UPLOAD BOTH, USE HIGHER
019f1901.d	246677004	JAOC	17-FEB-2010 11:15	953776	10-1703		1.0	LANL	UPLOAD BOTH, USE HIGHER
020f2001.d	246677005	JAOC	17-FEB-2010 11:26	953776	10-1703		1.0	LANL	UPLOAD BOTH, USE HIGHER
021f2101.d	246677006	JAOC	17-FEB-2010 11:38	953776	10-1703		1.0	LANL	UPLOAD BOTH, USE HIGHER
022f2201.d	246677007	JAOC	17-FEB-2010 11:49	953776	10-1703		1.0	LANL	UPLOAD BOTH, USE HIGHER
023f2301.d	246677008	JAOC	17-FEB-2010 12:00	953776	10-1703		1.0	LANL	UPLOAD BOTH, USE HIGHER
024f2401.d	WAR100217-60 02	JAOC	17-FEB-2010 12:11		021710		1.0		PASSES BOTH COLUMNS
025f2501.d	WAR100105-99 03	JAOC	17-FEB-2010 12:22		021710		1.0		CLEAN
026f2601.d	246725001	JAOC	17-FEB-2010 12:33	953776	10-1710		1.0	LANL	UPLOAD BOTH, USE HIGHER
027f2701.d	1202044731	JAOC	17-FEB-2010 12:44	953776	10-1710		1.0	QC A	UPLOAD BOTH, USE HIGHER
028f2801.d	1202044732	JAOC	17-FEB-2010 12:55	953776	10-1710		1.0	QC A	UPLOAD BOTH, USE HIGHER
029f2901.d	246725002	JAOC	17-FEB-2010 13:06	953776	10-1710		1.0	LANL	UPLOAD BOTH, USE HIGHER
030f3001.d	246725003	JAOC	17-FEB-2010 13:17	953776	10-1710		1.0	LANL	UPLOAD BOTH, USE HIGHER
031f3101.d	246725004	JAOC	17-FEB-2010 13:29	953776	10-1710		1.0	LANL	UPLOAD BOTH, USE HIGHER
032f3201.d	246725005	JAOC	17-FEB-2010 13:40	953776	10-1710		1.0	LANL	UPLOAD BOTH, USE HIGHER
033f3301.d	246725006	JAOC	17-FEB-2010 13:51	953776	10-1710		1.0	LANL	UPLOAD BOTH, USE HIGHER
034f3401.d	246725007	JAOC	17-FEB-2010 14:02	953776	10-1710		1.0	LANL	UPLOAD BOTH, USE HIGHER
035f3501.d	246725008	JAOC	17-FEB-2010 14:13	953776	10-1710		1.0	LANL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd2a.i/021710.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	WAR100217-60 03	JAOC	17-FEB-2010 14:24		021710	1.0		PASSES BOTH COLUMNS
037f3701.d	WAR100105-99 04	JAOC	17-FEB-2010 14:35		021710	1.0		CLEAN
038f3801.d	246725009	JAOC	17-FEB-2010 14:46	953776	10-1710	1.0	LANL	UPLOAD BOTH, USE HIGHER
039f3901.d	246725010	JAOC	17-FEB-2010 14:57	953776	10-1710	10.0	LANL	UPLOAD BOTH, USE HIGHER
040f4001.d	246725011	JAOC	17-FEB-2010 15:08	953776	10-1710	1.0	LANL	UPLOAD BOTH, USE HIGHER
041f4101.d	WAR100217-60 04	JAOC	17-FEB-2010 15:20		021710	1.0		PASSES BOTH COLUMNS

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/027b2701.d
Lab Smp Id: 1202044731 Client Smp ID: RE46-10-12649MS
Inj Date : 17-FEB-2010 12:44
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202044731|1|
Misc Info : |ECD82P_1S|953776|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 17-Feb-2010 12:31 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 27 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1710.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	8.53630	% Moisture

Cpnd Variable Local Compound Variable

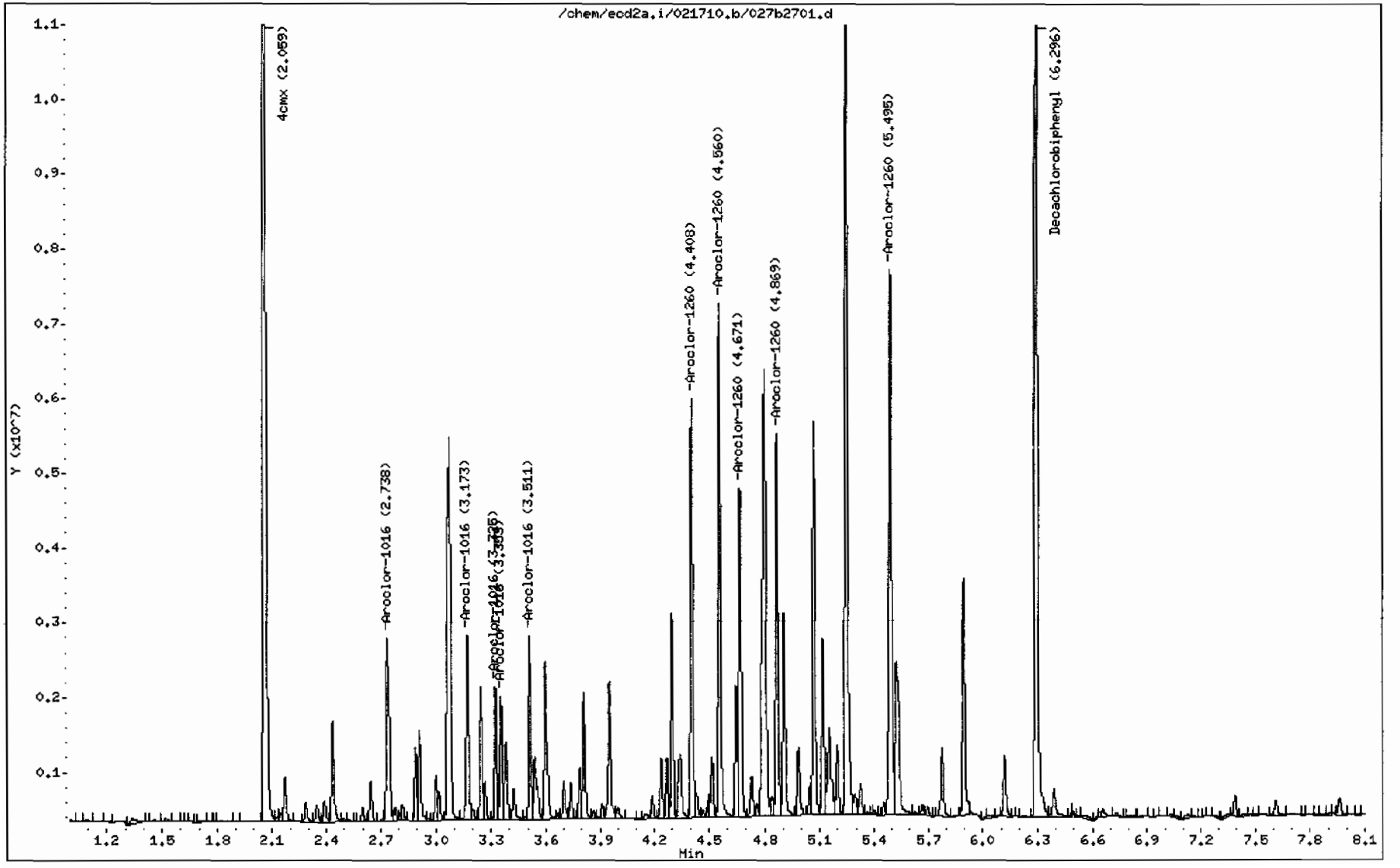
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.059	2.058	0.001	19912884	122.412	4.4	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.296	6.296	0.000	17771454	140.085	5.1	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.738	2.737	0.001	2933314	558.209	20.3	80.00- 120.00	100.00
3.173	3.173	0.000	2367689	590.276	21.5	57.99- 97.99	80.72
3.325	3.324	0.001	1432486	616.750	22.5	24.90- 64.90	48.84
3.353	3.353	0.000	1426740	590.561	21.5	26.91- 66.91	48.64
3.511	3.512	-0.001	1979028	617.680	22.5	42.88- 82.88	67.47

Average of Peak Concentrations = 21.7

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.408	4.408	0.000	4666694	740.809	27.0	80.00- 120.00	100.00
4.560	4.560	0.000	5939720	762.285	27.8	104.78- 144.78	127.28
4.671	4.672	-0.001	3969907	731.935	26.7	65.84- 105.84	85.07
4.869	4.868	0.001	4451492	738.804	26.9	75.48- 115.48	95.39
5.495	5.495	0.000	7209397	744.838	27.1	133.94- 173.94	154.49
Average of Peak Concentrations =					27.1		

Data File: /chem/ecd2a.i/021710.b/027b2701.d
Date : 17-FEB-2010 12:44
Client ID: RE46-10-12649MS
Sample Info: |1202044731|1|
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i
Operator: JADC
Column diameter: 0.25



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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/027f2701.d
Lab Smp Id: 1202044731 Client Smp ID: RE46-10-12649MS
Inj Date : 17-FEB-2010 12:44
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202044731|1|
Misc Info : |ECD82P_1S|953776|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 12:32 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 27 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1710.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	8.53630	% Moisture

Cpnd Variable Local Compound Variable

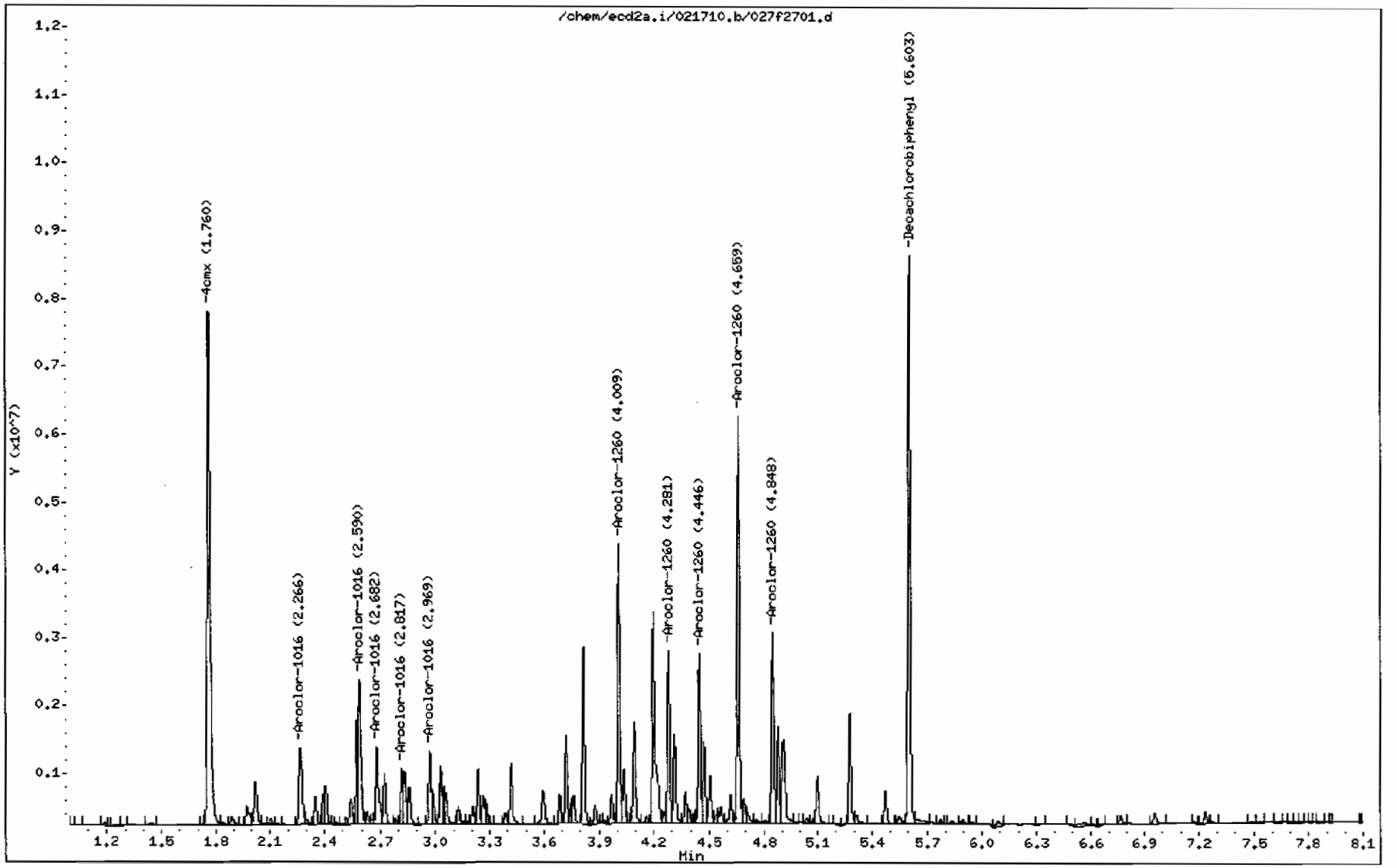
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.760	1.759	0.001	8927780	119.330	4.3	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.603	5.604	-0.001	7838088	124.174	4.5	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.266	2.265	0.001	1414210	558.251	20.3	80.00- 120.00	100.00
2.590	2.590	0.000	2111313	608.249	22.2	120.91- 160.91	149.29
2.682	2.681	0.001	1245689	577.184	21.0	64.80- 104.80	88.08
2.817	2.816	0.001	659057	599.378	21.8	22.91- 62.91	46.60
2.969	2.968	0.001	968389	605.967	22.1	44.05- 84.05	68.48
			Average of Peak Concentrations -		21.5		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.009	4.010	-0.001	3458446	750.281	27.3	80.00- 120.00	100.00
4.281	4.282	-0.001	2147014	751.238	27.4	42.14- 82.14	62.08
4.446	4.447	-0.001	2146495	744.990	27.1	45.20- 85.20	62.07
4.659	4.660	-0.001	5247641	779.597	28.4	128.32- 168.32	151.73
4.848	4.849	-0.001	2473163	772.427	28.1	50.95- 90.95	71.51

Average of Peak Concentrations = 27.7

Data File: /chem/ecd2a.i/021710.b/027f2701.d
Date : 17-FEB-2010 12:44
Client ID: RE46-10-12649MS
Sample Info: |1202044731|1|
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/028b2801.d
Lab Smp Id: 1202044732 Client Smp ID: RE46-10-12649MSD
Inj Date : 17-FEB-2010 12:55
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202044732|1|
Misc Info : |ECD82P_1S|953776|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-B-8082-111209A.m
Meth Date : 18-Feb-2010 13:35 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010b1001.d
Als bottle: 28 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1710.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	8.53630	% Moisture

Cpnd Variable Local Compound Variable

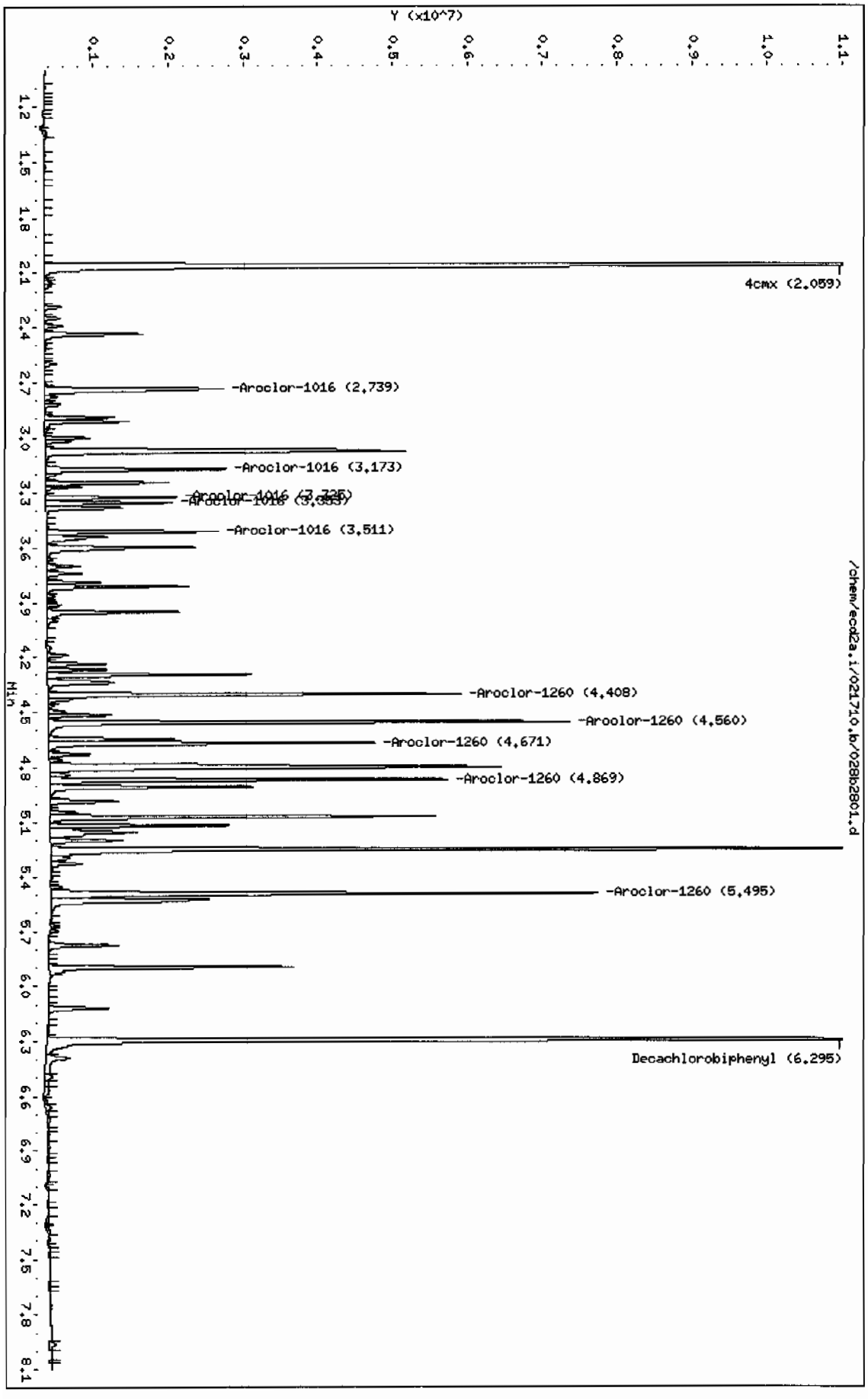
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
2.059	2.058	0.001	20722848	127.391	4.6	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.295	6.296	-0.001	18095261	142.637	5.2	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.739	2.737	0.002	2838724	540.209	19.6	80.00- 120.00	100.00
3.173	3.173	0.000	2264566	564.567	20.5	57.77- 97.77	79.77
3.325	3.324	0.001	1416885	610.033	22.2	24.83- 64.83	49.91
3.353	3.353	0.000	1434215	593.655	21.6	26.73- 66.73	50.52
3.511	3.512	-0.001	1865807	582.342	21.1	42.62- 82.62	65.73
Average of Peak Concentrations =					21.0		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.408	4.408	0.000	4596291	729.633	26.5	80.00- 120.00	100.00
4.560	4.560	0.000	6110933	784.258	28.5	104.88- 144.88	132.95
4.671	4.672	-0.001	3964510	730.940	26.5	65.69- 105.69	86.25
4.869	4.868	0.001	4625175	767.629	27.9	75.20- 115.20	100.63
5.495	5.495	0.000	7234507	747.432	27.1	133.14- 173.14	157.40

Average of Peak Concentrations = 27.3

Data File: /chem/ecd2a.i/021710.b/028b2801.d
Date : 17-FEB-2010 12:55
Client ID: RE46-10-12649MSD
Sample Info: 1120204473211
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i
Operator: JAOC
Column diameter: 0.25



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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/021710.b/028f2801.d
Lab Smp Id: 1202044732 Client Smp ID: RE46-10-12649MSD
Inj Date : 17-FEB-2010 12:55
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202044732|1|
Misc Info : |ECD82P_1S|953776|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecd2a.i/021710.b/ECD2-F-8082-111209A.m
Meth Date : 17-Feb-2010 12:32 jen01212 Quant Type: ESTD
Cal Date : 21-JAN-2010 08:45 Cal File: 010f1001.d
Als bottle: 28 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1710.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	8.53630	% Moisture

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 11 4cmx					CAS #: 877-09-8		
1.760	1.759	0.001	9312380	124.471	4.5	80.00- 120.00	100.00
$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.604	5.604	0.000	8543462	135.349	4.9	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
2.267	2.265	0.002	1366660	539.481	19.6	80.00- 120.00	100.00
2.590	2.590	0.000	1990902	573.560	20.8	120.91- 160.91	145.68
2.682	2.681	0.001	1183437	548.340	19.9	64.80- 104.80	86.59
2.817	2.816	0.001	646573	588.024	21.4	22.91- 62.91	47.31
2.969	2.968	0.001	939022	587.591	21.3	44.05- 84.05	68.71

Average of Peak Concentrations = 20.6

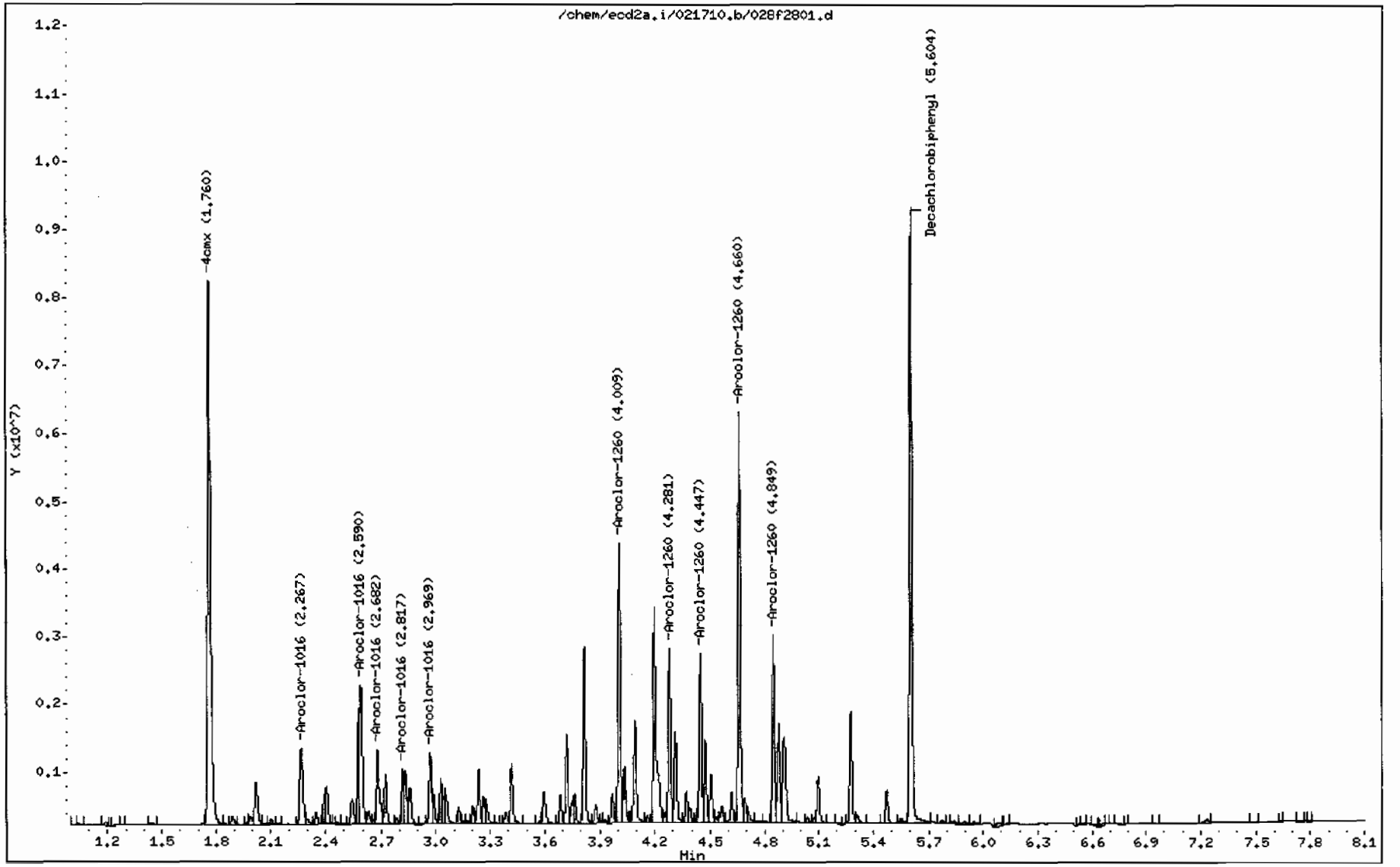
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 Aroclor-1260					CAS #: 11096-82-5		
4.009	4.010	-0.001	3507774	760.982	27.6	80.00- 120.00	100.00
4.281	4.282	-0.001	2184990	764.526	27.8	42.14- 82.14	62.29
4.447	4.447	0.000	2131384	739.746	26.9	45.20- 85.20	60.76
4.660	4.660	0.000	5273024	783.368	28.4	128.32- 168.32	150.32
4.849	4.849	0.000	2435929	760.798	27.6	50.95- 90.95	69.44

Average of Peak Concentrations = 27.7

Data File: /chem/ecd2a.i/021710.b/028f2801.d
Date : 17-FEB-2010 12:55
Client ID: RE46-10-12649MSD
Sample Info: |1202044732|1|
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd2a.i

Operator: JAOC
Column diameter: 0.25



Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 953774 **Verified by:** _____

Analyst: Andrew Schwemin

Method: SW846 3550B

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)
1202044729 MB	16-FEB-2010 20:17:00	30	H2SO4/KMn2		2	9	1	0.03333
1202044730 LCS	16-FEB-2010 20:17:00	30	H2SO4/KMn2		2	9	1	0.03333
246677001	16-FEB-2010 20:17:00	30.13	H2SO4/KMn2		2	9	1	0.03319
246677002	16-FEB-2010 20:17:00	30.18	H2SO4/KMn2		2	9	1	0.03313
246677003	16-FEB-2010 20:17:00	30.03	H2SO4/KMn2		2	9	1	0.0333
246677004	16-FEB-2010 20:17:00	30.04	H2SO4/KMn2		2	9	1	0.03329
246677005	16-FEB-2010 20:17:00	30.18	H2SO4/KMn2		2	9	1	0.03313
246677006	16-FEB-2010 20:17:00	30.15	H2SO4/KMn2		2	9	1	0.03317
246677007	16-FEB-2010 20:17:00	30.03	H2SO4/KMn2		2	9	1	0.0333
246677008	16-FEB-2010 20:17:00	30.18	H2SO4/KMn2		2	9	1	0.03313
246725001	16-FEB-2010 20:17:00	30.15	H2SO4/KMn2		2	9	1	0.03317
1202044731 MS (246725001)	16-FEB-2010 20:17:00	30.01	H2SO4/KMn2		2	9	1	0.03332
1202044732 MSD (246725001)	16-FEB-2010 20:17:00	30.11	H2SO4/KMn2		2	9	1	0.03321
246725002	16-FEB-2010 20:17:00	30.02	H2SO4/KMn2		2	9	1	0.03331
246725003	16-FEB-2010 20:17:00	30.03	H2SO4/KMn2		2	9	1	0.0333
246725004	16-FEB-2010 20:17:00	30.14	H2SO4/KMn2		2	9	1	0.03318
246725005	16-FEB-2010 20:17:00	30.08	H2SO4/KMn2		2	9	1	0.03324
246725006	16-FEB-2010 20:17:00	30.06	H2SO4/KMn2		2	9	1	0.03327
246725007	16-FEB-2010 20:17:00	30.03	H2SO4/KMn2		2	9	1	0.0333
246725008	16-FEB-2010 20:17:00	30.04	H2SO4/KMn2		2	9	1	0.03329
246725009	16-FEB-2010 20:17:00	30.02	H2SO4/KMn2		2	9	1	0.03331
246725010	16-FEB-2010 20:17:00	30.06	H2SO4/KMn2		2	9	1	0.03327
246725011	16-FEB-2010 20:17:00	30.04	H2SO4/KMn2		2	9	1	0.03329

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1202044730	PCB Laboratory Control	WE100210-07	1	mL
MS	1202044731	PCB Laboratory Control	WE100210-07	1	mL
MSD	1202044732	PCB Laboratory Control	WE100210-07	1	mL
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE100203-15	1	mL
REGNT	All	Acetone	100211-B1	150	mL
REGNT	All	Hexane	100211-B2	150	mL
REGNT	All	1:1 sulfuric acid	1260695a	5	mL
REGNT	All	5% Potassium Permanganate	B1202457-F	5	mL
SOURC	All	SODIUM SULFATE	1269268	30	g

Comments:

Clean up Date: 2/16/10

Clean up Initials: AJS

Verified By: AV

Final Solvent: Hexane

Clean Up SOP: GL-OA-E-037