Southeast
ACCUTEST
Laboratories

08/26/04

Technical Report for

ENSR

Former Camp Butner

09090-068

Accutest Job Number: F25991

Sampling Date: 08/09/04

Report to:

ENSR
2 Technology park Drive
Westford, MA 01886

ATTN: Debra McGarth

Total number of pages in report: 156

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

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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SECTION 2

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FULL LABORATORY DATA DELIVERABLES

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SECTION 3

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: ENSR **Job No:** F25991

Site: Former Camp Butner **Report Date:** 8/26/2004 3:13:44 PM

6 Samples were collected on 08/09/2004 and were received at Accutest on 08/11/2004 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F25991. A listing of Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Extractables by GC By Method SW846 8330A

Matrix: AQ **Batch ID:** OP11097

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F25991-4MS, F25991-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Duplicate Recoverys for 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, HMX, m-Nitrotoluene, Nitrobenzene, o-Nitrotoluene, p-Nitrotoluene, RDX, Tetryl are outside control limits. Probable cause: due to matrix interference.

RPDs for MSD for 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, HMX, m-Nitrotoluene, Nitrobenzene, o-Nitrotoluene, p-Nitrotoluene, RDX, Tetryl are outside control limits for sample OP11097-MSD. Probable cause: due to matrix interference.

Sample OP11097-MSD has surrogates outside control limits. Probable cause: matrix interference.

OP11097-MSD: Confirmed by reanalysis.

Extractables by GC By Method SW846 8332

Mat AQ **Batch** OP11098

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F25991-5MS, F25991-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

RPDfor MSD for Nitroglycerine ise outside control limits for sample OP11098-MSD. Probable cause: due to sample nonhomogeneity.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: Aug 26, 2004

Ellen Pampel, Inorganic QA (signature on file)

SECTION 4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: ~~N74646~~ MSC F25991

Client: AL NJ Project: N74646

Date Received: 8/11/04 Time Received: 9:00

# of Coolers Received: 3 Cooler Temperatures: 3.0 3.2 2.6

Delivery Method: (FedEx) UPS Accutest Courier Greyhound Delivery Other

Air Bill Number: ~~6720~~ 6720 4493 9960 3rd Airbill

Cooler Custody Seals Intact ?	(Yes)	No	
Chain of Custody Provided ?	(Yes)	No	
COC Match Bottle Label ID's ?	(Yes)	No	
Sample Labels Present on all bottles ?	(Yes)	No	
All Analyses Marked On COC ?	(Yes)	No	
Are All Bottles Intact ?	(Yes)	No	
Samples Preserved Correctly ?	(Yes)	No	
Correct Number of Containers Used ?	~~Yes~~	(No)	
Sufficient Sample Volume ?	(Yes)	No	
Trip Blank Provided ?	Yes	(No)	
Trip Blank on COC ?	Yes	(No)	
Trip Blank Intact ?	Yes	No	(N/A)
Trip Blank Matrix ?	Soil	Water	(N/A)
Number of Encores ?	Ø		
Number of Soil Field Kits ?	Ø		

Summary of Comments: Sent lamber for 8332.

Signature: [signature] Date: 8/11/04

Review Signature:

ASBD/HW 05/11/03

0006

SECTION 5

GW
FB

MSC
~~N74646~~

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

FZ5991

[redacted]

WB

Accutest Job #: N74646
Accutest Quote #:

8000

Client Information			Facility Information	
Debra L. McGrath			Former Camp Butner	
Name: 2 Technology Park Drive			Project Name	
Address: Westford	MA	01886	Location	
City	State	Zip	Project/PO #: 09090-068	
Send Report to: Phone #: (978) 589-3358			FAX #: (978) 589-3282	

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A			
RW0804-658-LakeviewDr	8-9-04	1640	LB	GW	2					X	X										
RW0804-658-LakeviewDr				GW	2					X		X							6033		
RW0804-658-LakeviewDr				GW	2					X			X						5033		
RW0804-658-LakeviewDr -1				GW	3					X				X					ALSE		
RW0804-658-LakeviewDr				GW	1					X					X				AMET8		
RW0804-658-LakeviewDr				GW	1			X								X			MC8		
RW0804-658-LakeviewDr				GW	1			X									X		2049		
RW0804-658-LakeviewDr				GW	1		X											X			
0				0																	

Turnaround Information

- [ ] 21 Day Standard
- [ ] 14 Day
- [x] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [x] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
[signature]	8/9/04 1914	1 FED EX	2 FED EX	08/10/2004 @10:00	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3 FX	Relinquished By: 4 FX	Date Time: 8/11/04 9:00	Received By: 4 [signature]
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal # 627	Preserved where applica ✓ KC	On Ice: ✓ 4.2°

3.0 3.2 2.6

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: N74646
Accutest Quote #:

Client Information

Name: Debra L. McGrath
Address: 2 Technology Park Drive
City: Westford State: MA Zip: 01886
Send Report to:
Phone #: (978) 589-3358

Facility Information

Project Name: Former Camp Butner
Location:
Project/PO #: 09090-068
FAX #: (978) 589-3282

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332 *	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A			
RW0804-653-LakeviewDr	8/9/04	1525	LB	GW	2					X	X										
RW0804-653-LakeviewDr				GW	2					X		X									
RW0804-653-LakeviewDr				GW	2					X			X								
RW0804-653-LakeviewDr *				GW	3					X				X							
RW0804-653-LakeviewDr				GW	1					X					X						
RW0804-653-LakeviewDr				GW	1			X								X					
RW0804-653-LakeviewDr				GW	1			X									X				
RW0804-653-LakeviewDr	*	*	✓	GW	1		X											X			
0				0																	

Turnaround Information

- [ ] 21 Day Standard
- [ ] 14 Day
- [X] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

Approved By:

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Data Deliverable Information

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- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

* 1 Bottle recieved broken Kc 08/10/04

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Lorry Bryan	8/9/04 1852	1 FED EX	2 FED EX	08/10/2004 @ 10:00	2
3		3 FX	4 FX	8/11/04 9:00	4
5		5	Seal # 758,578	Preserved where applica ✓ Kc	On Ice: ✓ 4.°

3.0 3.2 2.4

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: M4646
Accutest Quote #:

0010

Client Information

Name: Debra L. McGrath
Address: 2 Technology Park Drive
City: Westford State: MA Zip: 01886
Send Report to:
Phone #: (978) 589-3358

Facility Information

Project Name: Former Camp Butner
Location:
Project/PO #: 09090-068
FAX #: (978) 589-3282

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A
RW0804-652-LakeviewDr	8/9/04	1350	LB	GW	2					X	X							
RW0804-652-LakeviewDr				GW	2					X		X						
RW0804-652-LakeviewDr				GW	2					X			X					
3 RW0804-652-LakeviewDr				GW	3					X				X				
RW0804-652-LakeviewDr				GW	1					X					X			
RW0804-652-LakeviewDr				GW	1			X								X		
RW0804-652-LakeviewDr				GW	1			X									X	
RW0804-652-LakeviewDr				GW	1		X											X
0				0														

Turnaround Information

- [ ] 21 Day Standard
- [ ] 14 Day
- [X] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

Approved By:

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- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

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

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1 Larry Berger	8/9/04 1912	1 FED EX	2 FED EX	08/10/2004 @ 10:00	2
Relinquished by Sampler 3	Date Time	Received By 3 FX	Relinquished By 4 FX	Date Time 8/11/04	Received By 4
Relinquished by Sampler 5	Date Time	Received By 5	Seal # 590	Preserved where applica ✓ KC	On Ice: ✓ 4.°

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: M74646
Accutest Quote #:

0011

Client Information

Name: Debra L. McGrath
Address: 2 Technology Park Drive
City: Westford State: MA Zip: 01886
Send Report to:
Phone #: (978) 589-3358

Facility Information

Project Name: Former Camp Butner
Location:
Project/PO #: 09090-068
FAX #: (978) 589-3282

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A			
RWB0804-3536-FletchersWay	8/9/04	1735	LB	GW	2					X	X										
RWB0804-3536-FletchersWay				GW	2					X		X									
RWB0804-3536-FletchersWay				GW	2					X			X								
4 RWB0804-3536-FletchersWay				GW	3					X				X							
RWB0804-3536-FletchersWay				GW	1					X					X						
RWB0804-3536-FletchersWay				GW	1			X								X					
RWB0804-3536-FletchersWay				GW	1			X									X				
RWB0804-3536-FletchersWay				GW	1		X											X			
0				0																	

Turnaround Information

- [ ] 21 Day Standard
- [ ] 14 Day
- [x] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

Approved By:

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Data Deliverable Information

- [ ] NJ Reduced
- [x] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
[signature]	8/9/04 1907	1 FED Ex	2 FED EX	08/10/2004 @ 10:00	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3 FX	Relinquished By: 4 FX	Date Time: 8/11/04 9:00	Received By: 4 [signature]
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal # 756	Preserved where applica Yes	On Ice: Y 4.6°

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: N74646
Accutest Quote #:

0012

Client Information

Name: Debra L. McGrath
Address: 2 Technology Park Drive
City: Westford State: MA Zip: 01886
Send Report to:
Phone #: (978) 589-3358

Facility Information

Project Name: Former Camp Butner
Location:
Project/PO #: 09090-068
FAX #: (978) 589-3282

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A			
RW0804-NCNG	8/9/04	1230	LB	GW	2					X	X										
RW0804-NCNG				GW	2					X		X									
RW0804-NCNG				GW	2					X			X								
5 RW0804-NCNG -5				GW	3					X				X							
RW0804-NCNG				GW	1					X					X						
RW0804-NCNG				GW	1			X								X					
RW0804-NCNG				GW	1			X									X				
RW0804-NCNG				GW	1		X											X			
0				0																	

Turnaround Information

- [ ] 21 Day Standard
- [ ] 14 Day
- [x] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [x] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Larry Berg	8/9/04 1844	1 FED EX	2 FED EX	08/10/2004 @ 10:00	2
Relinquished by Sampler: 3	Date Time:	Received By: 3 FX	Relinquished By: 4 FX	Date Time: 8/11/04 9:00	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal # 594	Preserved where applica ✓ Ice	On Ice: ✓ 4.4°

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: N74646
Accutest Quote #:

0013

Client Information

Name: Debra L. McGrath
Address: 2 Technology Park Drive
City: Westford State: MA Zip: 01886
Send Report to:
Phone #: (978) 589-3358

Facility Information

Project Name: Former Camp Butner
Location:
Project/PO #: 09090-068
FAX #: (978) 589-3282

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin/ 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A
RW0804-FieldDup1	8/9/04	—	LB	GW	2					X	X							
RW0804-FieldDup1		—		GW	2					X		X						
RW0804-FieldDup1		—		GW	2					X			X					
RW0804-FieldDup1		—		GW	3					X				X				
RW0804-FieldDup1		—		GW	1					X					X			
RW0804-FieldDup1		—		GW	1			X								X		
RW0804-FieldDup1		—		GW	1			X									X	
RW0804-FieldDup1		—		GW	1		X											X
0				0														

Turnaround Information

- [ ] 21 Day Standard
- [ ] 14 Day
- [X] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	8/9/04 1910	1 FEDEx	2 FEDEx	08/10/2004 @ 10:00	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3 FX	Relinquished By: 4 FX	Date Time: 8/11/04 9:00	Received By: 4 [signature]
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal # 604	Preserved where applica ✓ FC	On Ice: ✓ 3.6°

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: M74696
Accutest Quote #:

Client Information

Name: Debra L. McGrath
Address: 2 Technology Park Drive
City: Westford State: MA Zip: 01886
Send Report to:
Phone #: (978) 589-3358

Facility Information

Project Name: Former Camp Butner
Location:
Project/PO #: 09090-068
FAX #: (978) 589-3282

Analytical Information

Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	VOCs / 8260B
5 RW0804-NCNG	8/9/04	1220	LB	GW	3	X					X
7 Trip Blank	—	—	LB	GW	2	X					X
3 RW0804-652-Lakeview Dr	8/9/04	1347	LB	GW	3	X					X
2 RW0804-653-Lakeview Dr	8/9/04	1514	LB	GW	3	X					X
6 RW0804-Field Dup 1	8/9/04	—	LB	GW	3	X					X
1 RW0804-658-Lakeview Dr	8/9/04	1630	LB	GW	3	X					X
4 RW0804-3536-Fletchers Way	8/9/04	1730	LB	GW	3	X					X

Turnaround Information

- [ ] 21 Day Standard
- [ ] 14 Day
- [X] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

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- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

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

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1 [signature]	8/9/04 1830	1 FED EX	2 FED EX	08/10/2004 @10:00	2 [signature]
3		3 FX	4 FX	8/11/04 9:00	4 [signature]
5		5	Seal # 592	Preserved where applica	On Ice: ✓ 5°

SECTION 6

Accutest Laboratories

Sample Summary

ENSR

Former Camp Butner
Project No: 09090-068

Job No: F25991

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F25991-1	08/09/04	16:40 LB	08/11/04	AQ	Ground Water	RW0804-658-LAKEVIEW DR
F25991-2	08/09/04	15:25 LB	08/11/04	AQ	Ground Water	RW0804-653-LAKEVIEW DR
F25991-3	08/09/04	13:50 LB	08/11/04	AQ	Ground Water	RW0804-652-LAKEVIEW DR
F25991-4	08/09/04	17:35 LB	08/11/04	AQ	Ground Water	RW0804-3536-FLETCHERS WAY
F25991-5	08/09/04	12:30 LB	08/11/04	AQ	Ground Water	RW0804-NCNG
F25991-6	08/09/04	00:00 LB	08/11/04	AQ	Ground Water	RW0804-FIELDDUP1

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-658-LAKEVIEW DR		
Lab Sample ID:	F25991-1	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010038.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.21	0.080	ug/l	
121-82-4	RDX	ND	0.21	0.080	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.21	0.053	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.21	0.053	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
98-95-3	Nitrobenzene	ND	0.21	0.053	ug/l	
88-72-2	o-Nitrotoluene	ND	0.21	0.053	ug/l	
99-08-1	m-Nitrotoluene	ND	0.21	0.053	ug/l	
99-99-0	p-Nitrotoluene	ND	0.21	0.080	ug/l	
479-45-8	Tetryl	ND	0.21	0.080	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.21	0.053	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.21	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	103%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-658-LAKEVIEW DR		
Lab Sample ID:	F25991-1	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000692.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.1	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	108%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-653-LAKEVIEW DR		
Lab Sample ID:	F25991-2	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010039.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.21	0.080	ug/l	
121-82-4	RDX	ND	0.21	0.080	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.21	0.053	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.21	0.053	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
98-95-3	Nitrobenzene	ND	0.21	0.053	ug/l	
88-72-2	o-Nitrotoluene	ND	0.21	0.053	ug/l	
99-08-1	m-Nitrotoluene	ND	0.21	0.053	ug/l	
99-99-0	p-Nitrotoluene	ND	0.21	0.080	ug/l	
479-45-8	Tetryl	ND	0.21	0.080	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.21	0.053	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.21	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	86%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-653-LAKEVIEW DR		
Lab Sample ID:	F25991-2	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000693.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.1	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	86%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-652-LAKEVIEW DR		
Lab Sample ID:	F25991-3	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010040.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.22	0.081	ug/l	
121-82-4	RDX	ND	0.22	0.081	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.22	0.054	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.22	0.054	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
98-95-3	Nitrobenzene	ND	0.22	0.054	ug/l	
88-72-2	o-Nitrotoluene	ND	0.22	0.054	ug/l	
99-08-1	m-Nitrotoluene	ND	0.22	0.054	ug/l	
99-99-0	p-Nitrotoluene	ND	0.22	0.081	ug/l	
479-45-8	Tetryl	ND	0.22	0.081	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.22	0.054	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.22	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	83%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-652-LAKEVIEW DR		
Lab Sample ID:	F25991-3	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000694.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.2	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	84%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-3536-FLETCHERS WAY		
Lab Sample ID:	F25991-4	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010041.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.22	0.082	ug/l	
121-82-4	RDX	ND	0.22	0.082	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.22	0.055	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.22	0.055	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.22	0.055	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.22	0.055	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.22	0.055	ug/l	
98-95-3	Nitrobenzene	ND	0.22	0.055	ug/l	
88-72-2	o-Nitrotoluene	ND	0.22	0.055	ug/l	
99-08-1	m-Nitrotoluene	ND	0.22	0.055	ug/l	
99-99-0	p-Nitrotoluene	ND	0.22	0.082	ug/l	
479-45-8	Tetryl	ND	0.22	0.082	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.22	0.055	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.22	0.055	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	90%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-3536-FLETCHERS WAY		
Lab Sample ID:	F25991-4	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000695.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.2	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	91%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-NCNG		
Lab Sample ID:	F25991-5	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010044.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.22	0.082	ug/l	
121-82-4	RDX	ND	0.22	0.082	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.22	0.054	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.22	0.054	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
98-95-3	Nitrobenzene	ND	0.22	0.054	ug/l	
88-72-2	o-Nitrotoluene	ND	0.22	0.054	ug/l	
99-08-1	m-Nitrotoluene	ND	0.22	0.054	ug/l	
99-99-0	p-Nitrotoluene	ND	0.22	0.082	ug/l	
479-45-8	Tetryl	ND	0.22	0.082	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.22	0.054	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.22	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	93%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-NCNG		
Lab Sample ID:	F25991-5	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000696.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.2	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	93%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-FIELDDUP1		
Lab Sample ID:	F25991-6	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010045.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.22	0.082	ug/l	
121-82-4	RDX	ND	0.22	0.082	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.22	0.054	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.22	0.054	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
98-95-3	Nitrobenzene	ND	0.22	0.054	ug/l	
88-72-2	o-Nitrotoluene	ND	0.22	0.054	ug/l	
99-08-1	m-Nitrotoluene	ND	0.22	0.054	ug/l	
99-99-0	p-Nitrotoluene	ND	0.22	0.082	ug/l	
479-45-8	Tetryl	ND	0.22	0.082	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.22	0.054	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.22	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	82%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-FIELDDUP1		
Lab Sample ID:	F25991-6	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000699.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.2	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	79%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

SECTION 7

SAMPLE RESULT REPORT OF ANALYSIS

SGC.01

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-658-LAKEVIEW DR		
Lab Sample ID:	F25991-1	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010038.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.21	0.080	ug/l	
121-82-4	RDX	ND	0.21	0.080	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.21	0.053	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.21	0.053	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
98-95-3	Nitrobenzene	ND	0.21	0.053	ug/l	
88-72-2	o-Nitrotoluene	ND	0.21	0.053	ug/l	
99-08-1	m-Nitrotoluene	ND	0.21	0.053	ug/l	
99-99-0	p-Nitrotoluene	ND	0.21	0.080	ug/l	
479-45-8	Tetryl	ND	0.21	0.080	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.21	0.053	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.21	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	103%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010038.D\dad1B.ch Vial: 13
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010038.D\dad1A.ch
Acq On : 24-Aug-2004, 20:34:20 Operator: MIKEE
Sample : F25991-1 Inst : G1315B
Misc : op11097,ggg474,940,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:12 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7)	S 3,4-Dinitrotolue	12.37	12.37	1190095	1625788	257.704	256.967
	Spiked Amount 250.000	Range	61 - 124	Recovery	=	103.08%	102.79%
	Target Compounds						
1)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
2)	RDX	0.00	0.00	0	0	N.D.	N.D.
3)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D.	N.D.
4)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D.	N.D.
5)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
6)	Nitrobenzene	0.00	0.00	0	0	N.D.	N.D.
8)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D.	N.D.
9)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
10)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D. d	N.D. d
11)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
12)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
13)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
14)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
15)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.

MOD 8/25/04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010038.D 8330_EX2.M Wed Aug 25 08:10:55 2004

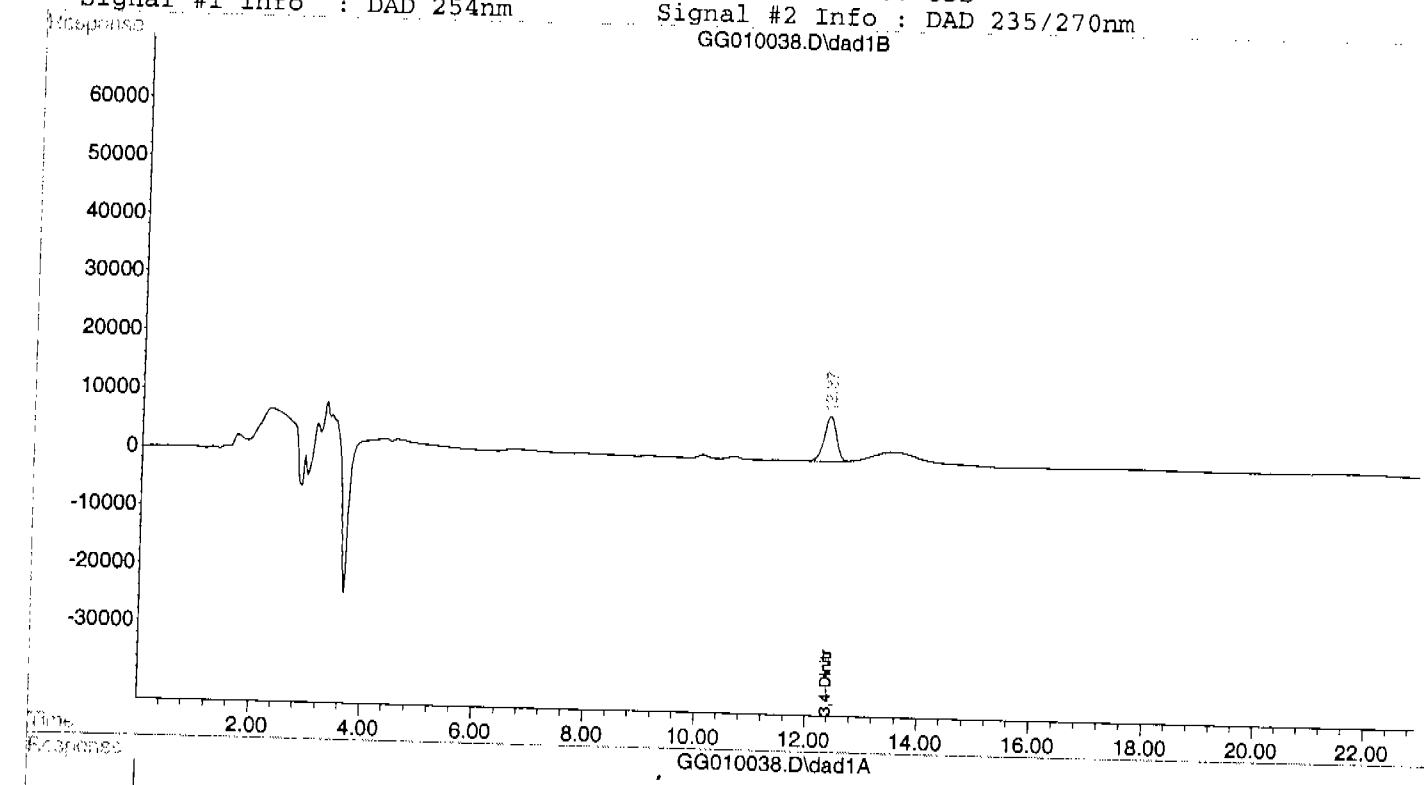
0032

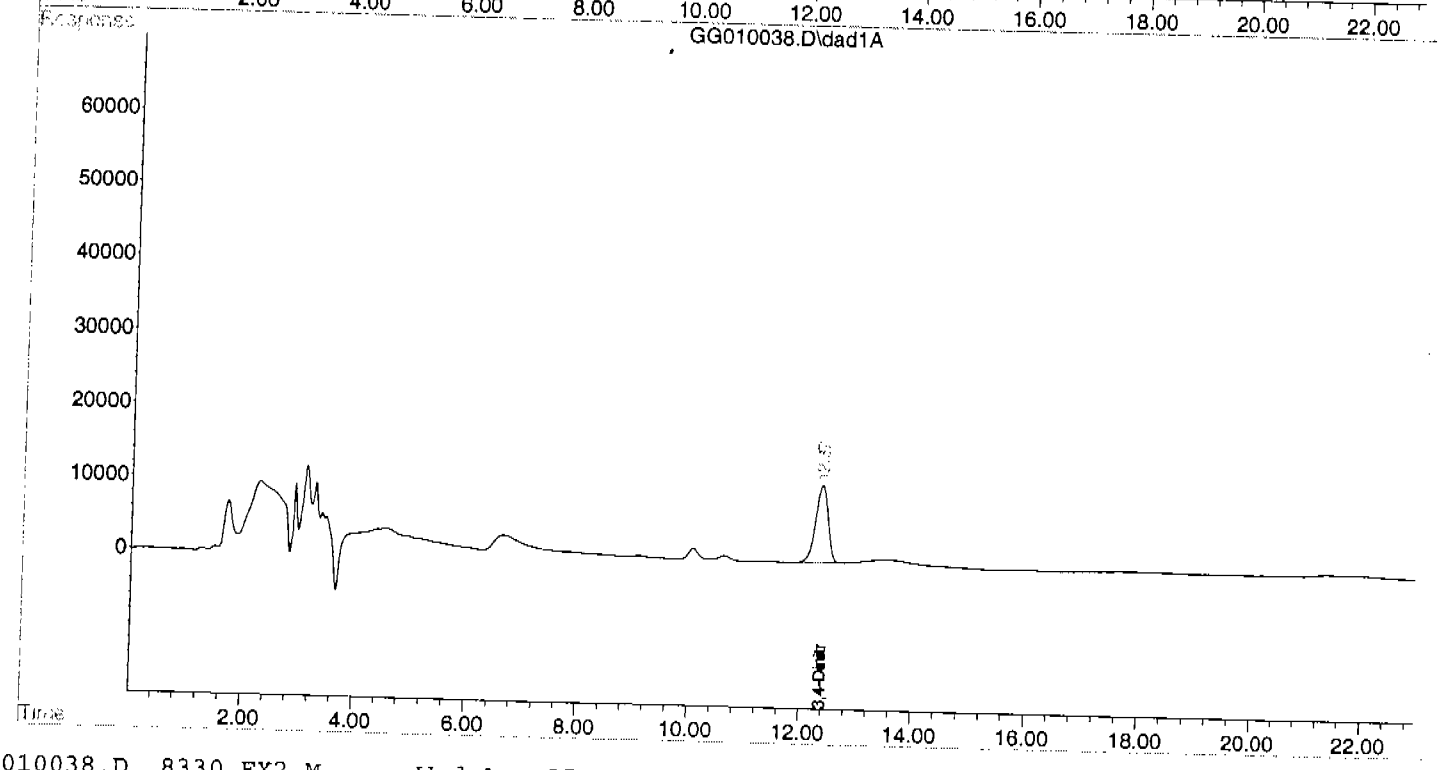
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010038.D\dad1B.ch Vial: 13
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010038.D\dad1A.ch
Acq On : 24-Aug-2004, 20:34:20
Sample : F25991-1 Operator: MIKEE
Misc : op11097,ggg474,940,,,10,,water Inst : G1315B
IntFile Signal #1: EVENTS.E Multiplr: 1.00
Quant Time: Aug 25 8:12 2004 IntFile Signal #2: events2.e
Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS
Signal #1 Info : DAD 254nm
Signal #2 Phase: ODS
Signal #2 Info : DAD 235/270nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-658-LAKEVIEW DR		
Lab Sample ID:	F25991-1	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000692.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.1	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	108%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000692.D\dad1B.ch Vial: 12
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000692.D\dad1A.ch
Acq On : 24-Aug-2004, 10:50:13 Operator: MIKEE
Sample : F25991-1 Inst : G1315B
Misc : op11098,gpp27,940,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 14:00 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.61	1159932	270.636 ppb m
Spiked Amount 250.000 Range 61 - 124		Recovery = 108.25%	
5) S 3,4-Dinitrotoluene #2	3.61	680891	306.494 ppb m
Spiked Amount 250.000 Range 61 - 124		Recovery = 122.60%	
Target Compounds			
1) Nitroglycerin	0.00	0	N.D. ppb
3) PETN	0.00	0	N.D. ppb

OK

8/24/04

8-24-04

0035

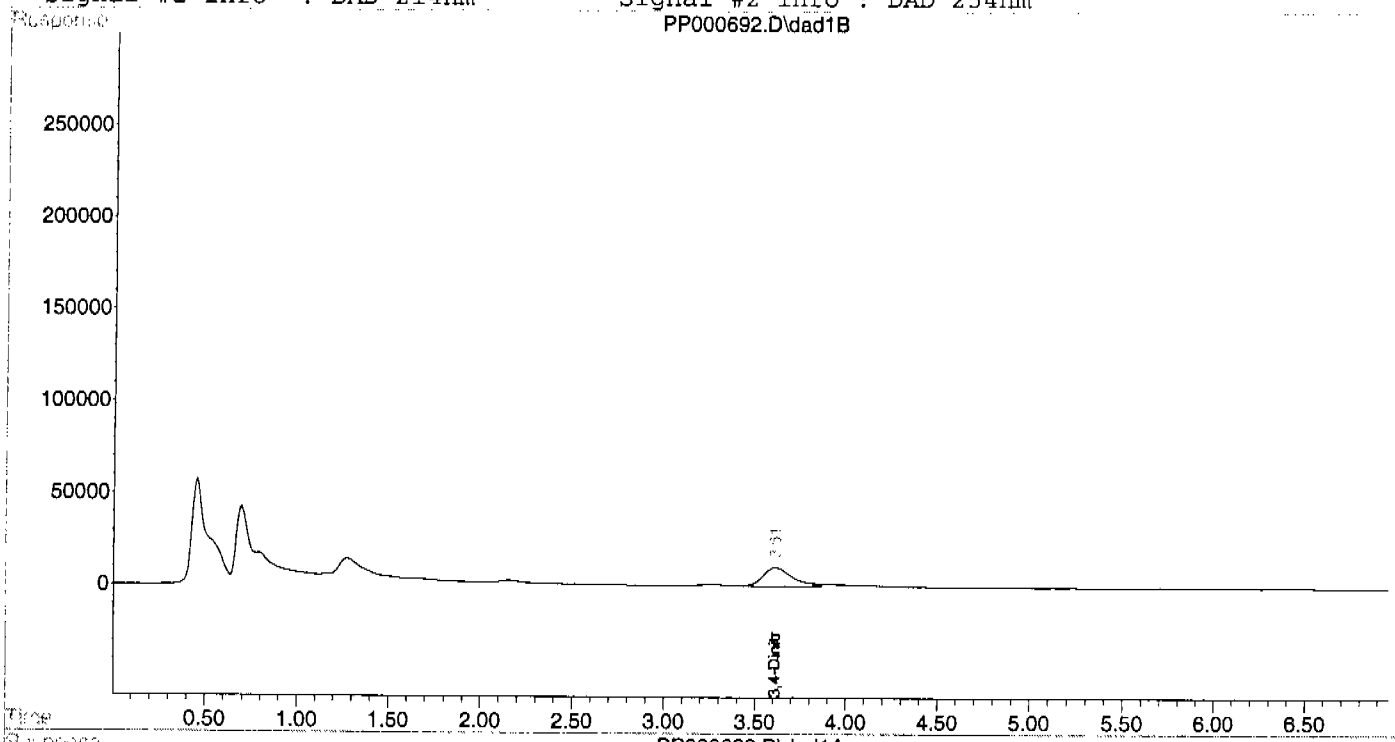
(f)=RT Delta > 1/2 Window (m)=manual int.

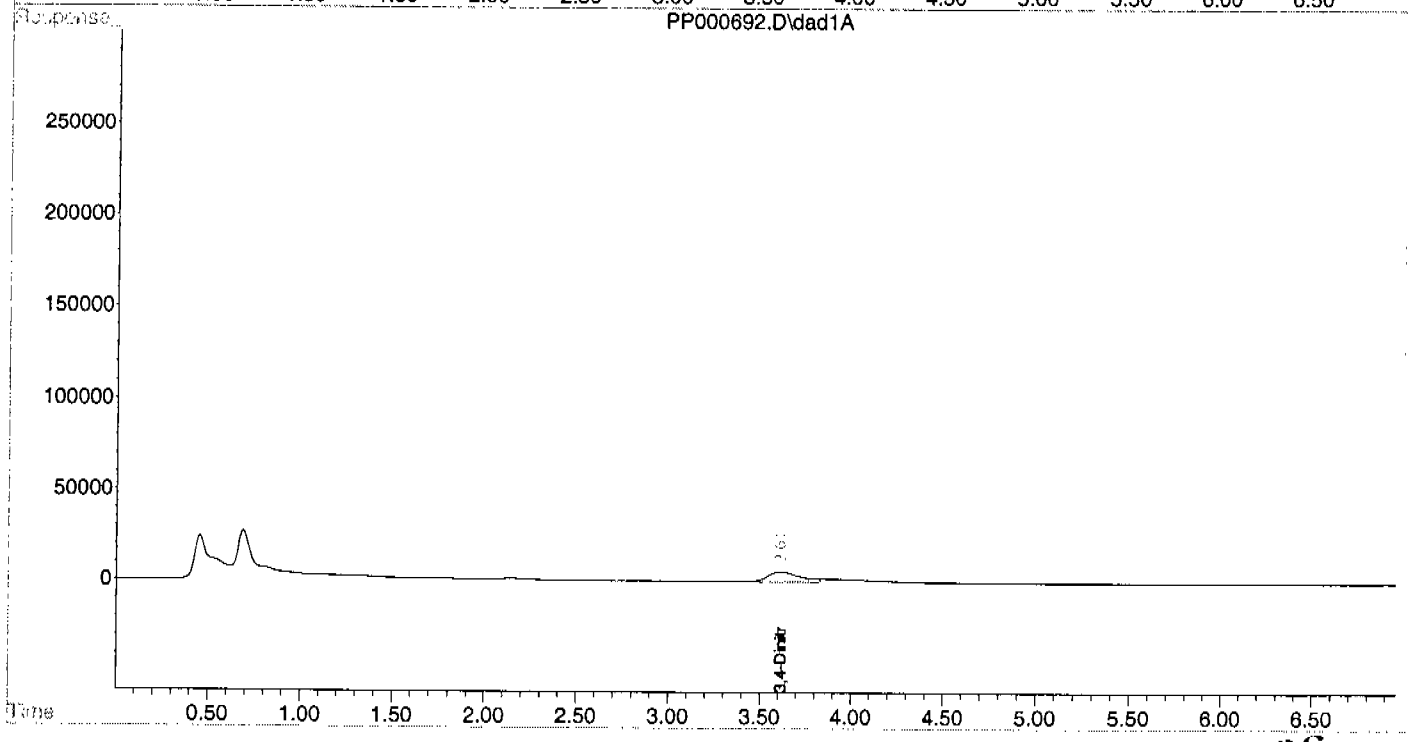
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000692.D\dad1B.ch Vial: 12
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000692.D\dad1A.ch
Acq On : 24-Aug-2004, 10:50:13 Operator: MIKEE
Sample : F25991-1 Inst : G1315B
Misc : op11098,gpp27,940,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 14:00 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-653-LAKEVIEW DR		
Lab Sample ID:	F25991-2	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010039.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.21	0.080	ug/l	
121-82-4	RDX	ND	0.21	0.080	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.21	0.053	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.21	0.053	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.21	0.053	ug/l	
98-95-3	Nitrobenzene	ND	0.21	0.053	ug/l	
88-72-2	o-Nitrotoluene	ND	0.21	0.053	ug/l	
99-08-1	m-Nitrotoluene	ND	0.21	0.053	ug/l	
99-99-0	p-Nitrotoluene	ND	0.21	0.080	ug/l	
479-45-8	Tetryl	ND	0.21	0.080	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.21	0.053	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.21	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	86%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010039.D\dad1B.ch Vial: 14
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010039.D\dad1A.ch
Acq On : 24-Aug-2004, 20:59:51 Operator: MIKEE
Sample : F25991-2 Inst : G1315B
Misc : op11097,ggg474,940,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:12 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.27	12.27	994881	1371683	215.432	216.804
	Spiked Amount 250.000	Range	61 - 124	Recovery	=	86.17%	86.72%
	Target Compounds						
1)	HMX	0.00	0.00	0	0	N.D.	N.D.
2)	RDX	0.00	0.00	0	0	N.D.	N.D.
3)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D.	N.D.
4)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D.	N.D.
5)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
6)	Nitrobenzene	0.00	0.00	0	0	N.D.	N.D.
8)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D.	N.D.
9)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
10)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D.	N.D.
11)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
12)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
13)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
14)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
15)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.

MEB 8/25/04

0038

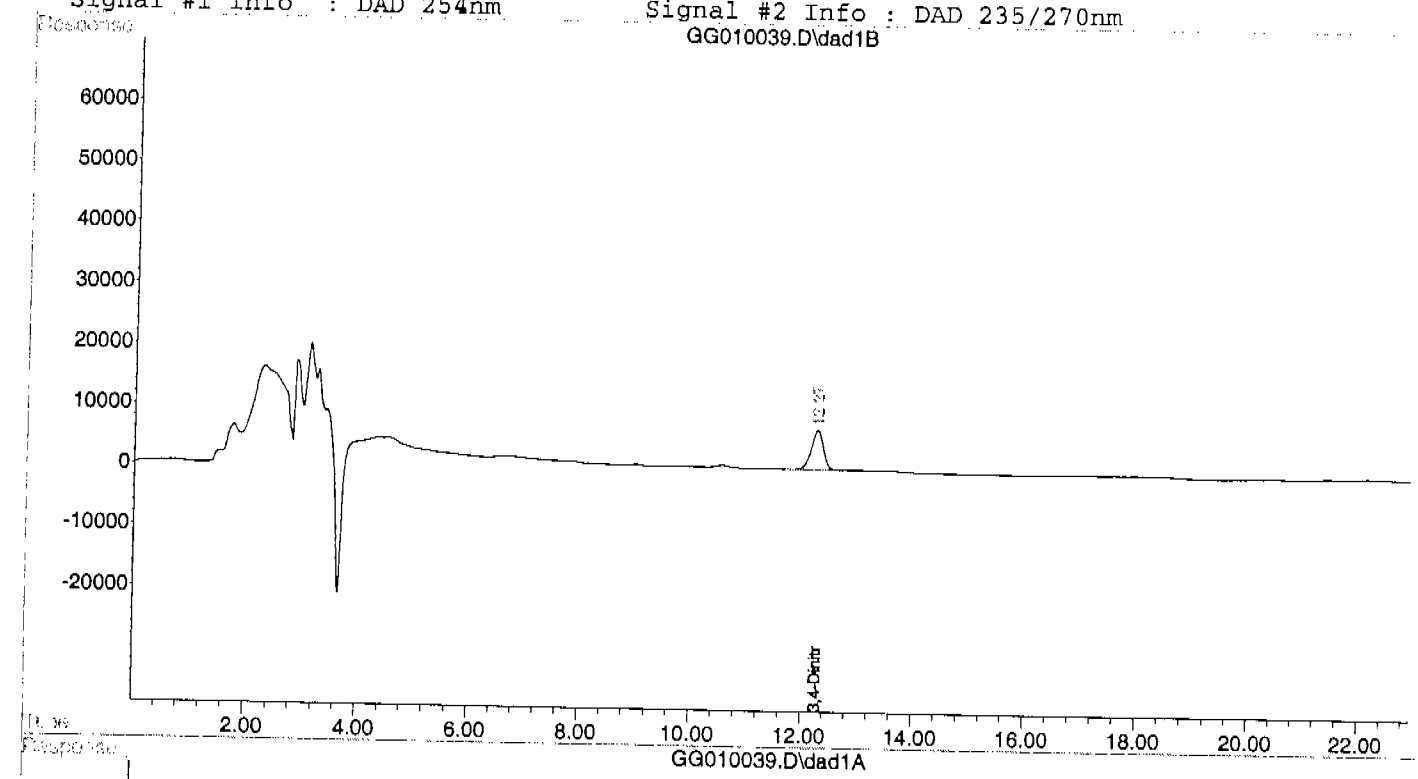
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

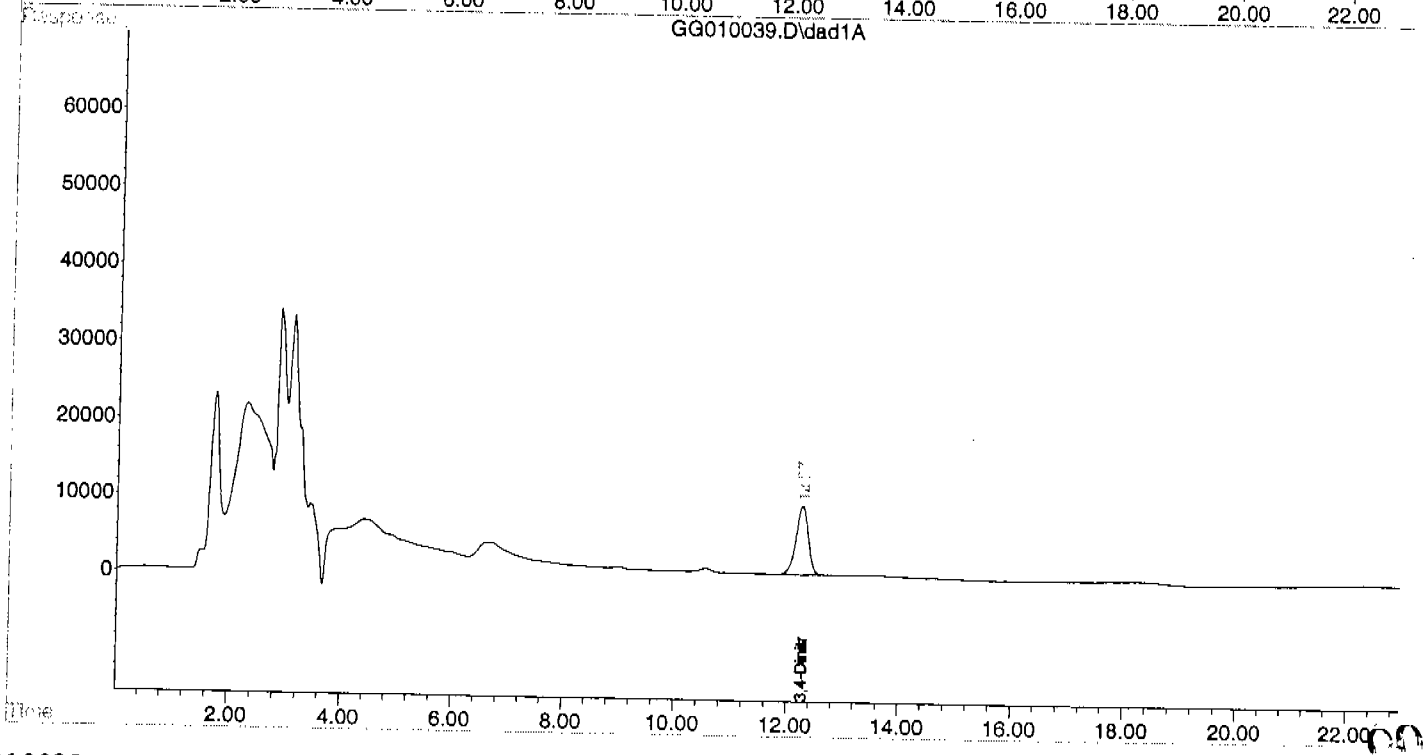
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010039.D\dad1B.ch Vial: 14
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010039.D\dad1A.ch
Acq On : 24-Aug-2004, 20:59:51 Operator: MIKEE
Sample : F25991-2 Inst : G1315B
Misc : op11097,ggg474,940,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:12 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-653-LAKEVIEW DR		
Lab Sample ID:	F25991-2	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000693.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.1	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	86%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000693.D\dad1B.ch Vial: 13
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000693.D\dad1A.ch
Acq On : 24-Aug-2004, 10:58:43 Operator: MIKEE
Sample : F25991-2 Inst : G1315B
Misc : op11098,gpp27,940,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 14:10 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.62	916939	213.941 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	85.58%
5) S 3,4-Dinitrotoluene #2	3.62	453076	203.946 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	81.58%
Target Compounds			
1) Nitroglycerin	0.00	0	N.D. ppb
3) PETN	0.00	0	N.D. ppb

MR 8/24/04

0041

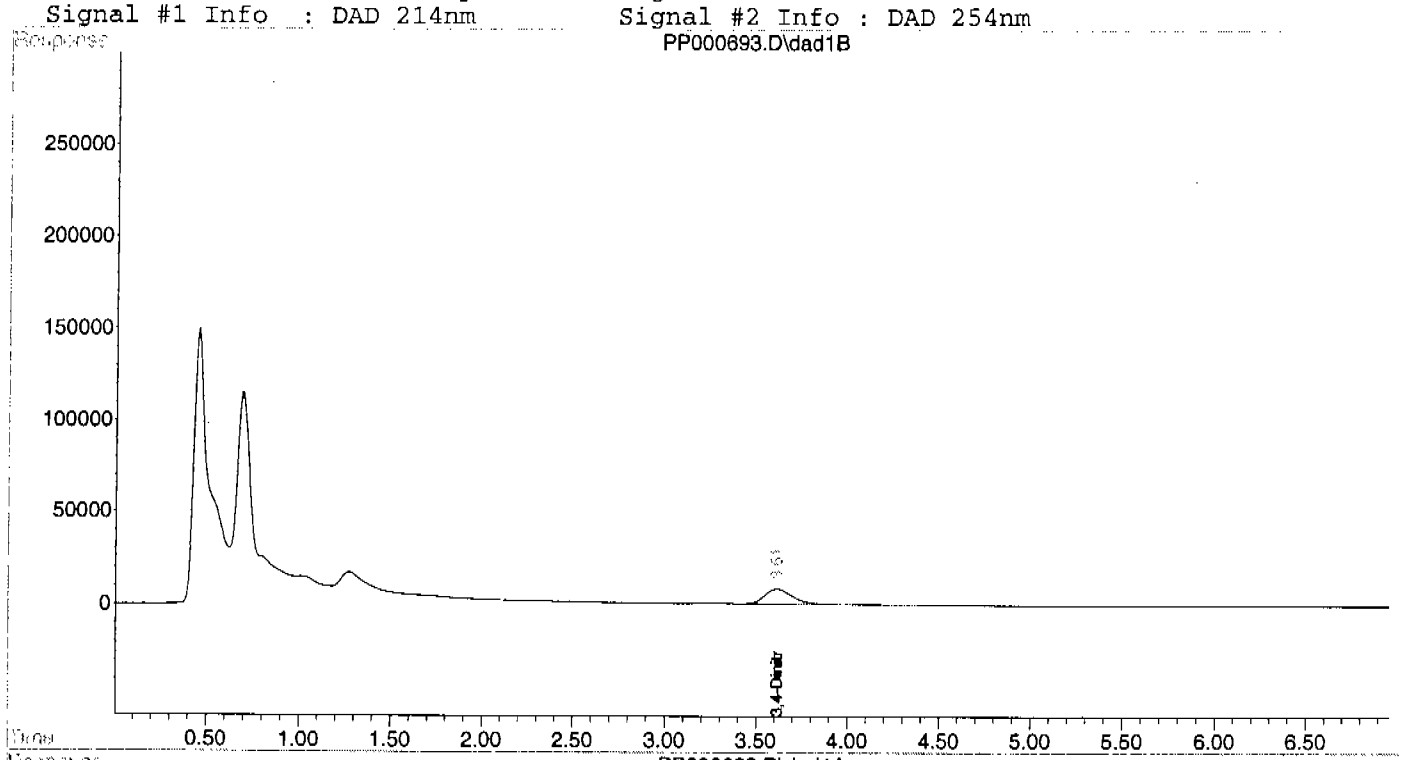
(f)=RT Delta > 1/2 Window (m)=manual int.

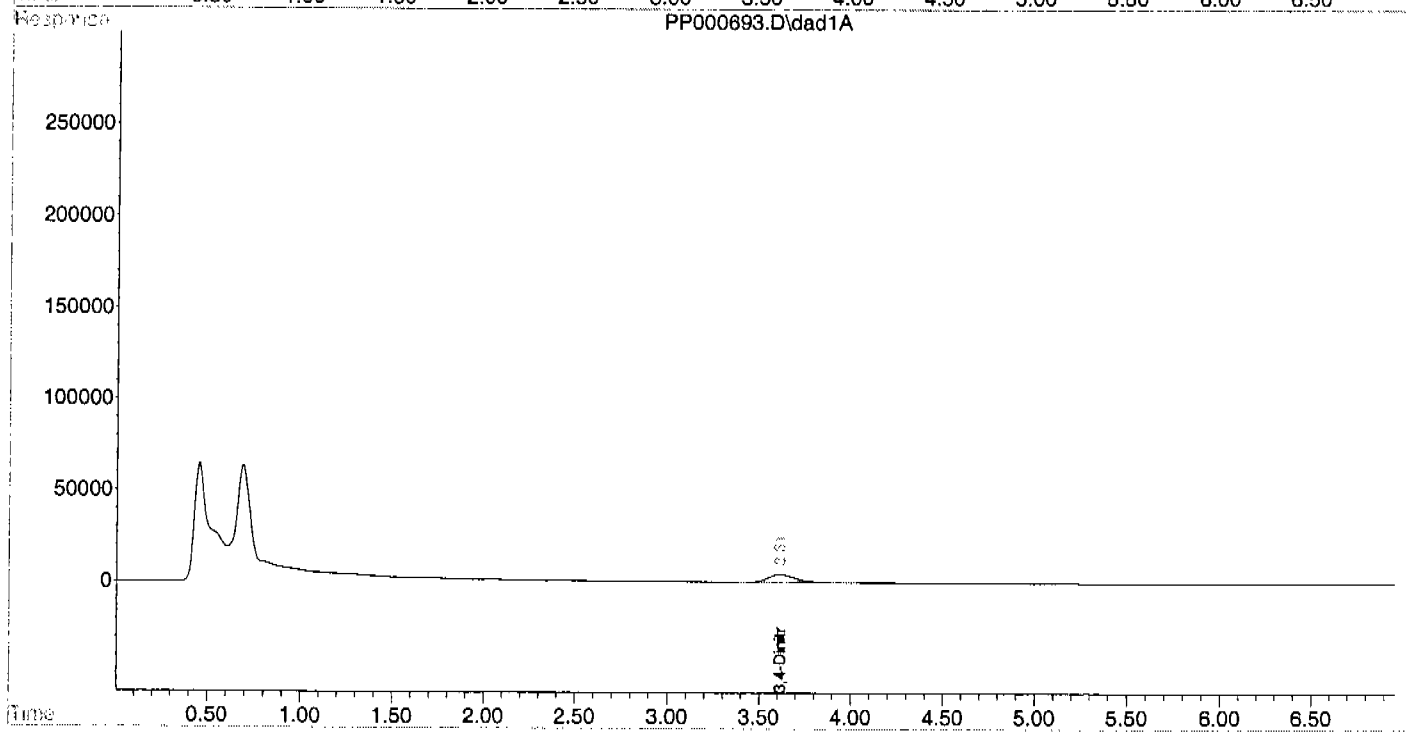
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000693.D\dad1B.ch Vial: 13
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000693.D\dad1A.ch
Acq On : 24-Aug-2004, 10:58:43 Operator: MIKEE
Sample : F25991-2 Inst : G1315B
Misc : op11098,gpp27,940,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 14:10 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-652-LAKEVIEW DR		
Lab Sample ID:	F25991-3	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010040.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.22	0.081	ug/l	
121-82-4	RDX	ND	0.22	0.081	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.22	0.054	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.22	0.054	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
98-95-3	Nitrobenzene	ND	0.22	0.054	ug/l	
88-72-2	o-Nitrotoluene	ND	0.22	0.054	ug/l	
99-08-1	m-Nitrotoluene	ND	0.22	0.054	ug/l	
99-99-0	p-Nitrotoluene	ND	0.22	0.081	ug/l	
479-45-8	Tetryl	ND	0.22	0.081	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.22	0.054	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.22	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	83%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010040.D\dad1B.ch Vial: 15
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010040.D\dad1A.ch
Acq On : 24-Aug-2004, 21:25:23 Operator: MIKEE
Sample : F25991-3 Inst : G1315B
Misc : op11097,ggg474,930,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:12 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.49	12.49	960302	1326241	207.944	209.622
	Spiked Amount 250.000 Range 61 - 124 Recovery =					83.18%	83.85%
	Target Compounds						
1)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
2)	RDX	0.00	0.00	0	0	N.D.	N.D.
3)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D.	N.D.
4)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D.	N.D.
5)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
6)	Nitrobenzene	0.00	0.00	0	0	N.D.	N.D.
8)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D.	N.D.
9)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
10)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D.	N.D.
11)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
12)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
13)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
14)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
15)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.

KWB 8/25/04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010040.D 8330_EX2.M Wed Aug 25 08:11:00 2004

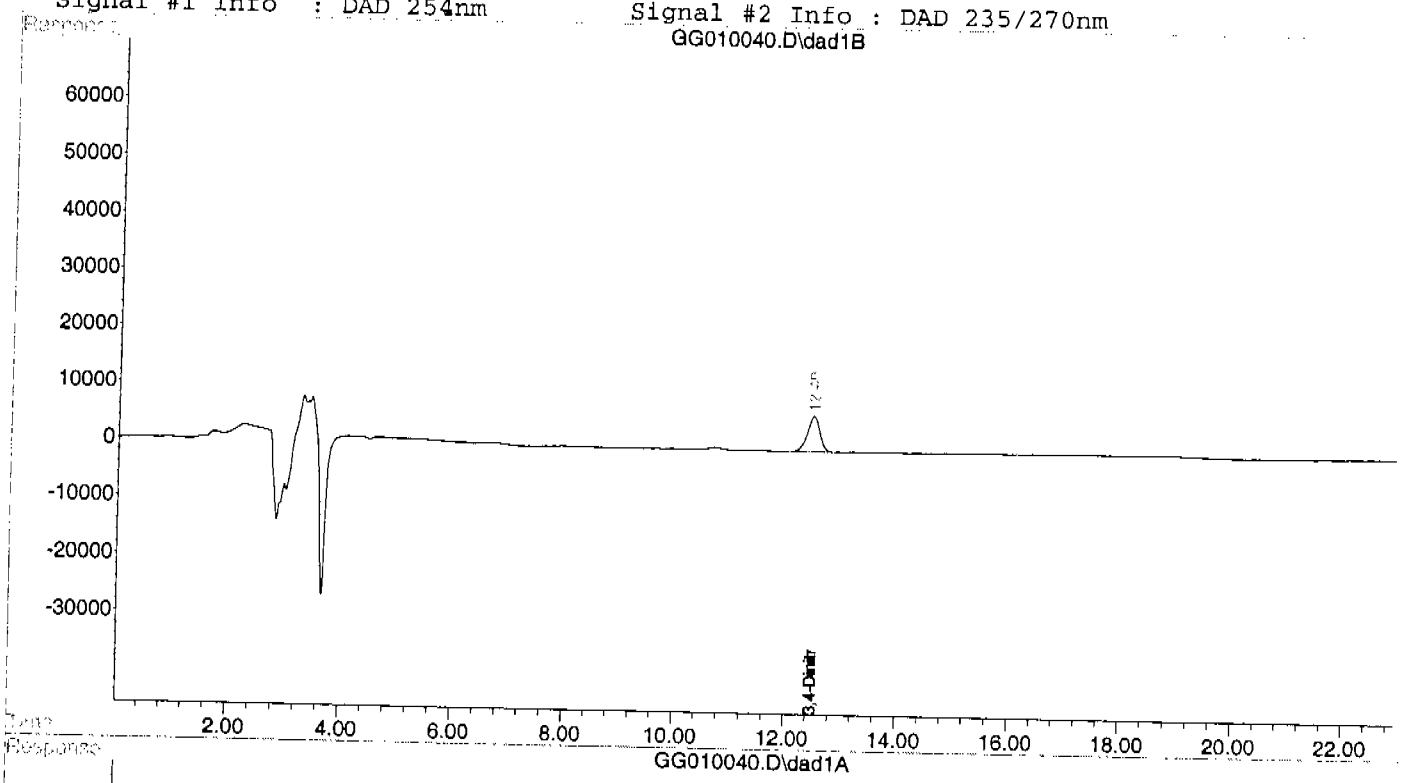
0047

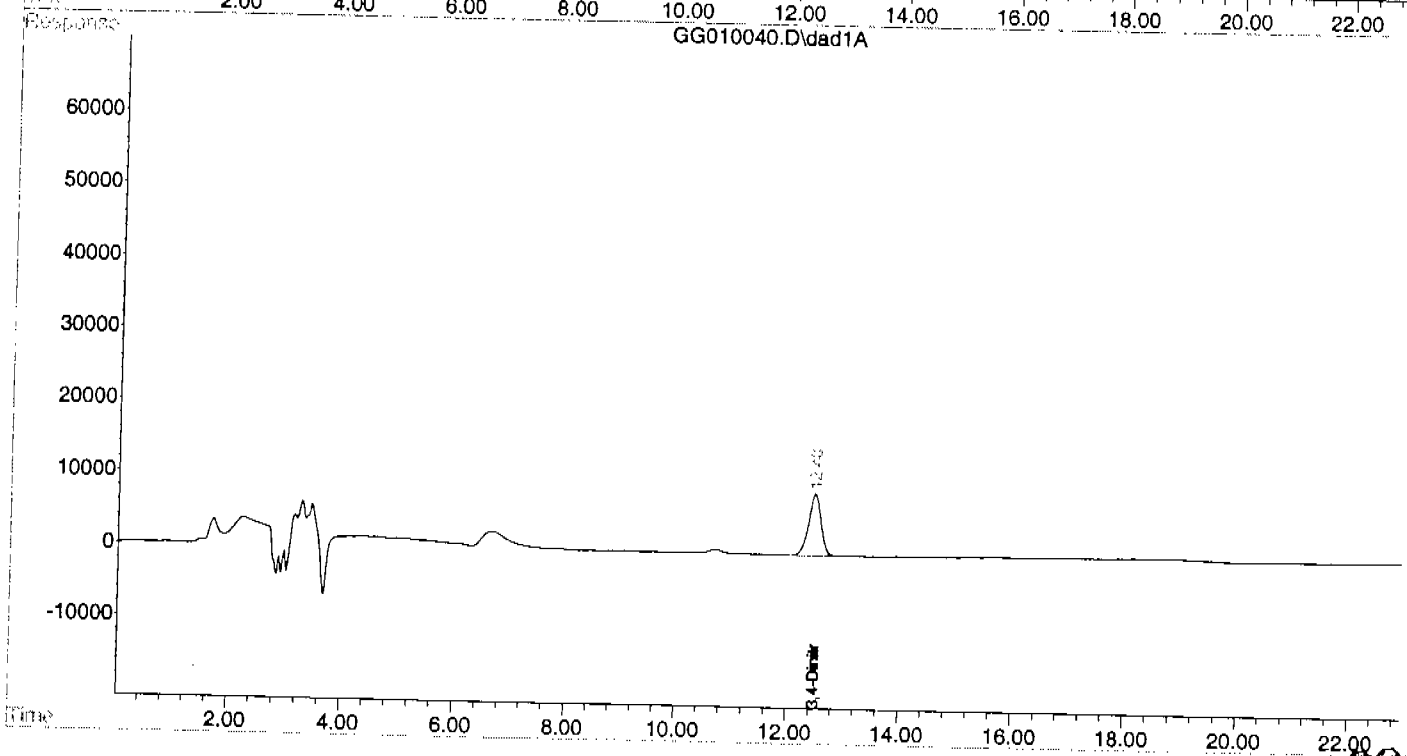
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010040.D\dad1B.ch Vial: 15
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010040.D\dad1A.ch
Acq On : 24-Aug-2004, 21:25:23 Operator: MIKEE
Sample : F25991-3 Inst : G1315B
Misc : op11097,ggg474,930,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:12 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-652-LAKEVIEW DR		
Lab Sample ID:	F25991-3	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000694.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.2	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	84%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000694.D\dad1B.ch Vial: 14
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000694.D\dad1A.ch
Acq On : 24-Aug-2004, 11:07:14 Operator: MIKEE
Sample : F25991-3 Inst : G1315B
Misc : op11098,gpp27,930,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:07 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.62	903682	210.848 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	84.34%
5) S 3,4-Dinitrotoluene #2	3.62	451602	203.283 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	81.31%
Target Compounds			
1) Nitroglycerin	0.00	0	N.D. ppb
3) PETN	0.00	0	N.D. ppb

MKE 8/24/04

0047

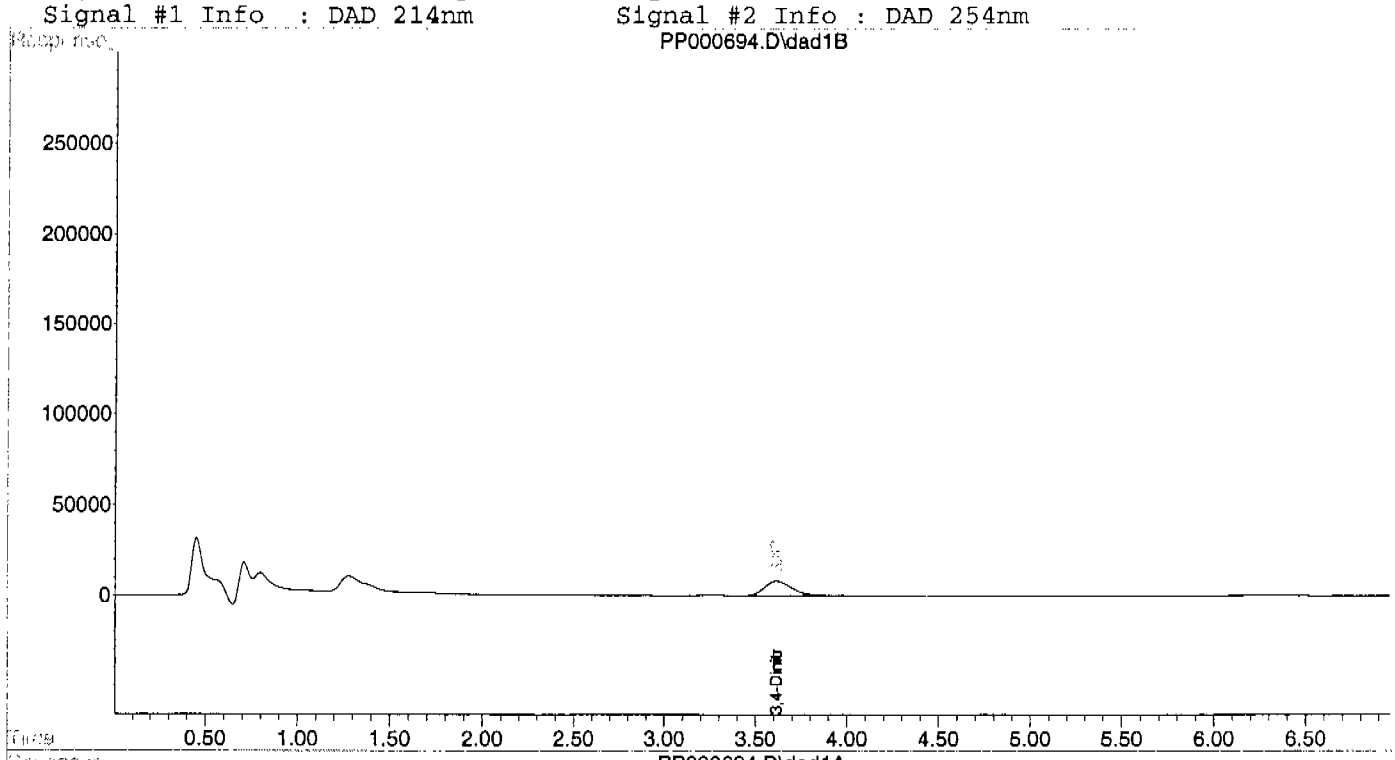
(f)=RT Delta > 1/2 Window (m)=manual int.

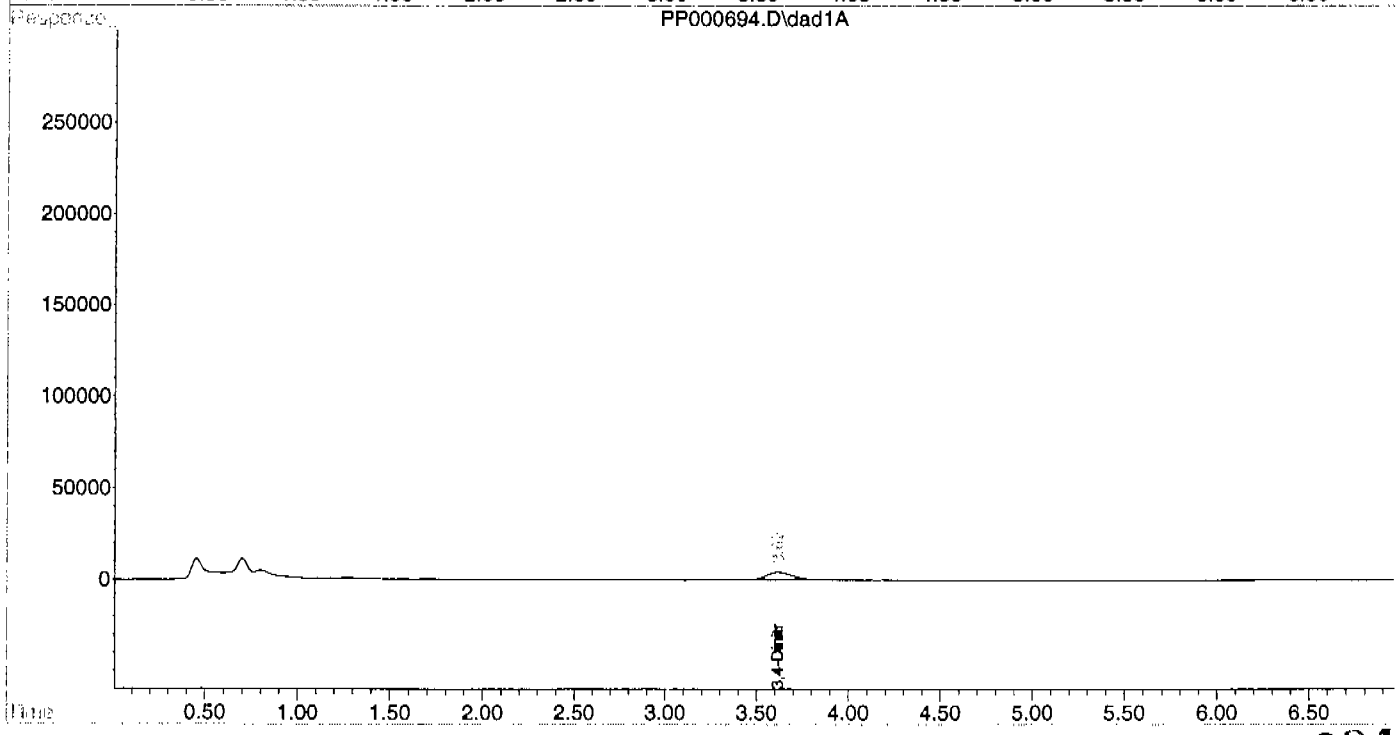
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000694.D\dad1B.ch Vial: 14
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000694.D\dad1A.ch
Acq On : 24-Aug-2004, 11:07:14 Operator: MIKEE
Sample : F25991-3 Inst : G1315B
Misc : op11098,gpp27,930,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:07 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-3536-FLETCHERS WAY		
Lab Sample ID:	F25991-4	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010041.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.22	0.082	ug/l	
121-82-4	RDX	ND	0.22	0.082	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.22	0.055	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.22	0.055	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.22	0.055	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.22	0.055	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.22	0.055	ug/l	
98-95-3	Nitrobenzene	ND	0.22	0.055	ug/l	
88-72-2	o-Nitrotoluene	ND	0.22	0.055	ug/l	
99-08-1	m-Nitrotoluene	ND	0.22	0.055	ug/l	
99-99-0	p-Nitrotoluene	ND	0.22	0.082	ug/l	
479-45-8	Tetryl	ND	0.22	0.082	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.22	0.055	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.22	0.055	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	90%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010041.D\dad1B.ch Vial: 16
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010041.D\dad1A.ch
Acq On : 24-Aug-2004, 21:50:52 Operator: MIKEE
Sample : F25991-4 Inst : G1315B
Misc : op11097,ggg474,910,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:13 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.32	12.32	1035317	1440986	224.188	227.758
	Spiked Amount 250.000 Range 61 - 124 Recovery =					89.68%	91.10%
	Target Compounds						
1)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
2)	RDX	0.00	0.00	0	0	N.D.	N.D.
3)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D.	N.D.
4)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D.	N.D.
5)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
6)	Nitrobenzene	0.00	0.00	0	0	N.D.	N.D.
8)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D.	N.D.
9)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
10)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D.	N.D.
11)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
12)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
13)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
14)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
15)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.

MDB 8/25/04

0050

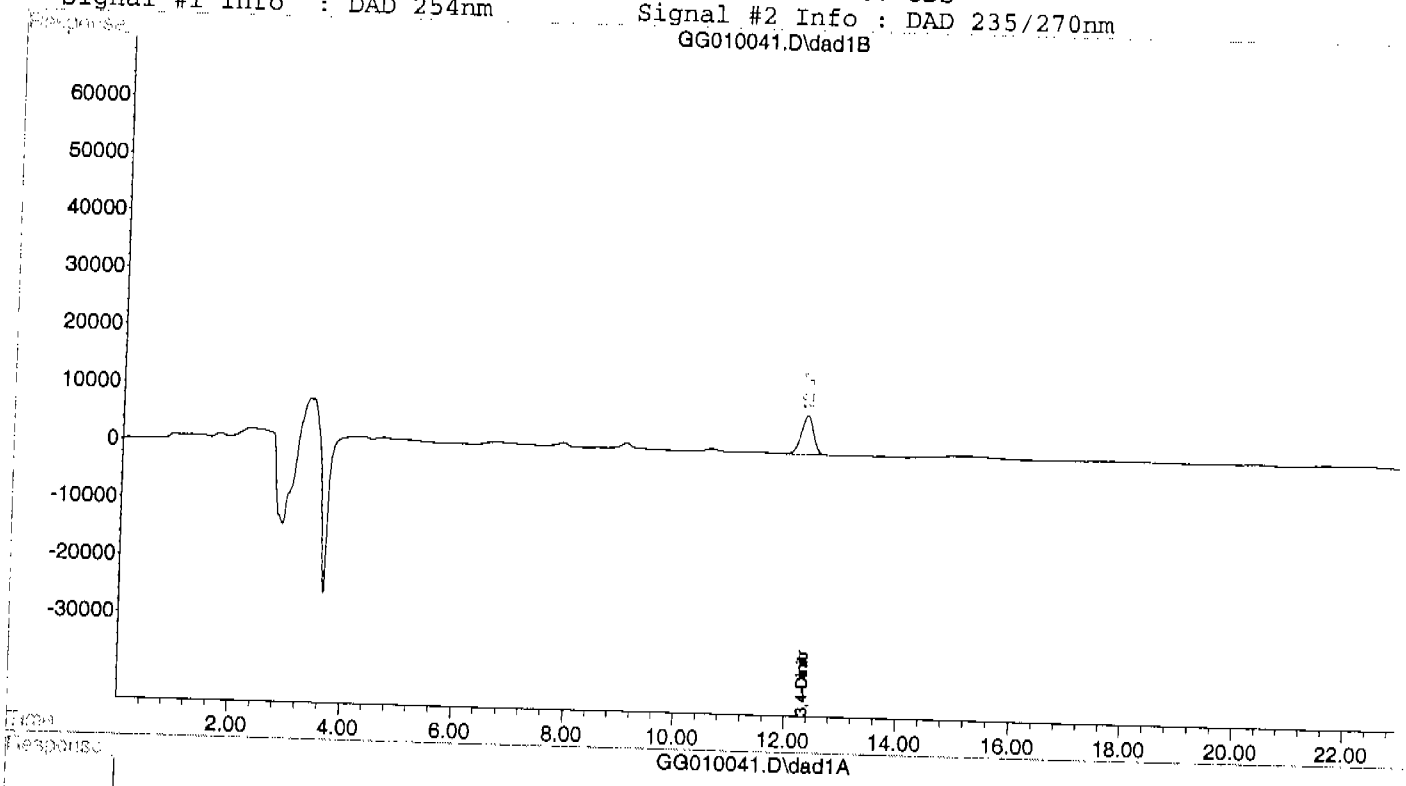
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

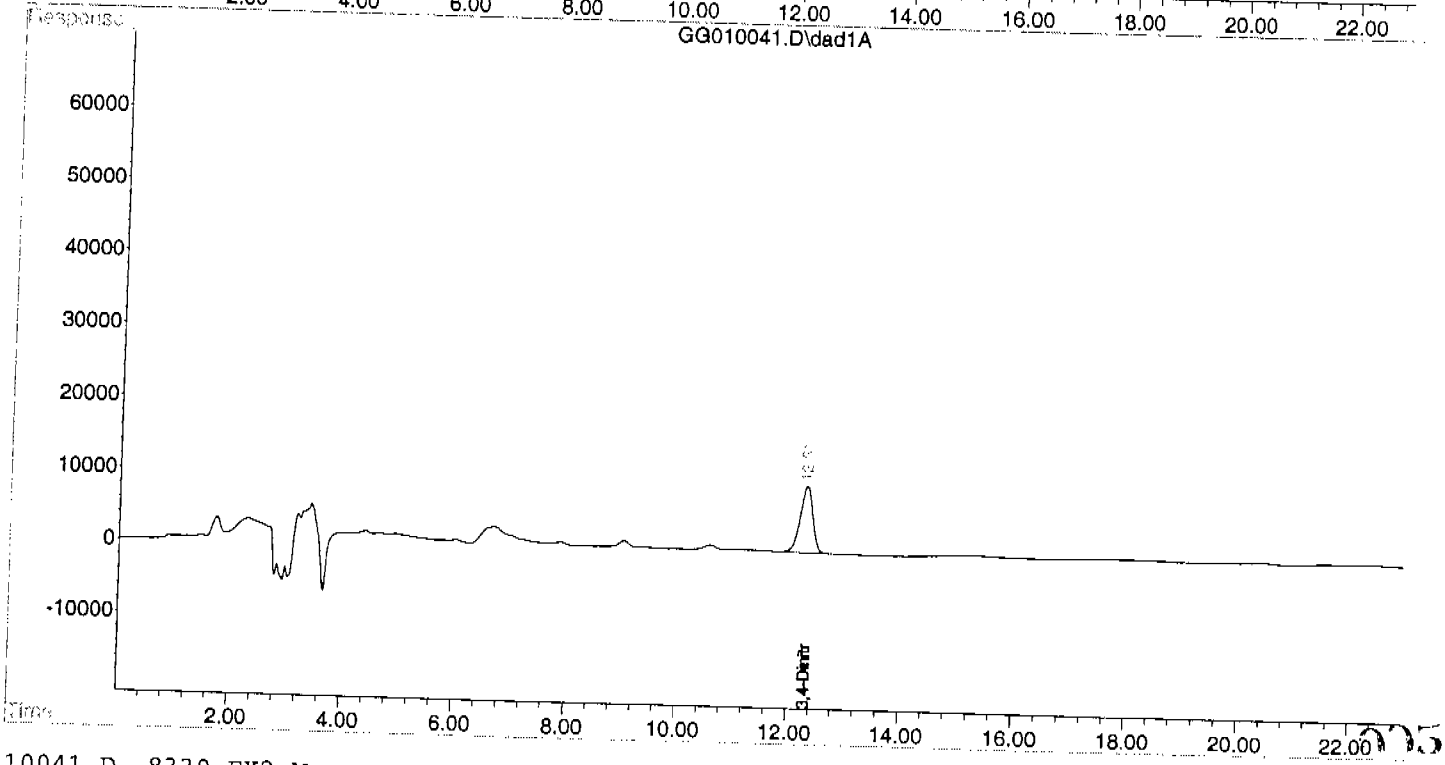
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010041.D\dad1B.ch Vial: 16
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010041.D\dad1A.ch
Acq On : 24-Aug-2004, 21:50:52
Sample : F25991-4 Operator: MIKEE
Misc : op11097,ggg474,910,,,10,,water Inst : G1315B
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e Multiplr: 1.00
Quant Time: Aug 25 8:13 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-3536-FLETCHERS WAY		
Lab Sample ID:	F25991-4	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000695.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.2	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	91%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000695.D\dad1B.ch Vial: 15
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000695.D\dad1A.ch
Acq On : 24-Aug-2004, 11:15:45 Operator: MIKEE
Sample : F25991-4 Inst : G1315B
Misc : op11098,gpp27,910,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 14:32 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.62	978403	228.282 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	91.31%
5) S 3,4-Dinitrotoluene #2	3.62	491548	221.264 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	88.51%
Target Compounds			
1) Nitroglycerin	0.00	0	N.D. ppb
3) PETN	0.00	0	N.D. ppb

MPh 8/24/04

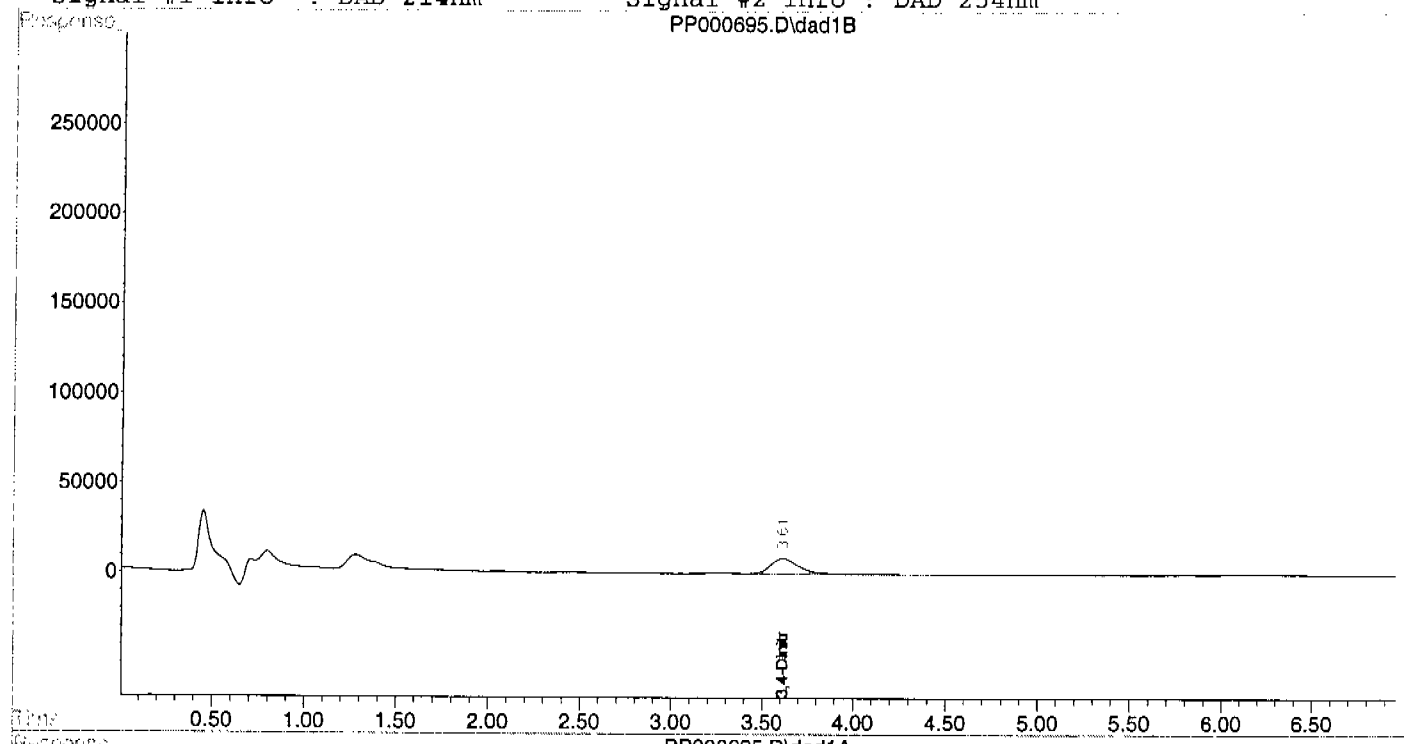
(f)=RT Delta > 1/2 Window (m)=manual int.

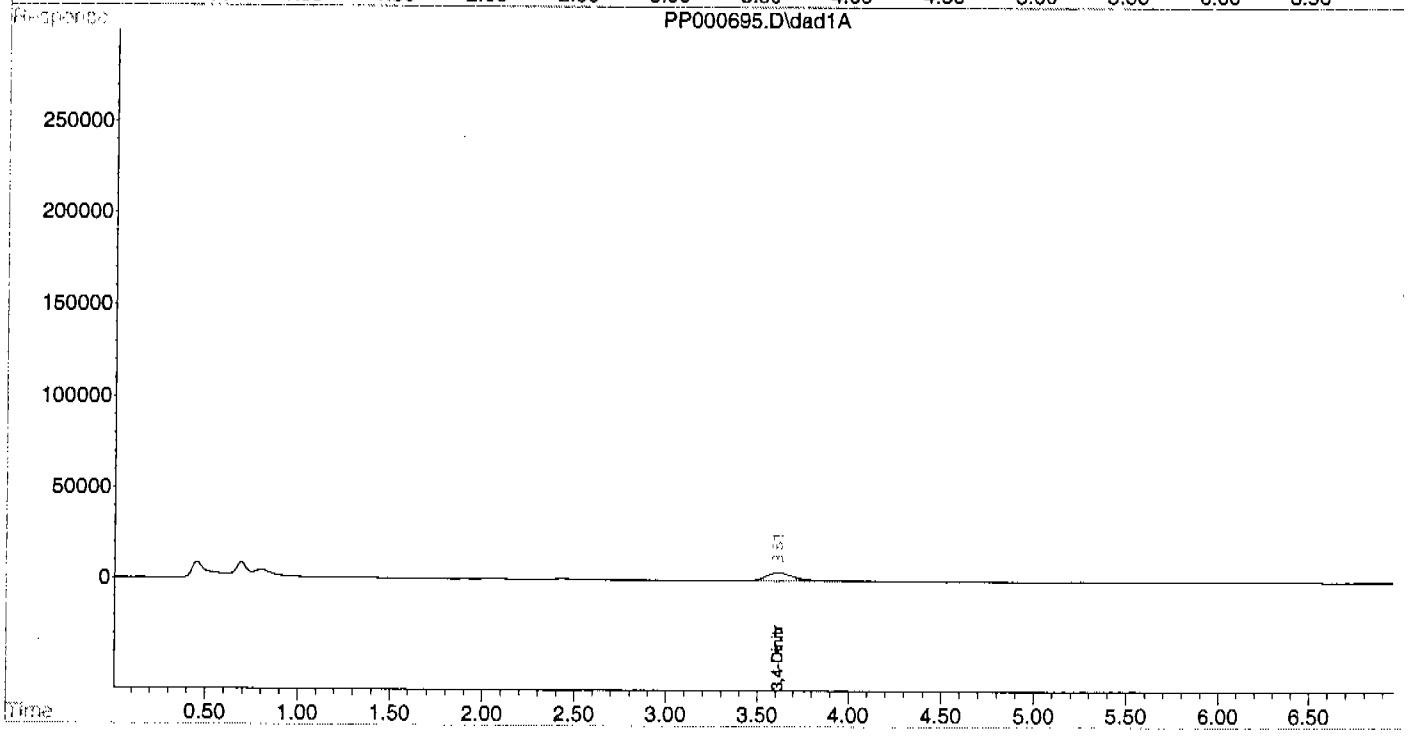
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000695.D\dad1B.ch Vial: 15
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000695.D\dad1A.ch
Acq On : 24-Aug-2004, 11:15:45 Operator: MIKEE
Sample : F25991-4 Inst : G1315B
Misc : op11098,gpp27,910,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 14:32 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-NCNG		
Lab Sample ID:	F25991-5	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010044.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.22	0.082	ug/l	
121-82-4	RDX	ND	0.22	0.082	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.22	0.054	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.22	0.054	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
98-95-3	Nitrobenzene	ND	0.22	0.054	ug/l	
88-72-2	o-Nitrotoluene	ND	0.22	0.054	ug/l	
99-08-1	m-Nitrotoluene	ND	0.22	0.054	ug/l	
99-99-0	p-Nitrotoluene	ND	0.22	0.082	ug/l	
479-45-8	Tetryl	ND	0.22	0.082	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.22	0.054	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.22	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	93%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010044.D\dad1B.ch Vial: 19
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010044.D\dad1A.ch
Acq On : 24-Aug-2004, 23:07:32 Operator: MIKEE
Sample : F25991-5 Inst : G1315B
Misc : op11097,ggg474,920,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:14 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.40	12.40	1072224	1459606	232.180	230.701
	Spiked Amount 250.000	Range	61 - 124	Recovery	=	92.87%	92.28%
	Target Compounds						
1)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
2)	RDX	0.00	0.00	0	0	N.D.	N.D.
3)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D.	N.D.
4)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D.	N.D.
5)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
6)	Nitrobenzene	0.00	0.00	0	0	N.D.	N.D.
8)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D.	N.D.
9)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
10)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D.	N.D.
11)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
12)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
13)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
14)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
15)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.

MB 8/25/04

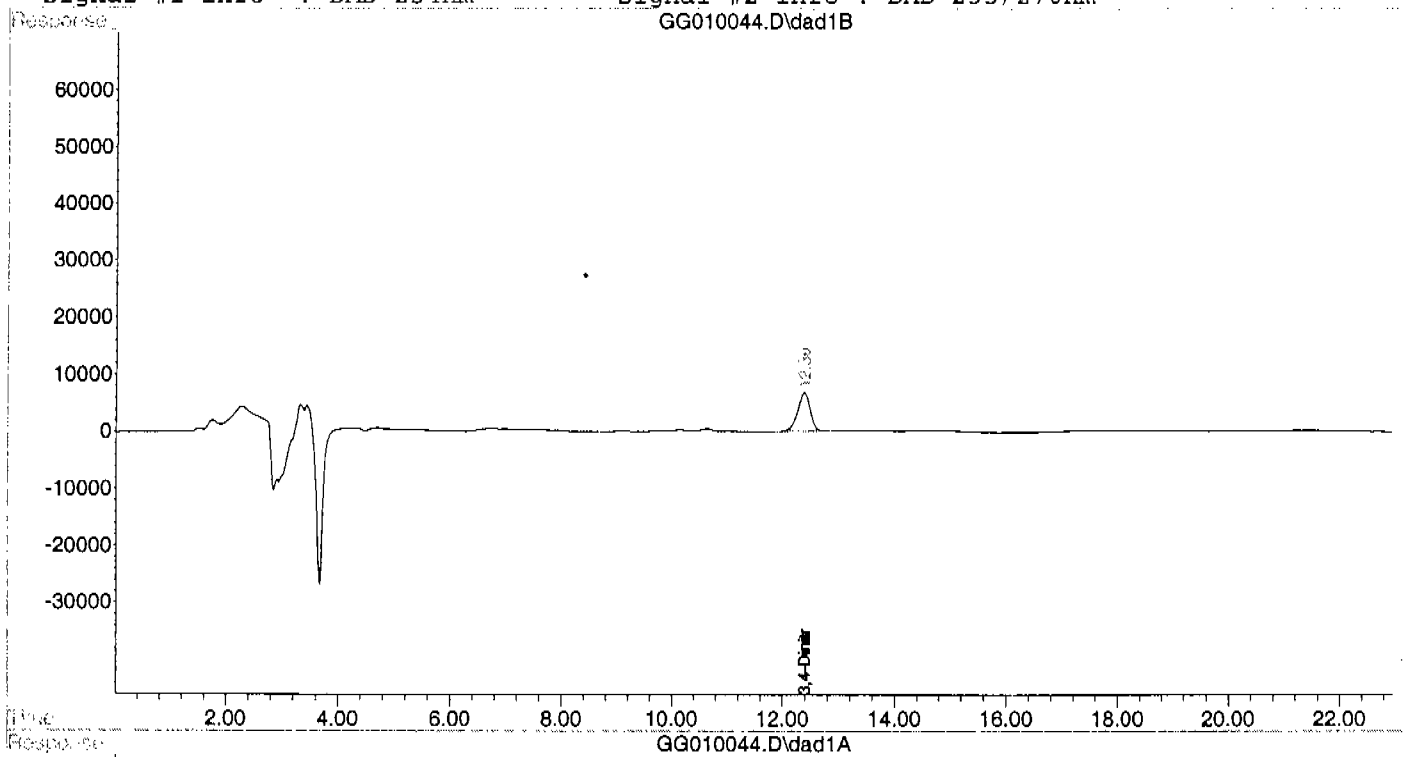
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

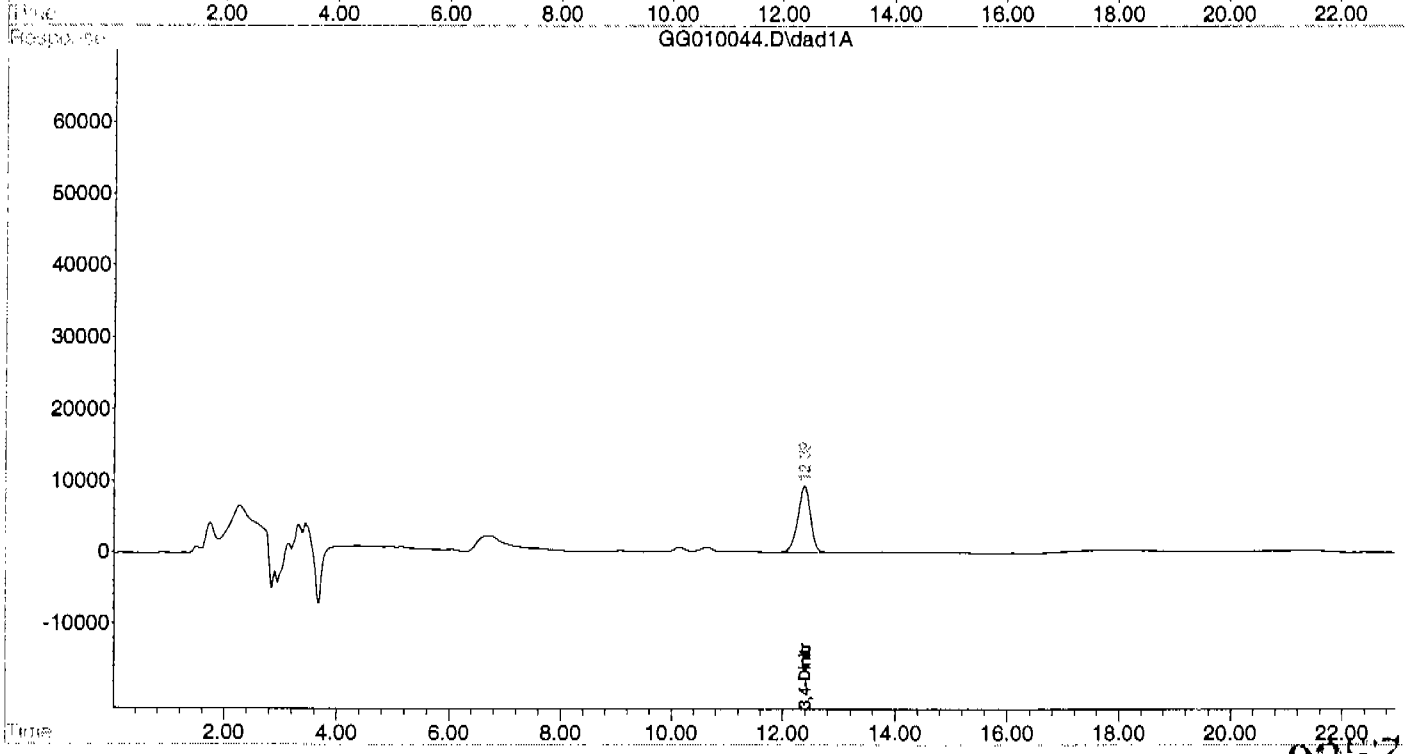
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010044.D\dad1B.ch Vial: 19
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010044.D\dad1A.ch
Acq On : 24-Aug-2004, 23:07:32 Operator: MIKEE
Sample : F25991-5 Inst : G1315B
Misc : op11097,ggg474,920,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:14 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-NCNG		
Lab Sample ID:	F25991-5	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000696.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.2	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	93%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000696.D\dad1B.ch Vial: 16
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000696.D\dad1A.ch
Acq On : 24-Aug-2004, 11:24:15 Operator: MIKEE
Sample : F25991-5 Inst : G1315B
Misc : op11098,gpp27,920,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:08 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.61	999171	233.127 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	93.25%
5) S 3,4-Dinitrotoluene #2	3.61	484562	218.119 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	87.25%
Target Compounds			
1) Nitroglycerin	0.00	0	N.D. ppb
3) PETN	0.00	0	N.D. ppb

MKH 8/24/04

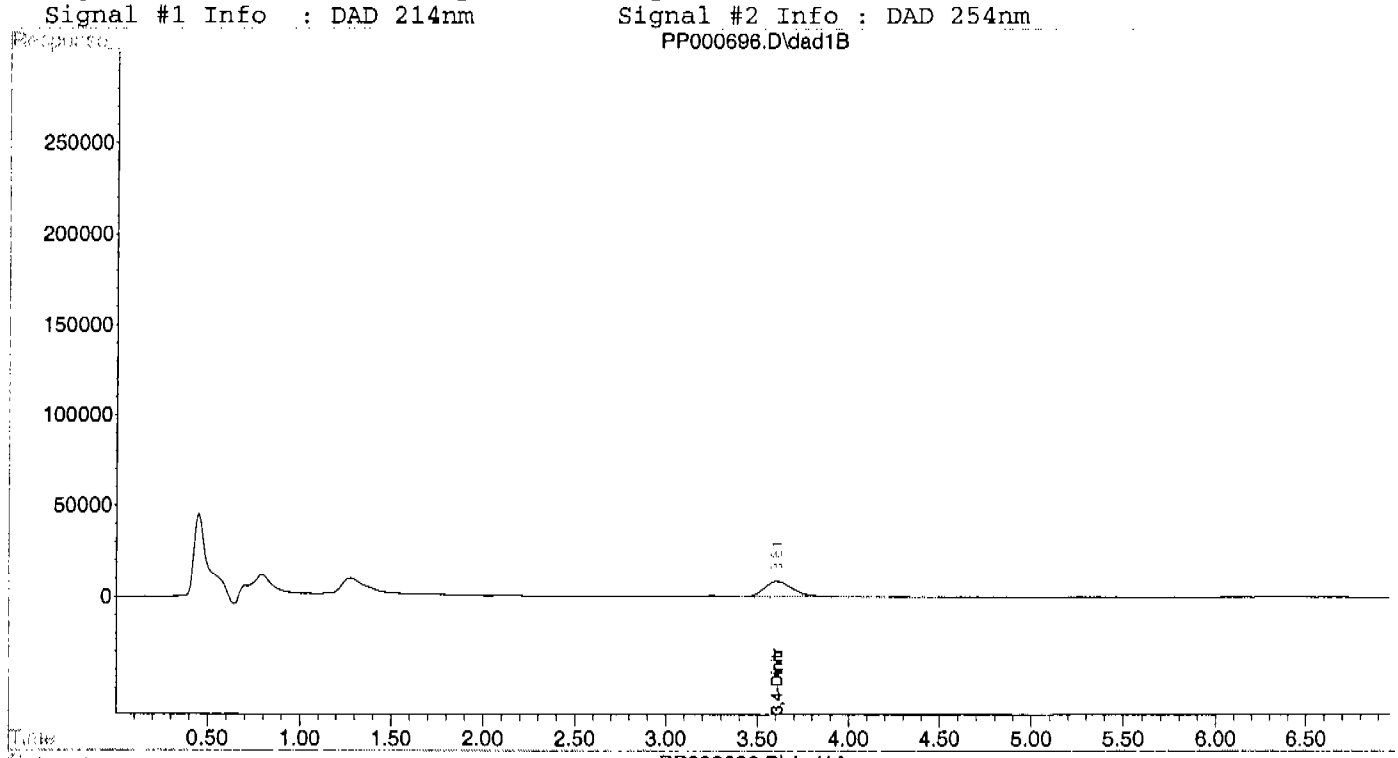
(f)=RT Delta > 1/2 Window (m)=manual int.

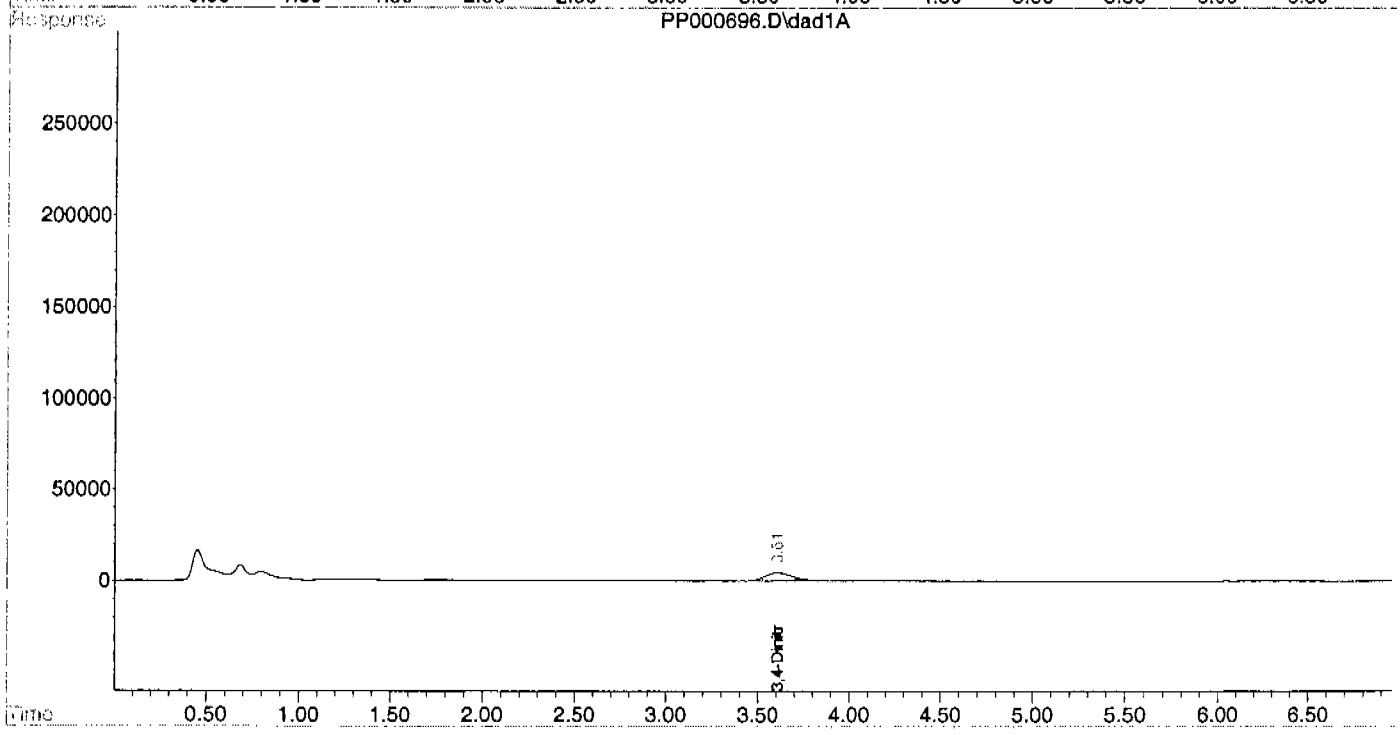
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000696.D\dad1B.ch Vial: 16
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000696.D\dad1A.ch
Acq On : 24-Aug-2004, 11:24:15 Operator: MIKEE
Sample : F25991-5 Inst : G1315B
Misc : op11098,gpp27,920,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:08 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-FIELDDUP1		
Lab Sample ID:	F25991-6	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG010045.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.22	0.082	ug/l	
121-82-4	RDX	ND	0.22	0.082	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.22	0.054	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.22	0.054	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.22	0.054	ug/l	
98-95-3	Nitrobenzene	ND	0.22	0.054	ug/l	
88-72-2	o-Nitrotoluene	ND	0.22	0.054	ug/l	
99-08-1	m-Nitrotoluene	ND	0.22	0.054	ug/l	
99-99-0	p-Nitrotoluene	ND	0.22	0.082	ug/l	
479-45-8	Tetryl	ND	0.22	0.082	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.22	0.054	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.22	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	82%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010045.D\dad1B.ch Vial: 20
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010045.D\dad1A.ch
Acq On : 24-Aug-2004, 23:33:04 Operator: MIKEE
Sample : F25991-6 Inst : G1315B
Misc : op11097,ggg474,920,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:14 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.27	12.27	949129	1326014	205.525	209.586
	Spiked Amount 250.000	Range	61 - 124	Recovery	=	82.21%	83.83%
	Target Compounds						
1)	HMX	0.00	0.00	0	0	N.D.	N.D.
2)	RDX	0.00	0.00	0	0	N.D.	N.D.
3)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D.	N.D.
4)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D.	N.D.
5)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
6)	Nitrobenzene	0.00	0.00	0	0	N.D.	N.D.
8)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D.	N.D.
9)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
10)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D.	N.D.
11)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
12)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
13)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
14)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
15)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.

MEK 8/25/04

0062

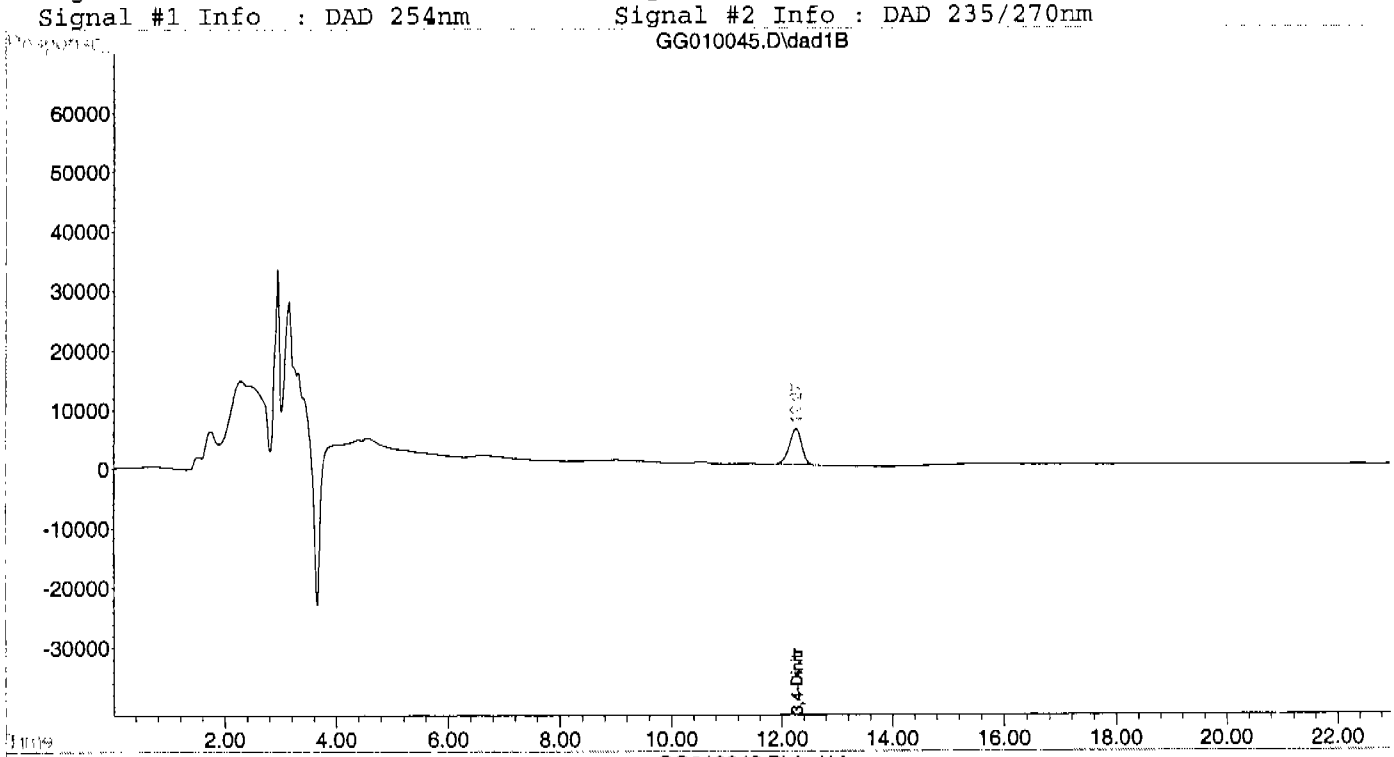
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

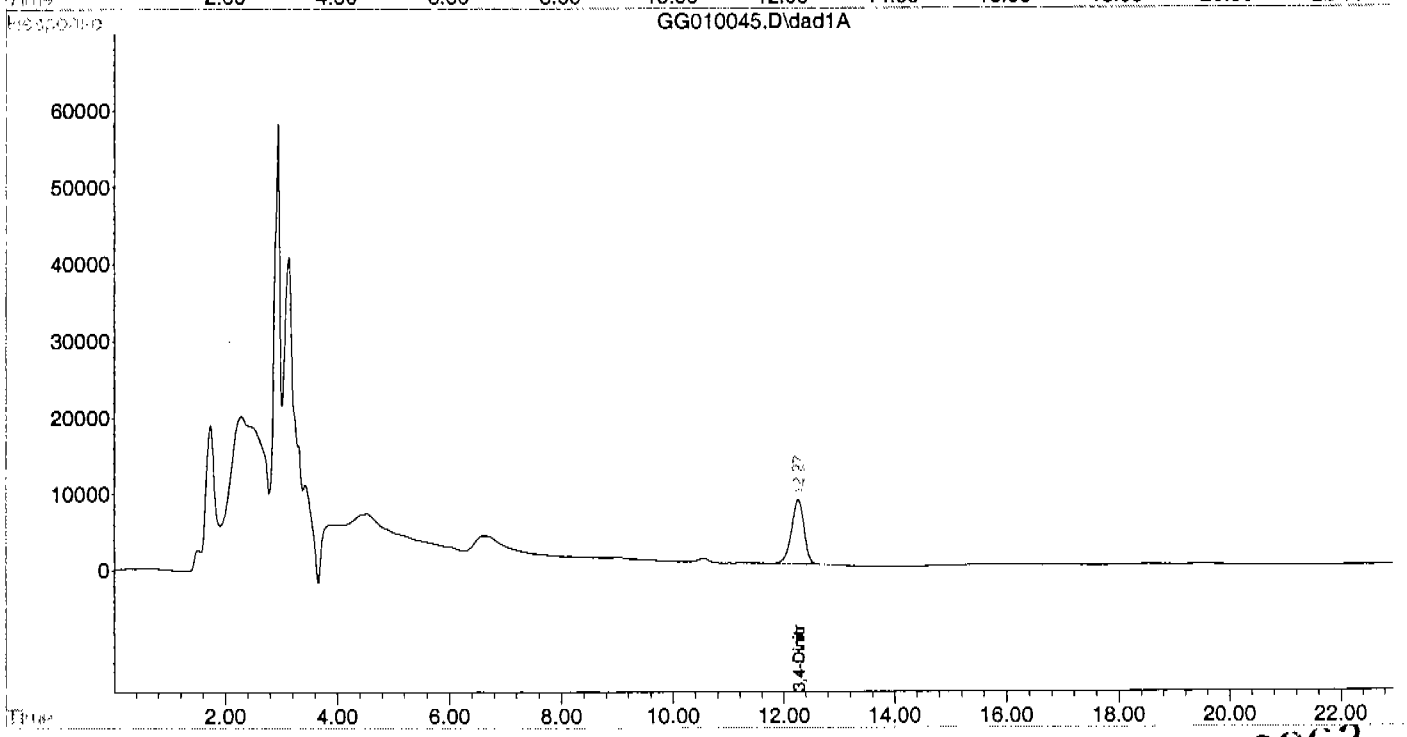
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010045.D\dad1B.ch Vial: 20
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010045.D\dad1A.ch
Acq On : 24-Aug-2004, 23:33:04 Operator: MIKEE
Sample : F25991-6 Inst : G1315B
Misc : op11097,ggg474,920,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:14 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Accutest Laboratories

Report of Analysis

Client Sample ID:	RW0804-FIELDDUP1		
Lab Sample ID:	F25991-6	**Date Sampled:**	08/09/04
Matrix:	AQ - Ground Water	**Date Received:**	08/11/04
Method:	SW846 8332 SW846 3535A	**Percent Solids:**	n/a
Project:	Former Camp Butner		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP000699.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.2	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	79%		61-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000699.D\dad1B.ch Vial: 19
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000699.D\dad1A.ch
Acq On : 24-Aug-2004, 11:49:46 Operator: MIKEE
Sample : F25991-6 Inst : G1315B
Misc : op11098,gpp27,920,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:09 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.62	845286	197.223 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	78.89%
5) S 3,4-Dinitrotoluene #2	3.61	428885	193.057 ppb m
Spiked Amount 250.000 Range 61 - 124		Recovery =	77.22%
Target Compounds			
1) Nitroglycerin	0.00	0	N.D. ppb
3) PETN	0.00	0	N.D. ppb

op

MKK 8/24/04

SW 8-24-04

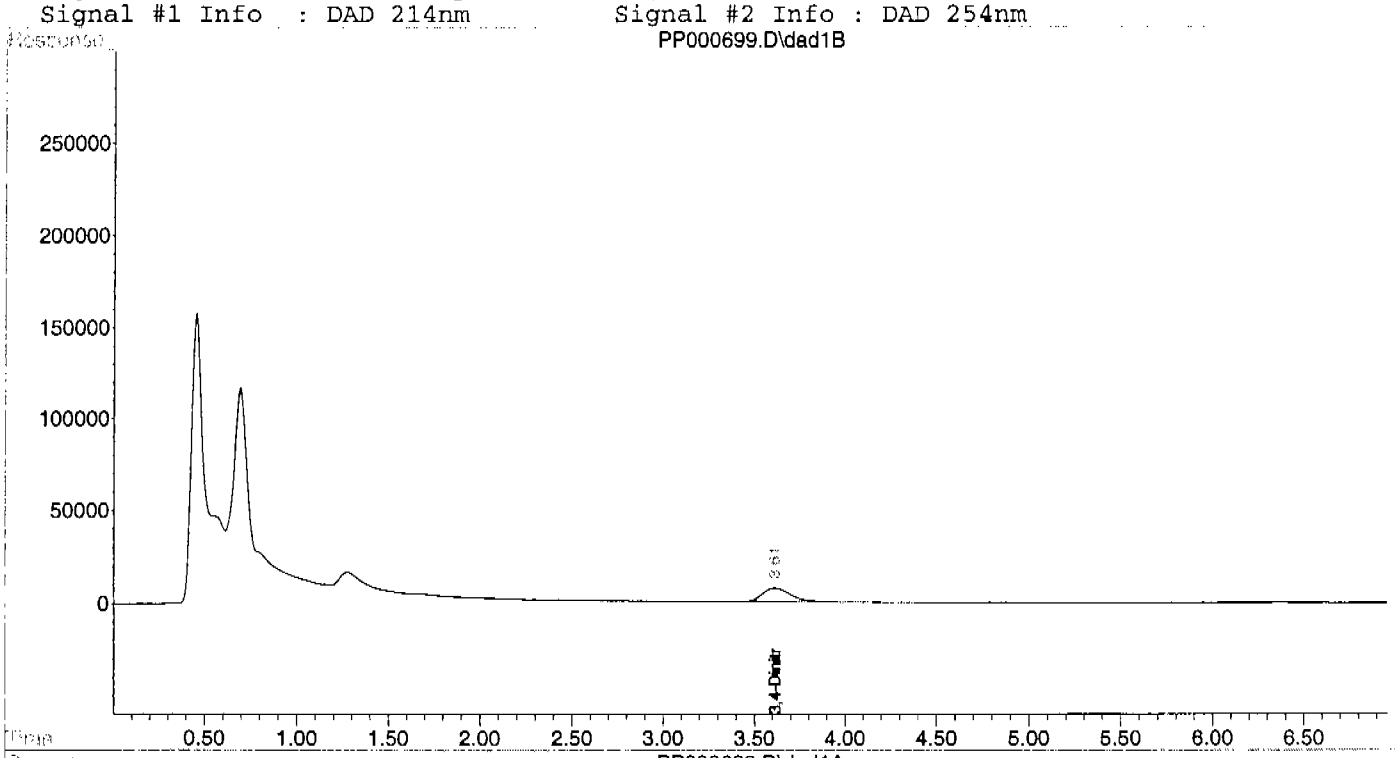
(f)=RT Delta > 1/2 Window (m)=manual int.

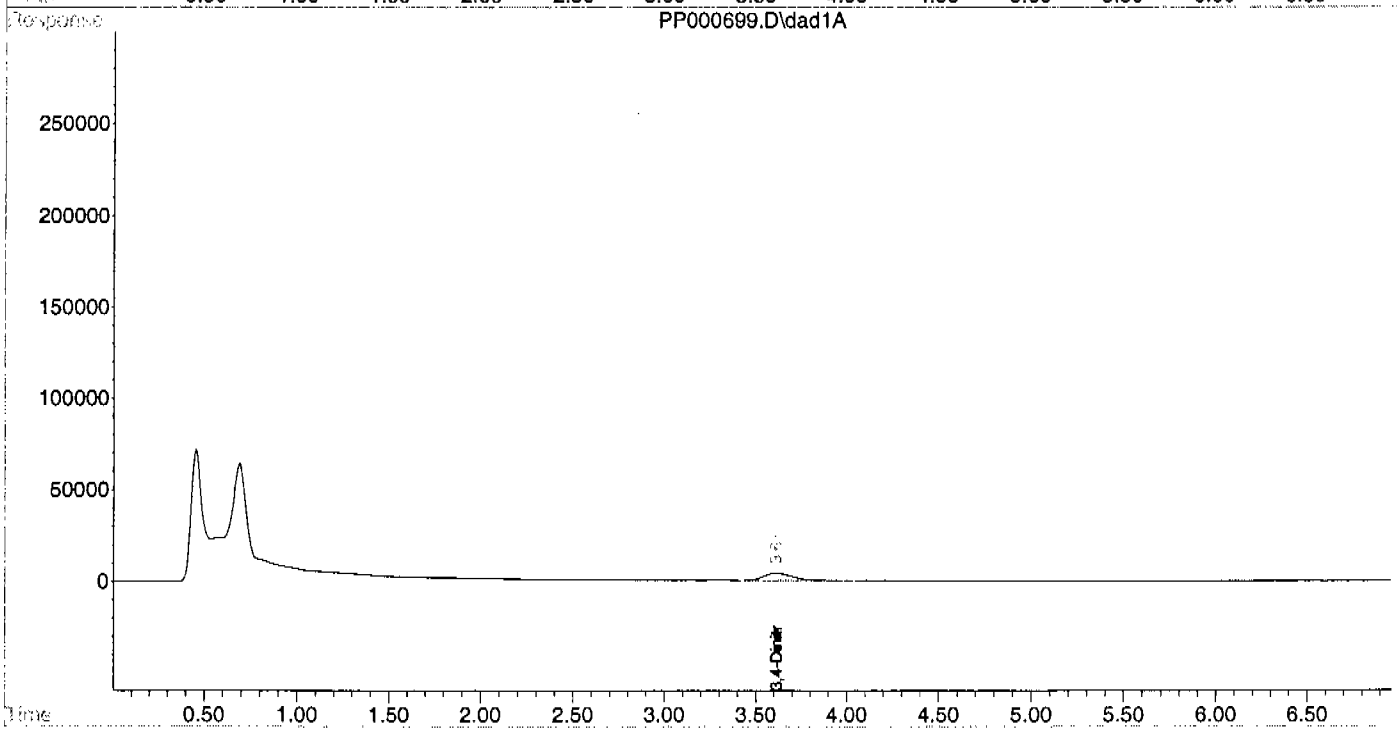
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000699.D\dad1B.ch Vial: 19
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000699.D\dad1A.ch
Acq On : 24-Aug-2004, 11:49:46 Operator: MIKEE
Sample : F25991-6 Inst : G1315B
Misc : op11098,gpp27,920,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:09 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





SURROGATE RECOVERIES SUMMARY

SGC.02

Semivolatile Surrogate Recovery Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Method: SW846 8330A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F25991-1	GG010038.D	103.0
F25991-2	GG010039.D	86.0
F25991-3	GG010040.D	83.0
F25991-4	GG010041.D	90.0
F25991-5	GG010044.D	93.0
F25991-6	GG010045.D	82.0
OP11097-BS	GG010036.D	112.0
OP11097-MB	GG010037.D	111.0
OP11097-MS	GG010042.D	87.0
OP11097-MSD	GG010043.D	38.0*

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	61-124%

(a) Recovery from GC signal #1

Semivolatile Surrogate Recovery Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Method: SW846 8332 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F25991-1	PP000692.D	108.0
F25991-2	PP000693.D	86.0
F25991-3	PP000694.D	84.0
F25991-4	PP000695.D	91.0
F25991-5	PP000696.D	93.0
F25991-6	PP000699.D	79.0
OP11098-BS	PP000690.D	107.0
OP11098-MB	PP000691.D	116.0
OP11098-MS	PP000697.D	101.0
OP11098-MSD	PP000698.D	90.0

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	61-124%

(a) Recovery from GC signal #1

GC SURROGATE RETENTION TIME

SGC.03

GC Surrogate Retention Time Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Check Std:	GGG474-ICC474	**Injection Date:**	08/24/04
Lab File ID:	GG010031.D	**Injection Time:**	17:35
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT	S1 [b] RT
Check Std	12.35	12.35

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP11097-BS	GG010036.D	08/24/04	19:43	12.28	
OP11097-MB	GG010037.D	08/24/04	20:08	12.31	
F25991-1	GG010038.D	08/24/04	20:34	12.37	
F25991-2	GG010039.D	08/24/04	20:59	12.27	
F25991-3	GG010040.D	08/24/04	21:25	12.49	
F25991-4	GG010041.D	08/24/04	21:50	12.32	
OP11097-MS	GG010042.D	08/24/04	22:16	12.36	
OP11097-MSD	GG010043.D	08/24/04	22:41	12.36	
F25991-5	GG010044.D	08/24/04	23:07	12.40	
F25991-6	GG010045.D	08/24/04	23:33	12.27	
GGG474-ECC474	GG010046.D	08/24/04	23:58	12.36	12.36

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Check Std:	GPP27-ICC27	**Injection Date:**	08/24/04
Lab File ID:	PP000685.D	**Injection Time:**	09:49
Instrument ID:	GCPP	**Method:**	SW846 8332

	S1 [a] RT
Check Std	3.60

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP11098-BS	PP000690.D	08/24/04	10:33	3.61
OP11098-MB	PP000691.D	08/24/04	10:41	3.61
F25991-1	PP000692.D	08/24/04	10:50	3.61
F25991-2	PP000693.D	08/24/04	10:58	3.62
F25991-3	PP000694.D	08/24/04	11:07	3.62
F25991-4	PP000695.D	08/24/04	11:15	3.62
F25991-5	PP000696.D	08/24/04	11:24	3.61
OP11098-MS	PP000697.D	08/24/04	11:32	3.61
OP11098-MSD	PP000698.D	08/24/04	11:41	3.62
F25991-6	PP000699.D	08/24/04	11:49	3.62

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

METHOD BLANK SUMMARY

SGC.04

Method Blank Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11097-MB	GG010037.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474

The QC reported here applies to the following samples: **Method:** SW846 8330A

F25991-1, F25991-2, F25991-3, F25991-4, F25991-5, F25991-6

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.20	0.075	ug/l	
121-82-4	RDX	ND	0.20	0.075	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.20	0.050	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.20	0.050	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.20	0.050	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.20	0.050	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.20	0.050	ug/l	
98-95-3	Nitrobenzene	ND	0.20	0.050	ug/l	
88-72-2	o-Nitrotoluene	ND	0.20	0.050	ug/l	
99-08-1	m-Nitrotoluene	ND	0.20	0.050	ug/l	
99-99-0	p-Nitrotoluene	ND	0.20	0.075	ug/l	
479-45-8	Tetryl	ND	0.20	0.075	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.20	0.050	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.20	0.050	ug/l	

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	111%	61-124%

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010037.D\dad1B.ch Vial: 12
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010037.D\dad1A.ch
Acq On : 24-Aug-2004, 20:08:51 Operator: MIKEE
Sample : OP11097-MB Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:11 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.31	12.31	1278867	1632383	276.927m	258.010
	Spiked Amount 250.000	Range 61 - 124		Recovery	=	110.77%	103.20%
	Target Compounds						
1)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
2)	RDX	0.00	0.00	0	0	N.D.	N.D.
3)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D.	N.D.
4)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D.	N.D.
5)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
6)	Nitrobenzene	0.00	0.00	0	0	N.D.	N.D.
8)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D.	N.D.
9)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
10)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D.	N.D.
11)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
12)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
13)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
14)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
15)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.

@ 8/25/04

MKE 8/25/04

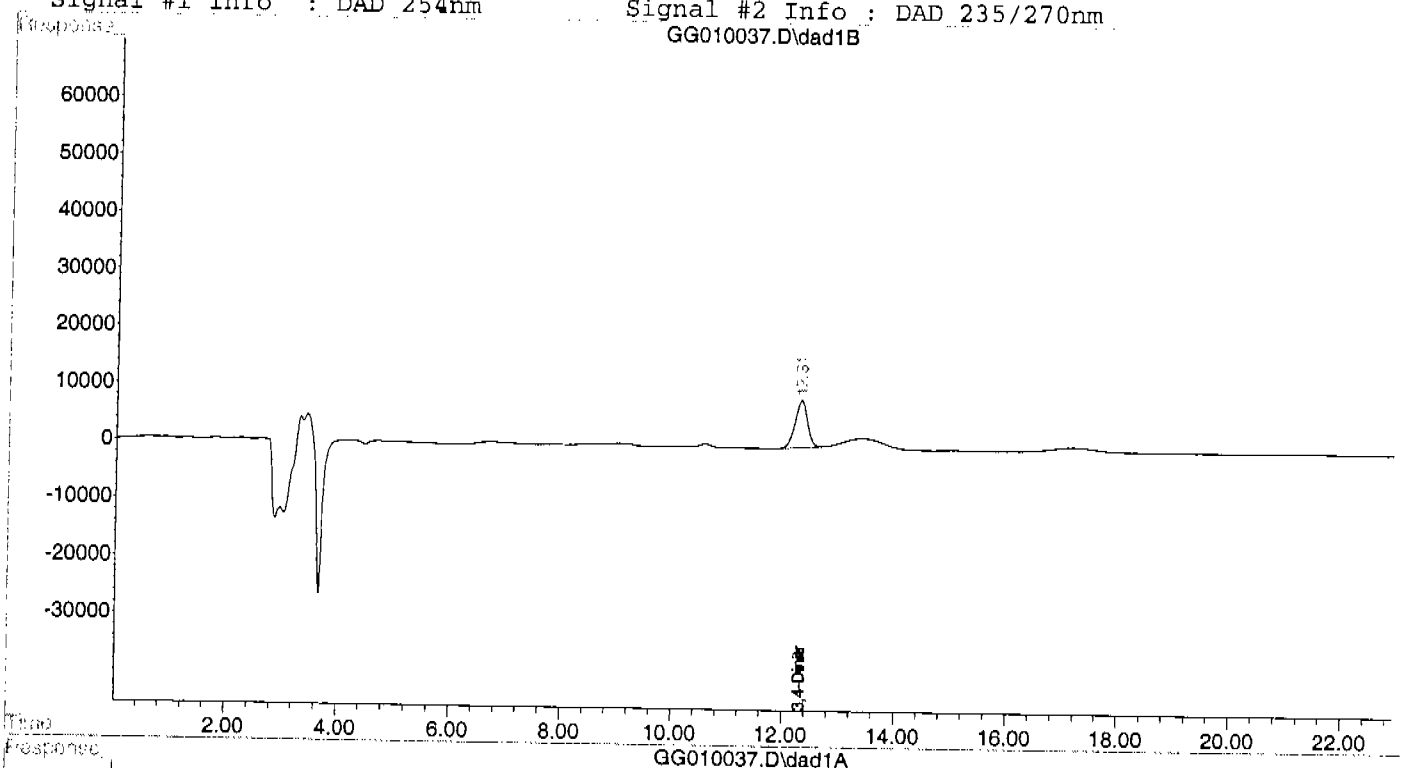
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010037.D 8330_EX2.M Wed Aug 25 08:10:53 2004

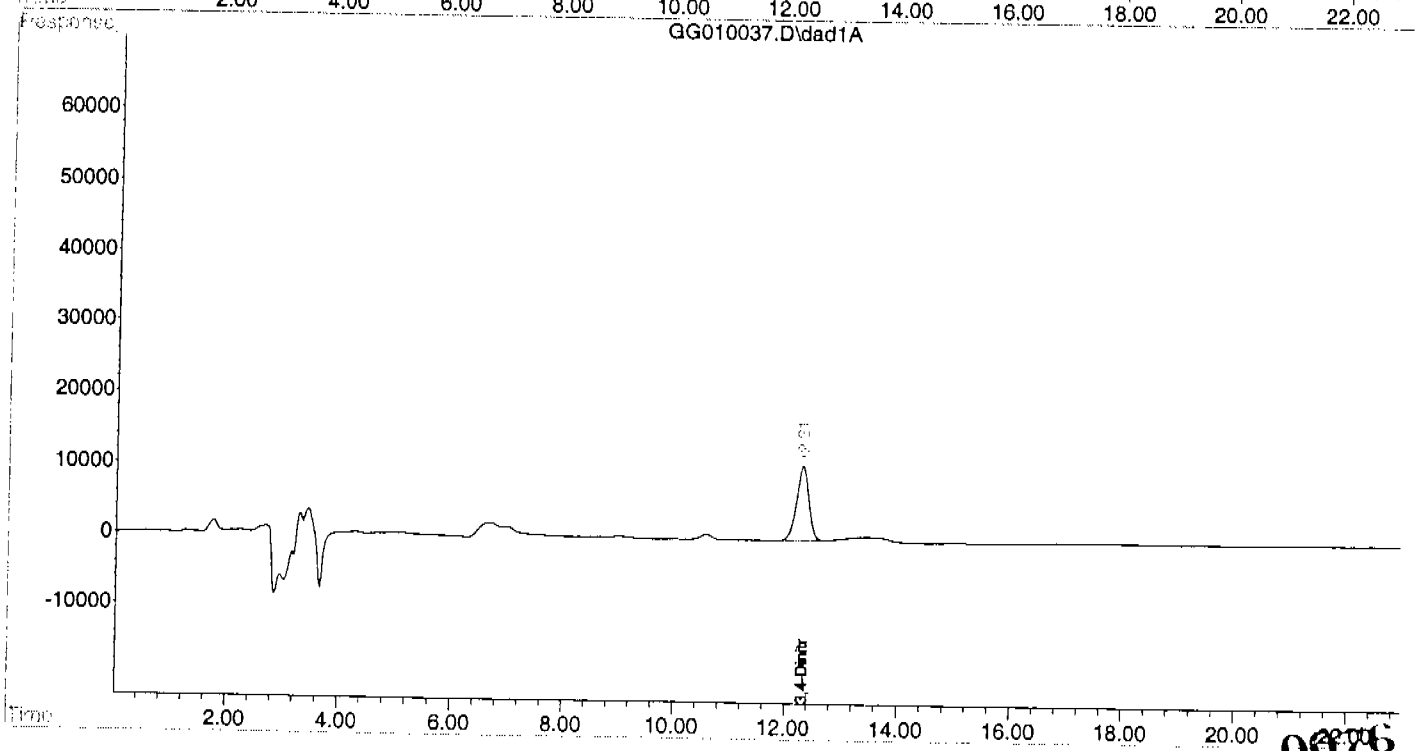
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010037.D\dad1B.ch Vial: 12
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010037.D\dad1A.ch
Acq On : 24-Aug-2004, 20:08:51 Operator: MIKEE
Sample : OP11097-MB Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:11 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Method Blank Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11098-MB	PP000691.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27

The QC reported here applies to the following samples: **Method:** SW846 8332

F25991-1, F25991-2, F25991-3, F25991-4, F25991-5, F25991-6

CAS No.	Compound	Result	RL	MDL	Units	Q
55-63-0	Nitroglycerine	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	116%	61-124%

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000691.D\dad1B.ch Vial: 11
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000691.D\dad1A.ch
Acq On : 24-Aug-2004, 10:41:43 Operator: MIKEE
Sample : OP11098-MB Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 14:00 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
2) S 3,4-Dinitrotoluene	3.61	1244968	290.477	ppb	m
Spiked Amount 250.000 Range 61 - 124		Recovery = 116.19%			
5) S 3,4-Dinitrotoluene #2	3.61	734330	330.549	ppb	m
Spiked Amount 250.000 Range 61 - 124		Recovery = 132.22%#			
Target Compounds					
1) Nitroglycerin	0.00	0	N.D.	ppb	
3) PETN	0.00	0	N.D.	ppb	

8/24/04

8-24-04

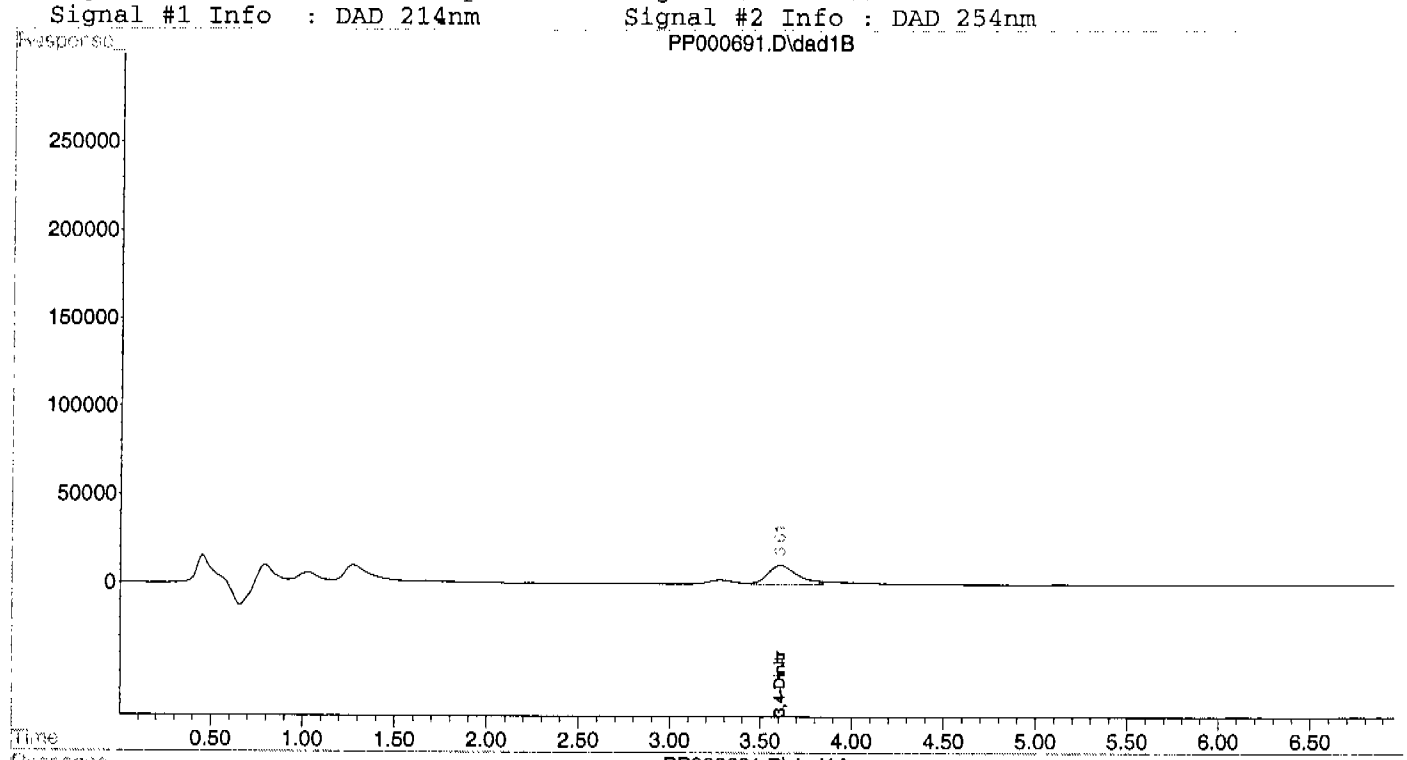
(f)=RT Delta > 1/2 Window (m)=manual int.

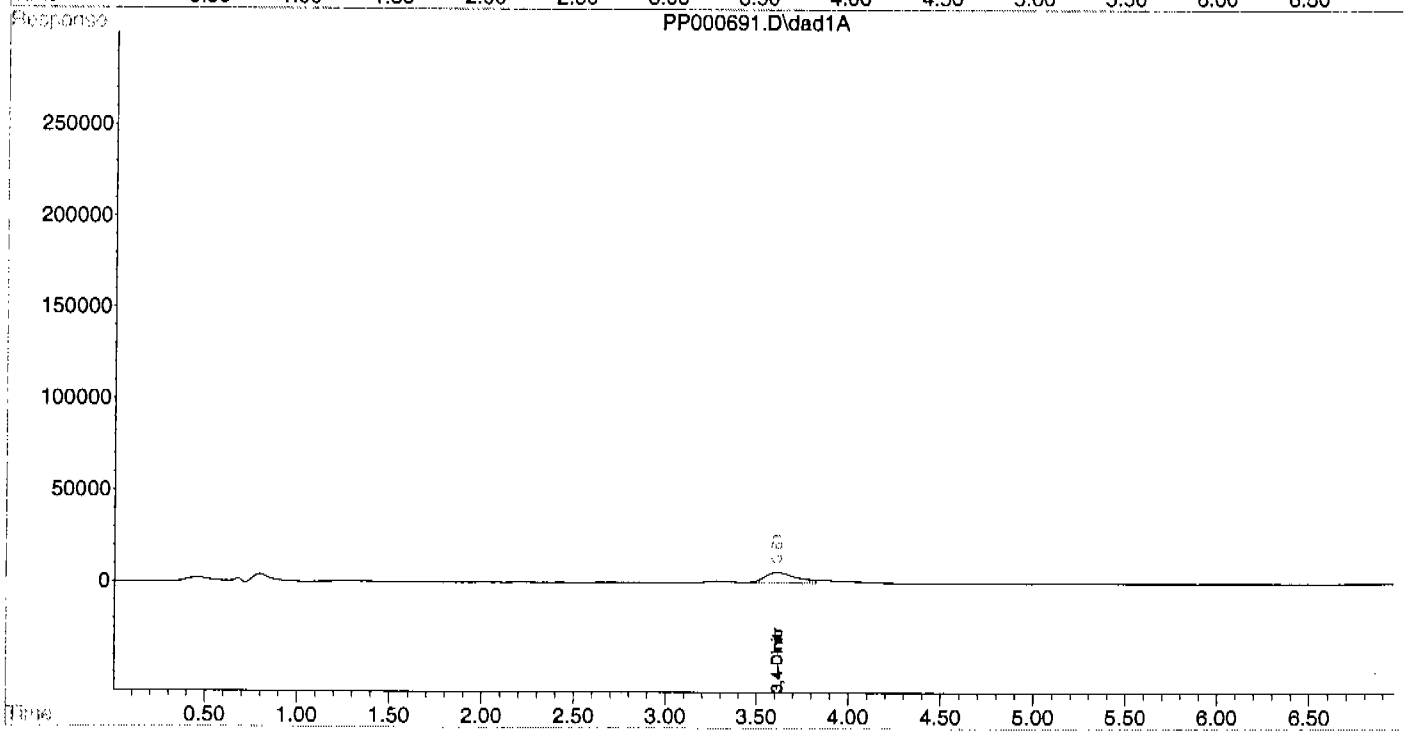
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000691.D\dad1B.ch Vial: 11
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000691.D\dad1A.ch
Acq On : 24-Aug-2004, 10:41:43 Operator: MIKEE
Sample : OP11098-MB Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 14:00 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





BLANK SPIKE SUMMARY

SGC.05

Blank Spike Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11097-BS	GG010036.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474

The QC reported here applies to the following samples: **Method:** SW846 8330A

F25991-1, F25991-2, F25991-3, F25991-4, F25991-5, F25991-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	2.5	2.4	96	79-119
121-82-4	RDX	2.5	2.5	100	73-119
99-65-0	1,3-Dinitrobenzene	2.5	2.6	104	77-117
606-20-2	2,6-Dinitrotoluene	2.5	2.8	112	77-123
121-14-2	2,4-Dinitrotoluene	2.5	2.5	100	74-119
35572-78-2	2-amino-4,6-Dinitrotoluene	2.5	2.6	104	77-121
19406-51-0	4-amino-2,6-Dinitrotoluene	2.5	2.6	104	76-121
98-95-3	Nitrobenzene	2.5	2.4	96	66-122
88-72-2	o-Nitrotoluene	2.5	2.4	96	68-120
99-08-1	m-Nitrotoluene	2.5	2.6	104	69-120
99-99-0	p-Nitrotoluene	2.5	2.5	100	75-118
479-45-8	Tetryl	2.5	2.0	80	63-122
99-35-4	1,3,5-Trinitrobenzene	2.5	2.5	100	77-115
118-96-7	2,4,6-Trinitrotoluene	2.5	2.3	92	76-113

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	112%	61-124%

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010036.D\dad1B.ch Vial: 11
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010036.D\dad1A.ch
Acq On : 24-Aug-2004, 19:43:20 Operator: MIKEE
Sample : OP11097-BS Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:09 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
7) S 3,4-Dinitrotolue	12.28	12.28	1292092	1563562	279.791	247.132
Spiked Amount 250.000 Range 61 - 124 Recovery =					111.92%	98.85%
Target Compounds						
1) HMX	4.09	4.09	724121	2181967	242.955m	249.047m
2) RDX	6.19	6.19	892815	1450718	254.492	253.776
3) 1,3,5-Trinitrobe	8.33	8.33	1972426	3996187	250.273	248.704
4) 1,3-Dinitrobenze	10.13	10.13	2768061	3379482	258.306	257.890
5) Tetryl	10.74	10.74	1305941	2397383	204.895	208.628
6) Nitrobenzene	11.48	11.48	1696246	793331	242.090	242.940
8) 2,4,6-Trinitroto	12.97	12.97	1776659	2597654	234.556	236.431
9) 4-Amino-2,6-Dini	13.56	13.56	1336807	3725686	261.612	264.964
10) 2-Amino-4,6-Dini	14.31	14.31	1823020	3097790	261.686	264.789
11) 2,6-Dinitrotolue	15.10	15.10	1405462	1924593	274.329	276.609
12) 2,4-Dinitrotolue	15.64	15.64	2477585	2237849	250.833	254.421
13) o-Nitrotoluene	18.35	18.35	1122645	1208595	244.048	246.073
14) p-Nitrotoluene	19.61	19.61	984999	1970654	247.214	250.619
15) m-Nitrotoluene	21.09	21.09	1239648	1825245	260.775m	255.099m

p''

analysts

op

MWS 8/25/04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010036.D 8330_EX2.M Wed Aug 25 08:10:49 2004

0082

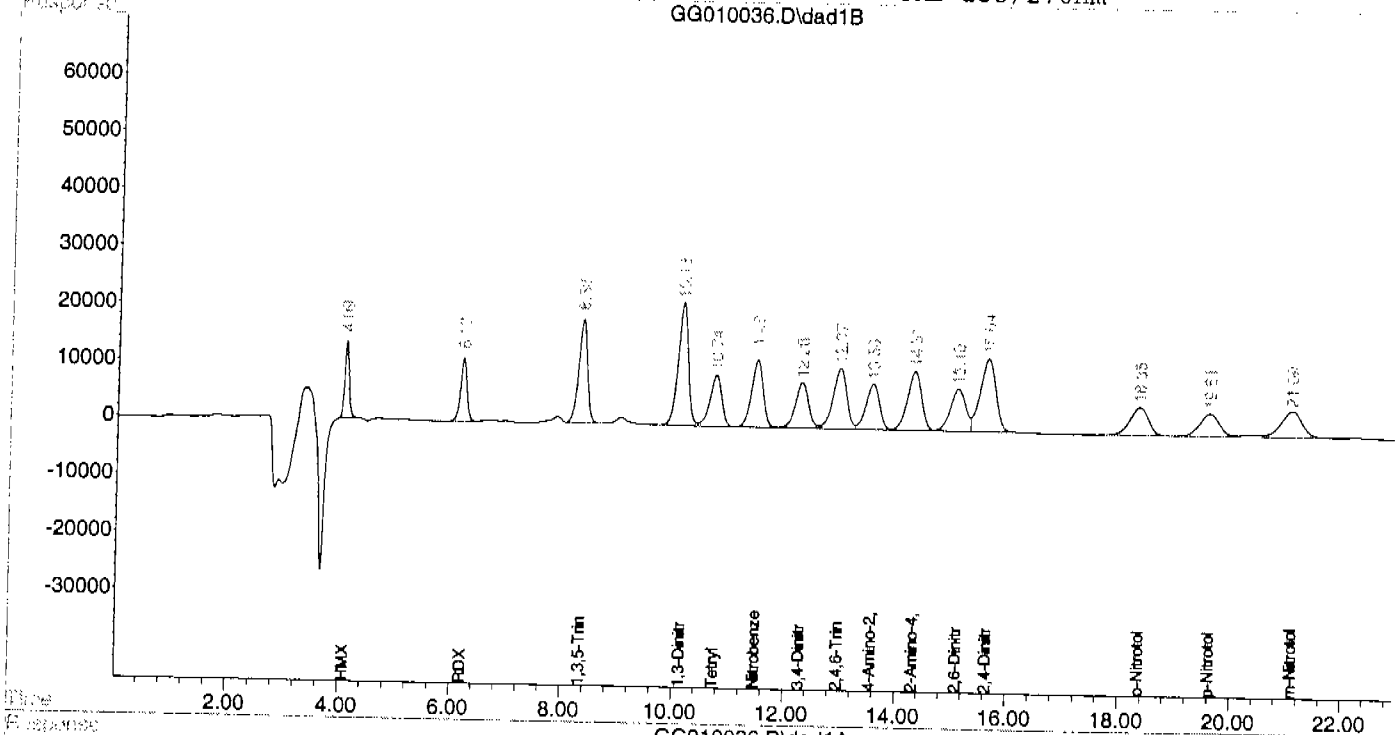
Quantitation Report (QT Reviewed)

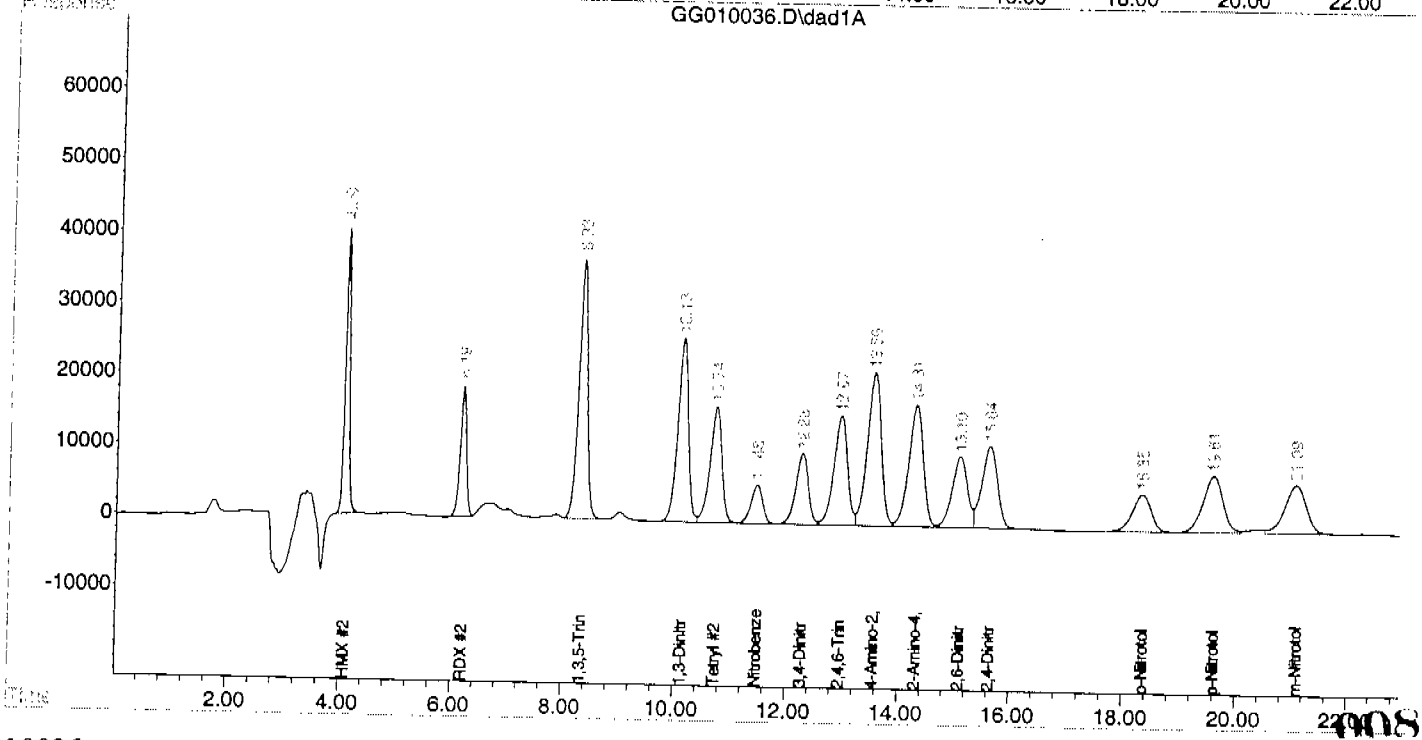
Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010036.D\dad1B.ch Vial: 11
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010036.D\dad1A.ch
Acq On : 24-Aug-2004, 19:43:20 Operator: MIKEE
Sample : OP11097-BS Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:09 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS
Signal #1 Info : DAD 254nm

Signal #2 Phase: ODS
Signal #2 Info : DAD 235/270nm





49083

Blank Spike Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11098-BS	PP000690.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27

The QC reported here applies to the following samples: **Method:** SW846 8332

F25991-1, F25991-2, F25991-3, F25991-4, F25991-5, F25991-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
55-63-0	Nitroglycerine	25	28.3	113	67-121

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	107%	61-124%

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000690.D\dad1B.ch Vial: 10
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000690.D\dad1A.ch
Acq On : 24-Aug-2004, 10:33:10 Operator: MIKEE
Sample : OP11098-BS Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:59 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.61	1144903	267.130 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 106.85%	
5) S 3,4-Dinitrotoluene #2	3.61	556912	250.687 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 100.27%	
Target Compounds			
1) Nitroglycerin	2.93	3315424	2834.278 ppb
3) PETN	5.14	3672510	2727.899 ppb

pw 8/24/04

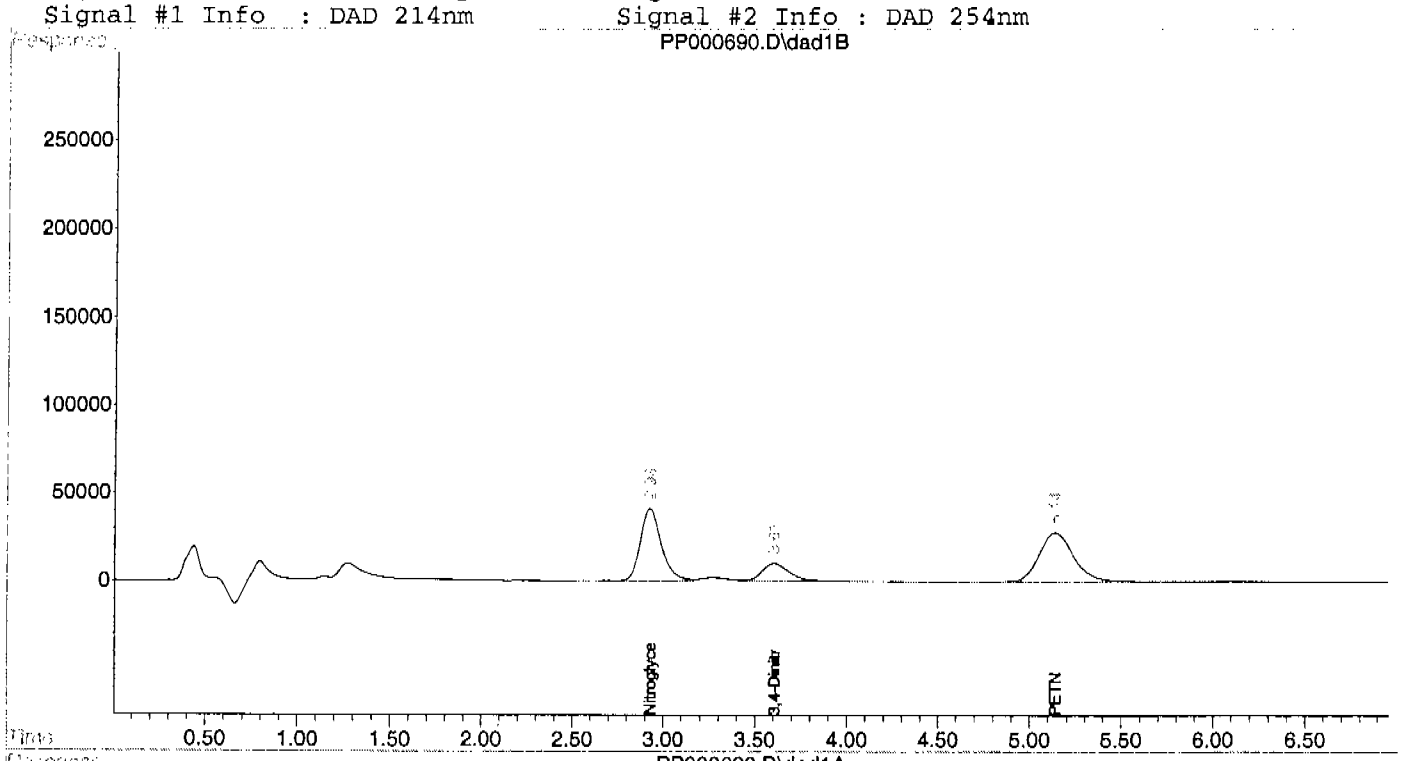
(f)=RT Delta > 1/2 Window (m)=manual int.

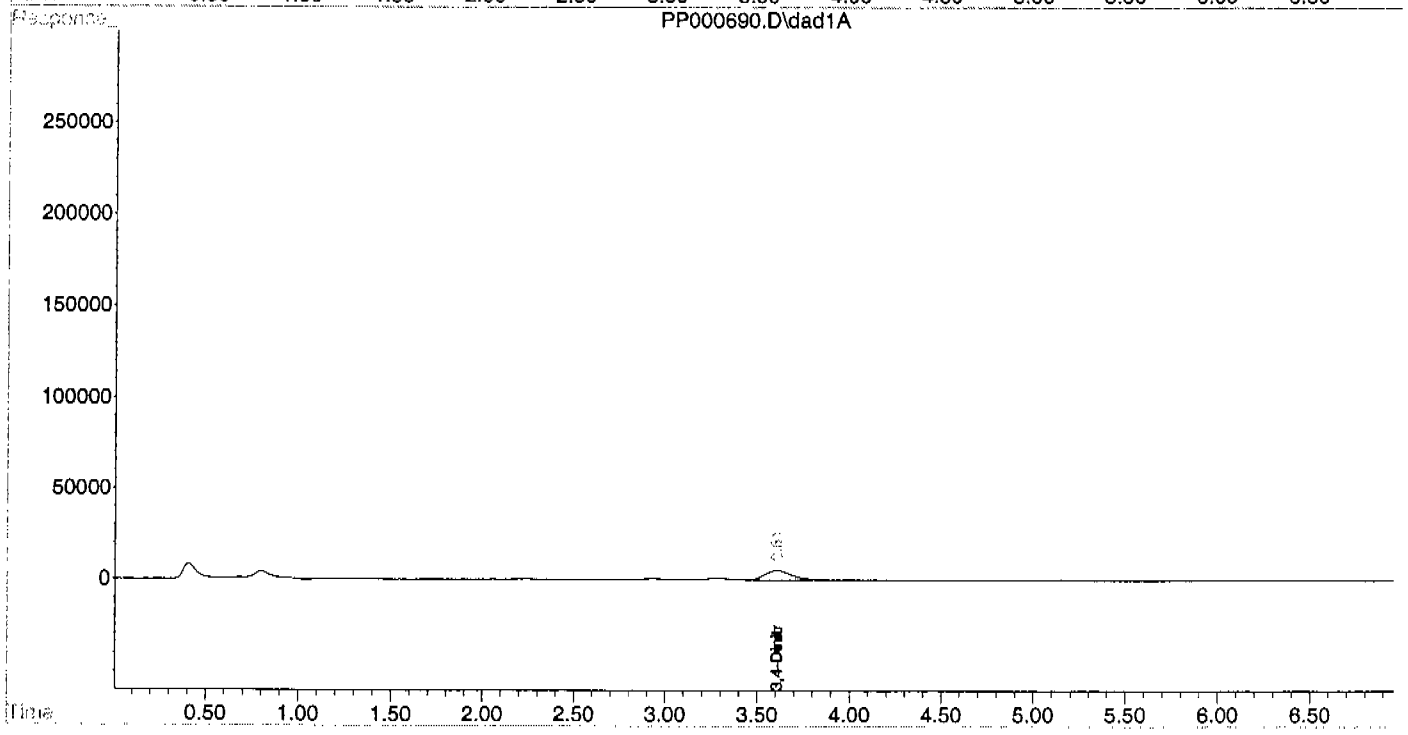
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000690.D\dad1B.ch Vial: 10
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000690.D\dad1A.ch
Acq On : 24-Aug-2004, 10:33:10 Operator: MIKEE
Sample : OP11098-BS Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:59 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

SGC.06

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11097-MS	GG010042.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
OP11097-MSD	[a]GG010043.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474
F25991-4	GG010041.D	1	08/24/04	MRE	08/12/04	OP11097	GGG474

The QC reported here applies to the following samples: **Method:** SW846 8330A

F25991-1, F25991-2, F25991-3, F25991-4, F25991-5, F25991-6

CAS No.	Compound	F25991-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
2691-41-0	HMX	ND		5.68	4.4	77	2.1	37*	71*	73-123/13
121-82-4	RDX	ND		5.68	4.7	83	2.4	42*	65*	65-126/13
99-65-0	1,3-Dinitrobenzene	ND		5.68	4.7	83	2.7	48*	54*	77-117/12
606-20-2	2,6-Dinitrotoluene	ND		5.68	5.1	90	2.6	46*	65*	77-122/16
121-14-2	2,4-Dinitrotoluene	ND		5.68	4.6	81	2.5	44*	59*	72-121/15
35572-78-2	2-amino-4,6-Dinitrotoluene	ND		5.68	4.5	79	2.4	42*	61*	68-128/17
19406-51-0	4-amino-2,6-Dinitrotoluene	ND		5.68	4.6	81	2.4	42*	63*	67-127/16
98-95-3	Nitrobenzene	ND		5.68	4.9	86	2.9	51*	51*	73-121/15
88-72-2	o-Nitrotoluene	ND		5.68	4.4	77	2.7	48*	48*	75-119/17
99-08-1	m-Nitrotoluene	ND		5.68	5.2	92	3.0	53*	54*	66-129/16
99-99-0	p-Nitrotoluene	ND		5.68	4.3	76	2.4	42*	57*	75-122/18
479-45-8	Tetryl	ND		5.68	4.0	70	1.9	33*	71*	42-135/15
99-35-4	1,3,5-Trinitrobenzene	ND		5.68	4.6	81	2.4	42*	63*	72-116/12
118-96-7	2,4,6-Trinitrotoluene	ND		5.68	4.4	77	2.1	37*	71*	70-117/14

CAS No.	Surrogate Recoveries	MS	MSD	F25991-4	Limits
610-39-9	3,4-Dinitrotoluene	87%	38%*	90%	61-124%

(a) Confirmed by reanalysis.

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010042.D\dad1B.ch Vial: 17
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010042.D\dad1A.ch
Acq On : 24-Aug-2004, 22:16:23 Operator: MIKEE
Sample : OP11097-MS Inst : G1315B
Misc : op11097,ggg474,440,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:13 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.36	12.36	1006769	1337188	218.007	211.352
	Spiked Amount 250.000 Range 61 - 124 Recovery =					87.20%	84.54%
	Target Compounds						
1)	HMX	4.09	4.09	582991	1718291	195.604m	196.124m
2)	RDX	6.21	6.21	719834	1167904	205.185	204.303
3)	1,3,5-Trinitrobe	8.35	8.35	1601395	3244216	203.195	201.905
4)	1,3-Dinitrobenze	10.18	10.18	2237526	2706567	208.798	206.539
5)	Tetryl	10.80	10.80	1131511	1985081	177.528	172.748
6)	Nitrobenzene	11.54	11.54	1521589	731111	217.163	223.887
8)	2,4,6-Trinitroto	13.04	13.04	1478052	2194040	195.133	199.695
9)	4-Amino-2,6-Dini	13.64	13.64	1035589	2941321	202.664	209.182
10)	2-Amino-4,6-Dini	14.40	14.40	1387881	2471290	199.224	211.238
11)	2,6-Dinitrotolue	15.20	15.20	1113942	1560617	217.428	224.297
12)	2,4-Dinitrotolue	15.74	15.74	1966086	1797885	199.048	204.402
13)	o-Nitrotoluene	18.48	18.48	887444	959283	192.918	195.313
14)	p-Nitrotoluene	19.74	19.74	751974	1592018	188.730	202.466
15)	m-Nitrotoluene	21.24	21.24	1086204	1686212	228.497	235.667

p11

8/25/04

MDR 8/25/04

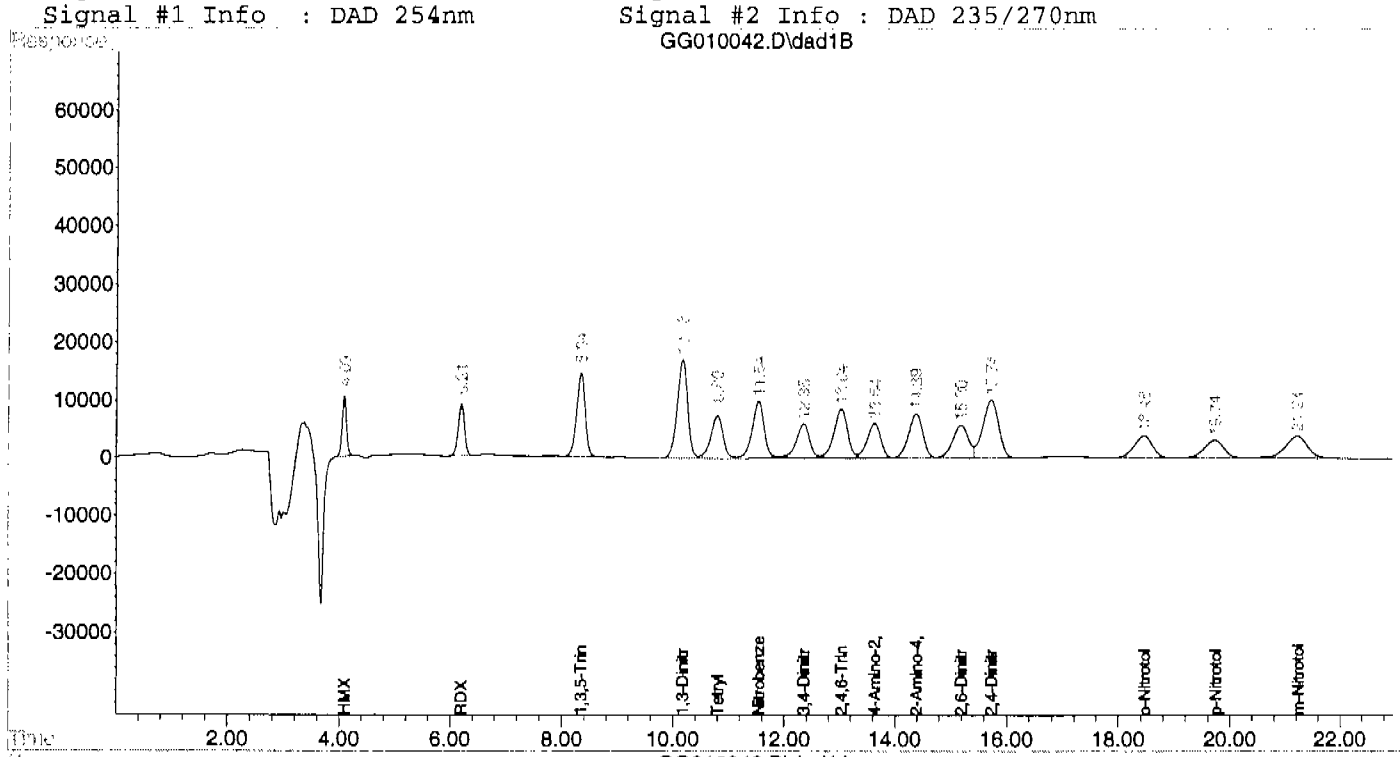
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

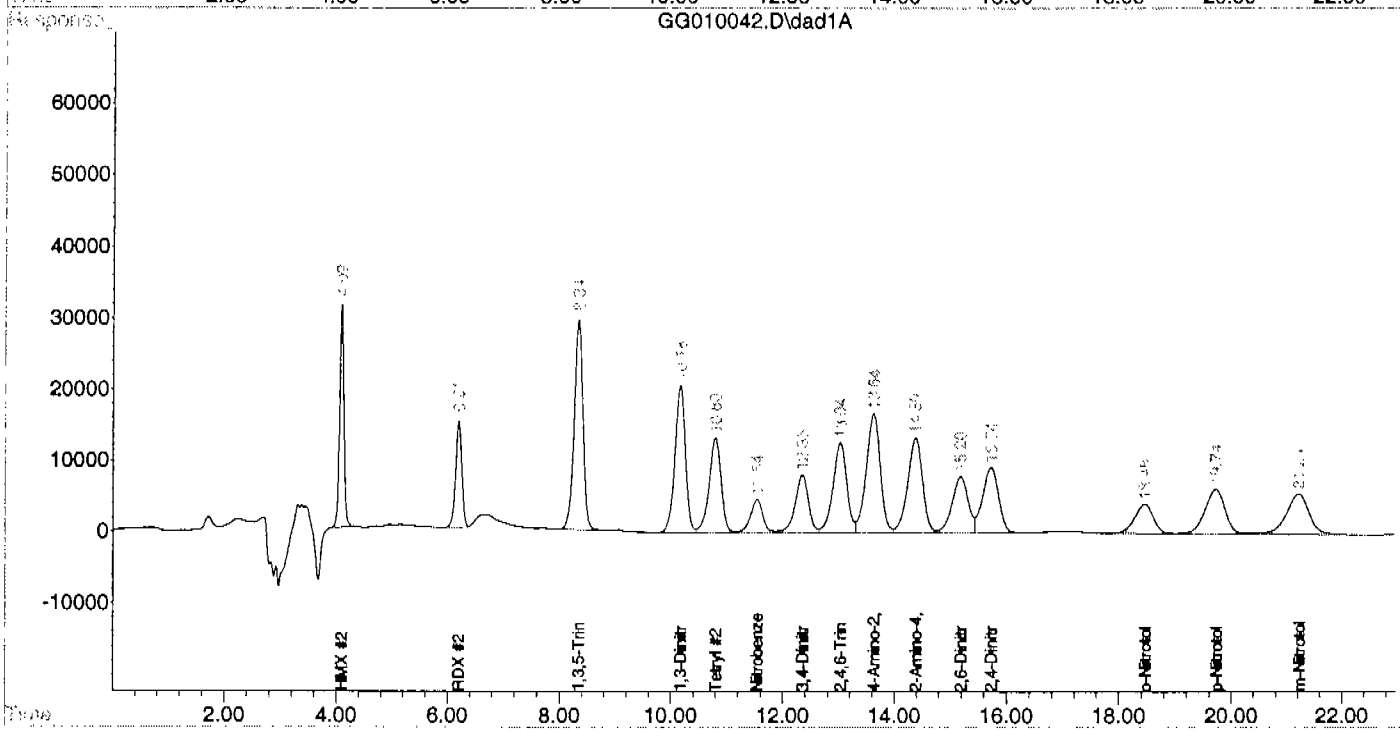
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010042.D\dad1B.ch Vial: 17
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010042.D\dad1A.ch
Acq On : 24-Aug-2004, 22:16:23 Operator: MIKEE
Sample : OP11097-MS Inst : G1315B
Misc : op11097,ggg474,440,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:13 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010043.D\dad1B.ch Vial: 18
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010043.D\dad1A.ch
Acq On : 24-Aug-2004, 22:41:58 Operator: MIKEE
Sample : OP11097-MSD Inst : G1315B
Misc : op11097,ggg474,440,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:13 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.36	12.36	441927	628793	95.695	99.385
	Spiked Amount 250.000	Range	61 - 124	Recovery	=	38.28%#	39.75%#
	Target Compounds						
1)	HMX	4.11	4.11	280917	795751	94.253m	90.826m
2)	RDX	6.21	6.21	365191	610652	104.096	106.822
3)	1,3,5-Trinitrobe	8.37	8.37	825129	1675800	104.697	104.294
4)	1,3-Dinitrobenze	10.19	10.19	1266272	1529065	118.164	116.684
5)	Tetryl	10.81	10.82	536858	951428	84.230	82.796
6)	Nitrobenzene	11.54	11.54	896073	426689	127.888	130.664
8)	2,4,6-Trinitroto	13.04	13.04	700089	1013285	92.426	92.226
9)	4-Amino-2,6-Dini	13.64	13.64	542384	1483311	106.144	105.491
10)	2-Amino-4,6-Dini	14.39	14.39	738560	1249767	106.017	106.826
11)	2,6-Dinitrotolue	15.18	15.18	594173	800380	115.975	115.033
12)	2,4-Dinitrotolue	15.71	15.71	1070930	969499	108.422	110.222
13)	o-Nitrotoluene	18.44	18.45	552157	679203	120.031	138.288
14)	p-Nitrotoluene	19.71	19.71	422078	856148	105.933	108.881
15)	m-Nitrotoluene	21.20	21.20	630826	921440	132.702	128.782

p11

8/25/04

8/25/04

0091

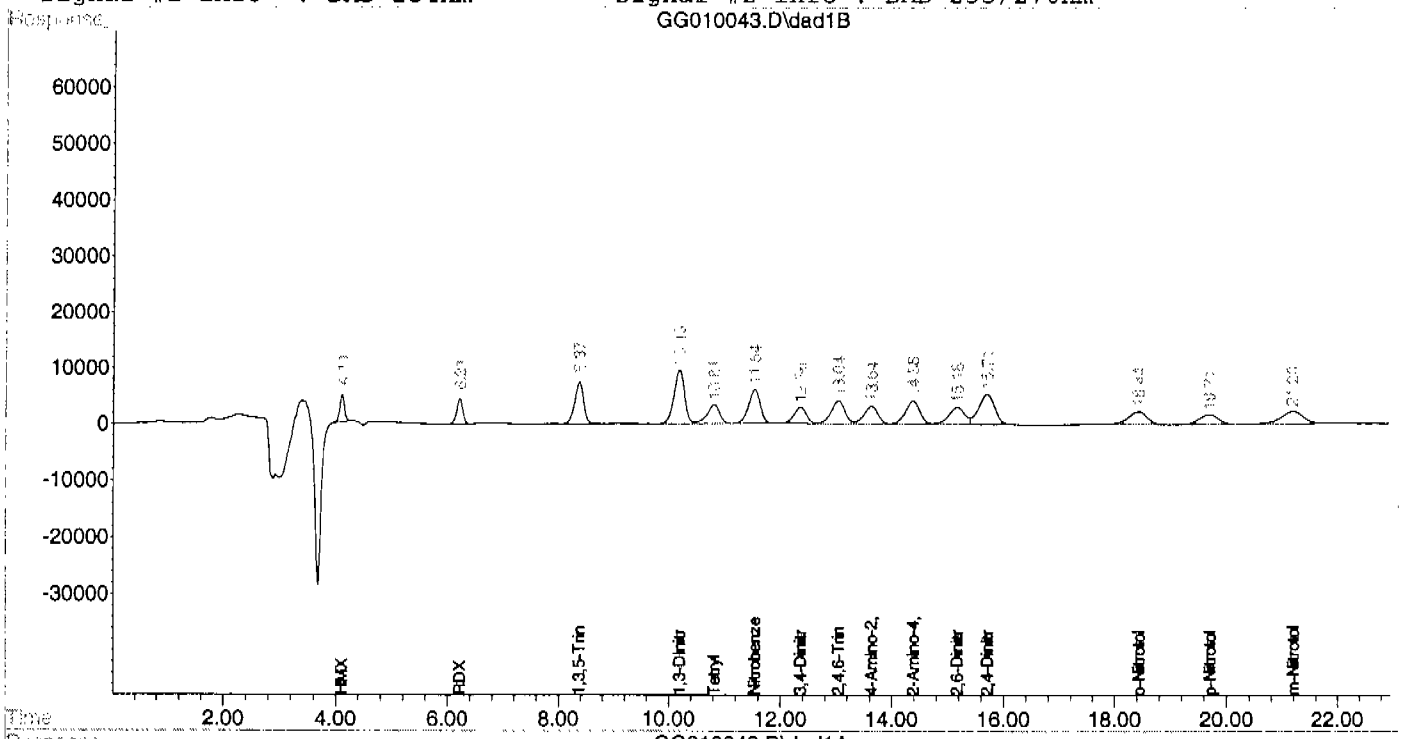
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

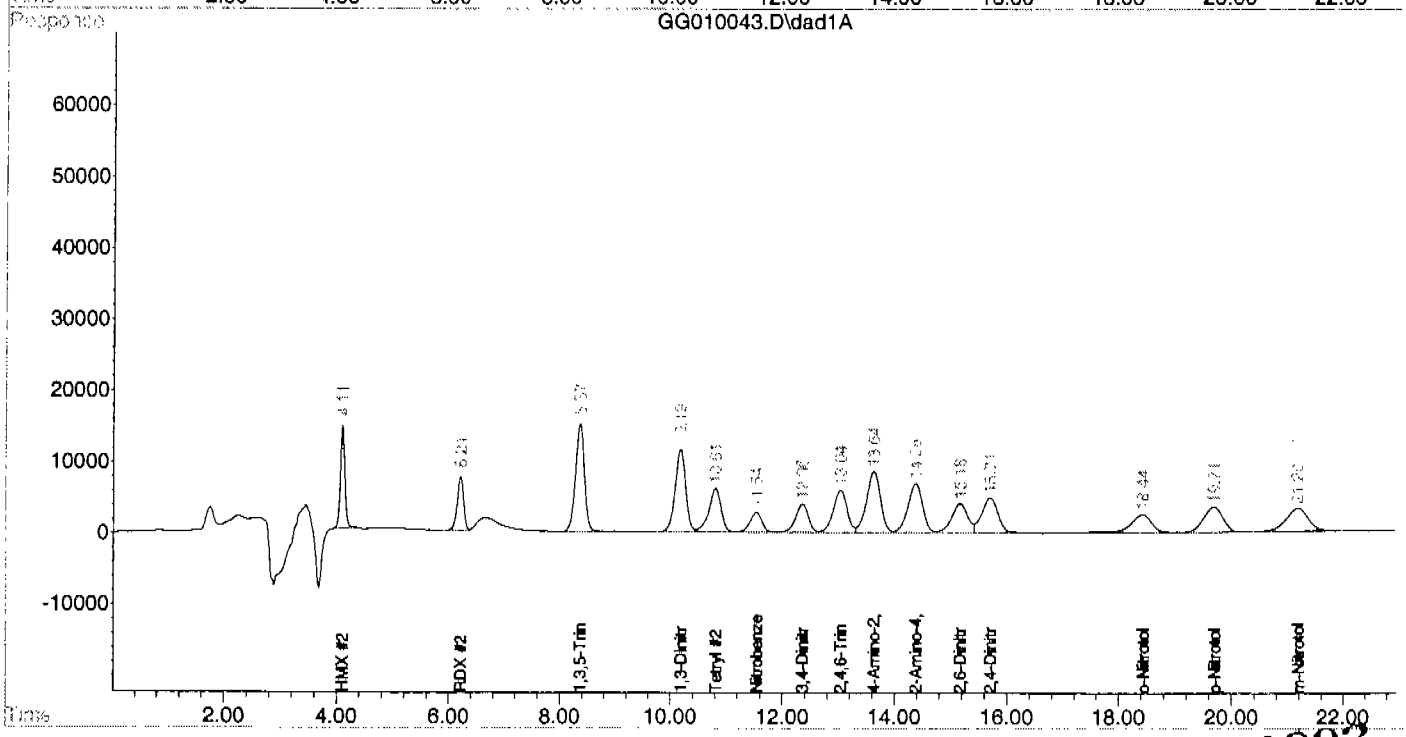
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010043.D\dad1B.ch Vial: 18
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010043.D\dad1A.ch
Acq On : 24-Aug-2004, 22:41:58 Operator: MIKEE
Sample : OP11097-MSD Inst : G1315B
Misc : op11097,ggg474,440,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:13 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





0092

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F25991
Account: ENSRMA ENSR
Project: Former Camp Butner

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP11098-MS	PP000697.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
OP11098-MSD	PP000698.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27
F25991-5	PP000696.D	1	08/24/04	MRE	08/12/04	OP11098	GPP27

The QC reported here applies to the following samples: **Method:** SW846 8332

F25991-1, F25991-2, F25991-3, F25991-4, F25991-5, F25991-6

CAS No.	Compound	F25991-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
55-63-0	Nitroglycerine	ND		55.6	65.0	117	56.5	102	14*	57-127/13

CAS No.	Surrogate Recoveries	MS	MSD	F25991-5	Limits
610-39-9	3,4-Dinitrotoluene	101%	90%	93%	61-124%

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000697.D\dad1B.ch Vial: 17
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000697.D\dad1A.ch
Acq On : 24-Aug-2004, 11:32:45 Operator: MIKEE
Sample : OP11098-MS Inst : G1315B
Misc : op11098,gpp27,450,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:08 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.61	1078866	251.722 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 100.69%	
5) S 3,4-Dinitrotoluene #2	3.61	522367	235.137 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 94.05%	
Target Compounds			
1) Nitroglycerin	2.93	3420146	2923.803 ppb
3) PETN	5.14	3735374	2774.593 ppb

MKE 8/24/04

(f)=RT Delta > 1/2 Window (m)=manual int.

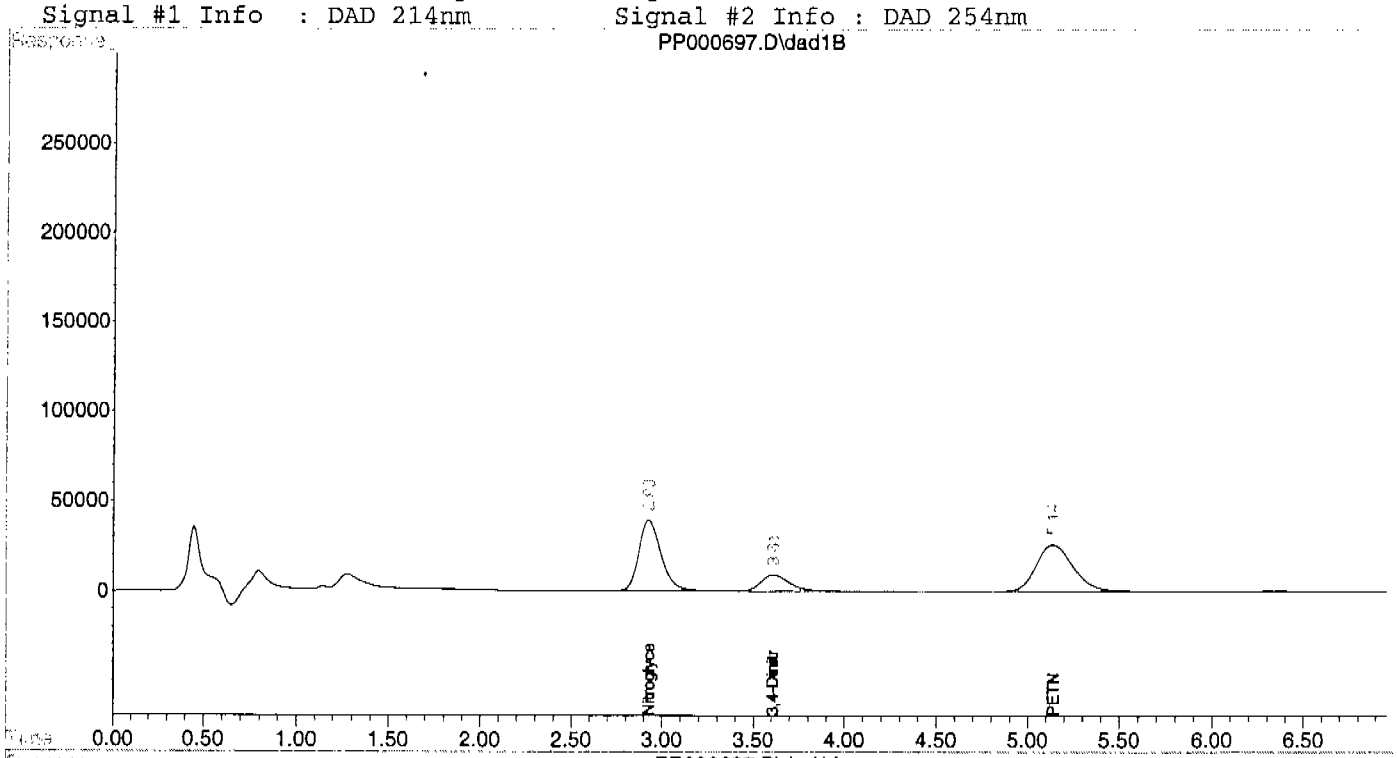
0094

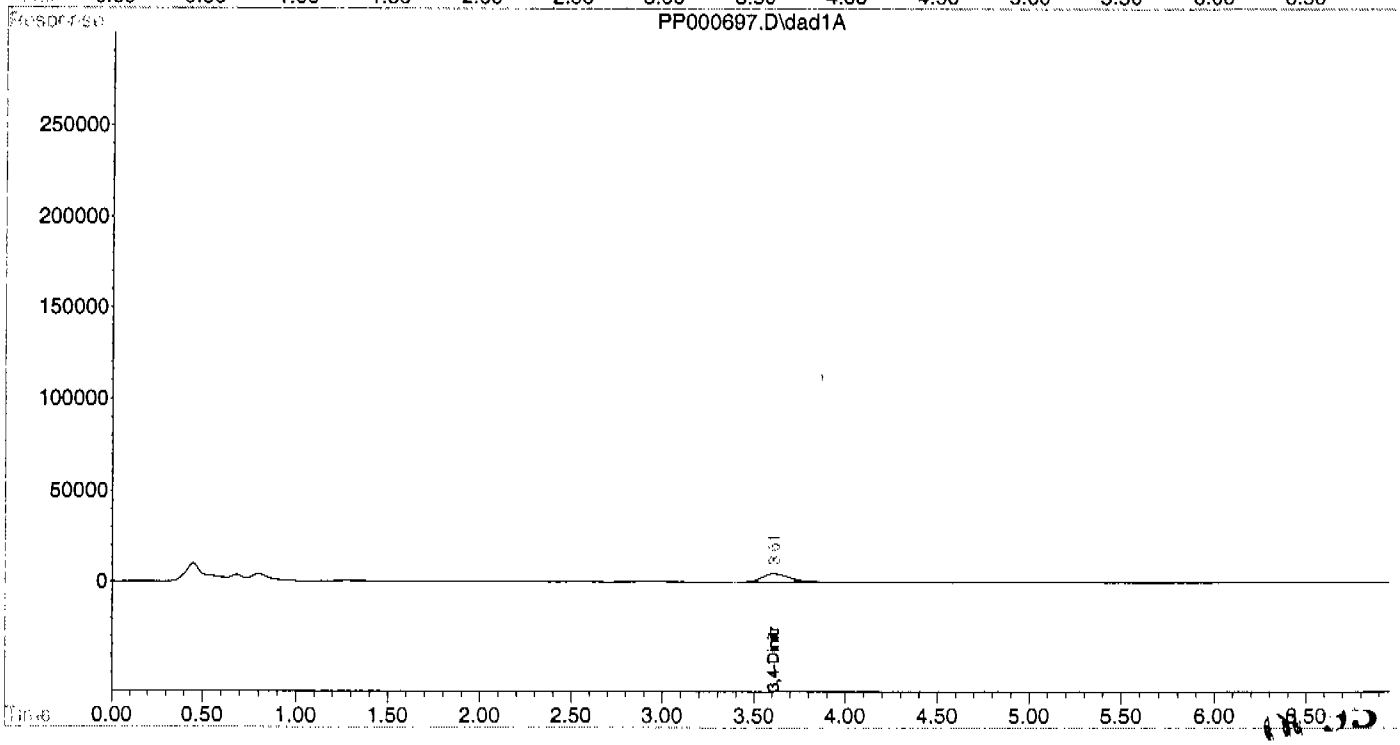
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000697.D\dad1B.ch Vial: 17
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000697.D\dad1A.ch
Acq On : 24-Aug-2004, 11:32:45 Operator: MIKEE
Sample : OP11098-MS Inst : G1315B
Misc : op11098,gpp27,450,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:08 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000698.D\dad1B.ch Vial: 18
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000698.D\dad1A.ch
Acq On : 24-Aug-2004, 11:41:16 Operator: MIKEE
Sample : OP11098-MSD Inst : G1315B
Misc : op11098,gpp27,450,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:09 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.62	960951	224.210 ppb
Spiked Amount 250.000 Range 61 - 124 Recovery = 89.68%			
5) S 3,4-Dinitrotoluene #2	3.62	457452	205.916 ppb
Spiked Amount 250.000 Range 61 - 124 Recovery = 82.37%			
Target Compounds			
1) Nitroglycerin	2.93	2976563	2544.594 ppb
3) PETN	5.14	3278058	2434.904 ppb

MOE 9/21/04

(f)=RT Delta > 1/2 Window (m)=manual int.

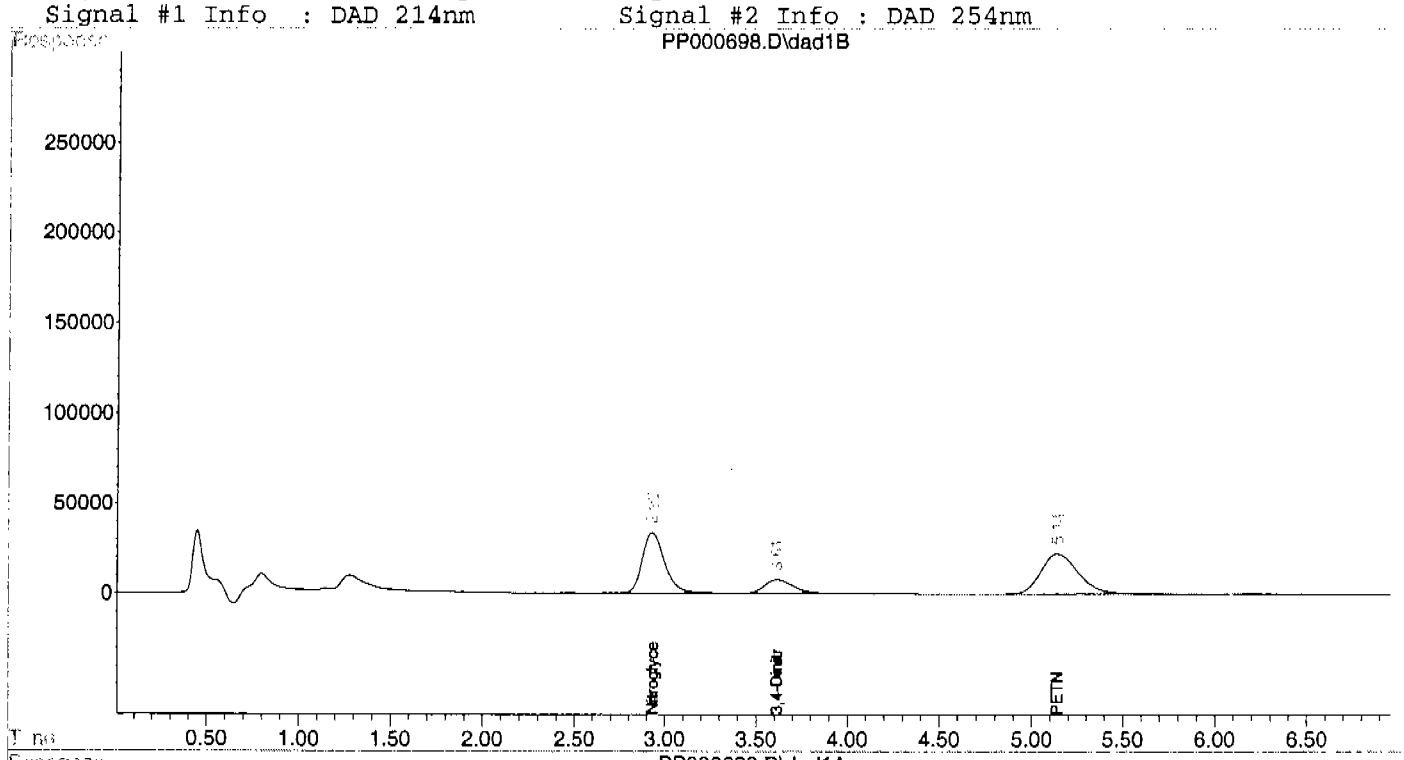
0096

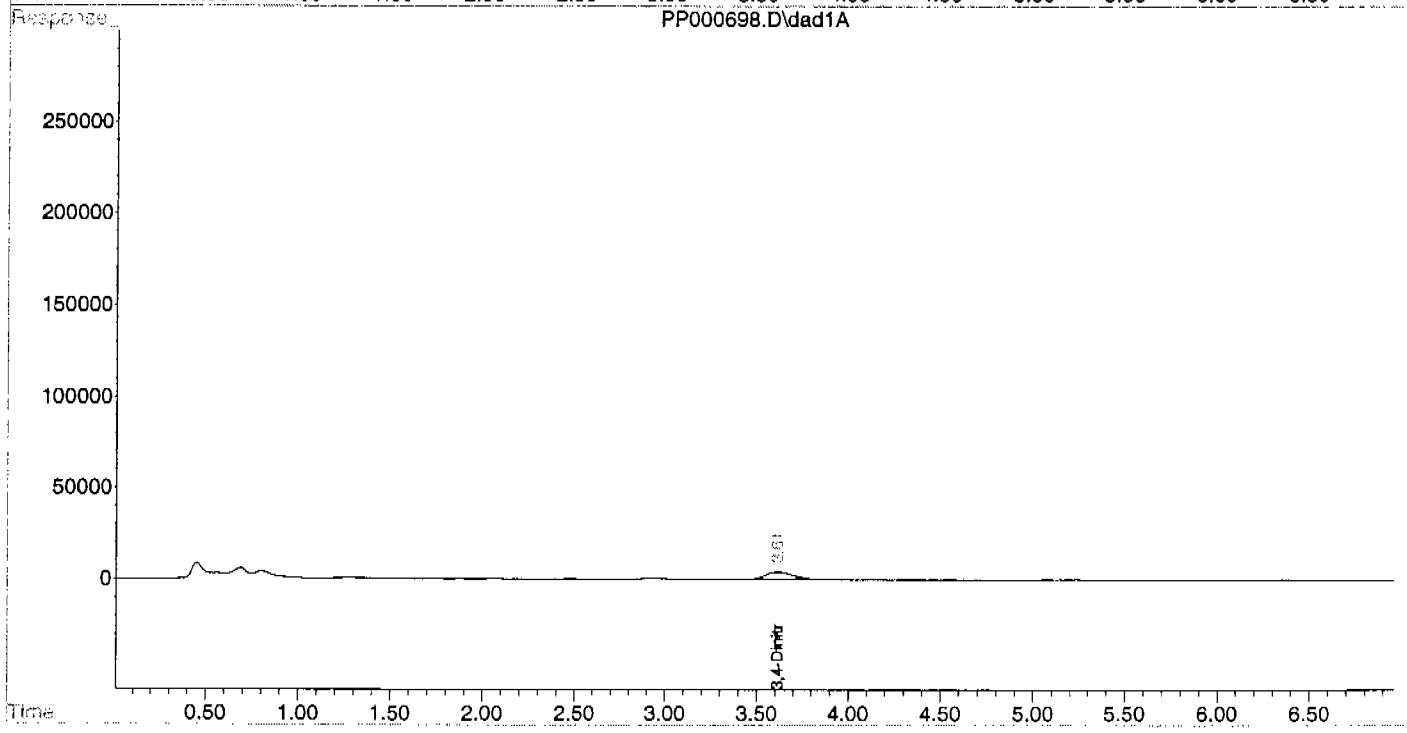
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000698.D\dad1B.ch Vial: 18
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000698.D\dad1A.ch
Acq On : 24-Aug-2004, 11:41:16 Operator: MIKEE
Sample : OP11098-MSD Inst : G1315B
Misc : op11098,gpp27,450,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:09 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





SAMPLE DUPLICATE SUMMARY

SGC.07

NOT APPLICABLE TO THIS REPORT

INITIAL CALIBRATION

SGC.08

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010028.D\dad1B.ch Vial: 3
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010028.D\dad1A.ch
Acq On : 24-Aug-2004, 16:18:44 Operator: MIKEE
Sample : IC474-20 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:05 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.40	12.41	93569	131197	19.873m	20.413m
	Spiked Amount 250.000	Range	61 - 124		Recovery =	7.95%#	8.17%#
	Target Compounds						
1)	HMX	4.14	4.14	68774	194264	21.990m	21.061m
2)	RDX	6.27	6.27	76079	105137	18.294m	14.086m
3)	1,3,5-Trinitrobe	8.43	8.43	168456	353747	20.175m	20.978
4)	1,3-Dinitrobenze	10.24	10.24	224749	297283	19.790	21.857
5)	Tetryl	10.87	10.88	150929	273759	23.462m	23.790
6)	Nitrobenzene	11.58	11.59	138780	62096	18.705m	18.112m
8)	2,4,6-Trinitroto	13.08	13.08	164174	219062	20.810m	18.975m
9)	4-Amino-2,6-Dini	13.67	13.67	104038	307368	18.793m	20.610m
10)	2-Amino-4,6-Dini	14.40	14.40	147096	246226	19.663m	19.742m
11)	2,6-Dinitrotolue	15.19	15.19	96195	130311	17.311m	17.449m
12)	2,4-Dinitrotolue	15.72	15.72	219212	178060	21.005m	18.989m
13)	o-Nitrotoluene	18.46	18.49	114625	121857	23.804m	23.975m
14)	p-Nitrotoluene	19.73	19.76	98269	183546	23.411m	22.510m
15)	m-Nitrotoluene	21.23	21.23	72610	112111	13.871m	14.345m

PII

8/25/04

MKM 8/25/04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010028.D 8330_EX2.M Wed Aug 25 08:10:19 2004

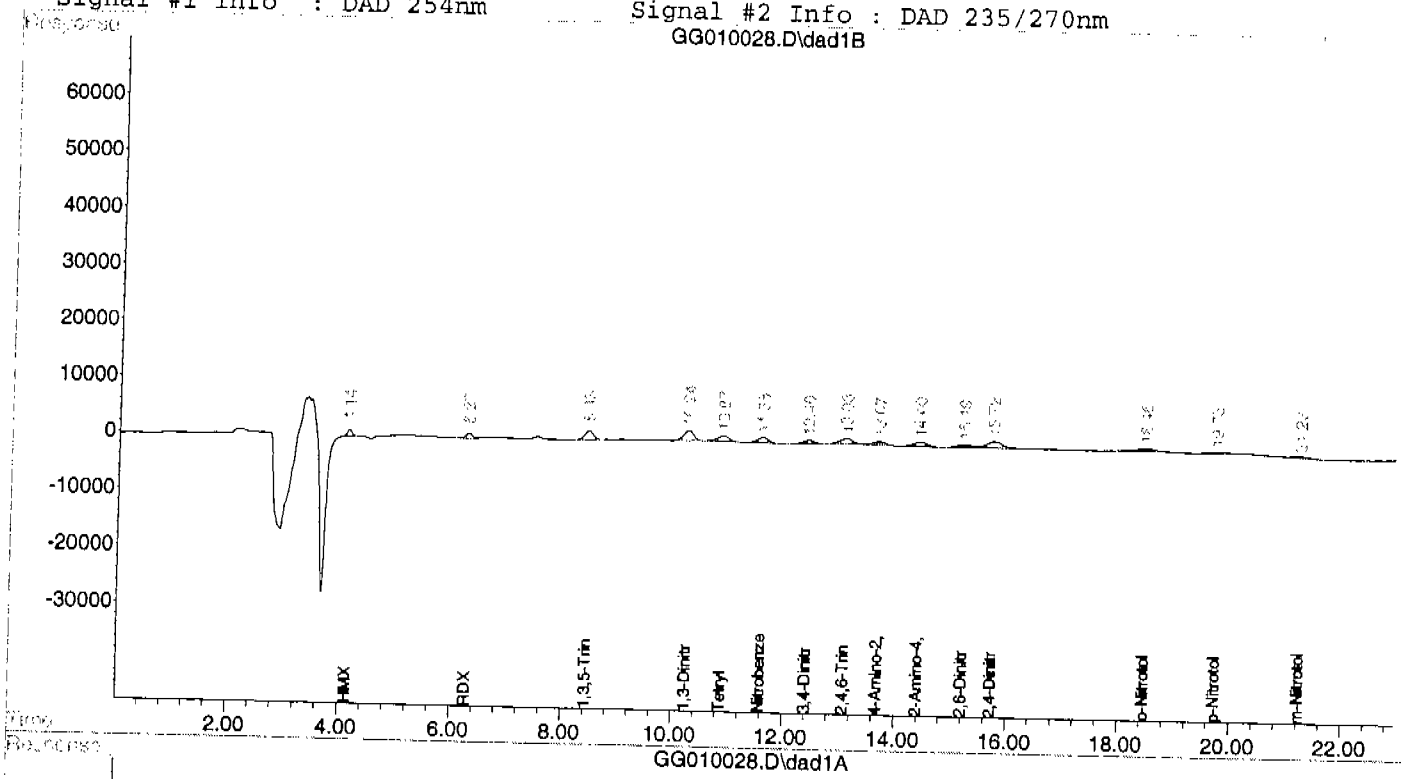
0101

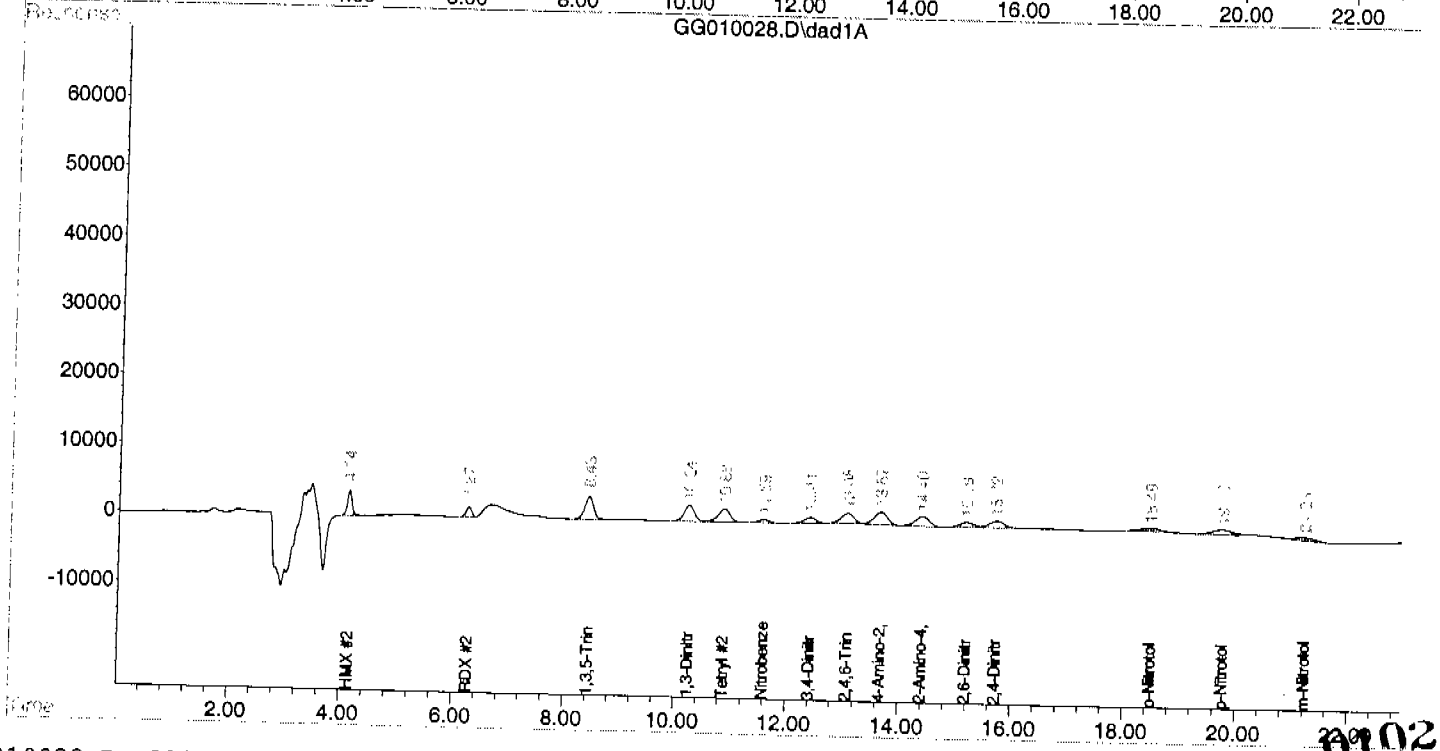
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010028.D\dad1B.ch Vial: 3
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010028.D\dad1A.ch
Acq On : 24-Aug-2004, 16:18:44
Sample : IC474-20
Misc : op11097,ggg474,1000,,,10,,water
Operator: MIKEE
Inst : G1315B
Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:05 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS
Signal #1 Info : DAD 254nm
Signal #2 Phase: ODS
Signal #2 Info : DAD 235/270nm





Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010029.D\dad1B.ch Vial: 4
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010029.D\dad1A.ch
Acq On : 24-Aug-2004, 16:44:45 Operator: MIKEE
Sample : IC474-100 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:57 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.35	12.35	433333	622492	92.037	96.853
	Spiked Amount 250.000 Range 61 - 124 Recovery =					36.81%#	38.74%#
	Target Compounds						
1)	HMX	4.11	4.11	288613	858818	92.282m	93.109m
2)	RDX	6.23	6.22	338469	567939	81.387	76.092
3)	1,3,5-Trinitrobe	8.37	8.37	766631	1580587	91.815	93.732
4)	1,3-Dinitrobenze	10.19	10.19	1086239	1311163	95.648	96.400
5)	Tetryl	10.81	10.81	636470	1154506	98.939	100.327
6)	Nitrobenzene	11.53	11.53	703953	349606	94.881	101.974
8)	2,4,6-Trinitroto	13.03	13.03	711420	1077170	90.176	93.303
9)	4-Amino-2,6-Dini	13.62	13.62	482650	1358978	87.186	91.125
10)	2-Amino-4,6-Dini	14.37	14.37	644725	1114547	86.182	89.364
11)	2,6-Dinitrotolue	15.17	15.17	503974	677610	90.694	90.732
12)	2,4-Dinitrotolue	15.70	15.70	972431	868264	93.180	92.596
13)	o-Nitrotoluene	18.39	18.40	415255	441228	86.236	86.809
14)	p-Nitrotoluene	19.65	19.65	398779	815855	95.003	100.056
15)	m-Nitrotoluene	21.12	21.12	464542	777803	88.743	99.522

pll

a 8/25/04

MM 8/25/04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010029.D 8330_EX2.M Wed Aug 25 08:10:23 2004

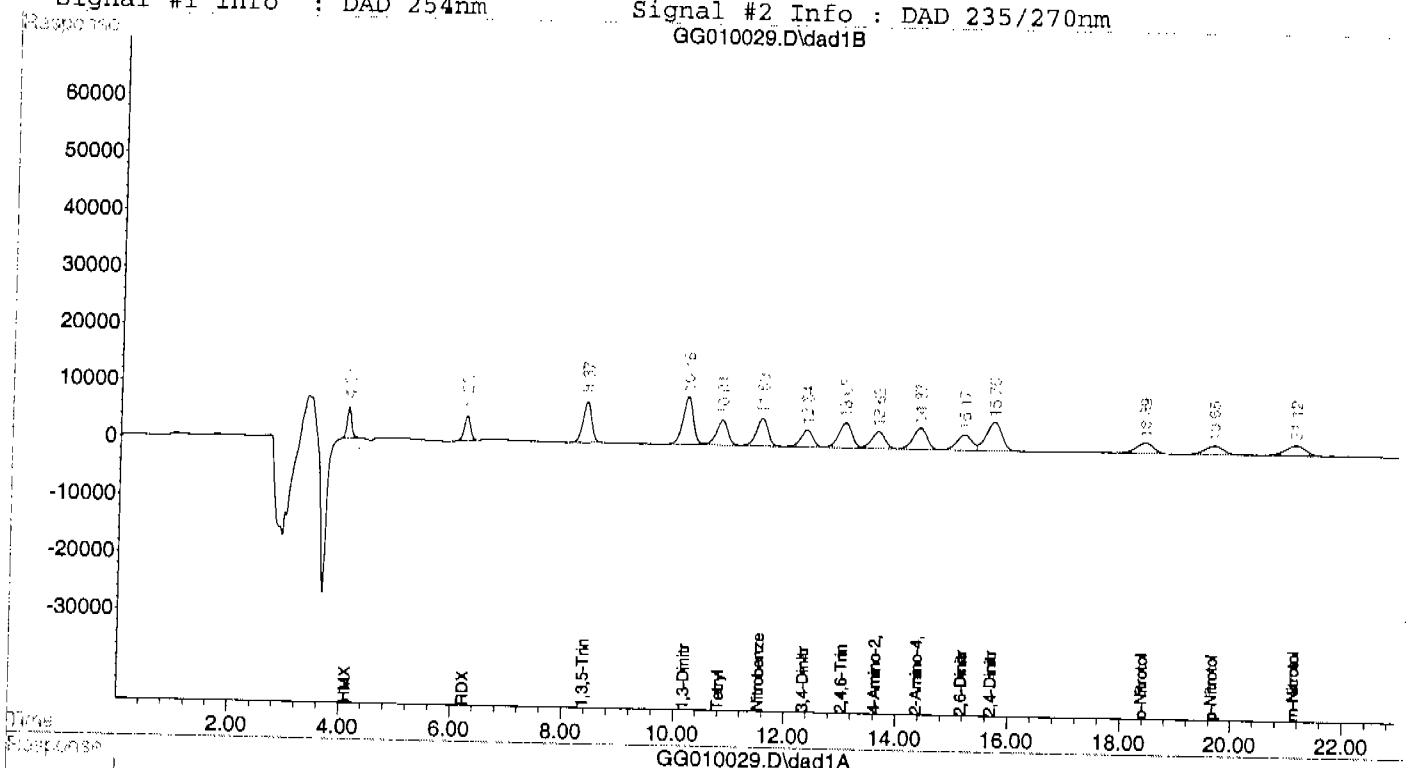
0103

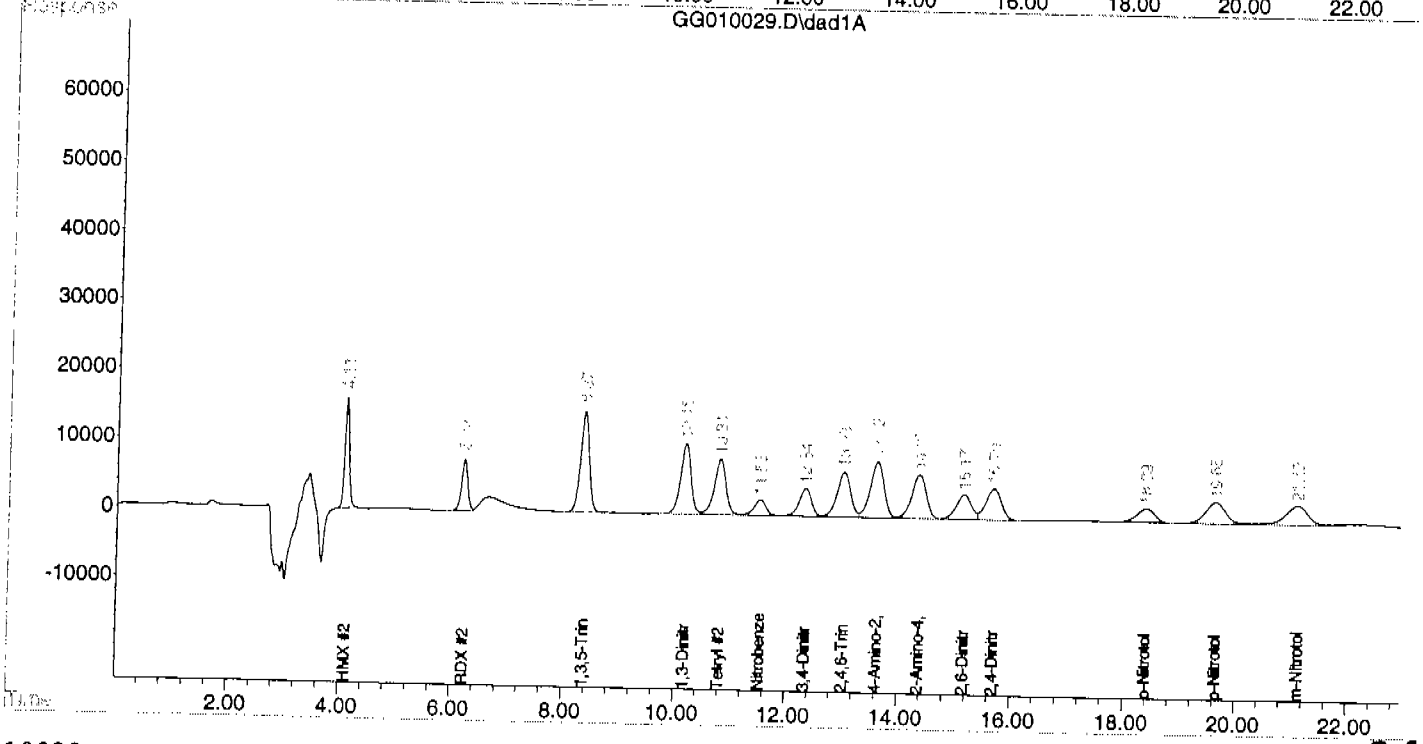
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010029.D\dad1B.ch Vial: 4
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010029.D\dad1A.ch
Acq On : 24-Aug-2004, 16:44:45 Operator: MIKEE
Sample : IC474-100 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:57 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010030.D\dad1B.ch Vial: 5
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010030.D\dad1A.ch
Acq On : 24-Aug-2004, 17:10:13 Operator: MIKEE
Sample : IC474-250 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:58 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
7) S 3,4-Dinitrotolue	12.30	12.30	1157352	1527687	245.812	237.691
Spiked Amount 250.000 Range 61 - 124 Recovery = 98.32% 95.08%						
Target Compounds						
1) HMX	4.09	4.09	723962	2124492	231.481m	230.328m
2) RDX	6.19	6.19	845174	1414966	203.227	189.576
3) 1,3,5-Trinitrobe	8.34	8.34	1914548	3879861	229.293	230.083
4) 1,3-Dinitrobenze	10.14	10.14	2637247	3165601	232.221	232.743
5) Tetryl	10.75	10.75	1540332	2734672	239.444	237.645
6) Nitrobenzene	11.49	11.49	1719583	777836	231.772	226.882
8) 2,4,6-Trinitroto	12.99	12.99	1902641	2725070	241.168	236.043
9) 4-Amino-2,6-Dini	13.57	13.57	1299280	3440336	234.703	230.688
10) 2-Amino-4,6-Dini	14.31	14.31	1763491	2898913	235.731	232.433
11) 2,6-Dinitrotolue	15.11	15.11	1298622	1761270	233.697	235.834
12) 2,4-Dinitrotolue	15.64	15.64	2360730	2152705	226.208	229.575
13) o-Nitrotoluene	18.36	18.36	1105809	1175094	229.643	231.192
14) p-Nitrotoluene	19.62	19.62	938704	1861545	223.632	228.300
15) m-Nitrotoluene	21.10	21.11	1313210	1897538	250.867m	242.795m

8/25/04

8/25/04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010030.D 8330_EX2.M Wed Aug 25 08:10:26 2004

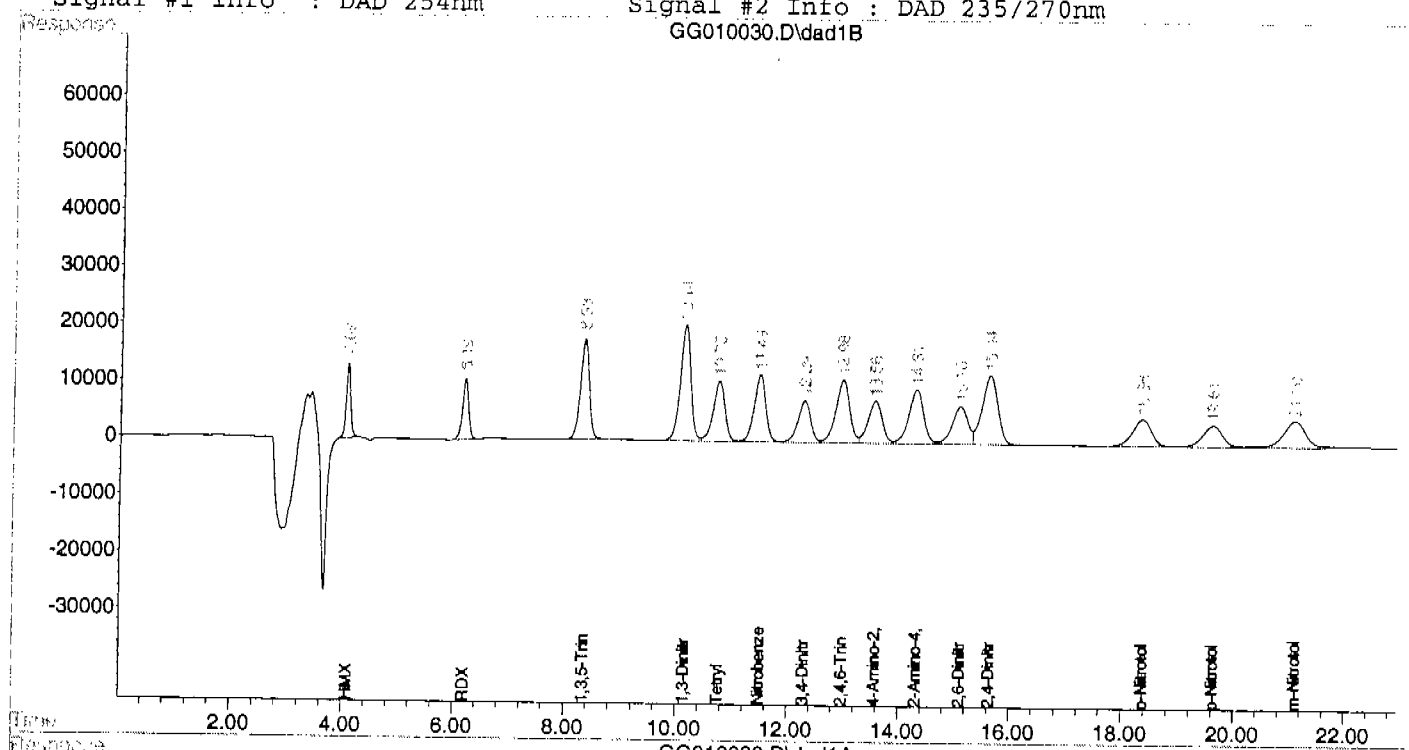
0105

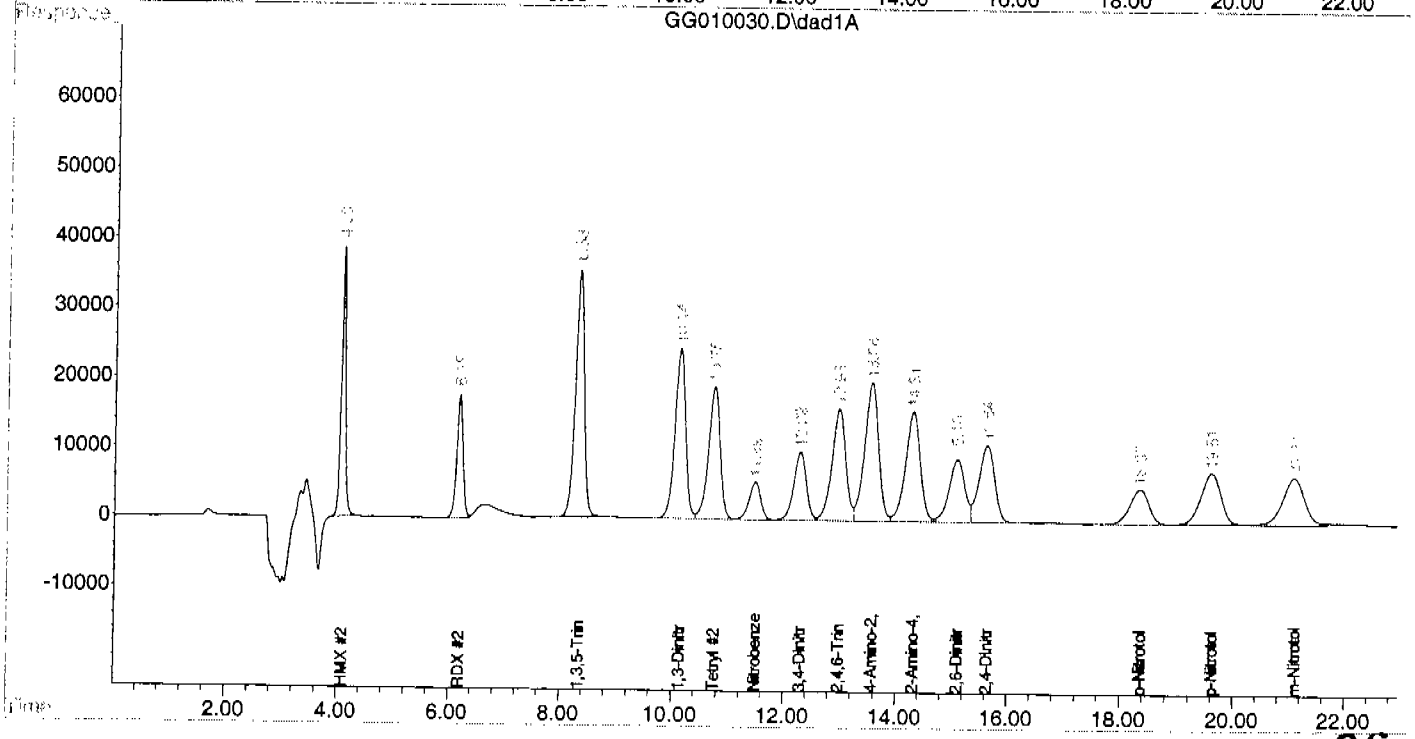
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010030.D\dad1B.ch Vial: 5
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010030.D\dad1A.ch
Acq On : 24-Aug-2004, 17:10:13 Operator: MIKEE
Sample : IC474-250 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:58 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010031.D\dad1B.ch Vial: 6
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010031.D\dad1A.ch
Acq On : 24-Aug-2004, 17:35:42 Operator: MIKEE
Sample : ICC474-500 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:58 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7)	S 3,4-Dinitrotolue	12.35	12.35	2402619	3240900	510.297	504.249
	Spiked Amount 250.000 Range 61 - 124 Recovery =					204.12%#	201.70%#
	Target Compounds						
1)	HMX	4.10	4.10	1490139	4397746	476.460m	476.783m
2)	RDX	6.21	6.21	1769584	2978452	425.508	399.049
3)	1,3,5-Trinitrobe	8.35	8.35	4037201	8072743	483.510	478.728
4)	1,3-Dinitrobenze	10.17	10.17	5399432	6505045	475.443	478.267
5)	Tetryl	10.80	10.80	3120321	5616813	485.052	488.105
6)	Nitrobenzene	11.53	11.53	3599507	1663171	485.155	485.118
8)	2,4,6-Trinitroto	13.03	13.03	3845149	5652200	487.390	489.588
9)	4-Amino-2,6-Dini	13.63	13.63	2630487	7126261	475.174	477.845
10)	2-Amino-4,6-Dini	14.36	14.36	3594358	6018072	480.468	482.524
11)	2,6-Dinitrotolue	15.16	15.16	2658112	3640069	478.348	487.406
12)	2,4-Dinitrotolue	15.69	15.69	4944757	4490959	473.813	478.938
13)	o-Nitrotoluene	18.41	18.41	2318091	2483575	481.397	488.628
14)	p-Nitrotoluene	19.66	19.66	1995099	3926017	475.302	481.486
15)	m-Nitrotoluene	21.15	21.15	2549609	3751028	487.060	479.955

p11

8/25/04

MKE 8/25/04

0107

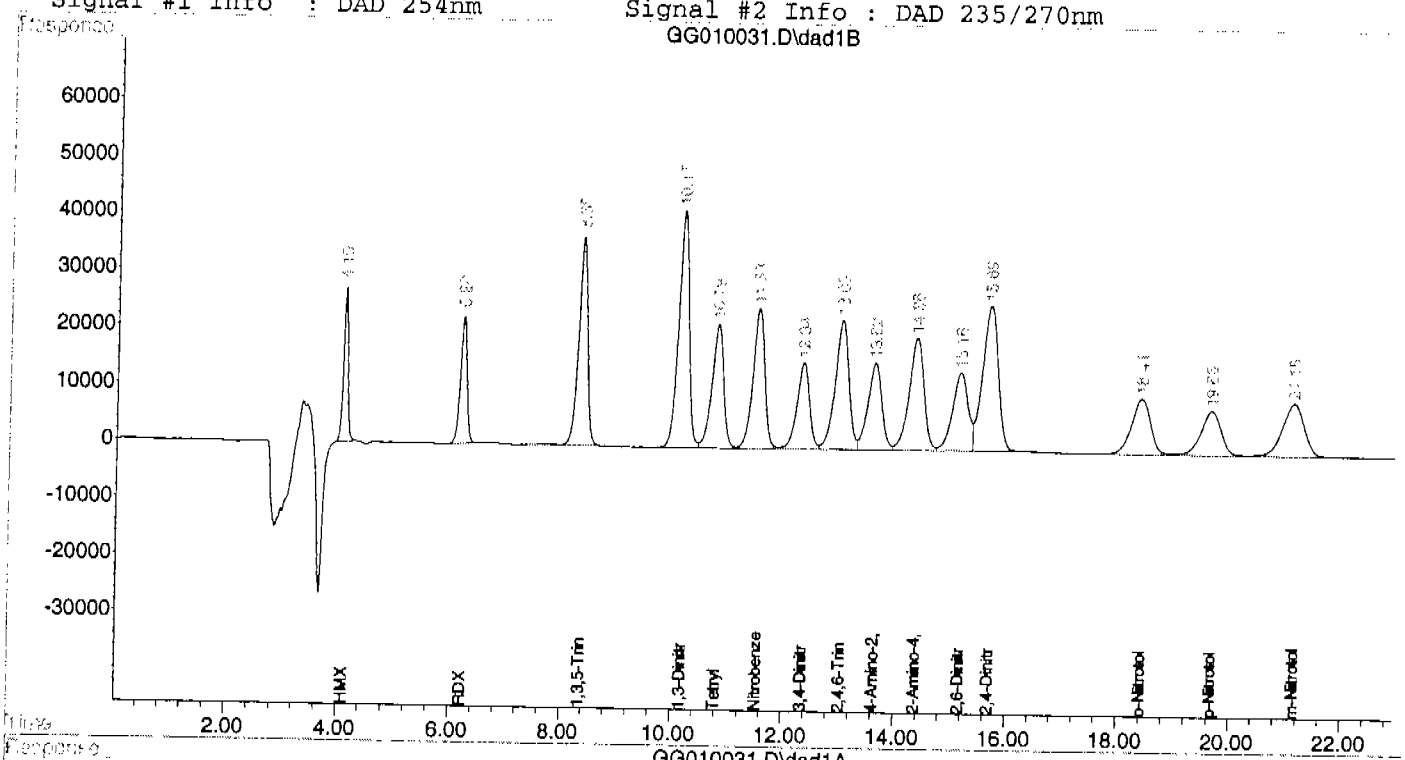
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

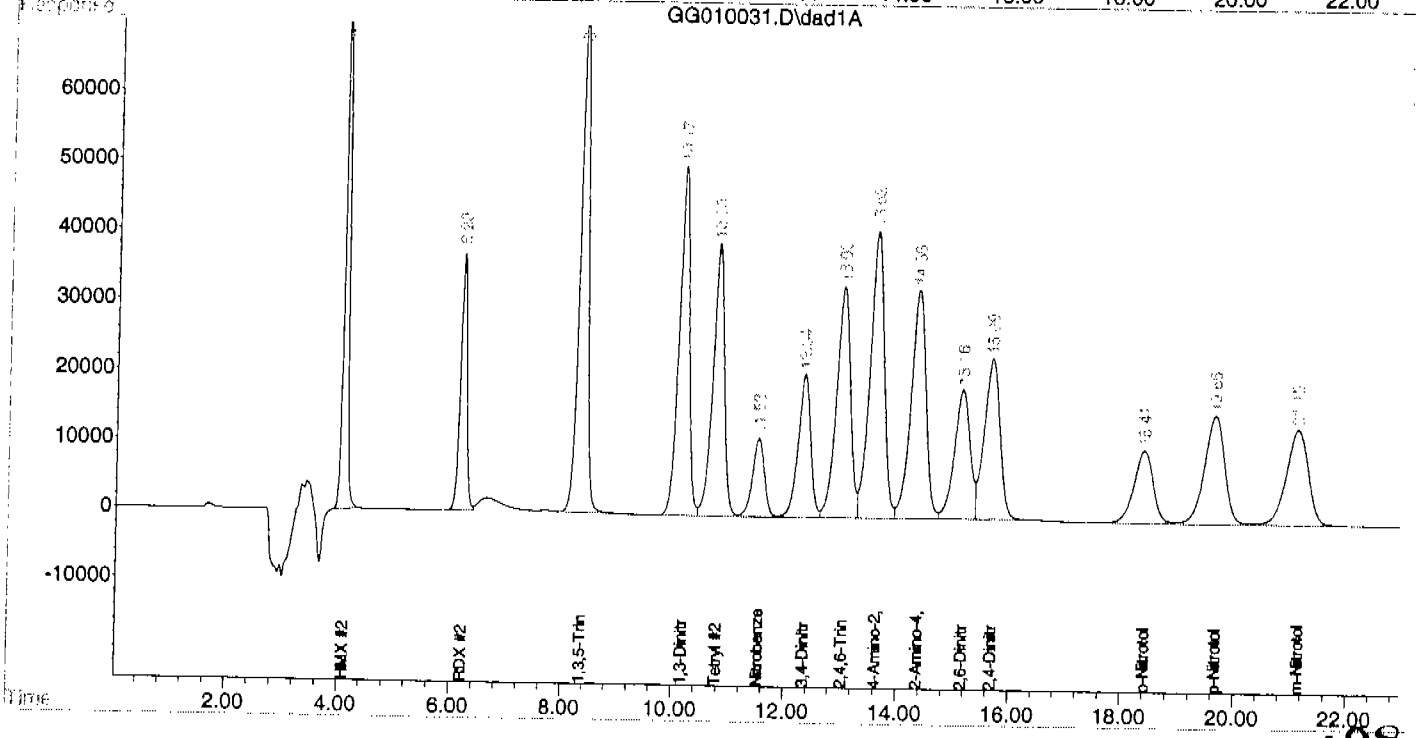
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010031.D\dad1B.ch Vial: 6
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010031.D\dad1A.ch
Acq On : 24-Aug-2004, 17:35:42 Operator: MIKEE
Sample : ICC474-500 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:58 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010032.D\dad1B.ch Vial: 7
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010032.D\dad1A.ch
Acq On : 24-Aug-2004, 18:01:14 Operator: MIKEE
Sample : IC474-750 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:59 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
7) S 3,4-Dinitrotolue	12.35	12.35	3567222	4865386	757.650	757.001
Spiked Amount 250.000 Range 61 - 124 Recovery =					303.06%#	302.80%#
Target Compounds						
1) HMX	4.10	4.10	2221180	6546629	710.205m	709.755m
2) RDX	6.21	6.21	2690193	4456163	646.874m	597.032
3) 1,3,5-Trinitrobe	8.36	8.36	5956339	12098794	713.353	717.479
4) 1,3-Dinitrobenze	10.18	10.18	8071175	9730117	710.702	715.383
5) Tetryl	10.80	10.80	4680347	8456887	727.558	734.910
6) Nitrobenzene	11.53	11.53	5367524	2521871	723.455	735.587
8) 2,4,6-Trinitroto	13.04	13.04	5740313	8459066	727.611	732.715
9) 4-Amino-2,6-Dini	13.63	13.63	3944288	10646902	712.500	713.918
10) 2-Amino-4,6-Dini	14.38	14.38	5329639	8938284	712.428	716.665
11) 2,6-Dinitrotolue	15.18	15.18	4010807	5443780	721.776	728.923
12) 2,4-Dinitrotolue	15.71	15.71	7504275	6831129	719.070	728.505
13) o-Nitrotoluene	18.45	18.45	3423536	3699917	710.965	727.936
14) p-Nitrotoluene	19.70	19.70	2876144	5733536	685.198	703.160
15) m-Nitrotoluene	21.20	21.20	3644573	5382904	696.234	688.758

8/25/04

8/25/04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010032.D 8330_EX2.M Wed Aug 25 08:10:35 2004

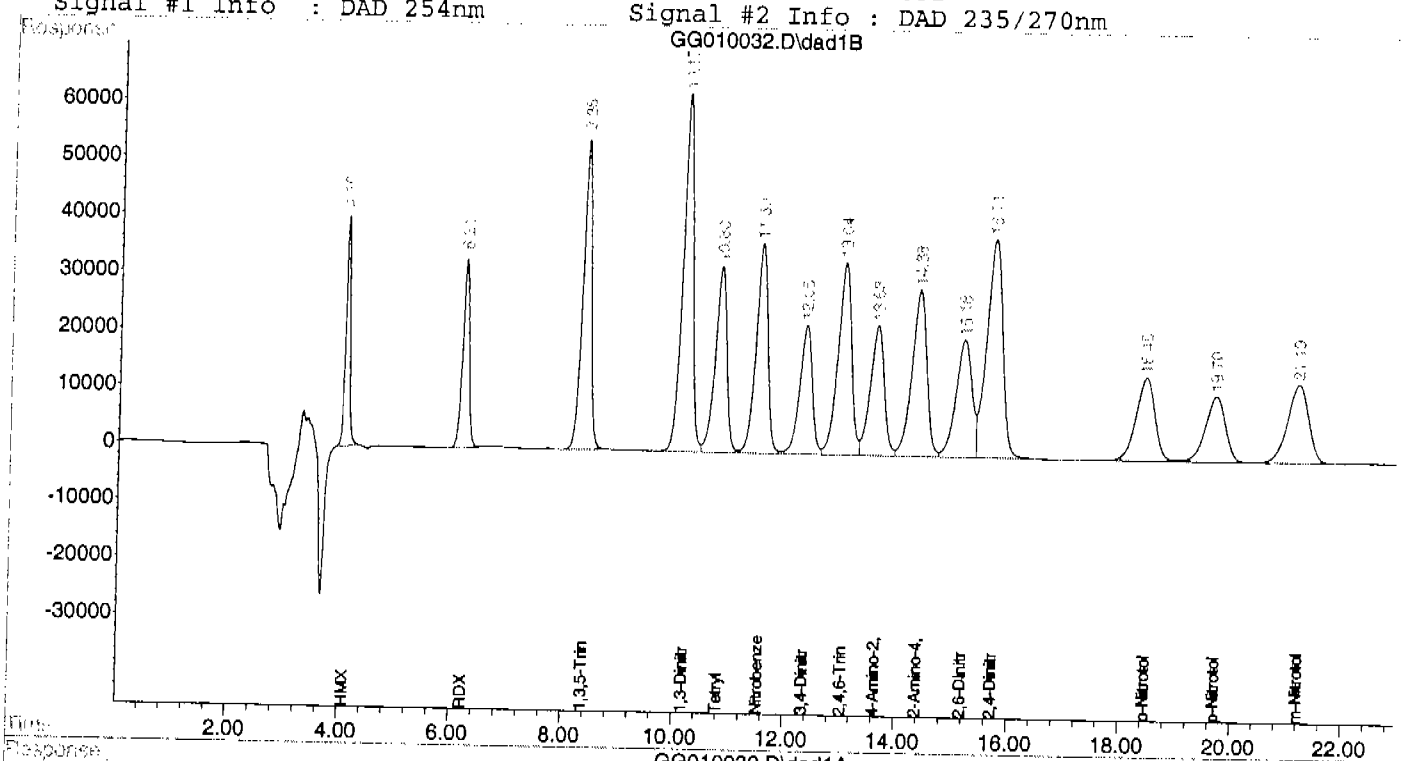
0109

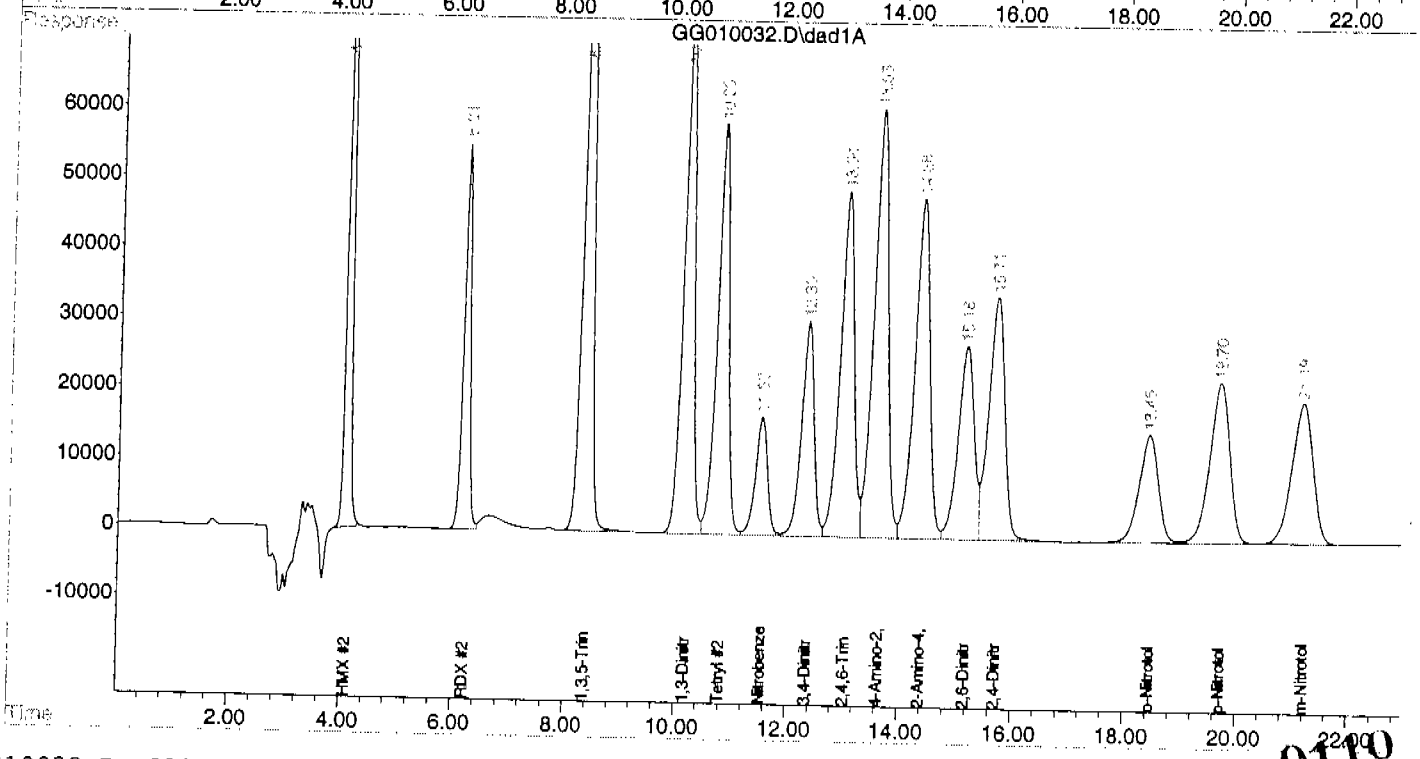
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010032.D\dad1B.ch Vial: 7
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010032.D\dad1A.ch
Acq On : 24-Aug-2004, 18:01:14 Operator: MIKEE
Sample : IC474-750 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:59 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS
Signal #1 Info : DAD 254nm
Signal #2 Phase: ODS
Signal #2 Info : DAD 235/270nm





Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010033.D\dad1B.ch Vial: 8
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010033.D\dad1A.ch
Acq On : 24-Aug-2004, 18:26:45 Operator: MIKEE
Sample : IC474-1000 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:59 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.23	12.23	4492150	6134793	954.097	954.507
	Spiked Amount 250.000 Range 61 - 124 Recovery =					381.64%#	381.80%#
	Target Compounds						
1)	HMX	4.08	4.08	2828820	8462822	904.493m	917.500
2)	RDX	6.18	6.18	3376673	5675138	811.942	760.348
3)	1,3,5-Trinitrobe	8.31	8.31	7616428	15425642	912.171	914.767
4)	1,3-Dinitrobenze	10.11	10.11	10232950	12353681	901.055	908.274
5)	Tetryl	10.71	10.71	5932349	10696345	922.181	929.521
6)	Nitrobenzene	11.44	11.44	6836103	3195994	921.395	932.216
8)	2,4,6-Trinitroto	12.93	12.93	7248187	10706920	918.741	927.422
9)	4-Amino-2,6-Dini	13.51	13.51	4887983	13413779	882.970	899.448
10)	2-Amino-4,6-Dini	14.26	14.26	6687532	11286212	893.942	904.920
11)	2,6-Dinitrotolue	15.06	15.06	5011974	6832817	901.944	914.915
12)	2,4-Dinitrotolue	15.59	15.59	9479164	8560158	908.306	912.897
13)	o-Nitrotoluene	18.28	18.28	4306921	4569201	894.417	898.962
14)	p-Nitrotoluene	19.54	19.54	3655764	7256312	870.931	889.914
15)	m-Nitrotoluene	21.04	21.04	4912350	7205351	938.421	921.946

pil

8/25/04

MEK 8/25/04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

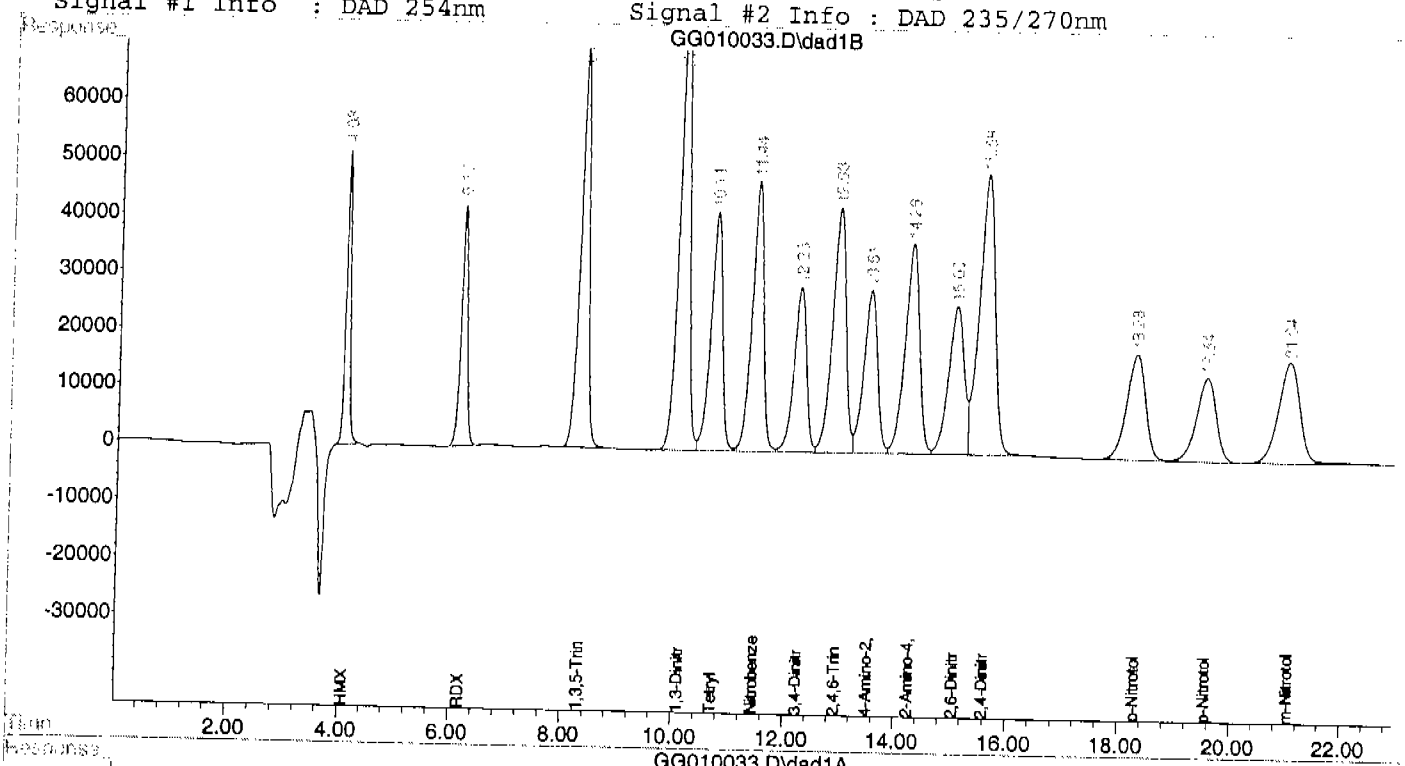
Quantitation Report (QT Reviewed)

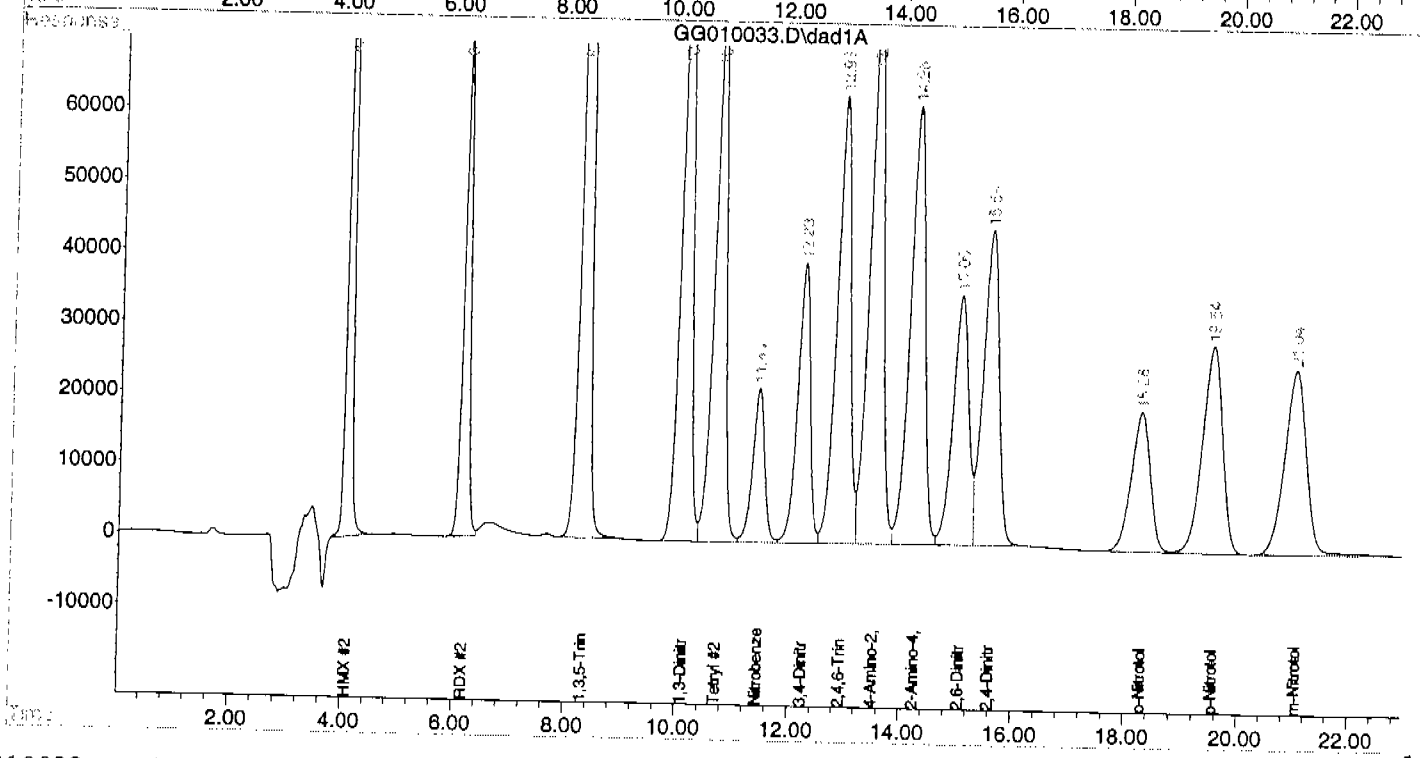
Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010033.D\dad1B.ch Vial: 8
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010033.D\dad1A.ch
Acq On : 24-Aug-2004, 18:26:45 Operator: MIKEE
Sample : IC474-1000 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 7:59 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS
Signal #1 Info : DAD 254nm

Signal #2 Phase: ODS
Signal #2 Info : DAD 235/270nm





Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010034.D\dad1B.ch Vial: 9
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010034.D\dad1A.ch
Acq On : 24-Aug-2004, 18:52:20 Operator: MIKEE
Sample : IC474-2000 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:00 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.28	12.28	9263164	12576933	1967.422	1956.834
	Spiked Amount 250.000 Range 61 - 124 Recovery = 786.97%# 782.73%#						
	Target Compounds						
1)	HMX	4.09	4.09	5743829	17084669	1836.545m	1852.240m
2)	RDX	6.19	6.19	6970945	11692121	1676.208	1566.497
3)	1,3,5-Trinitrobe	8.32	8.32	15575283	31521331	1865.353	1869.270
4)	1,3-Dinitrobenze	10.12	10.12	21142357	25510167	1861.676	1875.572
5)	Tetryl	10.73	10.73	12260021	22121543	1905.815	1922.379
6)	Nitrobenzene	11.47	11.47	13996122	6523448	1886.449	1902.778
8)	2,4,6-Trinitroto	12.97	12.97	14992734	21987166	1900.398	1904.505
9)	4-Amino-2,6-Dini	13.55	13.55	10271232	27691821	1855.405	1856.849
10)	2-Amino-4,6-Dini	14.29	14.29	13853214	23202113	1851.800	1860.328
11)	2,6-Dinitrotolue	15.09	15.09	10285957	13993319	1851.038	1873.707
12)	2,4-Dinitrotolue	15.63	15.63	19279706	17448226	1847.408	1860.763
13)	o-Nitrotoluene	18.35	18.35	8771837	9411236	1821.645	1851.603
14)	p-Nitrotoluene	19.61	19.61	7507713	15013708	1788.600	1841.280
15)	m-Nitrotoluene	21.08	21.08	9752332	14453964	1863.018	1849.427

pll 8/25/04

HDS 8/25/04

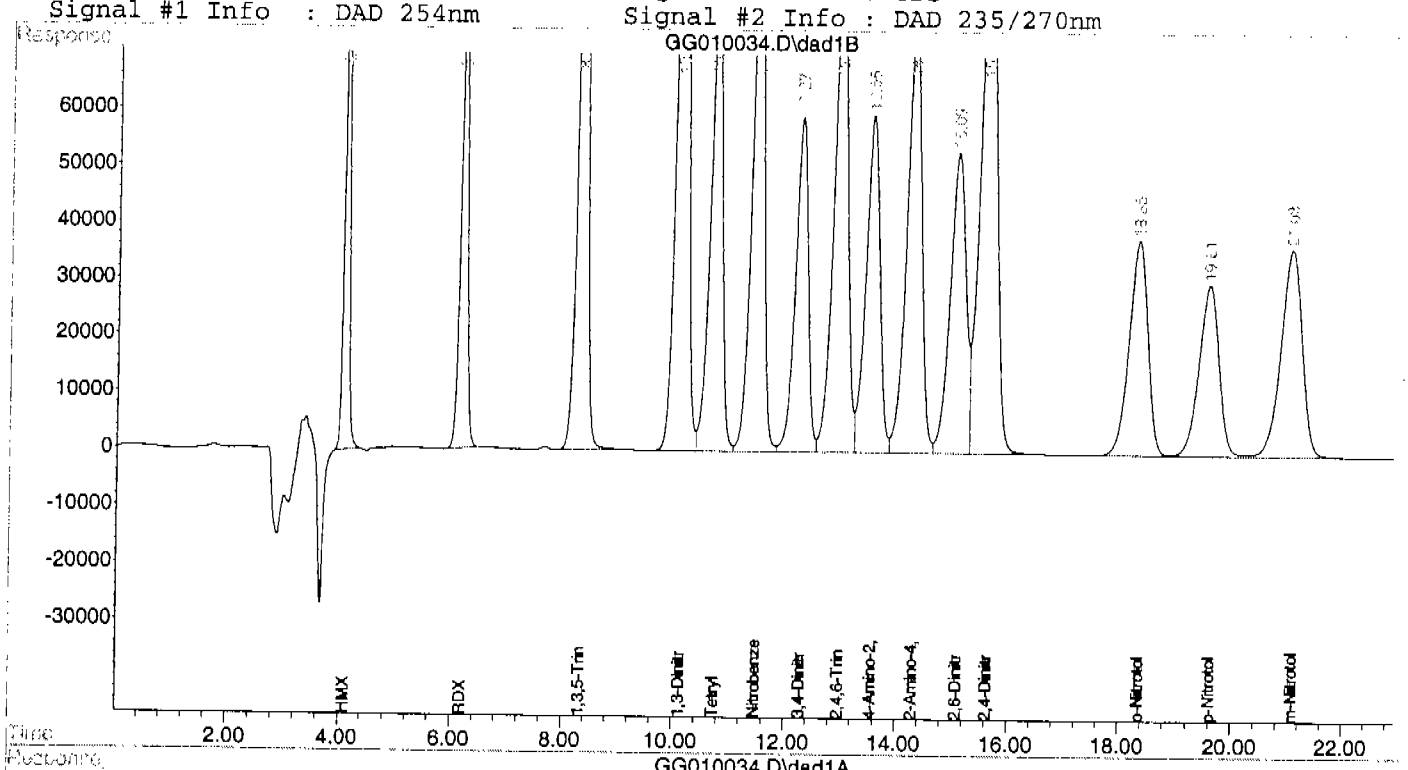
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

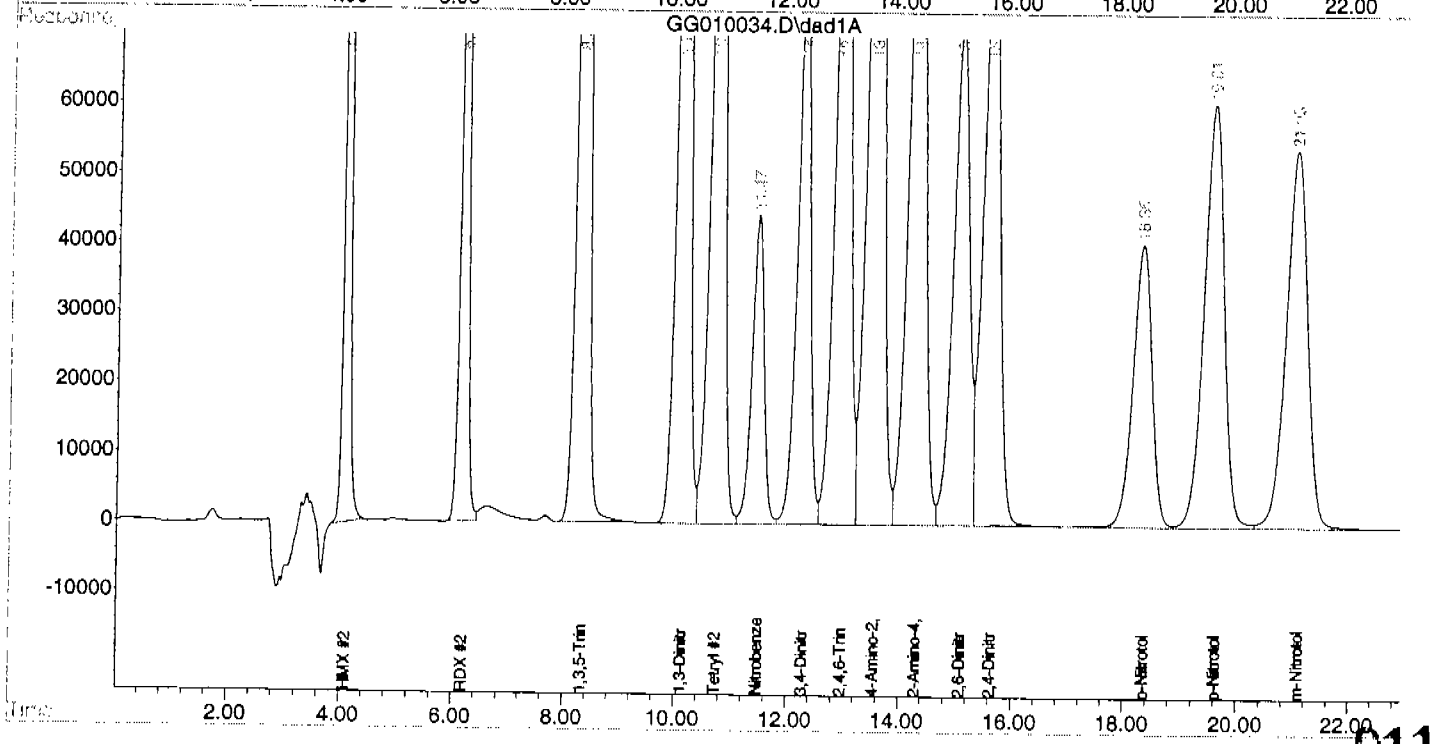
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010034.D\dad1B.ch Vial: 9
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010034.D\dad1A.ch
Acq On : 24-Aug-2004, 18:52:20 Operator: MIKEE
Sample : IC474-2000 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:00 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 07:42:41 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Response Factor Report G1315B

Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration

MDR 8/25/04

Calibration Files
20 =GG010028.D 100 =GG010029.D 250 =GG010030.D 500 =GG010031.D
750 =GG010032.D 1000=GG010033.D 2000=GG010034.D

	Compound	20	100	250	500	750	1000	2000	Avg		%RSD
1)	HMX	3.439	2.886	2.896	2.980	2.962	2.829	2.872	2.980	E3	7.00
2)	RDX	3.804	3.385	3.381	3.539	3.587	3.377	3.485	3.508	E3	4.42
3)	1,3,5-Trinitroben	8.423	7.666	7.658	8.074	7.942	7.616	7.788	7.881	E3	3.70
4)	1,3-Dinitrobenzen	1.124	1.086	1.055	1.080	1.076	1.023	1.057	1.072	E4	2.91
5)	Tetryl	7.546	6.365	6.161	6.241	6.240	5.932	6.130	6.374	E3	8.38
6)	Nitrobenzene	6.939	7.040	6.878	7.199	7.157	6.836	6.998	7.007	E3	1.94
7)S	3,4-Dinitrotoluen	4.678	4.333	4.629	4.805	4.756	4.492	4.632	4.618	E3	3.48
8)	2,4,6-Trinitrotol	8.209	7.114	7.611	7.690	7.654	7.248	7.496	7.575	E3	4.66
9)	4-Amino-2,6-Dinit	5.202	4.826	5.197	5.261	5.259	4.888	5.136	5.110	E3	3.49
10)	2-Amino-4,6-Dinit	7.355	6.447	7.054	7.189	7.106	6.688	6.927	6.966	E3	4.45
11)	2,6-Dinitrotoluen	4.810	5.040	5.194	5.316	5.348	5.012	5.143	5.123	E3	3.66
12)	2,4-Dinitrotoluen	1.096	0.972	0.944	0.989	1.001	0.948	0.964	0.988	E4	5.26
13)	o-Nitrotoluene	5.731	4.153	4.423	4.636	4.565	4.307	4.386	4.600	E3	11.38
14)	p-Nitrotoluene	4.913	3.988	3.755	3.990	3.835	3.656	3.754	3.984	E3	10.74
15)	m-Nitrotoluene	3.630	4.645	5.253	5.099	4.859	4.912	4.876	4.754	E3	11.18

Signal #2

1)	HMX	9.713	8.588	8.498	8.795	8.729	8.463	8.542	8.761	E3	4.99
2)	RDX	5.257	5.679	5.660	5.957	5.942	5.675	5.846	5.717	E3	4.18
3)	1,3,5-Trinitroben	1.769	1.581	1.552	1.615	1.613	1.543	1.576	1.607	E4	4.76
4)	1,3-Dinitrobenzen	1.486	1.311	1.266	1.301	1.297	1.235	1.276	1.310	E4	6.23
5)	Tetryl	1.369	1.155	1.094	1.123	1.128	1.070	1.106	1.149	E4	8.75
6)	Nitrobenzene	3.105	3.496	3.111	3.326	3.362	3.196	3.262	3.266	E3	4.34
7)S	3,4-Dinitrotoluen	6.560	6.225	6.111	6.482	6.487	6.135	6.288	6.327	E3	2.88
8)	2,4,6-Trinitrotol	1.095	1.077	1.090	1.130	1.128	1.071	1.099	1.099	E4	2.10
9)	4-Amino-2,6-Dinit	1.537	1.359	1.376	1.425	1.420	1.341	1.385	1.406	E4	4.63
10)	2-Amino-4,6-Dinit	1.231	1.115	1.160	1.204	1.192	1.129	1.160	1.170	E4	3.55
11)	2,6-Dinitrotoluen	6.516	6.776	7.045	7.280	7.258	6.833	6.997	6.958	E3	3.93
12)	2,4-Dinitrotoluen	8.903	8.683	8.611	8.982	9.108	8.560	8.724	8.796	E3	2.33
13)	o-Nitrotoluene	6.093	4.412	4.700	4.967	4.933	4.569	4.706	4.912	E3	11.31
14)	p-Nitrotoluene	9.177	8.159	7.446	7.852	7.645	7.256	7.507	7.863	E3	8.26
15)	m-Nitrotoluene	5.606	7.778	7.590	7.502	7.177	7.205	7.227	7.155	E3	10.06

(#) = Out of Range

8330_EX2.M Wed Aug 25 08:31:55 2004

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010035.D\dad1B.ch Vial: 10
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010035.D\dad1A.ch
Acq On : 24-Aug-2004, 19:17:50 Operator: MIKEE
Sample : ICV474-500 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:07 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 250.000	Range	61 - 124	Recovery	=	0.00%#	0.00%#
	Target Compounds						
1)	HMX	4.09	4.09	1654213	4923924	555.018m	562.011m
2)	RDX	6.20	6.20	1891881	3174706	539.270	555.355
3)	1,3,5-Trinitrobe	8.34	8.34	3964620	7967529	503.055	495.862
4)	1,3-Dinitrobenze	10.15	10.15	5939011	7158780	554.209	546.290
5)	Tetryl	10.76	10.76	3483247	6309549	546.502	549.077
6)	Nitrobenzene	11.50	11.50	3877248	1796309	553.365	550.080
8)	2,4,6-Trinitroto	13.00	13.00	4049799	5939819	534.657	540.624
9)	4-Amino-2,6-Dini	13.59	13.59	2854856	7715492	558.694	548.712
10)	2-Amino-4,6-Dini	14.32	14.32	3970469	6643917	569.942	567.901
11)	2,6-Dinitrotolue	15.11	15.11	2868925	3936103	559.979	565.709
12)	2,4-Dinitrotolue	15.64	15.64	5329337	4813836	539.547	547.286
13)	o-Nitrotoluene	18.34	18.34	2523106	2684910	548.488	546.655
14)	p-Nitrotoluene	19.59	19.59	2163014	4297783	542.872	546.574
15)	m-Nitrotoluene	21.06	21.06	2651633	3937210	557.804	550.270

p11

a 8/25/04

MK 8/25/04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010035.D 8330_EX2.M Wed Aug 25 08:10:46 2004

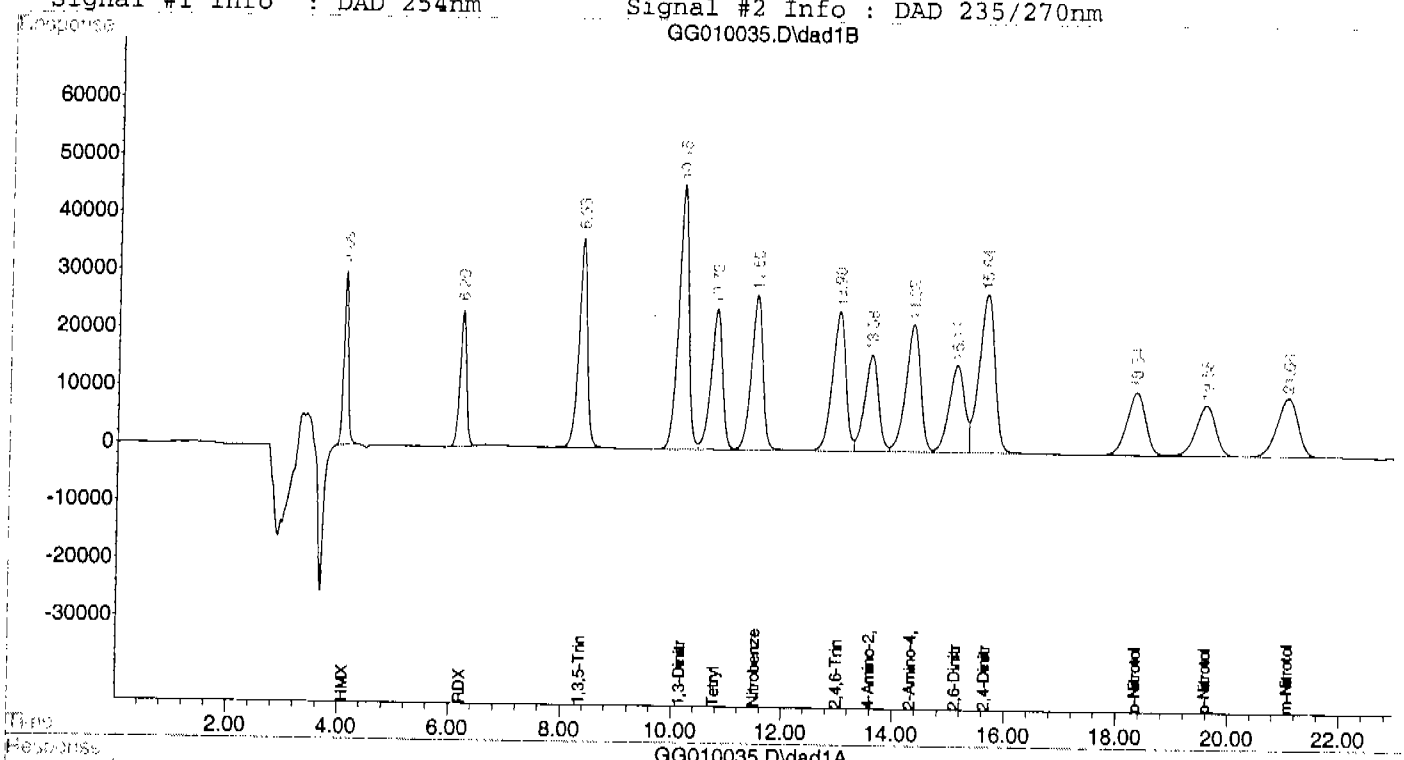
0116

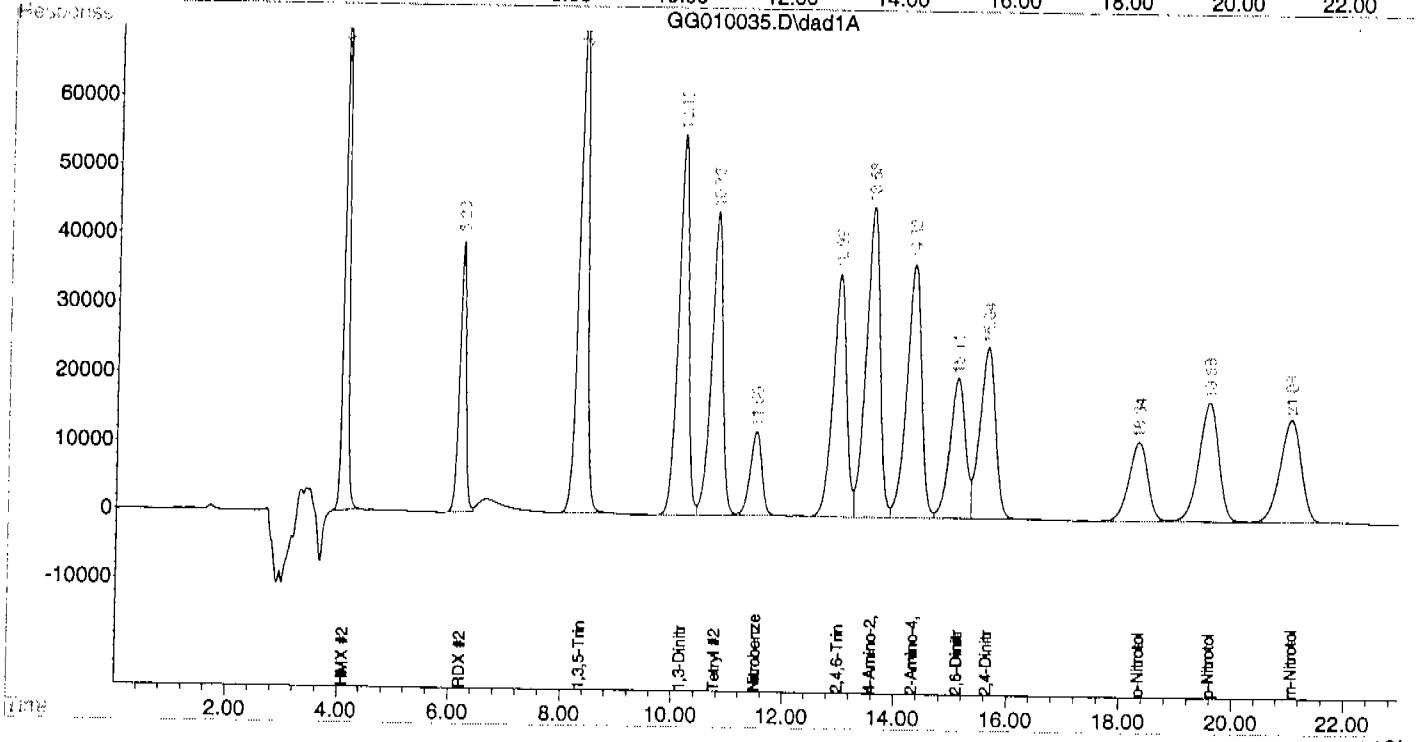
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010035.D\dad1B.ch Vial: 10
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010035.D\dad1A.ch
Acq On : 24-Aug-2004, 19:17:50 Operator: MIKEE
Sample : ICV474-500 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:07 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010035.D\dad1B.ch Vial: 10
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010035.D\dad1A.ch
Acq On : 24-Aug-2004, 19:17:50 Operator: MIKEE
Sample : ICV474-500 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1		HMX	500.000	555.018	-11.0	111	-0.05	3.64- 4.64
2		RDX	500.000	539.270	-7.9	107	-0.07	5.77- 6.77
3		1,3,5-Trinitrobenzene	500.000	503.055	-0.6	98	-0.09	7.93- 8.93
4		1,3-Dinitrobenzene	500.000	554.209	-10.8	110	-0.10	9.74-10.74
5		Tetryl	500.000	546.502	-9.3	112	-0.11	10.37-11.37
6		Nitrobenzene	500.000	553.365	-10.7	108	-0.08	11.08-12.08
7	S	3,4-Dinitrotoluene		----------NA----------				
8		2,4,6-Trinitrotoluene	500.000	534.657	-6.9	105	-0.08	12.58-13.58
9		4-Amino-2,6-Dinitrotol	500.000	558.694	-11.7	109	-0.09	13.17-14.17
10		2-Amino-4,6-Dinitrotol	500.000	569.942	-14.0	110	-0.07	13.90-14.90
11		2,6-Dinitrotoluene	500.000	559.979	-12.0	108	-0.08	14.69-15.69
12		2,4-Dinitrotoluene	500.000	539.547	-7.9	108	-0.08	15.22-16.22
13		o-Nitrotoluene	500.000	548.488	-9.7	109	-0.12	17.96-18.96
14		p-Nitrotoluene	500.000	542.872	-8.6	108	-0.14	19.23-20.23
15		m-Nitrotoluene	500.000	557.804	-11.6	104	-0.16	20.73-21.73

***** Signal #2 *****

1		HMX	500.000	562.011	-12.4	112	-0.05	3.64- 4.64
2		RDX	500.000	555.355	-11.1	107	-0.07	5.77- 6.77
3		1,3,5-Trinitrobenzene	500.000	495.862	0.8	99	-0.09	7.93- 8.93
4		1,3-Dinitrobenzene	500.000	546.290	-9.3	110	-0.10	9.74-10.74
5		Tetryl	500.000	549.077	-9.8	112	-0.11	10.38-11.38
6		Nitrobenzene	500.000	550.080	-10.0	108	-0.09	11.09-12.09
7	S	3,4-Dinitrotoluene		----------NA----------				
8		2,4,6-Trinitrotoluene	500.000	540.624	-8.1	105	-0.08	12.58-13.58
9		4-Amino-2,6-Dinitrotol	500.000	548.712	-9.7	108	-0.08	13.17-14.17
10		2-Amino-4,6-Dinitrotol	500.000	567.901	-13.6	110	-0.07	13.90-14.90
11		2,6-Dinitrotoluene	500.000	565.709	-13.1	108	-0.08	14.69-15.69
12		2,4-Dinitrotoluene	500.000	547.286	-9.5	107	-0.08	15.22-16.22
13		o-Nitrotoluene	500.000	546.655	-9.3	108	-0.15	17.99-18.99
14		p-Nitrotoluene	500.000	546.574	-9.3	109	-0.17	19.26-20.26
15		m-Nitrotoluene	500.000	550.270	-10.1	105	-0.16	20.73-21.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG010031.D 8330_EX2.M Wed Aug 25 08:32:21 2004

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000683.D\dad1B.ch Vial: 3
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000683.D\dad1A.ch
Acq On : 24-Aug-2004, 09:32:48 Operator: MIKEE
Sample : IC27-200 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:20 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.60	89645	23.896 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	9.56%#
5) S 3,4-Dinitrotoluene #2	3.61	49331	24.528 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	9.81%#
Target Compounds			
1) Nitroglycerin	2.92	238012	202.434 ppb
3) PETN	5.13	270662	199.470 ppb

MB 8/24/04

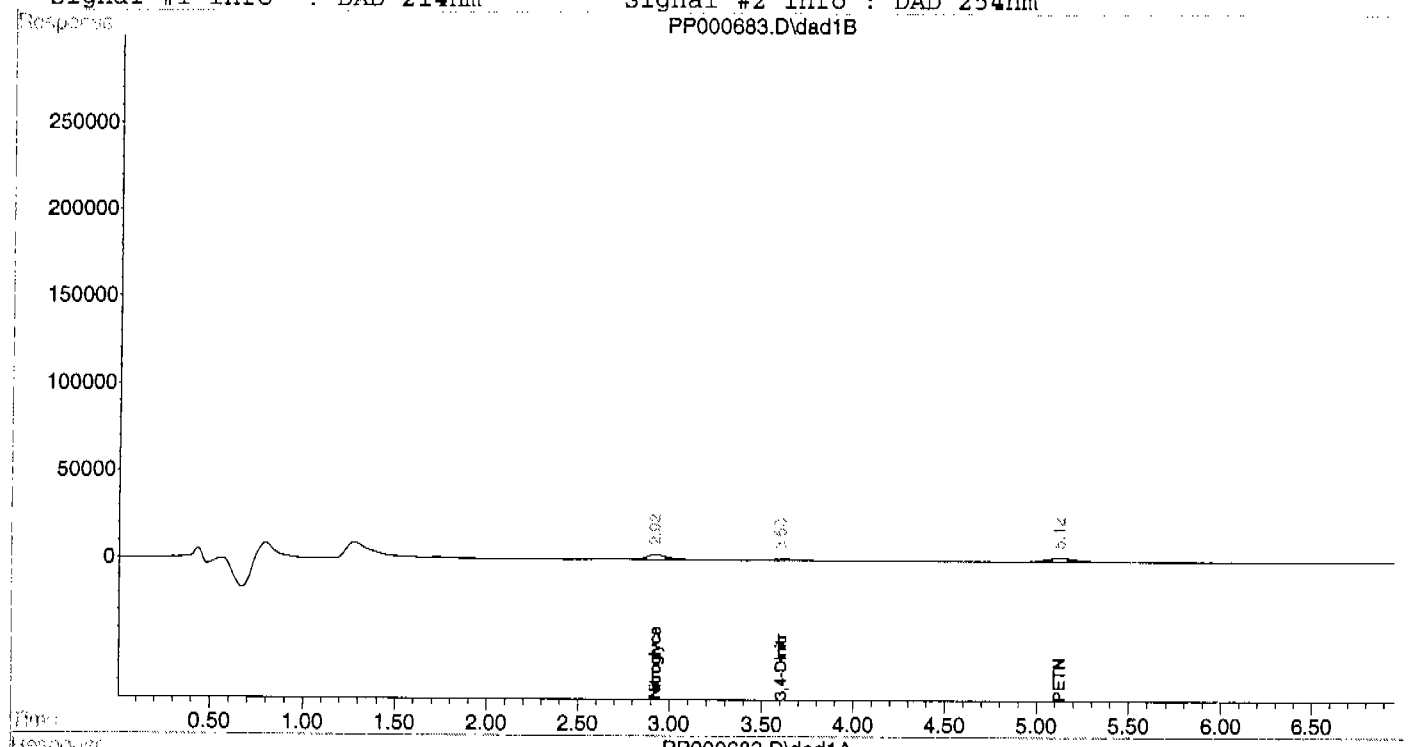
(f)=RT Delta > 1/2 Window (m)=manual int.

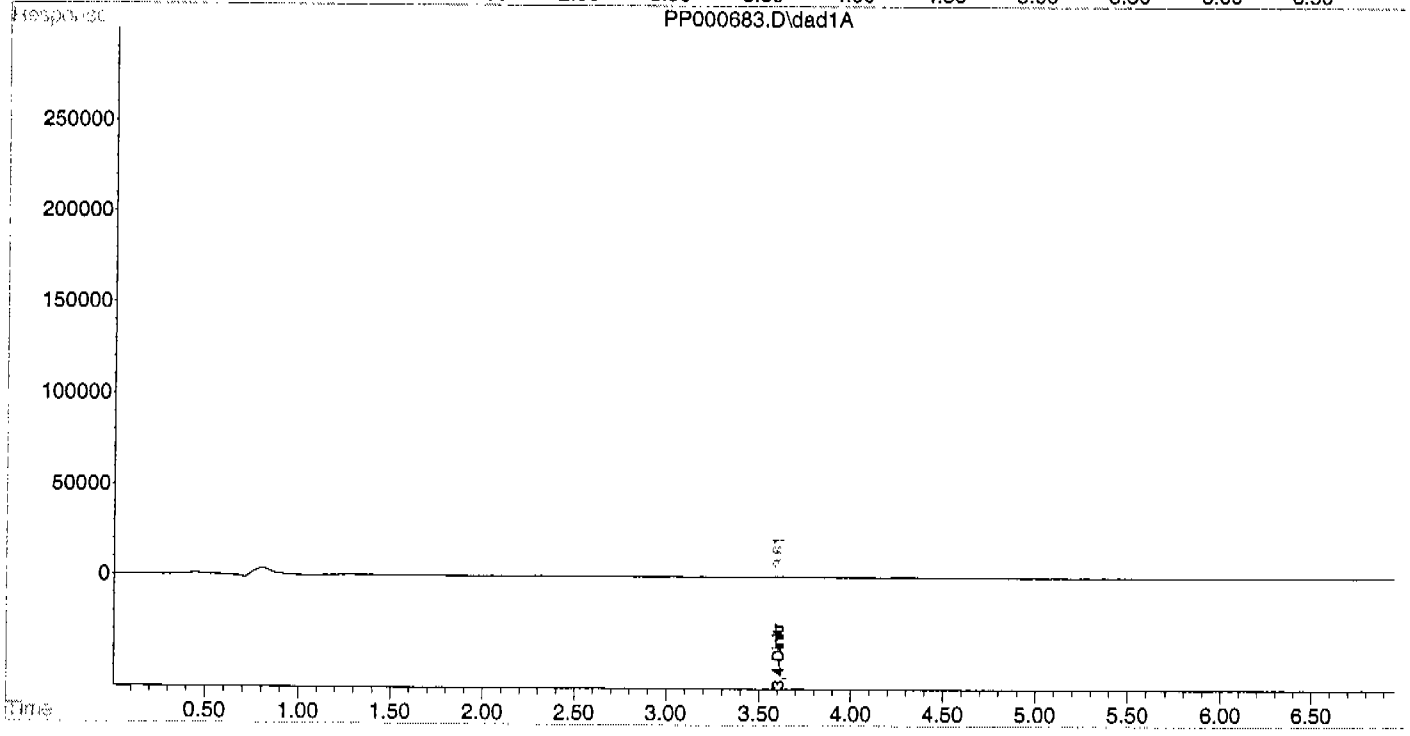
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000683.D\dad1B.ch Vial: 3
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000683.D\dad1A.ch
Acq On : 24-Aug-2004, 09:32:48 Operator: MIKEE
Sample : IC27-200 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:20 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000684.D\dad1B.ch Vial: 4
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000684.D\dad1A.ch
Acq On : 24-Aug-2004, 09:41:19 Operator: MIKEE
Sample : IC27-1000 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:20 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.60	425472	113.414 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	45.37%#
5) S 3,4-Dinitrotoluene #2	3.60	218613	108.698 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery =	43.48%#
Target Compounds			
1) Nitroglycerin	2.93	1171567	996.442 ppb
3) PETN	5.13	1344993	991.217 ppb

MK 8/24/04

C121

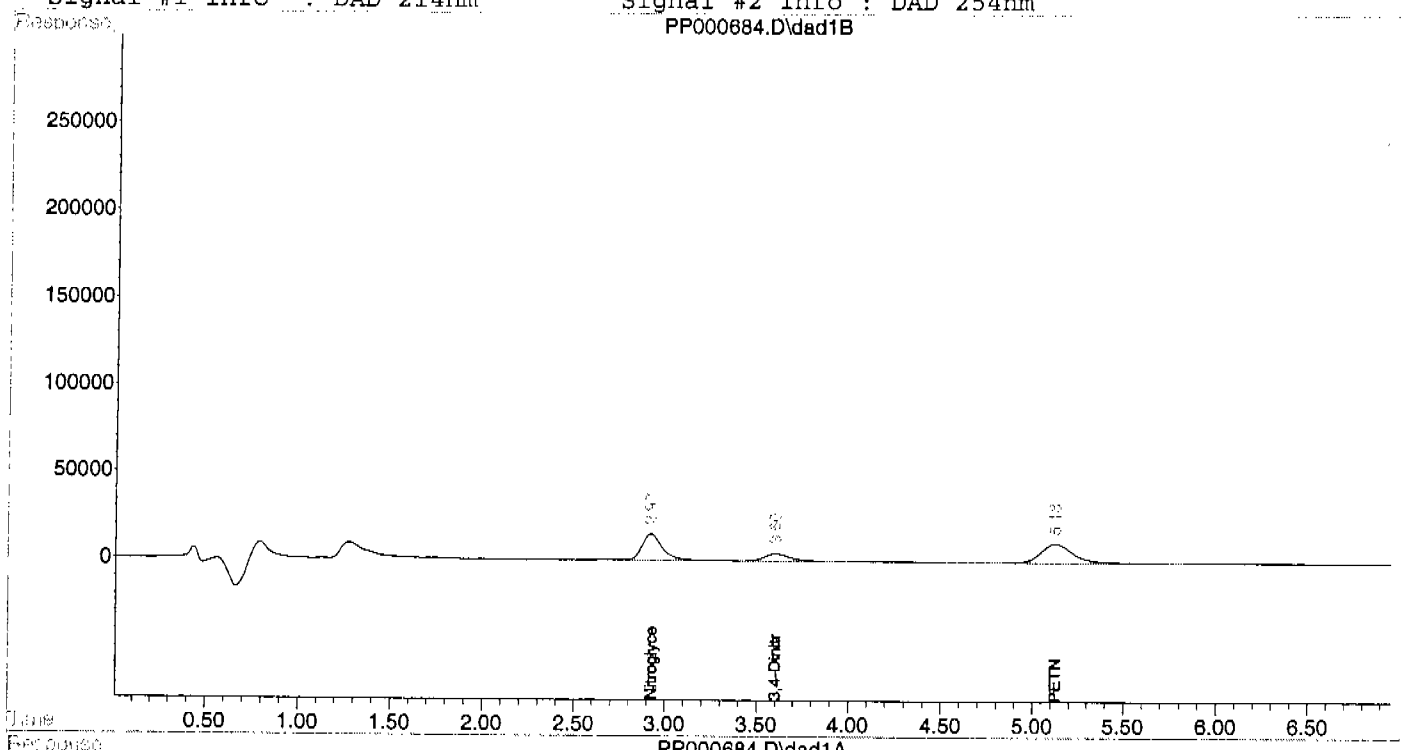
(f)=RT Delta > 1/2 Window (m)=manual int.

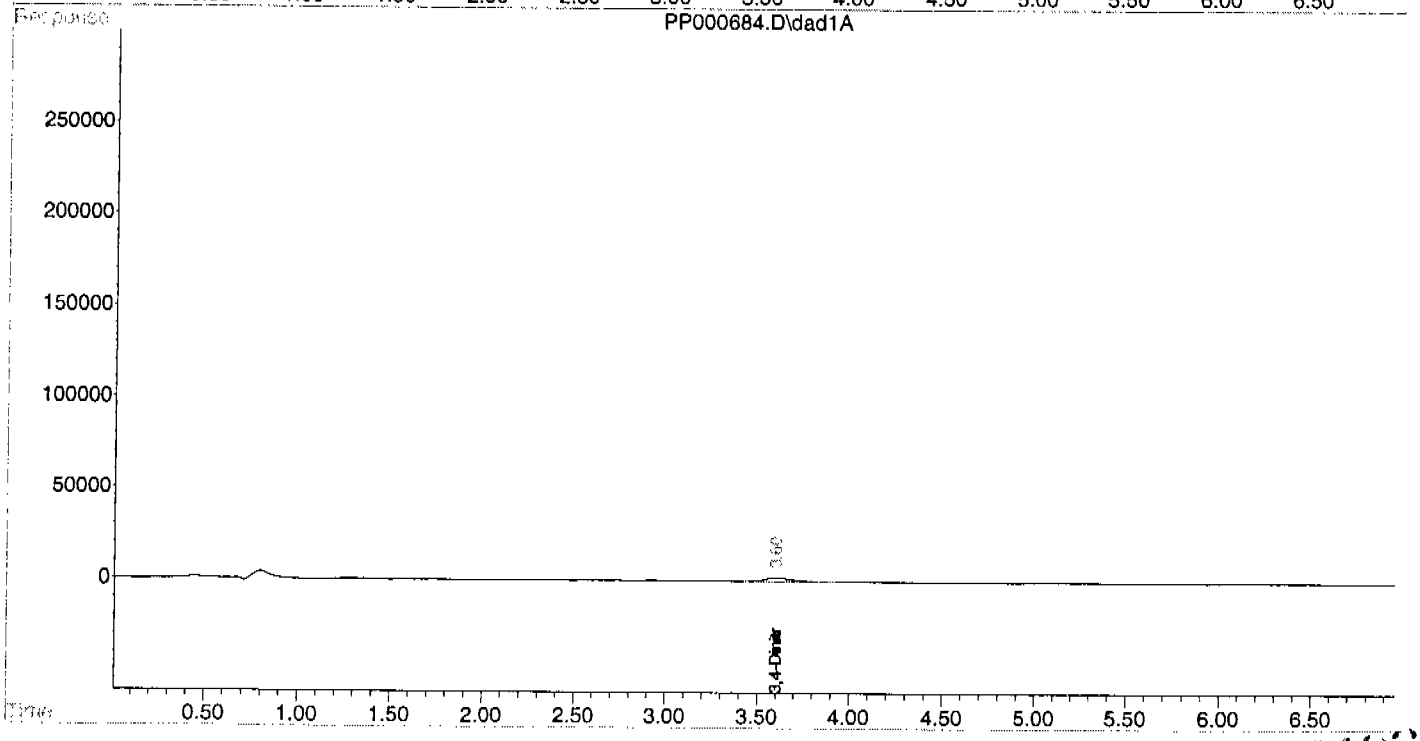
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000684.D\dad1B.ch Vial: 4
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000684.D\dad1A.ch
Acq On : 24-Aug-2004, 09:41:19 Operator: MIKEE
Sample : IC27-1000 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:20 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





0122

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000685.D\dad1B.ch Vial: 5
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000685.D\dad1A.ch
Acq On : 24-Aug-2004, 09:49:48 Operator: MIKEE
Sample : ICC27-2500 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:20 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.60	1007321	268.513 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 107.41%	
5) S 3,4-Dinitrotoluene #2	3.60	523546	260.316 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 104.13%	
Target Compounds			
1) Nitroglycerin	2.93	2844706	2419.480 ppb
3) PETN	5.13	3216538	2370.486 ppb

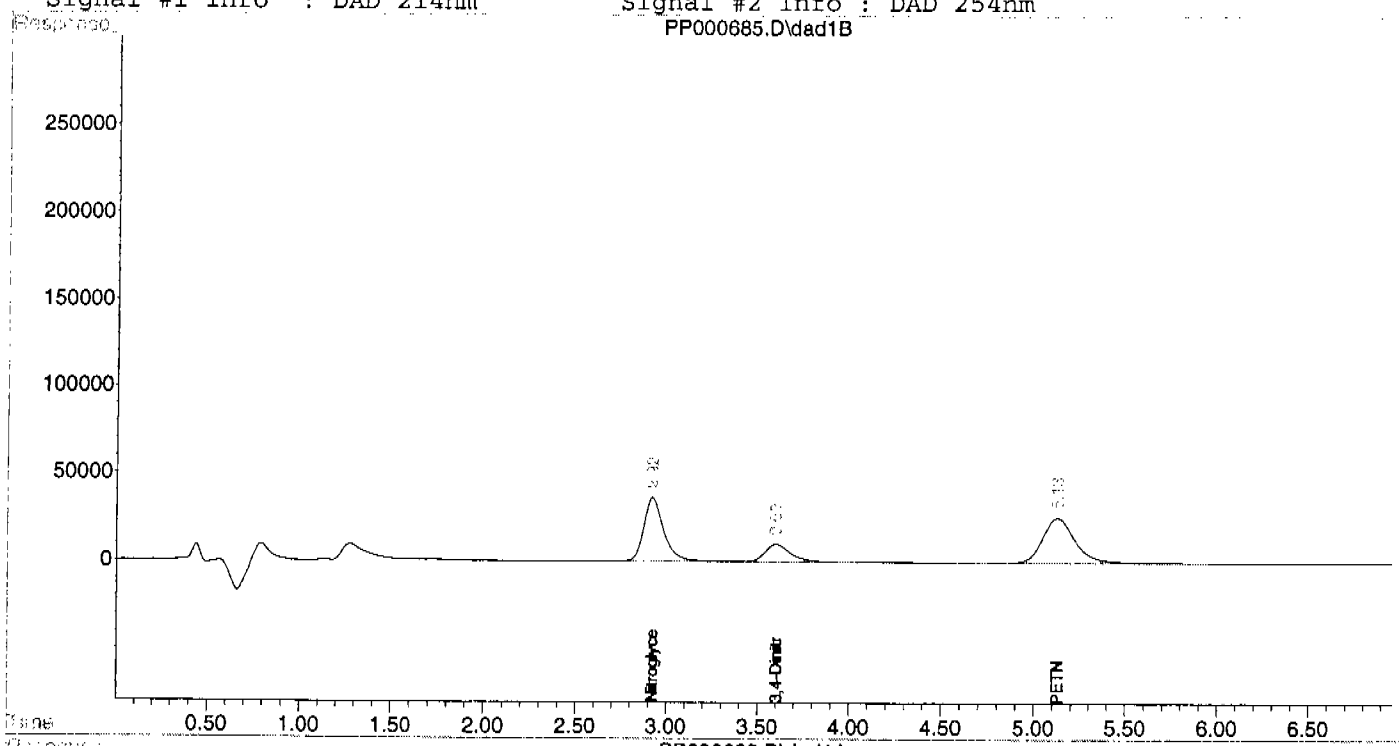
MK 8/24/04

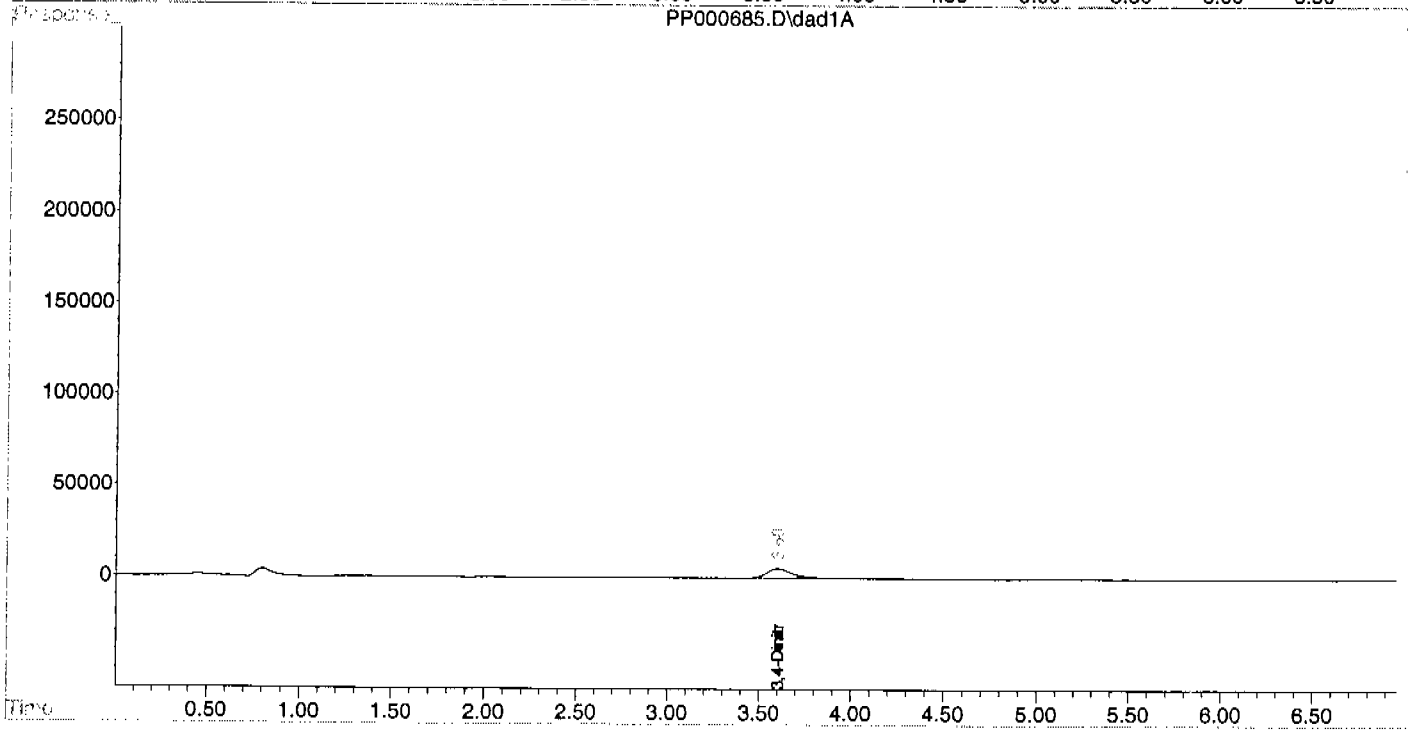
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000685.D\dad1B.ch Vial: 5
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000685.D\dad1A.ch
Acq On : 24-Aug-2004, 09:49:48 Operator: MIKEE
Sample : ICC27-2500 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:20 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000686.D\dad1B.ch Vial: 6
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000686.D\dad1A.ch
Acq On : 24-Aug-2004, 09:58:19 Operator: MIKEE
Sample : IC27-5000 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:20 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.60	2074152	552.889 ppb
Spiked Amount 250.000	Range 61 - 124	Recovery	= 221.16%#
5) S 3,4-Dinitrotoluene #2	3.60	1076728	535.368 ppb
Spiked Amount 250.000	Range 61 - 124	Recovery	= 214.15%#
Target Compounds			
1) Nitroglycerin	2.93	5842843	4969.456 ppb
3) PETN	5.13	6794379	5007.241 ppb

PP 8/24/04

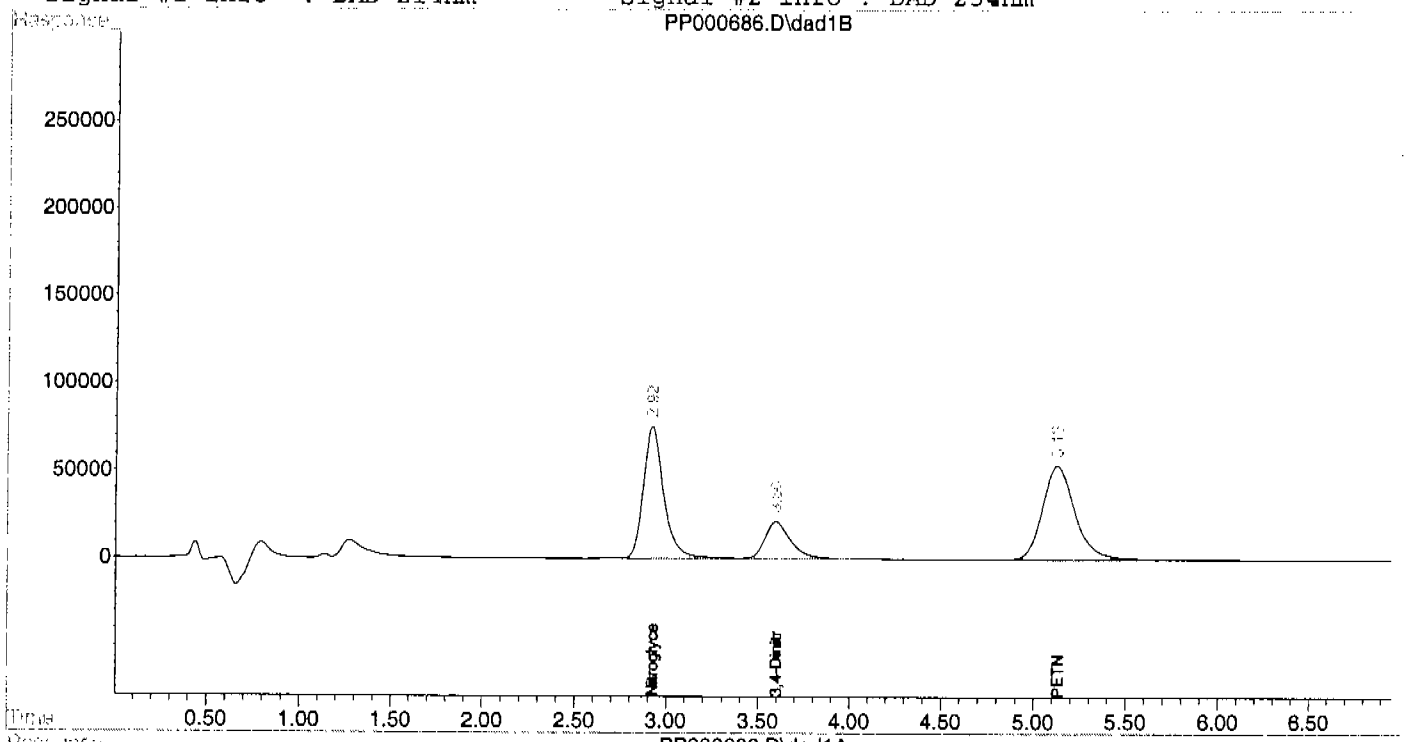
(f)=RT Delta > 1/2 Window (m)=manual int.

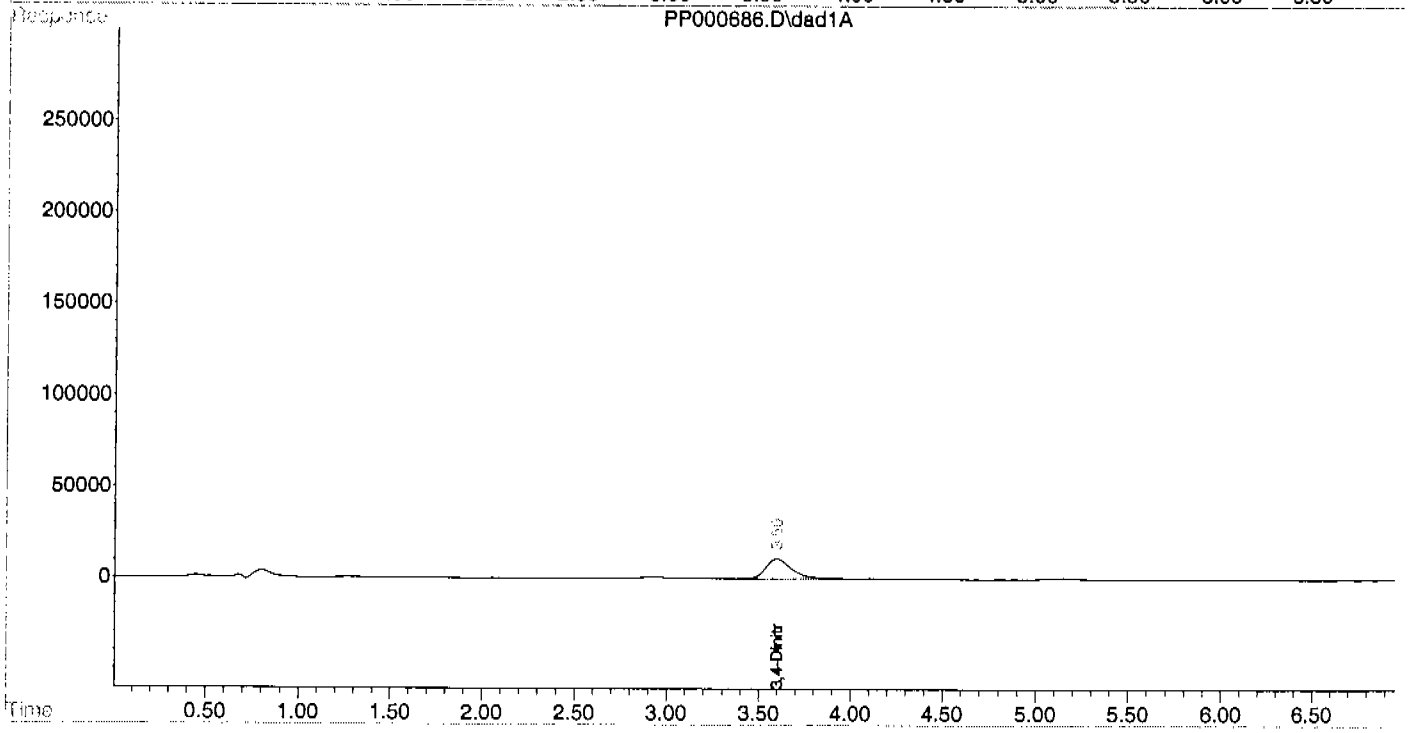
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000686.D\dad1B.ch Vial: 6
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000686.D\dad1A.ch
Acq On : 24-Aug-2004, 09:58:19 Operator: MIKEE
Sample : IC27-5000 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:20 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000687.D\dad1B.ch Vial: 7
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000687.D\dad1A.ch
Acq On : 24-Aug-2004, 10:06:49 Operator: MIKEE
Sample : IC27-7500 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:21 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.60	3261643	869.428 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 347.77%#	
5) S 3,4-Dinitrotoluene #2	3.60	1651087	820.949 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 328.38%#	
Target Compounds			
1) Nitroglycerin	2.92	8758617	7449.381 ppb
3) PETN	5.13	10122110	7459.673 ppb

MKE 8/24/04

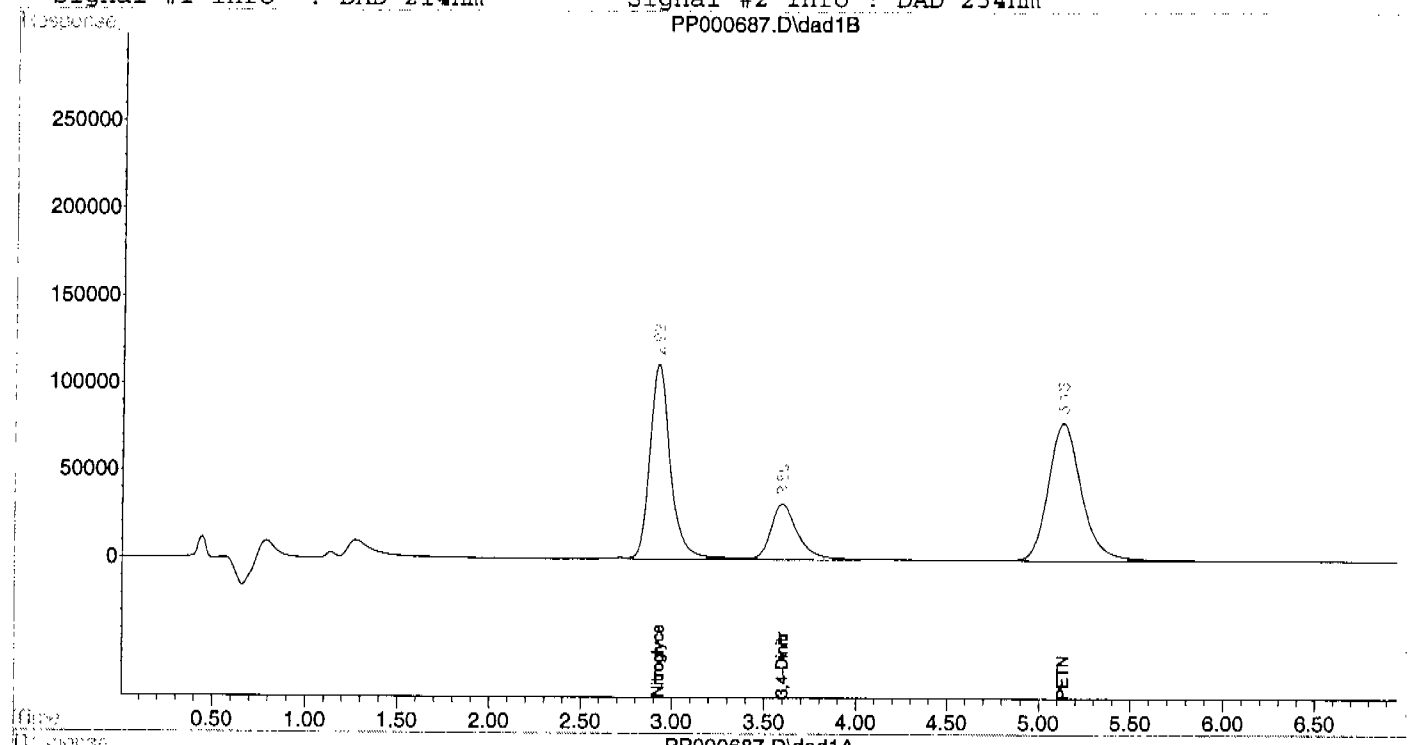
(f)=RT Delta > 1/2 Window (m)=manual int.

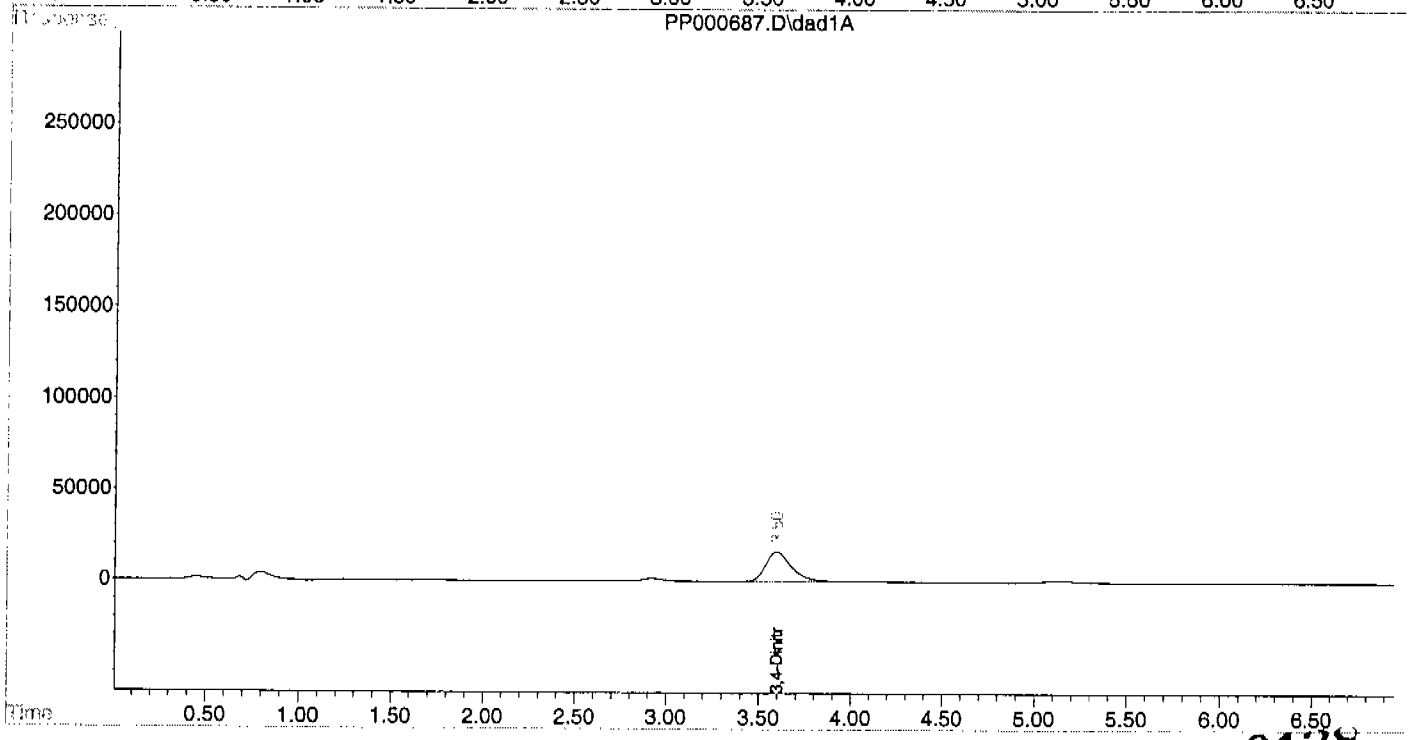
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000687.D\dad1B.ch Vial: 7
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000687.D\dad1A.ch
Acq On : 24-Aug-2004, 10:06:49 Operator: MIKEE
Sample : IC27-7500 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:21 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000688.D\dad1B.ch Vial: 8
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000688.D\dad1A.ch
Acq On : 24-Aug-2004, 10:15:20 Operator: MIKEE
Sample : IC27-10000 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:23 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.60	4452257	1186.800 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 474.72%#	
5) S 3,4-Dinitrotoluene #2	3.60	2227528	1107.566 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 443.03%#	
Target Compounds			
1) Nitroglycerin	2.92	11826636	10058.792 ppb
3) PETN	5.14	13842584	10201.544 ppb

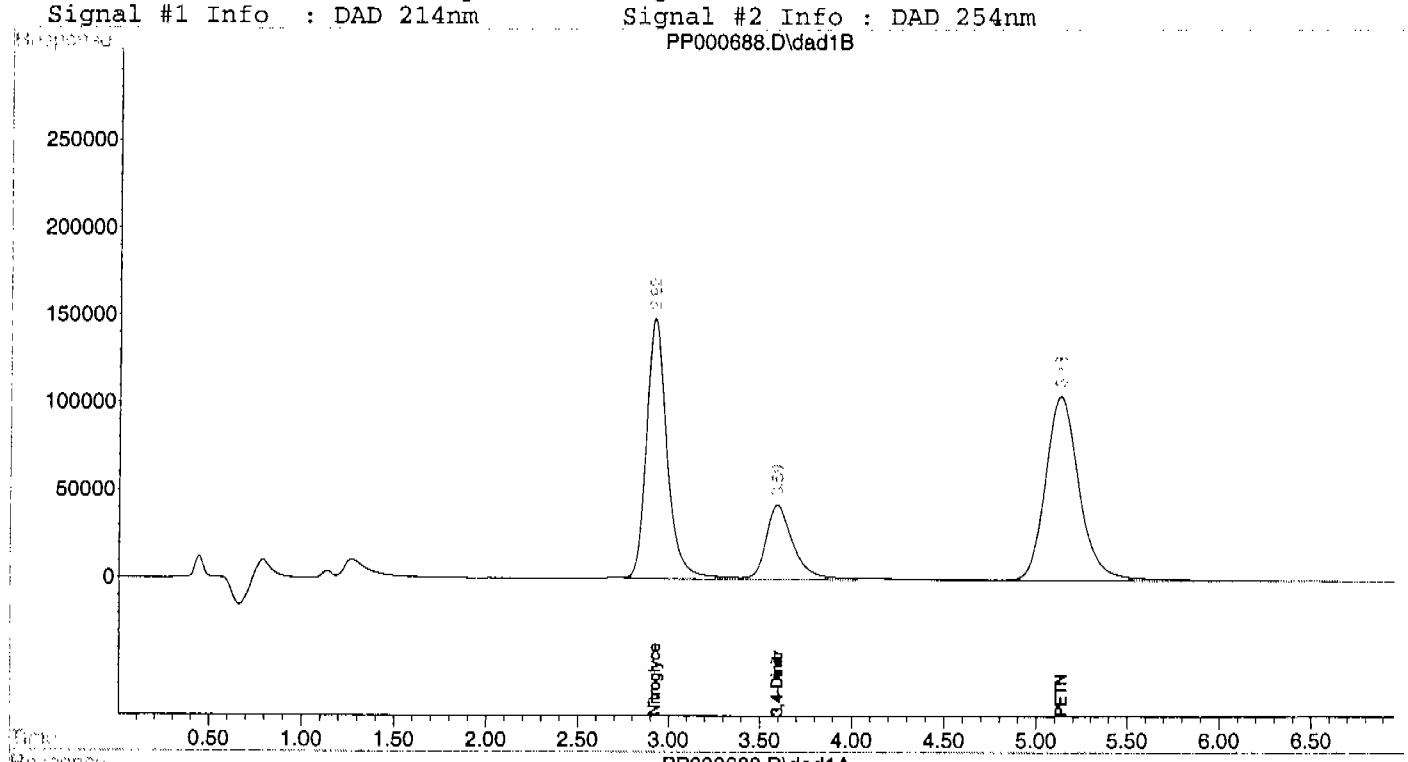
MB 8/24/04

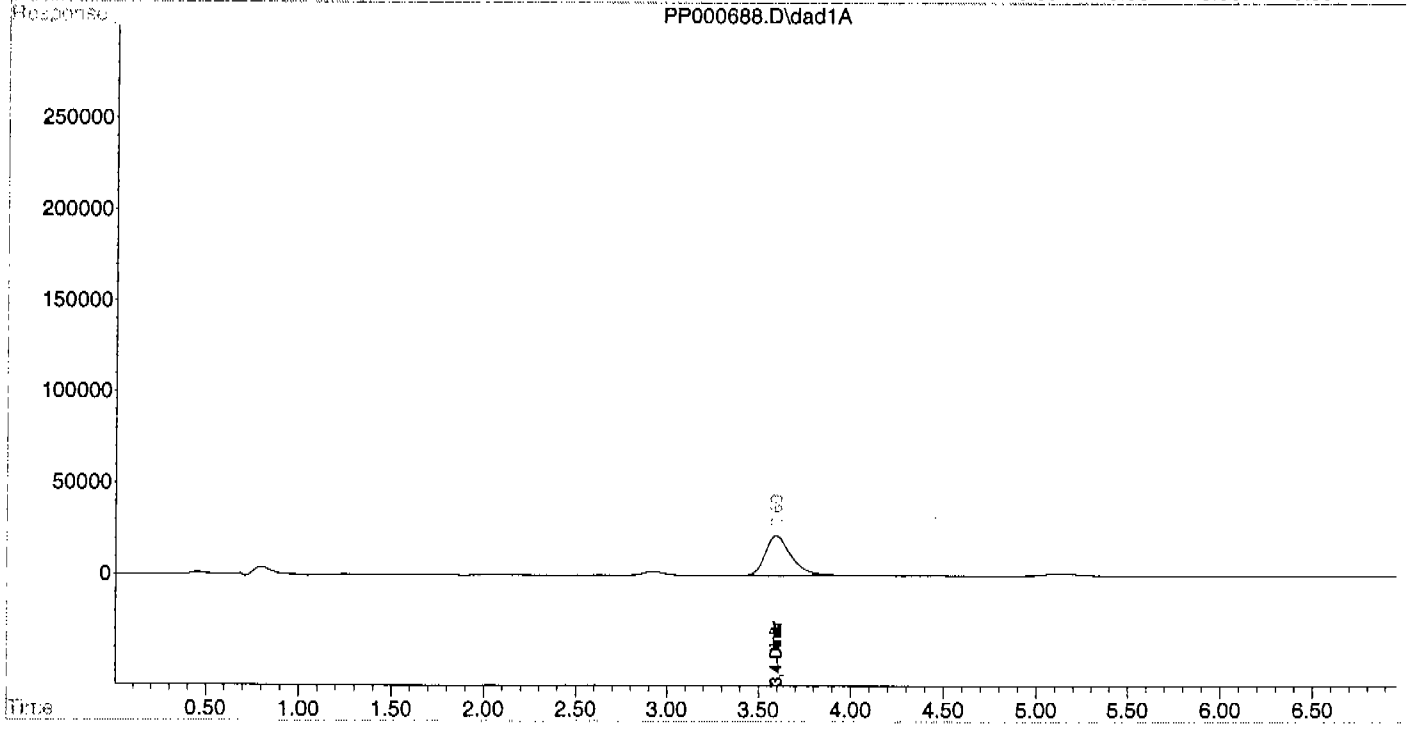
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000688.D\dad1B.ch Vial: 8
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000688.D\dad1A.ch
Acq On : 24-Aug-2004, 10:15:20 Operator: MIKEE
Sample : IC27-10000 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:23 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Response Factor Report G1315B

Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration

Calibration Files
1 =PP000683.D 2 =PP000684.D 3 =PP000685.D 4 =PP000686.D
5 =PP000687.D 6 =PP000688.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1)	Nitroglycerin	1.190	1.172	1.138	1.169	1.168	1.183	1.170	E3	1.53
2) S	3,4-Dinitrotoluene	4.482	4.255	4.029	4.148	4.349	4.452	4.286	E3	4.12
3)	PETN	1.353	1.345	1.287	1.359	1.350	1.384	1.346	E3	2.40

Signal #2

5) S	3,4-Dinitrotoluene	2.467	2.186	2.094	2.153	2.201	2.228	2.222	E3	5.78

(#) = Out of Range

8332_NIT.M Tue Aug 24 13:14:28 2004

8/24/04

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000689.D\dad1B.ch Vial: 9
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000689.D\dad1A.ch
Acq On : 24-Aug-2004, 10:23:51 Operator: MIKEE
Sample : ICV27-2500 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:32 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
2) S 3,4-Dinitrotoluene	0.00	0	N.D.	ppb	
Spiked Amount 250.000 Range 61 - 124 Recovery = 0.00%#					
5) S 3,4-Dinitrotoluene #2	0.00	0	N.D.	ppb	
Spiked Amount 250.000 Range 61 - 124 Recovery = 0.00%#					
Target Compounds					
1) Nitroglycerin	2.93	3172984	2712.510	ppb	m
3) PETN	5.14	3490889	2592.993	ppb	

8/24/04

8-24-04

0132

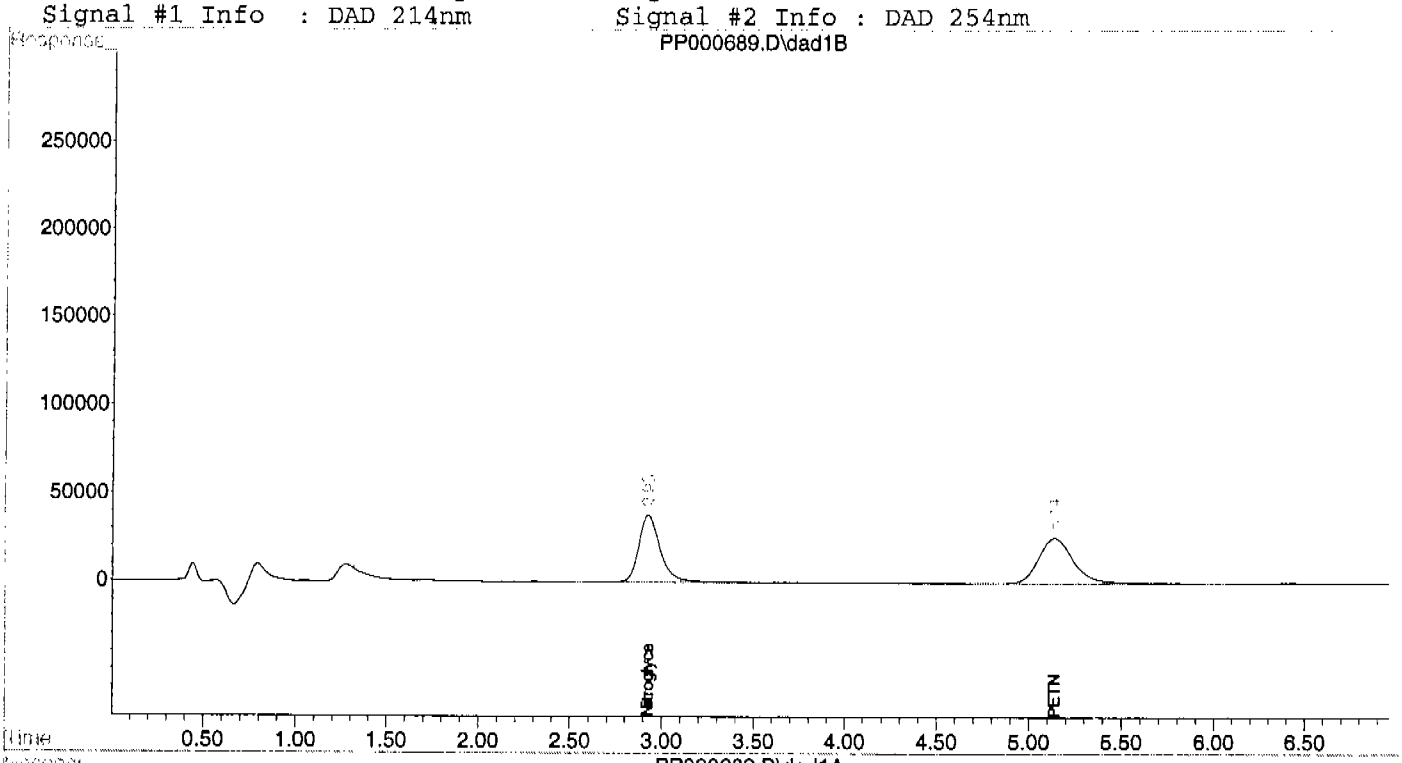
(f)=RT Delta > 1/2 Window (m)=manual int.

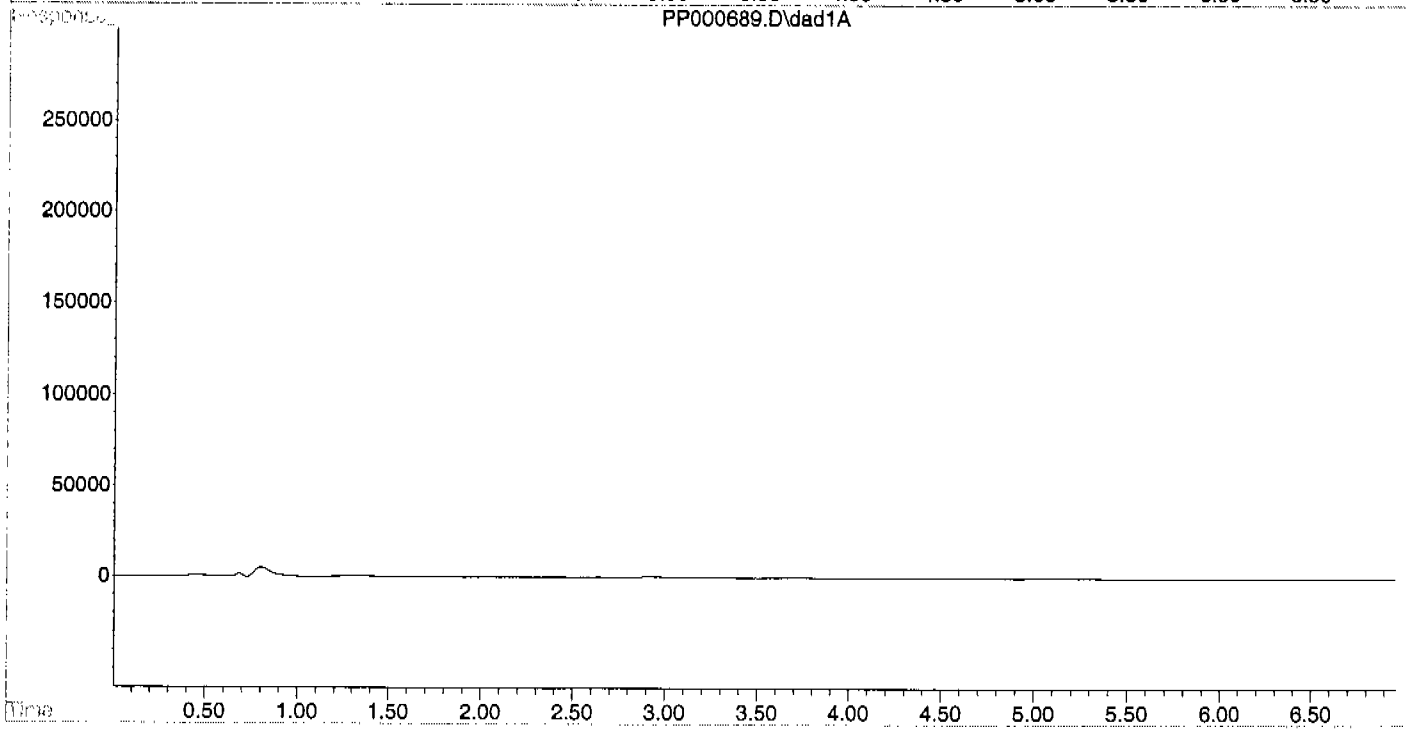
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000689.D\dad1B.ch Vial: 9
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000689.D\dad1A.ch
Acq On : 24-Aug-2004, 10:23:51 Operator: MIKEE
Sample : ICV27-2500 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:32 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Evaluate Continuing Calibration Report

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000689.D\dad1B.ch Vial: 9
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000689.D\dad1A.ch
Acq On : 24-Aug-2004, 10:23:51 Operator: MIKEE
Sample : ICV27-2500 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Nitroglycerin	2500.000	2712.510	-8.5	112	0.00	2.43- 3.43
2 S	3,4-Dinitrotoluene		----------NA----------				
3	PETN	2500.000	2592.993	-3.7	109	0.00	4.63- 5.63

***** Signal #2 *****

5 S	3,4-Dinitrotoluene #2		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
PP000685.D 8332_NIT.M Tue Aug 24 13:15:20 2004

MM 8/24/04

CONTINUING CALIBRATION

SGC.09

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010026.D\dad1B.ch Vial: 1
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010026.D\dad1A.ch
Acq On : 24-Aug-2004, 15:28:36
Sample : CC474-2000 Operator: MIKEE
Misc : op11097,ggg474,1000,,,10,,water Inst : G1315B
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e Multiplr: 1.00
Quant Time: Aug 25 8:32 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	11.91f	11.91f	9134249	12459067	1977.938m	1969.246m
	Spiked Amount 250.000 Range 61 - 124 Recovery = 791.18%# 787.70%#						
	Target Compounds						
1)	HMX	4.03	4.03	5850579	16921628	1962.972	1931.414
2)	RDX	6.05	6.05	6921474	11565299	1972.926	2023.129
3)	1,3,5-Trinitrobe	8.13f	8.13f	15406968	31131205	1954.930m	1937.463m
4)	1,3-Dinitrobenze	9.88f	9.88f	21175321	25551245	1976.011m	1949.828m
5)	Tetryl	10.41f	10.41f	12219864	21941120	1917.230m	1909.387m
6)	Nitrobenzene	11.18f	11.18f	13712076	6178370	1957.001m	1891.991m
8)	2,4,6-Trinitroto	12.64f	12.64f	15368838	22552109	2029.003m	2052.624m
9)	4-Amino-2,6-Dini	13.17f	13.17f	10140985	27291777	1984.586m	1940.944m
10)	2-Amino-4,6-Dini	13.91f	13.91f	13474565	22120783	1934.211m	1890.814m
11)	2,6-Dinitrotolue	14.73f	14.73f	10413549	14146446	2032.598m	2033.172m
12)	2,4-Dinitrotolue	15.28f	15.28f	19463877	17928398	1970.540m	2038.283m
13)	o-Nitrotoluene	18.10f	18.10f	8923508	9513186	1939.847m	1936.909m
14)	p-Nitrotoluene	19.41f	19.41f	7444213	14953827	1868.343m	1901.764m
15)	m-Nitrotoluene	20.96f	20.96f	9575799	14143613	2014.388m	1976.731m

pll

8/25/04

RT check.

MK 8/25/04

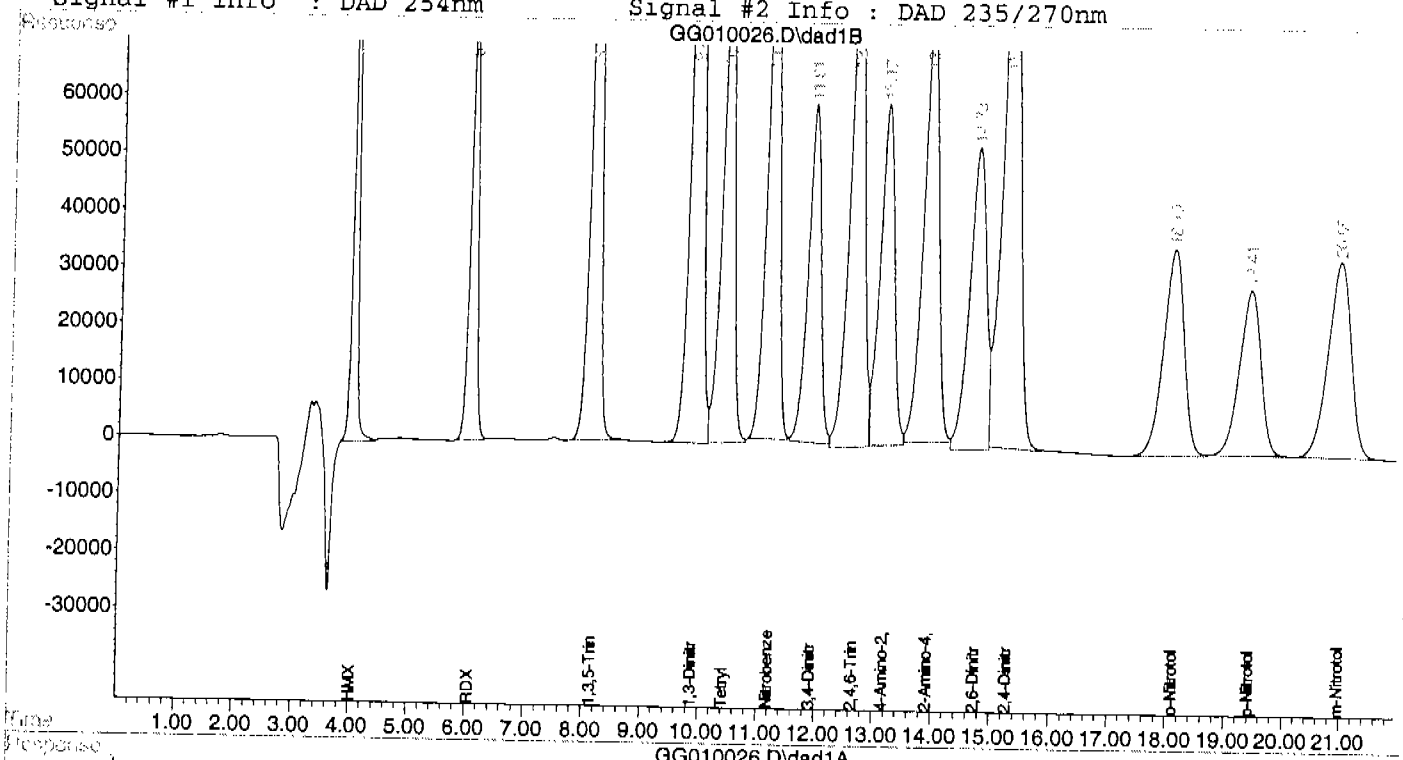
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG010026.D 8330_EX2.M Wed Aug 25 08:28:00 2004

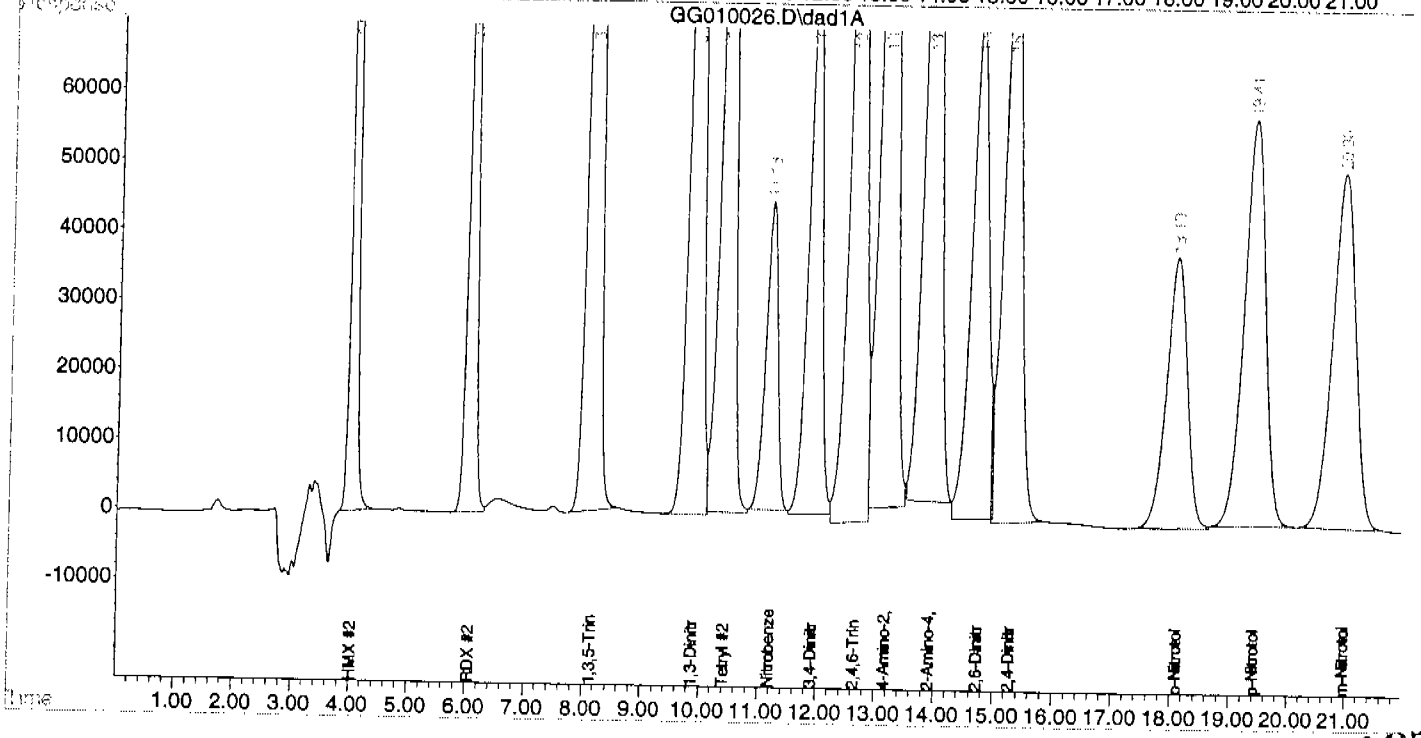
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010026.D\dad1B.ch Vial: 1
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010026.D\dad1A.ch
Acq On : 24-Aug-2004, 15:28:36 Operator: MIKEE
Sample : CC474-2000 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:32 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS
Signal #1 Info : DAD 254nm
Signal #2 Phase: ODS
Signal #2 Info : DAD 235/270nm





Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010046.D\dad1B.ch Vial: 6
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010046.D\dad1A.ch
Acq On : 24-Aug-2004, 23:58:37 Operator: MIKEE
Sample : ECC474-500 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:08 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Initial Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
7) S	3,4-Dinitrotolue	12.36	12.36	2370963	3200126	513.410	505.803
	Spiked Amount 250.000 Range 61 - 124 Recovery =					205.36%#	202.32%#
	Target Compounds						
1)	HMX	4.09	4.09	1466975	4419128	492.196m	504.394m
2)	RDX	6.20	6.20	1769287	2978094	504.325	520.961
3)	1,3,5-Trinitrobe	8.34	8.34	3982787	8095905	505.360	503.852
4)	1,3-Dinitrobenze	10.17	10.17	5441806	6537354	507.811	498.869
5)	Tetryl	10.79	10.79	3168129	5679579	497.062	494.255
6)	Nitrobenzene	11.53	11.53	3597080	1651047	513.379	505.597
8)	2,4,6-Trinitroto	13.05	13.05	3878919	5667919	512.097	515.877
9)	4-Amino-2,6-Dini	13.66	13.66	2701100	7199874	528.604	512.043
10)	2-Amino-4,6-Dini	14.40	14.40	3672701	6076360	527.199	519.388
11)	2,6-Dinitrotolue	15.19	15.19	2766374	3726853	539.963	535.635
12)	2,4-Dinitrotolue	15.72	15.72	5010266	4554277	507.244	517.777
13)	o-Nitrotoluene	18.48	18.48	2270316	2438386	493.535	496.462
14)	p-Nitrotoluene	19.74	19.74	2008894	3952017	504.191	502.601
15)	m-Nitrotoluene	21.24	21.24	2492662	3675226	524.362	513.655

p11

MDR 8/25/04

0138

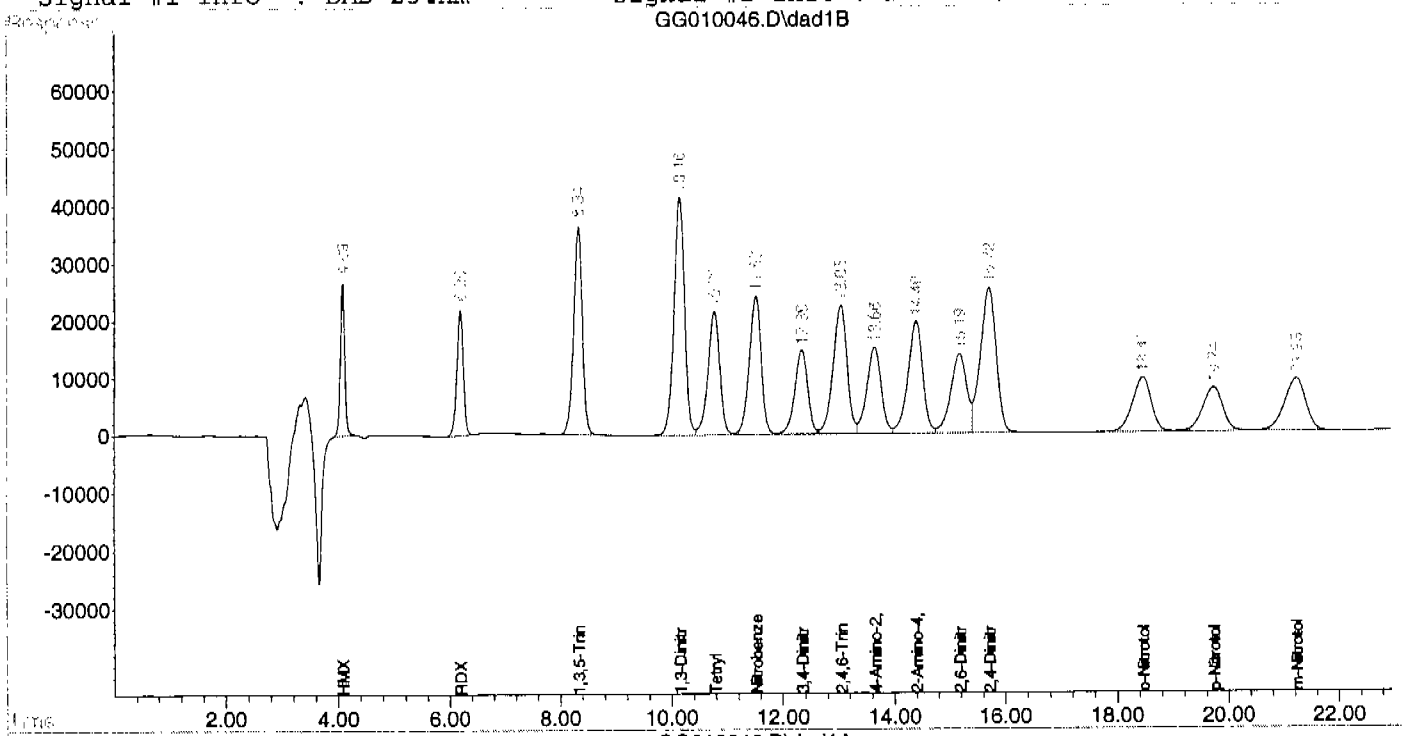
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

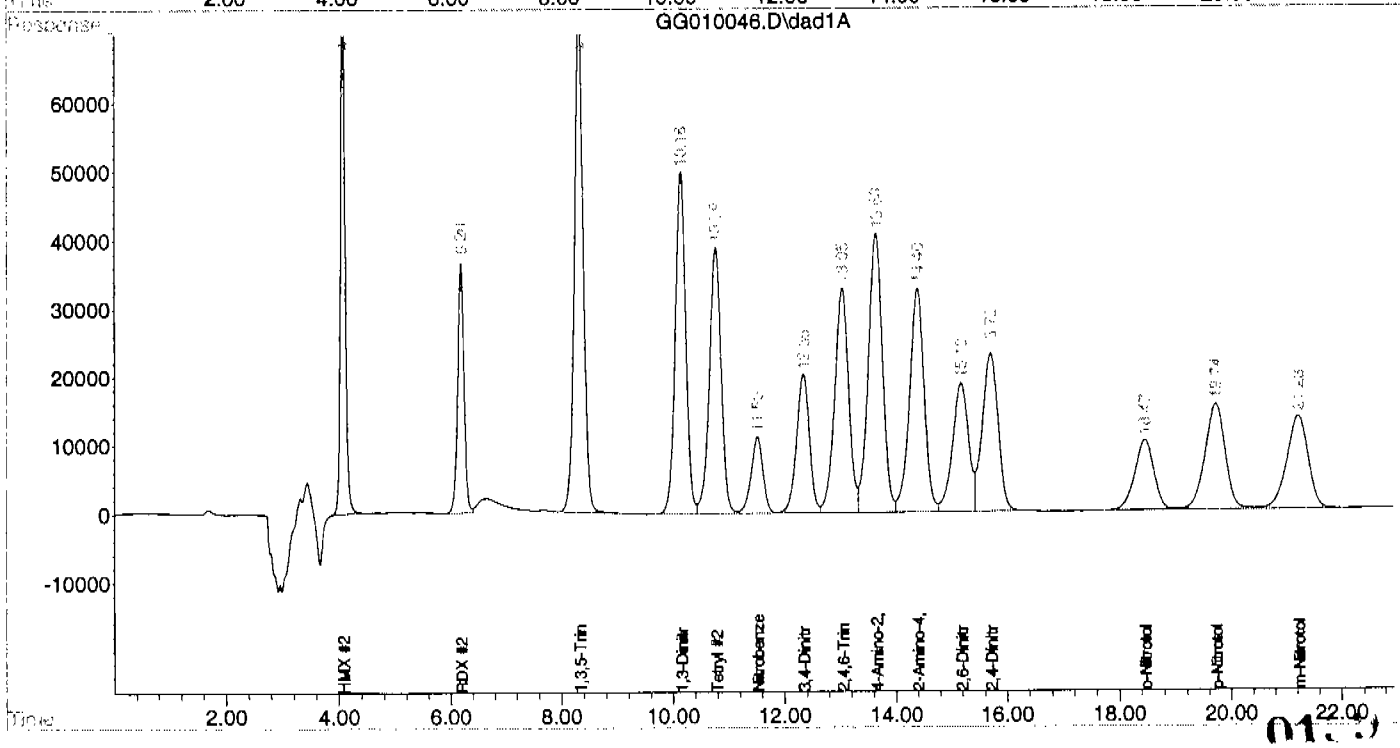
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010046.D\dad1B.ch Vial: 6
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010046.D\dad1A.ch
Acq On : 24-Aug-2004, 23:58:37 Operator: MIKEE
Sample : ECC474-500 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 25 8:08 2004 Quant Results File: 8330_EX2.RES

Quant Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8330_EX2.M

Volume Inj. : 100ul
Signal #1 Phase : ODS Signal #2 Phase: ODS
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235/270nm





Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\0824ODS\GG010046.D\dad1B.ch Vial: 6
Signal #2 : G:\HPCHEM\1\DATA\0824ODS\GG010046.D\dad1A.ch
Acq On : 24-Aug-2004, 23:58:37 Operator: MIKEE
Sample : ECC474-500 Inst : G1315B
Misc : op11097,ggg474,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : G:\HPCHEM\1\METHODS\8330_EX2.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Aug 25 08:00:35 2004
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1		HMX	500.000	492.196	1.6	98	-0.05	3.64- 4.64
2		RDX	500.000	504.325	-0.9	100	-0.07	5.77- 6.77
3		1,3,5-Trinitrobenzene	500.000	505.360	-1.1	99	-0.08	7.93- 8.93
4		1,3-Dinitrobenzene	500.000	507.811	-1.6	101	-0.08	9.74-10.74
5		Tetryl	500.000	497.062	0.6	102	-0.09	10.37-11.37
6		Nitrobenzene	500.000	513.379	-2.7	100	-0.05	11.08-12.08
7	S	3,4-Dinitrotoluene	500.000	513.410	-2.7	99	-0.04	11.90-12.90
8		2,4,6-Trinitrotoluene	500.000	512.097	-2.4	101	-0.03	12.58-13.58
9		4-Amino-2,6-Dinitrotol	500.000	528.604	-5.7	103	-0.02	13.17-14.17
10		2-Amino-4,6-Dinitrotol	500.000	527.199	-5.4	102	0.00	13.90-14.90
11		2,6-Dinitrotoluene	500.000	539.963	-8.0	104	0.00	14.69-15.69
12		2,4-Dinitrotoluene	500.000	507.244	-1.4	101	0.00	15.22-16.22
13		o-Nitrotoluene	500.000	493.535	1.3	98	0.01	17.96-18.96
14		p-Nitrotoluene	500.000	504.191	-0.8	101	0.02	19.23-20.23
15		m-Nitrotoluene	500.000	524.362	-4.9	98	0.00	20.73-21.73

***** Signal #2 *****

1		HMX	500.000	504.394	-0.9	100	-0.05	3.64- 4.64
2		RDX	500.000	520.961	-4.2	100	-0.07	5.77- 6.77
3		1,3,5-Trinitrobenzene	500.000	503.852	-0.8	100	-0.09	7.93- 8.93
4		1,3-Dinitrobenzene	500.000	498.869	0.2	100	-0.08	9.74-10.74
5		Tetryl	500.000	494.255	1.1	101	-0.09	10.38-11.38
6		Nitrobenzene	500.000	505.597	-1.1	99	-0.06	11.09-12.09
7	S	3,4-Dinitrotoluene	500.000	505.803	-1.2	99	-0.05	11.91-12.91
8		2,4,6-Trinitrotoluene	500.000	515.877	-3.2	100	-0.02	12.58-13.58
9		4-Amino-2,6-Dinitrotol	500.000	512.043	-2.4	101	0.00	13.17-14.17
10		2-Amino-4,6-Dinitrotol	500.000	519.388	-3.9	101	0.00	13.90-14.90
11		2,6-Dinitrotoluene	500.000	535.635	-7.1	102	0.00	14.69-15.69
12		2,4-Dinitrotoluene	500.000	517.777	-3.6	101	0.00	15.22-16.22
13		o-Nitrotoluene	500.000	496.462	0.7	98	-0.01	17.99-18.99
14		p-Nitrotoluene	500.000	502.601	-0.5	101	-0.02	19.26-20.26
15		m-Nitrotoluene	500.000	513.655	-2.7	98	0.00	20.73-21.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG010031.D 8330_EX2.M Wed Aug 25 09:31:35 2004

Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000681.D\dad1B.ch Vial: 1
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000681.D\dad1A.ch
Acq On : 24-Aug-2004, 09:15:49 Operator: MIKEE
Sample : CC27-10000 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:19 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.58	4369645	1164.779 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 465.91%#	
5) S 3,4-Dinitrotoluene #2	3.58	2149501	1068.769 ppb m
Spiked Amount 250.000 Range 61 - 124		Recovery = 427.51%#	
Target Compounds			
1) Nitroglycerin	2.91	11750061	9993.664 ppb
3) PETN	5.11	13608077	10028.720 ppb

MKE 8/24/04

8/24/04

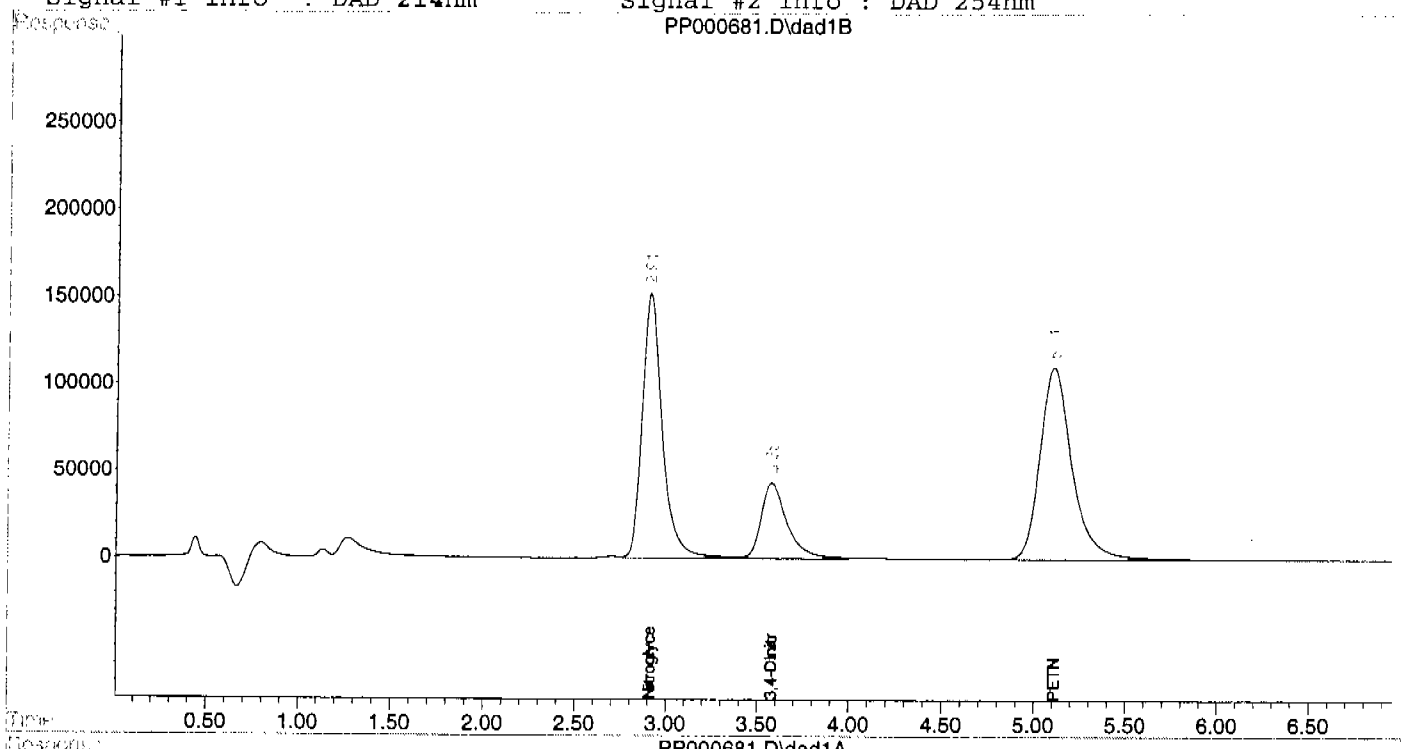
(f)=RT Delta > 1/2 Window (m)=manual int.

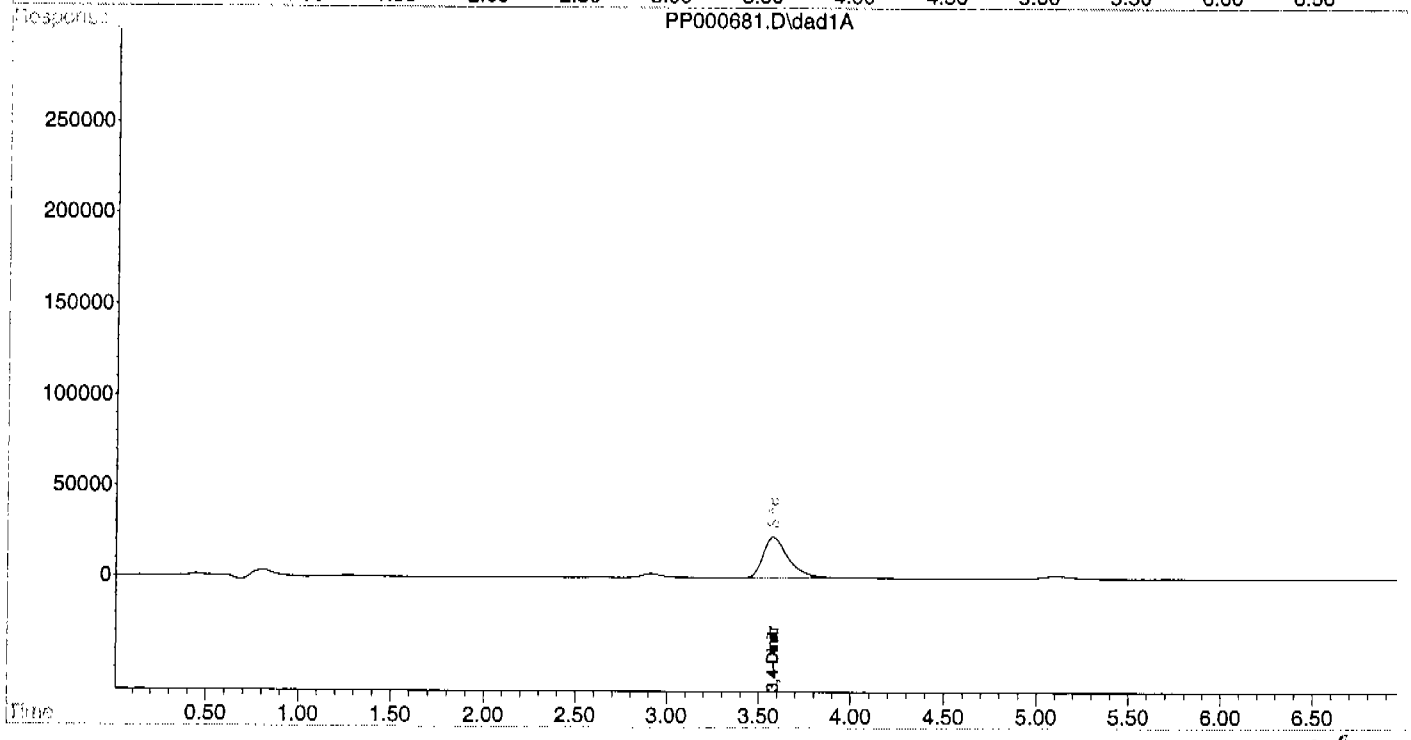
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000681.D\dad1B.ch Vial: 1
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000681.D\dad1A.ch
Acq On : 24-Aug-2004, 09:15:49 Operator: MIKEE
Sample : CC27-10000 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 13:19 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 09:35:10 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000700.D\dad1B.ch Vial: 5
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000700.D\dad1A.ch
Acq On : 24-Aug-2004, 11:58:18 Operator: MIKEE
Sample : CC27-2500 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:10 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.62	1125393	262.578 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 105.03%	
5) S 3,4-Dinitrotoluene #2	3.62	520173	234.149 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 93.66%	
Target Compounds			
1) Nitroglycerin	2.93	2918052	2494.575 ppb
3) PETN	5.14	3278555	2435.273 ppb

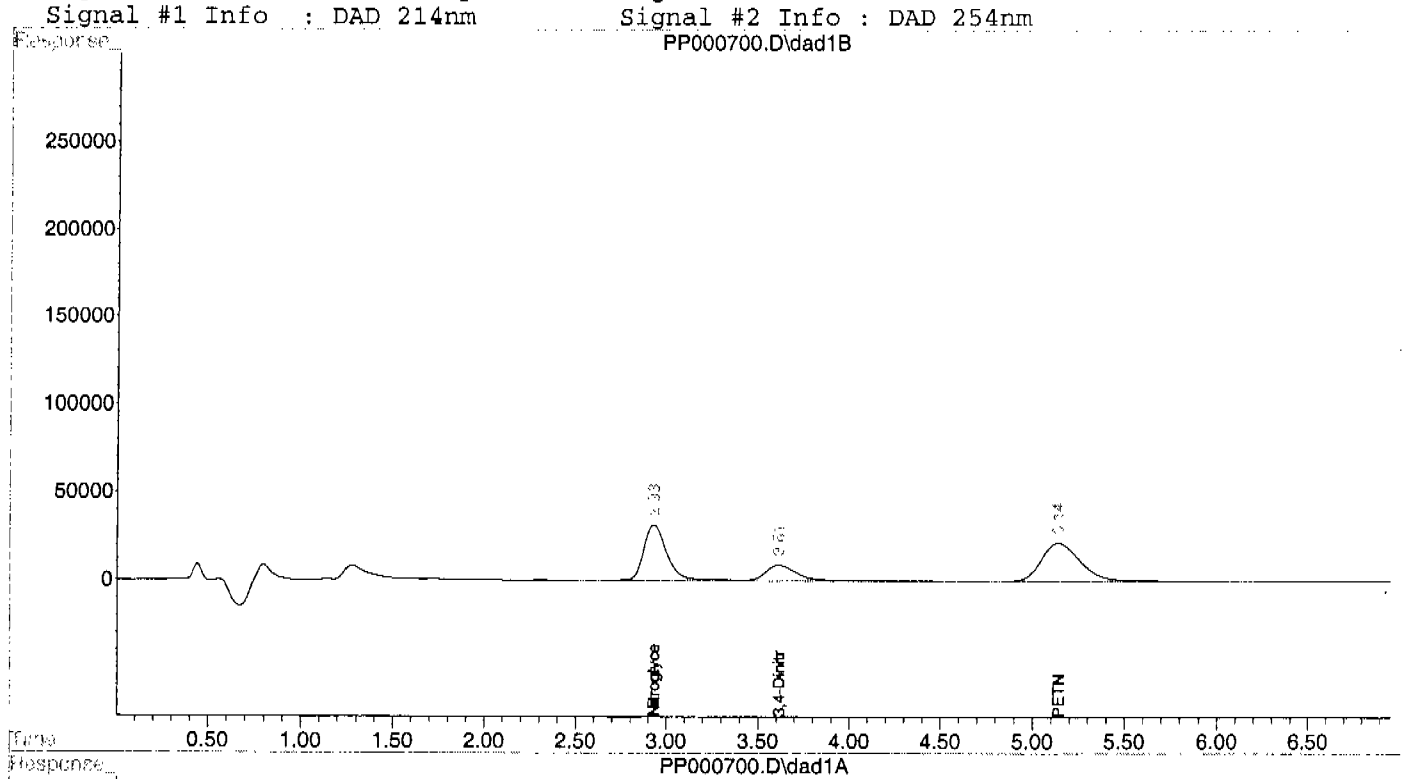
8/24/04

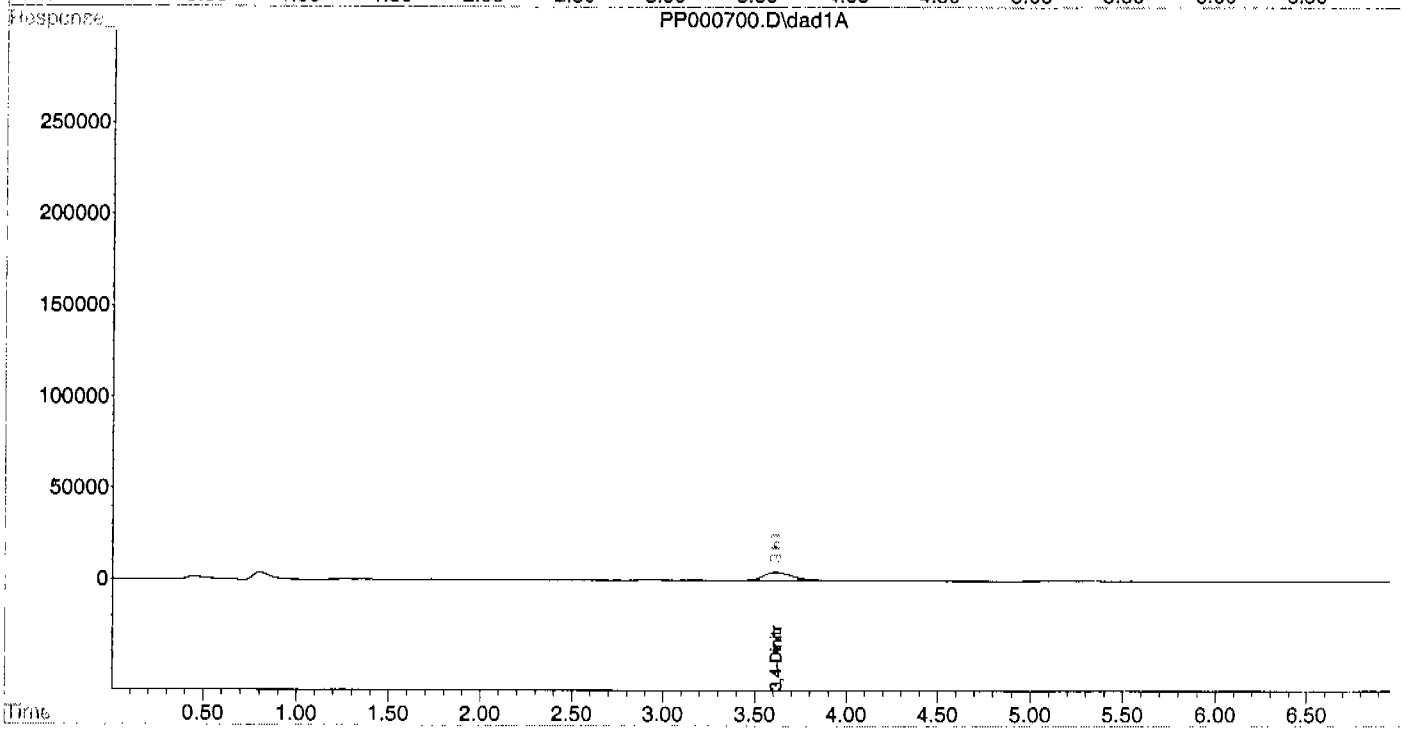
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000700.D\dad1B.ch Vial: 5
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000700.D\dad1A.ch
Acq On : 24-Aug-2004, 11:58:18 Operator: MIKEE
Sample : CC27-2500 Inst : G1315B
Misc : op11098,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:10 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000711.D\dad1B.ch Vial: 6
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000711.D\dad1A.ch
Acq On : 24-Aug-2004, 13:31:57 Operator: MIKEE
Sample : ECC27-5000 Inst : G1315B
Misc : op11138,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:39 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Initial Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S 3,4-Dinitrotoluene	3.60	2306576	538.172 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 215.27%#	
5) S 3,4-Dinitrotoluene #2	3.60	1101566	495.855 ppb
Spiked Amount 250.000 Range 61 - 124		Recovery = 198.34%#	
Target Compounds			
1) Nitroglycerin	2.93	5983582	5115.225 ppb
3) PETN	5.13	6866991	5100.722 ppb

MKE 8/24/04

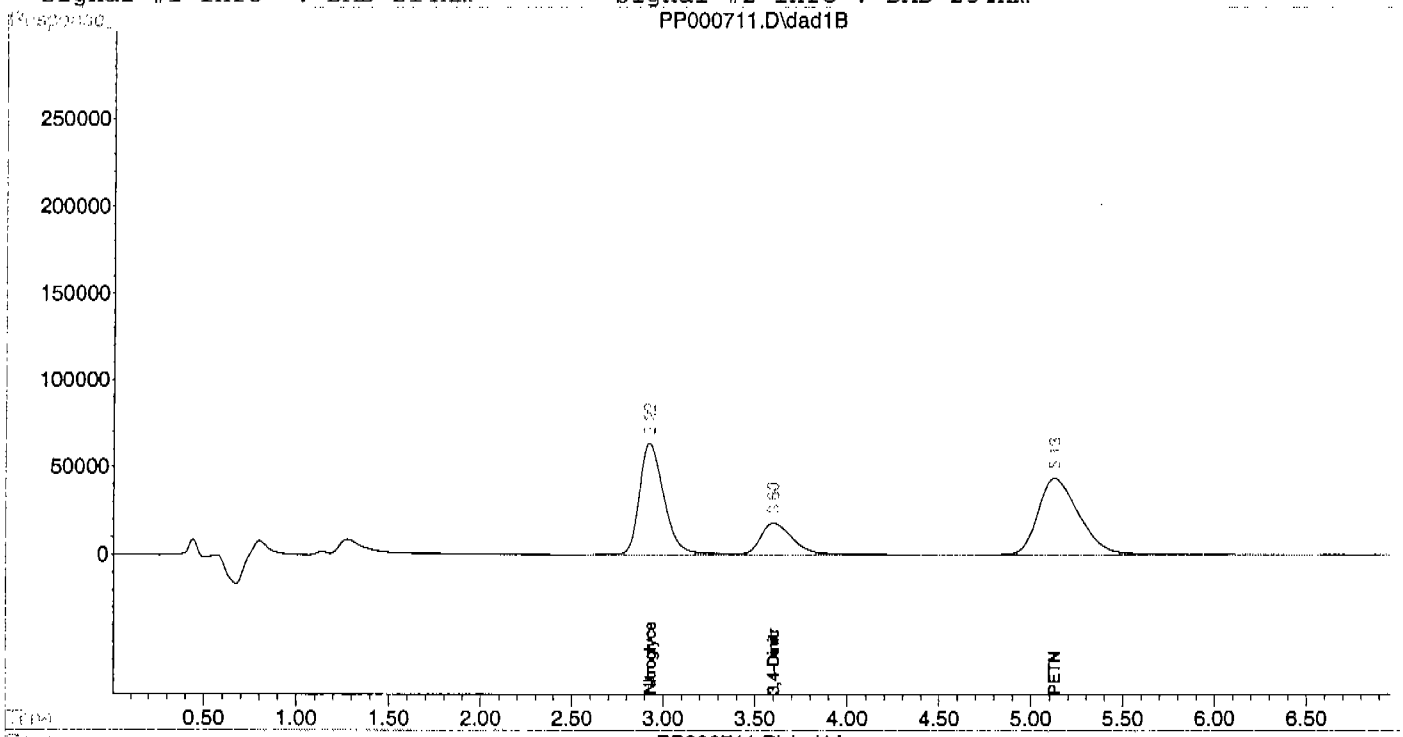
(f)=RT Delta > 1/2 Window (m)=manual int.

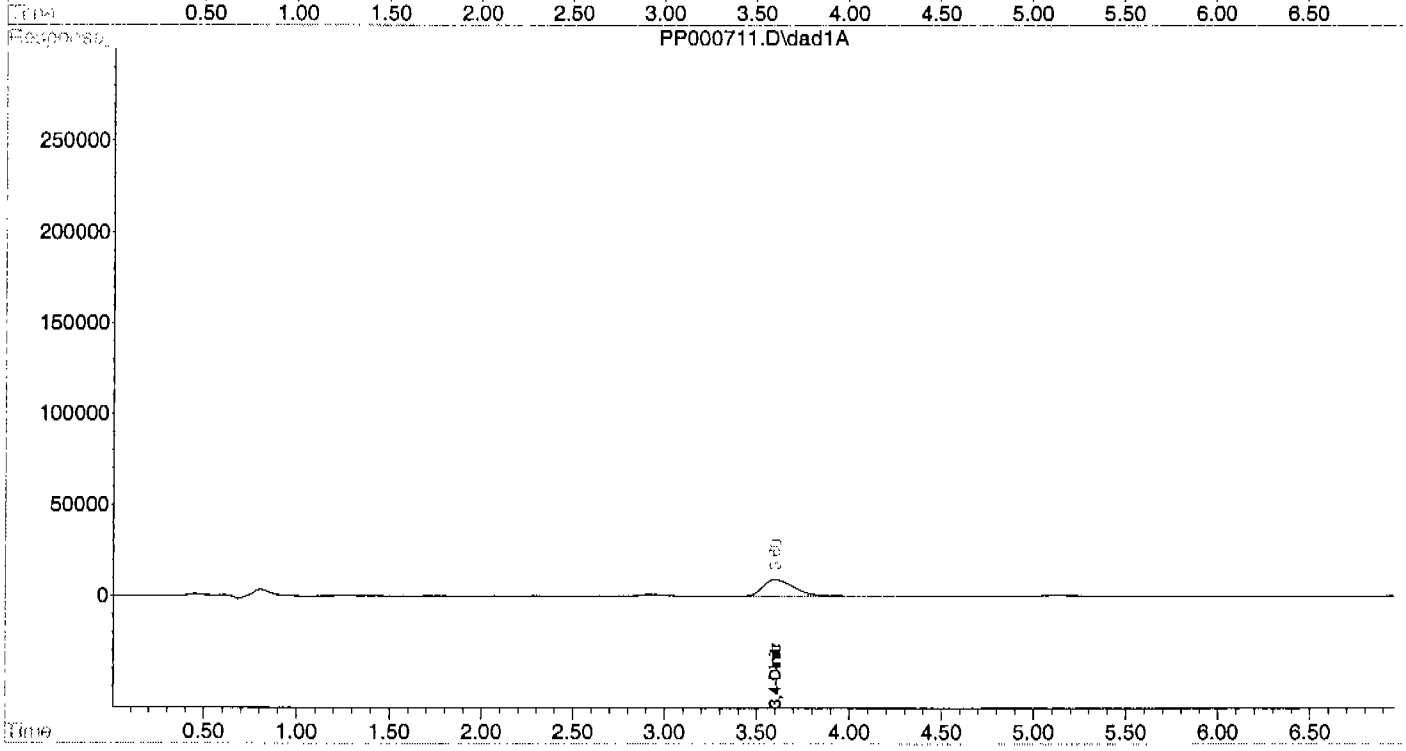
Quantitation Report (QT Reviewed)

Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000711.D\dad1B.ch Vial: 6
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000711.D\dad1A.ch
Acq On : 24-Aug-2004, 13:31:57 Operator: MIKEE
Sample : ECC27-5000 Inst : G1315B
Misc : op11138,gpp27,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Aug 24 16:39 2004 Quant Results File: 8332_NIT.RES

Quant Method : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title : Explosives by 8330/8332
Last Update : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration
DataAcq Meth : 8332_NIT.M

Volume Inj. : 50ul
Signal #1 Phase : Envirosep-PP C-1 Signal #2 Phase:
Signal #1 Info : DAD 214nm Signal #2 Info : DAD 254nm





Evaluate Continuing Calibration Report

```
Signal #1 : P:\HPCHEM\1\DATA\0824NIT\PP000711.D\dad1B.ch Vial: 6
Signal #2 : P:\HPCHEM\1\DATA\0824NIT\PP000711.D\dad1A.ch
Acq On    : 24-Aug-2004, 13:31:57                    Operator: MIKEE
Sample    : ECC27-5000                               Inst    : G1315B
Misc      : op11138,gpp27,1000,,,10,,water           Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: events2.e

Method       : X:\HPLC4-PP\METHODS\8332_NIT.M (Chemstation Integrator)
Title        : Explosives by 8330/8332
Last Update  : Tue Aug 24 10:22:57 2004
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 200%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Nitroglycerin	5000.000	5115.225	-2.3	102	0.00	2.43- 3.43
2 S	3,4-Dinitrotoluene	500.000	538.172	-7.6	111	0.00	3.10- 4.10
3	PETN	5000.000	5100.722	-2.0	101	0.00	4.63- 5.63
***** Signal #2 *****							
5 S	3,4-Dinitrotoluene #2	500.000	495.855	0.8	102	0.00	3.10- 4.10

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 PP000686.D 8332_NIT.M       Tue Aug 24 13:38:39 2004
```

01

SEQUENCE LOGS AND BENCH SHEETS

SGC.10

Partial Sequence: C:\HPCHEM\1\SEQUENCE\0824ODS.S GG474

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 1	8330_EX2	GG010026	01:01		CC474-2000
No	2	Vial 2	8330_EX2	GG010027	02:01		SOLVENT
No	3	Vial 3	8330_EX2	GG010028	03:01		IC474-20
No	4	Vial 4	8330_EX2	GG010029	04:01		IC474-100
No	5	Vial 5	8330_EX2	GG010030	05:01		IC474-250
No	6	Vial 6	8330_EX2	GG010031	06:01		ICC474-500
No	7	Vial 7	8330_EX2	GG010032	07:01		IC474-750
No	8	Vial 8	8330_EX2	GG010033	08:01		IC474-1000
No	9	Vial 9	8330_EX2	GG010034	09:01		IC474-2000
No	10	Vial 10	8330_EX2	GG010035	10:01		ICV474-500
No	11	Vial 11	8330_EX2	GG010036	11:01		OP11097-BS
No	12	Vial 12	8330_EX2	GG010037	12:01		OP11097-MB
No	13	Vial 13	8330_EX2	GG010038	13:01		F25991-1
No	14	Vial 14	8330_EX2	GG010039	14:01		F25991-2
No	15	Vial 15	8330_EX2	GG010040	15:01		F25991-3
No	16	Vial 16	8330_EX2	GG010041	16:01		F25991-4
No	17	Vial 17	8330_EX2	GG010042	17:01		OP11097-MS
No	18	Vial 18	8330_EX2	GG010043	18:01		OP11097-MSD
No	19	Vial 19	8330_EX2	GG010044	19:01		F25991-5
No	20	Vial 20	8330_EX2	GG010045	20:01		F25991-6
No	21	Vial 6	8330_EX2	GG010046	21:01		ECC474-500

HPLC ANALYSIS LOG

DATE: 8/24/04
COLUMN TYPE: ODS
INSTRUMENT: HPL 3

METHODS: 8330
METHOD FILE: 8330-EPA2
CALIB. DATE: 8/24/04

ANALYST: [illegible]
RUN BATCH: GGG 474
AMOUNT INJECTED: 100 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
GG 010026	1	CC474-2000	8330	S2092				1	✓	R.T check
27	2	Solvent								
28	3	IC474-20		S2092						
29	4	IC474-100		S2092				100	✓	✓
30	5	IC474-250						20	✓	✓
31	6	ICC474-500						8	✓	✓
32	7	IC474-750						4	✓	✓
33	8	IC474-1000						150:400	✓	✓
34	9	IC474-2000						2	✓	✓
35	10	ICV474-500		S2095				1	✓	pass
36	11	Op11097-BS						1	✓	pass
37	12	1-MB		W	Op11097	1000	10	1	✓	✓
38	13	F25991-1				1000			✓	ND
39	14	-2				940			✓	ND
40	15	-3				940			✓	ND
41	16	-4				930			✓	ND
42	17	Op11097-MS				910			✓	ND
43	18	1-MSD				440			✓	✓
44	19	F25991-5				440			✓	✓ low, high RPD
45	20	1-6				920			✓	ND
46	6	ECC474-500		S2092		920			✓	ND
								4	✓	pass

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil
Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: [illegible]

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app 21

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 1	8332_NIT	PP000681	01:01		CC27-10000
No	2	Vial 2	8332_NIT	PP000682	02:01		SOLVENT
No	3	Vial 3	8332_NIT	PP000683	03:01		IC27-200
No	4	Vial 4	8332_NIT	PP000684	04:01		IC27-1000
No	5	Vial 5	8332_NIT	PP000685	05:01		ICC27-2500
No	6	Vial 6	8332_NIT	PP000686	06:01		IC27-5000
No	7	Vial 7	8332_NIT	PP000687	07:01		IC27-7500
No	8	Vial 8	8332_NIT	PP000688	08:01		IC27-10000
No	9	Vial 9	8332_NIT	PP000689	09:01		ICV27-2500
No	10	Vial 10	8332_NIT	PP000690	10:01		OP11098-BS
No	11	Vial 11	8332_NIT	PP000691	11:01		OP11098-MB
No	12	Vial 12	8332_NIT	PP000692	12:01		F25991-1
No	13	Vial 13	8332_NIT	PP000693	13:01		F25991-2
No	14	Vial 14	8332_NIT	PP000694	14:01		F25991-3
No	15	Vial 15	8332_NIT	PP000695	15:01		F25991-4
No	16	Vial 16	8332_NIT	PP000696	16:01		F25991-5
No	17	Vial 17	8332_NIT	PP000697	17:01		OP11098-MS
No	18	Vial 18	8332_NIT	PP000698	18:01		OP111098-MSD
No	19	Vial 19	8332_NIT	PP000699	19:01		F25991-6
No	20	Vial 5	8332_NIT	PP000700	20:01		CC27-2500
No	21	Vial 20	8332_NIT	PP000701	21:01		OP11138-BS
No	22	Vial 21	8332_NIT	PP000702	22:01		OP11138-MB
No	23	Vial 22	8332_NIT	PP000703	23:01		F26071-1
No	24	Vial 23	8332_NIT	PP000704	24:01		F26071-2
No	25	Vial 24	8332_NIT	PP000705	25:01		F26071-3
No	26	Vial 25	8332_NIT	PP000706	26:01		F26071-4
No	27	Vial 26	8332_NIT	PP000707	27:01		F26071-5
No	28	Vial 27	8332_NIT	PP000708	28:01		F26071-6
No	29	Vial 28	8332_NIT	PP000709	29:01		OP11138-MS
No	30	Vial 29	8332_NIT	PP000710	30:01		OP11138-MSD
No	31	Vial 6	8332_NIT	PP000711	31:01		ECC27-5000

HPLC ANALYSIS LOG

DATE: 8/24/04
COLUMN TYPE: Envirosep-pp
INSTRUMENT: HPLC4

METHODS: 8332
METHOD FILE: 8332.MIT
CALIB. DATE: 8/24/04

ANALYST: M. Eg
RUN BATCH: GPP27
AMOUNT INJECTED: 50 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
PP000681	1	CC27-10000	8332					1	✓	RT
82	2	Solvent							✓	—
83	3	IC27-200		S2070				50	✓	—
84	4	IC27-1000						10	✓	—
85	5	ICC27-2500						4	✓	—
86	6	IC27-5000						2	✓	—
87	7	IC27-7500						3.4	✓	—
88	8	IC27-10000						1	✓	pass
89	9	ICU27-2500		S2054				1	✓	pass
90	10	Op11098-BS		W	Op11098	1000	10	1	✓	
91	11	⊥ -MB				1000			✓	ND
92	12	F25991-1				940			✓	ND
93	13	-2				940			✓	ND
94	14	-3				930			✓	ND
95	15	-4				910			✓	ND
96	16	-5				920			✓	ND
97	17	Op11098-MS				450			✓	—
98	18	⊥ -MSD				450			✓	—
99	19	F25991-6				920			✓	ND
100	5	CC27-2500		S2070				4	✓	pass
01	20	Op11138-BS		W	Op11138	1000	10	1	✓	
02	21	⊥ -MB				1000			✓	ND
03	22	F26071-1				900			✓	ND
04	23	-2				960			✓	ND
05	24	-3				800			✓	ND

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil
Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: M. Eg

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HPLC ANALYSIS LOG

DATE: 8/24/04	METHODS: 8332	ANALYST: M. Egan
COLUMN TYPE: Ultrasep PP	METHOD FILE: 8332.MIT	RUN BATCH: GPP27
INSTRUMENT: HPLC4	CALIB. DATE: 8/24/04	AMOUNT INJECTED: 50 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	MATRIX	OP BATCH	INITIAL AMOUNT	FINAL VOLUME	DILUTION FACTOR	RUN OK	COMMENTS
pp000706	25	FU6071-4	8332	W	OP111138	930	10	1	✓	ND
07	26	-5				920			✓	ND
08	27	-6				920			✓	ND
09	28	OP111138-MS				400			✓	✓
10	29	-MSD				400			✓	✓
11	6	ECE27-5000		S2070				2	✓	pass

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: M. Egan

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SAMPLE PREP REPORT

SGC.11

LIQUID SAMPLE PREP REPORT

Date: 08/12/04 Analytical Method: 8332 EXP Batch#: OP 11098

Prep Method: 3510C 3535A 3580A or Method Analyst: FS

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 11098 MB	X	1000	6	Na	250µl		10.0 ml	
OP 1 BS	X	1000	↓	↓	↓	250µl	↓	
F25991-1	2	940	↓	↓	↓		↓	
-2	2	940	↓	↓	↓		↓	
-3	1	930	↓	↓	↓		↓	
-4	1	910	↓	↓	↓		↓	
-5	3	920	↓	↓	↓		↓	MS/MSD
-6	3	920	↓	↓	↓		↓	
F25991-5 MS	2	450	6	Na	250µl	250µl	10.0 ml	
↓ MSD	↓	↓	↓	↓	↓	↓	↓	
DUP								

08/12/04 FS

Comments:

FS Surrogate ID: E1532 Conc: 10ppm Exp. Date: 11/05/04 Bath Temp.:
DC

FS Spike ID: E1542 Conc: 100ppm Exp. Date: 12/09/04 Bath Temp2.:
DC

CH2CL2 Lot # NA Hexane Lot # NA Na2SO4 Lot# NA

Acetonitrile Lot # A19815 Methanol Lot # NA Acetone Lot# NA

Reagent # LK992 Reagent # Reagent #
H_2O HPLC

Relinquished By: Fouad Date: 08/12/04

Accepted By: M.S. Date: 8/12/04

0155

EXTWATER.XLS NF rev. 05/03

LIQUID SAMPLE PREP REPORT

Date: 08/12/04 Analytical Method: 8330 Exp Batch#: OP 11097

Prep Method: 3510C 3535A 3580A or Method Analyst: FS

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 11097 MB	X	1000	6	Na	250µl		10.0ml	
OP 11097 BS	X	1000	↓	↓	↓	250µl	↓	
F25991-1	2	940	↓	↓	↓	↓	↓	
-2	2	940	↓	↓	↓	↓	↓	
-3	1	930	↓	↓	↓	↓	↓	
-4	1	910	↓	↓	↓	↓	↓	MS/MSD
-5	3	920	↓	↓	↓	↓	↓	
-6	3	920	↓	↓	↓	↓	↓	
F25991-4 MS	3	440	6	Na	250µl	250µl	10.0ml	
↓ MSD	↓	↓	↓	↓	↓	↓	↓	
DUP								

08/12/04
FS

Comments:

Surrogate ID: E1532 Conc: 10 ppm Exp. Date: 11/05/04 Bath Temp.:

Spike ID: E1521 Conc: 10ppm Exp. Date: 11/11/04 Bath Temp2.:

CH2CL2 Lot # NA Hexane Lot # NA Na2SO4 Lot# NA

Acetonitrile Lot # A19815 Methanol Lot # NA Acetone Lot# NA

Reagent # CK 992 Reagent # Reagent #
H_2O Hplc

Relinquished By: Fouad Date: 08/12/04

Accepted By: Date: 8/12/04

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