CASE NARRATIVE

Analysis of Samples for the Presence of

Polychlorinated Dibenzo-*p*-Dioxins and Dibenzofurans by

High-Resolution Chromatography / High-Resolution Mass Spectrometry

Method 8290 Rev. 0 (9/94)

Date:	September 5, 2002
Client ID:	Mississippi Dept. of Environmental Quality
P.O. Number:	
TLI Project Number:	58258

Dept. of Environmental Quality have any questions or comments regarding this data package, please feel free to contact one of our Project Scientists at (919) 544-5729.

For Triangle Laboratories, Inc.,

Released by,

Penny A. Brock

Penny A. Brock
Report Preparation Chemist

The total number of pages in the data package is : 270 .

Method 8290 Sample Calculations:

Analyte Concentration

The concentration or amount of any analyte is calculated using the following expression.

$$C_{(\sigma)} = \frac{A_\sigma * Q_\beta}{A_\beta * RRF_{(\sigma)} * W}$$

Where:

$C_{(\sigma)}$	=	concentration or amount of a given analyte
A_σ	=	integrated current for the characteristic ions of the analyte
A_β	=	integrated current of the characteristic ions of the corresponding internal standard
Q_β	=	amount of internal standard added to the sample before extraction
$RRF_{(\sigma)}$	=	mean analyte relative response factor from the initial calibration
W	=	sample weight or volume

Detection Limits

The detection limit reported for a target analyte that is not detected or presents an analyte response that is less than 2.5 times the background level is calculated by using the following expression. The area of the analyte is replaced by the noise level measured in a region of the chromatogram clear of genuine GC signals. The detection limits represent the maximum possible concentration of a target analyte that could be present without being detected.

$$DL_{(\sigma)} = \frac{2.5 * H * Q_\beta}{H_\beta * RRF_{(\sigma)} * W}$$

Where:

$DL_{(\sigma)}$	=	estimated detection limit for a target analyte
2.5	=	minimum response required for a GC signal
H	=	sum heights of the noise
H_β	=	sum of peak heights of the characteristic ions of the corresponding internal standard
Q_β	=	amount of internal standard added to the sample before extraction
$RRF_{(\sigma)}$	=	mean analyte relative response factor from the initial calibration
W	=	sample weight or volume

Data Flags

In order to assist with data interpretation, data qualifier flags are used on the final reports. Please note that all data qualifier flags are subjective and are applied as consistently as possible. Each flag has been reviewed by two independent Chemists and the impact of the data qualifier flag on the quality of the data discussed above. The most commonly used flags are:

A **'B'** flag is used to indicate that an analyte has been detected in the laboratory method blank as well as in an associated field sample. The 'B' flag is used only when the concentration of analyte found in the sample is less than 20 times that found in the associated blank. This flag denotes possible contribution of background laboratory contamination to the concentration or amount of that analyte detected in the field sample.

An **'E'** flag is used to indicate a concentration based on an analyte to internal standard ratio which exceeds the range of the calibration curve. Values which are outside the calibration curve are estimates only.

An **'I'** flag is used to indicate labeled standards have been interfered with on the GC column by coeluting, interferent peaks. The interference may have caused the standard's area to be overestimated. All quantitations relative to this standard, therefore, may be underestimated.

A **'J'** flag is used to indicate a concentration based on an analyte to internal standard ratio which is below the calibration curve. Values which are outside the calibration curve are estimates only.

A **'PR'** flag is used to indicate that a GC peak is poorly resolved. This resolution problem may be seen as two closely eluting peaks without a reasonable valley between the peak tops, overly broad peaks, or peaks whose shapes vary greatly from a normal distribution. The concentrations or amounts reported for such peaks are most likely overestimated.

A **'Q'** flag is used to indicate the presence of QC ion instabilities caused by quantitative interferences.

An **'RO'** flag is used to indicate that a labeled standard has an ion abundance ratio that is outside of the acceptable QC limits, most likely due to a coeluting interference. This may have caused the percent recovery of the standard to be overestimated. All quantitations versus this standard, therefore, may be underestimated.

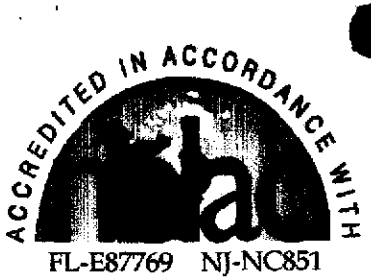
An **'S'** flag indicates that the response of a specific PCDD/PCDF isomer has exceeded the normal dynamic range of the mass spectrometer detection system. The corresponding signal is saturated and the reported analyte concentration is a 'minimum estimate'. When the 'S' qualifier is used in the reporting of 'totals', there is saturation of one (not

necessarily from a specific isomer) or more saturated signals for a given class of compounds. Results for saturated analytes are reported as greater than the upper calibration limit.

A '**U**' flag is used to indicate that a specific isomer cannot be resolved from a large, co-eluting interferent GC peak. The specific isomer is reported as not detected as a valid concentration cannot be determined. The calculated detection limit, therefore, should be considered an underestimated value.

A '**V**' flag is used to indicate that, although the percent recovery of a labeled standard may be below a specific QC limit, the signal-to-noise ratio of the peak is greater than ten-to-one. The standard is considered reliably quantifiable. All quantitations derived from the standard are considered valid as well.

An '**X**' flag is used to indicate that a polychlorodibenzofuran (PCDF) peak has eluted at the same time as the associated diphenyl ether (DPE) and that the DPE peak intensity is at least ten percent of the total PCDF peak intensity. Total PCDF values are flagged 'X' if the total DPE contribution to the total PCDF value is greater than ten percent. All PCDF peaks that are significantly influenced by the presence of DPE peaks are either reported as "estimated maximum possible concentration (EMPC) values without regard to the isotopic abundance ratio, or are included in the detection limit value depending on the analytical method.



TRIANGLE LABORATORIES, INC.

LIST OF CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Primary NELAC Certificate: **Florida Department of Health, #E87769; SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 613, 2,3,7,8-TCDD AND Method 1613, PCDD/PCDF & totals; **RCRA/CERCLA**, Methods 8280/8290, PCDD/PCDF & totals; **CAA**, TO-9A, all dioxins/furans AND TO-13A, semi-volatiles. Expires June 30, 2003.

Primary NELAC Certificate: **State of New Jersey, Department of Environmental Protection.** ID #NC851. **CAA**, Methods 0023A and MM5 (Sampling Train). **Secondary NELAC Certificate**: **SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 1613, PCDD/PCDF & totals; **RCRA/CERCLA**, Method 8290, PCDD/PCDF & totals. Expires June 30, 2003.

State of Alabama, Department of Environmental Management. Laboratory ID # 40950. 2,3,7,8 TCDD (Dioxin) in drinking water. Expires 31 July 2002.

State of Alaska, Department of Environmental Conservation. Lab ID #NC-06-00. Certificate number NC00140. 2,3,7,8- TCDD (Dioxin) in drinking water. Expires December 21, 2002.

State of Arizona, Department of Health Services. Certificate #AZ0423. Drinking Water for Dioxin, Dioxins in Waste Water and Solid or Hazardous Waste. Expires May 25, 2003.

State of Arkansas, Department of Environmental Quality. Pulp/paper, soil, water, and Hazardous Waste for Dioxin/Furans. Expires 8 January 2003.

Secondary NELAC Certificate: **State of California, Department of Health Services, Certificate No. 01167CA. SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 613, 2,3,7,8-TCDD AND Method 1613, PCDD/PCDF & totals; **RCRA/CERCLA**, Methods 8280/8290, PCDD/PCDF & totals; **CAA**, TO-9A, all dioxins/furans AND TO-13A, semi-volatiles. Expires October 31, 2002.

State of Colorado, Department of Public Health and Environment. SDWA, Dioxin by EPA 1613. Expires April 30, 2003.

State of Connecticut, Department of Health Services. Registration # PH-0117. **SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 1613, PCDD/PCDF & totals; **RCRA/CERCLA**, Methods 8280/8290, PCDD/PCDF & totals. Expires September 30, 2003.

2445 S. Alston Ave. - Durham, NC 27713 - (919) 544-5729 - FAX (919) 544-5491
www.trianglelabs.com

Delaware Health and Social Services. Dioxin Certification waived for out-of-state laboratories; accept home-state Certifications.

Primary NELAC Certificates: **Florida Department of Health, #E87769; SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 613, 2,3,7,8-TCDD AND Method 1613, PCDD/PCDF & totals; **RCRA/CERCLA**, Methods 8280/8290, PCDD/PCDF & totals; **CAA**, TO-9A, all dioxins/furans AND TO-13A, semi-volatiles. Expires June 30, 2003.

Georgia Department of Environmental Quality. Chemical Certification of Drinking Water for Dioxins, method 1613, reciprocity based on North Carolina Certification. **SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 613, 2,3,7,8-TCDD AND Method 1613, PCDD/PCDF & totals; **RCRA/CERCLA**, Methods 8280/8290, PCDD/PCDF & totals; **CAA**, TO-9A, all dioxins/furans AND TO-13A, semi-volatiles; reciprocity based on **FL-DOH NELAC Certificates**. Certificate # 953, expires June 30, 2002.

Hawaii Department of Health. Certified for Dioxin under the Safe Drinking Water Act. "Accepted" status for regulatory purposes. Expires June 30, 2003.

Idaho Department of Health and Welfare. Dioxin in drinking water, EPA Method 1613. Expires December 31, 2002.

Secondary NELAC Certificate: **Illinois Environmental Protection Agency.** Accreditation Number #200007, Certificate #000468; **Drinking Water**, Method 1613, 2,3,7,8-TCDD; **Wastewater, Organic**, Methods 1613 and 613; **Hazardous and Solid Waste, Organic**, Methods 8280A and 8290. Expires 30 September 2002.

Indiana Department of Health. Dioxin in drinking water, EPA method 1613. Lab ID # C-NC-01. Expires July 31, 2002.

Secondary NELAC Certificate: **State of Kansas, Department of Health and Environment**. Cert. # E-10215. **SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 1613, PCDD/PCDF; **RCRA/CERCLA**, Methods 8280/8290, PCDD/PCDF & totals. Expires 31 January 2003.

Commonwealth of Kentucky, Department for Environmental Protection. Lab ID #90060. 2,3,7,8 TCDD (Dioxin) in drinking water. Expires December 31, 2002.

Secondary NELAC Certificate: **State of Louisiana Department of Environmental Quality.** Certificate # 01979. **CAA**, TO-9A and TO-13A; **CWA**, Method 613 2,3,7,8-TCDD and Method 1613 PCDDs/PCDFs; **Solid and Hazardous Waste** Methods 8280A & 8290 PCDDs/PCDFs; **Misc**. Methods 1613, 8280A & 8290. Expires 30 June 2003.

Secondary NELAC Certificate: **State of Louisiana Department of Health & Hospitals.** Dioxin (2,3,7,8-TCDD) in Drinking Water. Certificate # LA020003. Expires December 31, 2002.

Maine Department of Human Services. Certification #: NC140. **SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 1613, PCDD/PCDF. Expires May 30, 2004.

Maryland Department of Health and Mental Hygiene. Certification # 235, SOC 2 (Dioxin). Expires September 30, 2002.

Commonwealth of Massachusetts, Department of Environmental Protection, does not require Certification for Drinking Water Dioxin/Furan analysis.

State of Michigan, Department of Environmental Quality. 2,3,7,8 TCDD by Method 1613. Expires 31 July 2003.

Minnesota Department of Health. The certification program in MN does not include dioxins/furans for CWA, SDWA of RCRA/CERCLA. See **U.S. EPA Region V.**

Mississippi State Department of Health. Dioxin in drinking water. No expiration date.

Montana Department of Health and Environmental Services. CERT0019. Dioxin in drinking water. Expires December 31, 2002.

State of Nebraska Department of Health. Reciprocal certification through the North Carolina Department of Health and Human services and Florida DOH NELAC Certification. **SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 613, 2,3,7,8-TCDD AND Method 1613, PCDD/PCDF & totals; **RCRA/CERCLA**, Methods 8280/8290, PCDD/PCDF & totals; **CAA**, TO-9A, all dioxins/furans AND TO-13A, semi-volatiles. Expires July 31, 2002.

State of Nevada, Department of Conservation and Natural Resources. Lab Certificate No. NC-00140-2002-73, expires July 31, 2002. **CWA**, Method 1613, PCDD/PCDF & totals, expires July 31, 2002.

State of Nevada, Department of Human Resources. Lab Certificate No. NC-00140-2002-73, expires July 31, 2002. **SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water, expires July 31, 2002.

Primary NELAC Certificate: **State of New Jersey, Department of Environmental Protection.** ID #NC851. **CAA**, Methods 0023A and MM5 (Sampling Train). **Secondary NELAC Certificate**: **SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 1613, PCDD/PCDF & totals; **RCRA/CERCLA**, Method 8290, PCDD/PCDF & totals. Expires June 30, 2003.

State of New Mexico, Environment Department. Safe Drinking Water Act; 2,3,7,8-TCDD by Method 1613. Expires 30 June 2002.

Secondary NELAC Certificate: **New York State Department of Health, LAB ID #11026.** Potable Water, 2,3,7,8-TCDD, EPA 1613, Serial # 16965; Non-Potable Water, 2,3,7,8-TCDD, EPA 1613, Serial # 16966. Valid through 1 April 2003.

State of North Carolina, Department of Health and Human Services. Certificate # 37751. Dioxin in drinking water. Expires July 31, 2003.

North Dakota State Department of Health and Consolidated Laboratories. Certificate # R-076. Dioxin in drinking water. Expires June 30, 2002.

Ohio EPA. Ohio does not offer out-of-state lab certifications; certification by EPA Region 5 is honored.

Oklahoma Department of Environmental Quality. Laboratory #9612. 2,3,7,8 TCDD (Dioxin). Expires August 31, 2003.

Secondary NELAC Certificate: **Oregon Environmental Laboratory Accreditation Program.** Certificate No:-911918452. SDWA, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; CWA, Method 613, 2,3,7,8-TCDD AND Method 1613, PCDD/PCDF & totals; RCRA/CERCLA, Methods 8280/8290, PCDD/PCDF & totals; CAA, TO-9A, all dioxins/furans AND TO-13A, semi-volatiles. Expires January 31, 2003.

State of South Carolina, Department of Health and Environmental Control. Certificate number #99040001 (Other parameters). Dioxin/Furans by method 1613B - Safe Drinking Water Act; 2,3,7,8-TCDD for Drinking Water, and Organic extractables for Solid and Hazardous Waste. Reciprocal certification with New York. Expires June 03, 2001. Certificate # 99040002 Solid Hazardous Waste- Dioxins/Furans by 8280A and 8290. Expires August 31, 2001. **Renewal pending.*

State of Tennessee. Department of Environment and Conservation. ID #02992. Dioxin in Drinking water. Expires February 20, 2005.

Texas Natural Resource Conservation Commission. Certification Number: TX264-2002A. **SDWA:** Chemistry, Dioxin (2378-TCDD), EPA 1613. Expires January 31, 2004.

U.S. Army Corps of Engineers. Validated to perform EPA SW-846, Method 8290, water and solids. Validation expires May 2, 2004.

Department of the Navy, Naval Facilities Engineering Service Center (NFESC). Letter of Acceptance for analysis of water and solids by Methods 8280 and 8290. Expires June 30, 2002.

U.S. EPA Region V. 2,3,7,8 TCDD (Dioxin) in drinking water by method 1613B. Expires January 19, 2003. [Illinois, Indiana, Michigan, Minnesota, Ohio and Wisconsin]

U.S. EPA Region VIII, for the State of Wyoming. EPA Method 1613 for Dioxin in drinking water. Expires December 30, 2002.

Secondary NELAC Certificate: **State of Utah, Department of Health.** ID # TRIA, Account # 9195445729 SDWA, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; CWA, Method 1613, PCDD/PCDF & totals; RCRA/CERCLA, Methods 8280/8290, PCDD/PCDF & totals. Expires June 30, 2003.

Commonwealth of Virginia, Department of General Services, Division of Consolidated Laboratory Services. ID # 00341. 2,3,7,8-TCDD (Dioxin) in drinking water, EPA Method 1613B. Expires June 30, 2003.

State of Washington, Department of Ecology. Lab Accreditation Number C067. Scope of Accreditation applies to Dioxins (PCDDs/PCDFs) by EPA methods 613, 1613, 8280, and 8290 in potable and non-potable water. Expires September 11, 2002.

State of Washington, Department of Health. Dioxin by 1613 in drinking water. Lab ID 129. Expires April 30, 2003.

State of West Virginia, Department of Health. Certificate No. 9923(C). 2,3,7,8-TCDD (Dioxin) in drinking water, SOC III. Expires December 31, 2002.

State of Wisconsin, Department of Natural Resources. Laboratory ID Number 999869530. Certified for 2,3,7,8-TCDD (Dioxin) in drinking water and for PCDD/PCDF. Expires August 31, 2002.

State of Wyoming, see **U.S. EPA Region VIII** above.

PHARMACEUTICAL

Drug Enforcement Agency (DEA). Registration number RT0195835. Controlled substance registration for schedules 1,2,3,3N,4,5. Expires November 30, 2002.

N.C. Department of Human Resources. Registration number NC-PT 0000 0031. North Carolina controlled substances registration for schedules 1, 2, 2N, 3, 3N, 4, 5, 6. Expires October 31, 2002.

Food & Drug Administration (FDA) Registration. ID #'s 001500 1053481(ATL). Annual registration of drug establishment. Current for 2002.

OTHER

Clinical Laboratory Improvement Amendments (CLIA) Registration. ID # 34D0705123. Department of Health & Human Services, Health Care Financing Administration. Certificate for the Acceptance of Human Specimens for the purposes of performing laboratory examinations or procedures - Chemistry, Toxicology, HCFA. Expires May 30, 2003.

U.S. Department of Agriculture Soil Permit. Permit No. S-56724. Under the authority of the Federal Plant Pest Act, permission is granted to receive foreign soil samples for use in laboratory analysis. Expires March 31, 2007.

U.S. EPA Large Quantity Hazardous Waste Generator. EPA ID #NCR000137232. Permit indicates that the laboratory is a large generator of hazardous waste. No expiration date.

U.S. Fish and Wildlife Permit. Number LE027890-1. Authorization to import/export wildlife and/or wildlife products. Expires April 30, 2003.

DOCUMENT CONTROL

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

CHAIN OF CUSTODY RECORD

POLLUTION CONTROL LABORATORY
121 Fairmont Plaza
Pearl, Mississippi 39208

PROJECT NAME: Crystal Springs Dioxin

LOCATION:

SHIPPED TO: Triangle Lab's Inc, 2445 South Alston Ave., Durham, NC 27713

DATA TO:

SAMPLE TYPES
1. SURFACE WATER
2. GROUND WATER
3. POTABLE WATER
4. WASTEWATER
5. LEACHATE
6. SOIL/SEDIMENT (circled)
7. SLUDGE
8. WASTE
9. AIR
10. FISH
11. OTHER ______

SAMPLERS (SIGN)
A. Al Gibson
B.
C.
D.

CIRCLE/ADD parameter desired. List no. of containers submitted.

ANALYSIS: COD, TOC, NUTRIENTS; BOD, SOLIDS; METALS (Total) (TCLP); EXT. ORG/PEST/PCBs (TCLP); PURG. AROMATICS/ HALOCARBONS; CYANIDE; FECAL COLIFORM; Oil & Grease/TPH; Phenolics; PCDD-PCDF (Cl-Cl 4-8)

SITE NO.	SAMPLE TYPE	DATE (2002)	TIME	COMP	GRAB	STATION LOCATION/DESCRIPTION	TOTAL CONTAINERS	COD, TOC, NUTRIENTS	BOD, SOLIDS	METALS	EXT. ORG	PURG. AROMATICS	CYANIDE	FECAL COLIFORM	Oil & Grease/TPH	Phenolics	PCDD-PCDF		REMARKS	LAB USE ONLY
	5	7/9	945	X		DF-DP-179	1										✓		# 12861	
	"	"	1005	X		DF-DP-157	1										✓		# 12864	
	"	"	1025	X		DF-DP-82	1										✓		# 12865	
	"	"	1450	X		DF-DP-682	1										✓		# 12872	

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
(PRINT) Al Gibson (SIGN) Al Gibson	7/26/02 1145	(PRINT) Fed Ex # (SIGN) 823907469532	(PRINT) (SIGN)		(PRINT) (SIGN)
(PRINT) (SIGN)	8-27-02 9:00	(PRINT) Dianne Taylor (SIGN) Dianne Taylor	(PRINT) (SIGN)		(PRINT) (SIGN)

NOTICE: Must use a separate form for each ice chest.

DISTRIBUTION: White and Yellow copies accompany sample shipment to lab; Yellow copy retained by lab; White copy is returned to samplers; Pink copy retained by samplers.

PAGE ______ OF ______ 3/91

TRIANGLE LABORATORIES, INC. -- LOG IN RECORD/CHAIN OF CUSTODY

Custody Seal : Present/Intact
Chain of Custody : Present
Sample Tags : Absent
Sample Tag Numbers: Not Listed on Chain of Custody
SMO Forms : N/A
Sample Seals: Present
Container...: Intact

TLI Project Number 58258
Client: MPC01 - Mississippi Dept. of Env. Quality

Book 334

Date Received 08/27/02 By Dionne Taylor

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Ice Chest ICE PACKS Temp 12.0 C

Carrier and Number FEDEX

TLI Number.. / mR/H:CPM.	Client Sample ID / Client COC ID / *	Matrix / Location	To LAB Date/Init	To STORAGE Date/Init	To LAB Date/Init	To STORAGE Date/Init	To LAB Date/Init	To STORAGE Date/Init	To LAB Date/Init	To STORAGE Date/Init	DISPOSED Date/Init
334-48-1	DF-DP-179/12861 DF-DP-179/12861	SOIL CO2 SHLF 4 MIDD	SPW 8-28-02	SPW 8-28-02							
334-48-2	DF-DP-137/12864 DF-DP-137/12864	SOIL CO2 SHLF 4 MIDD									
334-48-3	DF-DP-82/12865 DF-DP-82/12865	SOIL CO2 SHLF 4 MIDD									
334-48-4	DF-DP-642/12872 DF-DP-642/12872	SOIL CO2 SHLF 4 MIDD									

Receiving Remarks: Ice packs arrived thawed. 08/27/02 DT

Archive Remarks:

Form Revised 05/27/1997 -- Page 1 OF 1

TRIANGLE LABORATORIES, INC.
SAMPLE TRACKING AND PROJECT MANAGEMENT FORM

----------ADMINISTRATIVE INFORMATION----------

TLI Proj#: 58258-	Samples: 4	TurnAround.: 21 Day(s)
Prod Code: D01011	Matrix.: Soil	Hold Time..: 30 Day(s)
DetectLim: 1 ppt	Type...: B	Start Date.: 08/27/02
	Recvd..: 08/27/02	Ship By....: 09/15/02
		DWL Due Dt.: 09/06/02

Analyte List.: Tetra - Octa

Method.....: M 8290: Tetra-Octa Dioxin/Furan
Client Proj..: Crystal Springs Dioxin
Client.....: Mississippi Dept. of Env. Quality (MPC01)

P.O. No.....: Contract	Collect Dt/Tm: 07/09/02
Contact.....: Al Gibson	Phone.....: 601-664-3900
Proj. Mgr....:	Fax.....: 601-664-3938
	Sample Origin:

----------SPECIAL INSTRUCTIONS / QA REQUIREMENTS----------

TEF.....: EPA Prespike Standard: n/a

----------REPORTING REQUIREMENTS----------

Reporting Format: Report Option II

See MILES for Instructions/Communications.

Completed by: AG / [signature] DATE: 8-27-02

Reviewed by: [signature] / [signature] DATE: 08-27-02 (PMGT0197

TRIANGLE LABORATORIES, INC.
Percent Moisture/Solid Calculations
Project: 58258

Sample #	crd	R	Empty Vial.Wt	Wet Vial Weight...	Dry Vial Weight...	Entered.By.....	Date....	Time....	%Moist	%Solid	Valid Weight From.....-To.....	Target Weight...
002		Y	19.7500	0.0000	0.0000	RAGSDALEC	08/28/02	10:04:22	19.8	80.3	11.9552-12.9514	12.4533
003		Y	9.4000	0.0000	0.0000	RAGSDALEC	08/28/02	10:04:22	9.4	90.6	10.5960-11.4790	11.0375
0031			<no FINAL results found>									
004		Y	12.5700	0.0000	0.0000	RAGSDALEC	08/28/02	10:04:22	12.6	87.4	10.9840-11.8993	11.4416
0041			<no FINAL results found>									
005		Y	13.3400	0.0000	0.0000	RAGSDALEC	08/28/02	10:04:22	13.3	86.7	11.0727-11.9954	11.5340
0051			<no FINAL results found>									

Percent Moisture/Solid Summary

TLI.MILES.ID....	TLI.Number..	Client.Id.Number.....	%Moist	%Solid	ExtractWt	DryWtEqu	RPD..
58258- -002	334-48-1	DF-DP-179/12861	19.8	80.2	12.500	~~10.038~~	10.025
58258- -003	334-48-2	DF-DP-137/12864	9.4	90.6	11.100	10.057	
58258- -004	334-48-3	DF-DP-82/12865	12.6	87.4	11.500	10.051	
58258- -005	334-48-4	DF-DP-642/12872	13.3	86.7	11.600	10.057	

*** End of Report ***

(10) PAB 9/6/02

TRIANGLE LABORATORIES, INC.
Wet Lab Extraction and Observations
Project: 58258

Sample #	crd	TLI_Number..	Customer.Sample.Id.....	Init. pH...	NaOH mL..	Adj. pH.1.	H2SO4 mL...	Adj. pH.2.	Appearance.	Color.....	Odor...	Vol.	Entered.By.....	Date....	Time....	S
002		334-48-1	DF-DP-179/12861	n/a	n/a	n/a	n/a	n/a	clay	gray	none	0	white	08/28/02	16:23:27	F
003		334-48-2	DF-DP-137/12864	n/a	n/a	n/a	n/a	n/a	soil	brown	none	0	white	08/28/02	16:23:27	F
004		334-48-3	DF-DP-82/12865	n/a	n/a	n/a	n/a	n/a	soil	brown	none	0	white	08/28/02	16:23:27	F
005		334-48-4	DF-DP-642/12872	n/a	n/a	n/a	n/a	n/a	soil	gray	yes	0	white	08/28/02	16:23:27	F

*** End of Report ***

58258

Extraction

Type: (Soxhlet) / Jar / Sep Funnel / Steam Dist / Cont LL / ASE / Waste Dilution / Solid Phase

S.O.P: 105 Version: 16

Time On: 16:15

Time Off: 8:15

Solvents/Acids	Lot Numbers
Toluene	017635

Comments / Observations: Blank/LCS/LCSD are Sand (Lot#53-8-57P). 58139-002-Sand, tan, no odor, 003-Sand, gray, no odor, 004-Soil, brown, no odor. 58258-002-Clay, gray, no odor, 003-Soil, brown, no odor, 004-Soil, brown, no odor, 005-Soil, gray, odor. SPW 8-28-02

Concentration

Type: (Rotovap) / KD / Speedvac

S.O.P: 124 Version: 18 8/29/02

Tridecane Lot # FT-1-25-304G AA 8/29/02

Solvent Exchange	Lot Number
Heptane	024949
Iso - Octane	N/A

Division: 20%/80% 50%/50% 5ml/20ml Other

Comments / Observations:

Cleanup

S.O.P: 280 Version: 4 J Lewis 8/29/02

S.O.P: ~~260~~ ~~Version:~~ ~~15~~ (le) JJ

S.O.P: 8/29/02 ~~260~~ Version: 15 L.P. 8/30/02 JJ 8/29/02

MeCl2/Hept	ID
1.5%	CUSPL-18-115 ~~CUSPL-18-114~~ (le) JJ
20%	CUSPL-18-115 ~~CUSPL-18-114~~ (le) 8/29
6%	
Hept	024949

Comments / Observations: Acid coated silica-gel (SGA-XOIC) glasswool (GW02-0-94U) Sodium sulfate (024557) 58139 (4) 100 grams clean-up blank 50 grams J. Lewis 8/29/02

Transfers

S.O.P: 272 Version: 9

Division: 90/10 ESP 010 v. 1 JJ 8/30/02

Solvents	Lot Numbers
Heptane	024949

Comments: 90/10 split was done on 58139-002, 003 and 004. Both fractions will be sent to MS. JJ 8/30/02

*** Indicate the portion of any division that is processed or relinquished to mass spec.

Method: 8290
Matrix: Soil
Ext. Date: 8-28-02
Analyst: S. White

Project-Sample ID / TLI ID			Gross Weight Before (g)	Gross Weight After (g)	Sample Size (g) / mL	SPW 8272J USF-ALS 5/24/03 8/28/02 15:30 0.10 ug/mL 20 uL	SPW 8259F USF-mx 4/29/03 8/28/02 15:30 0.01 ug/mL 40 uL	CSC 8268T USF-C 06/24/03 08/29/02 15:30 0.01 ug/mL 20 uL	___/___ ___/___ ___:___ ___ug/mL ___uL	Chemist Spike # Spike ID " Exp. " Date " Time Concen. Volume
58139	1	TLI Blank	\	\	10.0	SPW		CSC		Any Left Yes / No
58139	2	pco1157 333-28-1A	74.7	64.6	10.1					Yes / No
58139	3	pco0816 333-28-1B	75.4	65.3	10.1					Yes / No
58139	4	333-28-2	374.3	362.8	11.4					Yes / No
58139	5	TLI LCS	\	\	10.0	↓	SPW	↓		Yes / No
58139	6	TLI LCSD	\	\	10.0	SPW	SPW	CSC		Yes / No
58128 r1	2	333-17-1	195.5	184.2	11.2					Yes / No
58128 r1	3	333-17-2	270.1	259.9	10.1					Yes / No
58128 r1	4	333-17-3	136.6	133.0	3.59 ~~10.5~~					Yes / No
58212 r1	2	334-2-1	283.9	265.0	18.8	SPW		CSC		Yes / No
58212 r1	3	334-2-2	265.9	251.5	14.2					Yes / No
58212 r1	4	334-2-3	279.8	263.2	16.4					Yes / No
58212 r1	5	334-2-4	295.0	279.2	15.7	↓		↓		Yes / No
58212 r1	6	334-2-5	297.4	282.1	14.3	SPW		CSC		Yes / No

Sample Prep Batching and Extraction/Spiking Sheet

58139.XLS

Method: 8290
Matrix: Soil
Ext. Date: 8-28-02
Analyst: S. White

Project-Sample ID / TLI ID			Gross Weight Before (g)	Gross Weight After (g)	Sample Size (g) / mL	SRW 8272J USFALS 5/24/03 8/28/02 15:30 0.10 ug/mL 20 uL	CSL 87683 USF-C 06/24/03 08/29/02 15:30 0.21 ug/mL 20 uL	CSL 8156E USFAFS 04/29/03 08/29/02 16:30 0.10 ug/mL 20 uL	CSL 82686 USF-C 06/24/03 08/29/02 16:30 0.04 ug/mL 20 uL	Chemist / Spike # / Spike ID / " Exp. / " Date / " Time / Concen. / Volume
58258	2	334-48-1	642.2	629.4	12.5	SRW	CSL	NA	NA	(Yes) / No
58258	3	334-48-2	579.6	568.3	11.1	↓	↓	↓	↓	(Yes) / No
58258	4	334-48-3	489.2	477.6	11.5	↓	↓	↓	↓	(Yes) / No
58258	5	334-48-4	510.8	499.2	11.6	SRW	CSL	NA CSL 8/29/02	NA CSL 8/29/02	(Yes) / No
58139-007 [redacted] TLI Clean-Up						NA CSL 8/29/02	NA	CSL	CSL	Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No

Project-Sample ID / TLI ID			1	2	3	4	7	8A	3/4	8B	6	9		
58139	1	TLI Blank	SW 8-28-02	CSC 8/29/02	AA 8/29/02	AA 8/29/02	AA 8/29/02	N/A		LF 8/30/02	N/A	JJ 8/30/02		
58139	2	333-28-1A						N/A			JJ 8/30/02			
58139	3	333-28-1B						N/A						
58139	4	333-28-2						8/29/02 JL	8/29/02 JL		JJ 8/30/02			
58139	5	TLI LCS						N/A			N/A			
58139	6	TLI LCSD	SW 8-28-02	CSC 8/29/02	AA 8/29/02	AA 8/29/02	AA 8/29/02	JL N/A 8/29/02		LP 8/30/02	N/A	JJ 8/30/02		
~~58128 r1~~	~~2~~	~~333-17-1~~												
~~58128 r1~~	~~3~~	~~333-17-2~~												
~~58128 r1~~	~~4~~	~~333-17-3~~												
58212 r1	2	334-2-1	SW 8-28-02	CSC 8/29/02	AA 8/29/02	AA 8/29/02	AA 8/29/02	N/A		LP 8/30/02	N/A	JJ 8/30/02		
58212 r1	3	334-2-2												
58212 r1	4	334-2-3												
58212 r1	5	334-2-4												
58212 r1	6	334-2-5	SW 8-28-02	CSC 8/29/02	AA 8/29/02	AA 8/29/02	AA 8/29/02	JL N/A 8/29/02		LP 8/30/02	N/A	JJ 8/30/02		

1) Extraction 2) Spike after extraction 3) Add Tridecane 4) Concentrate (40mL / 10 mL / Tridecane) 5) Combine

6) Divide / Lipid Determ. 7) Solvent Exchange 8) Cleanup (DSP260 / DSP280 / _____) 9) Transfer ( ) Other:

8A

Project-Sample ID / TLI ID			1	2	3	4	7	8	3/4	8B	6	9		
58258	2	334-48-1	SW 8-28-02	CSL	AA STE/IC2	AA STE/IC2	AA STE/IC2	N/A	N/A	L.P. 8/29/02	N/A	JJ 8/30/02		
58258	3	334-48-2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
58258	4	334-48-3	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
58258	5	334-48-4	SW 8-28-02	8/29/02	AA STE/IC2	AA STE/IC2	AA STE/IC2	N/A	N/A	↓	↓	↓		
58139-007 [redacted] TLI Clean-Up			NA	CSL 8/29/02	NA	NA	NA	8/29/02 JL	8/29/02 JL	8/30/02	N/A	JJ 8/30/02		

1) Extraction 2) Spike after extraction 3) Add Tridecane 4) Concentrate {40mL / 10 mL / Tridecane} 5) Combine

6) Divide / Lipid Determ. 7) Solvent Exchange 8) Cleanup {DSP260 / DSP280 / 8B / N} 9) Transfer ( ) Other: _____

TRIANGLE LABORATORIES, INC.
Transfer Chain-of-Custody Form
Project 58258

Transfer From: DWLH5 To: DMS5

	Initials..	Date.....	Time...
Released by:	JJ	8/30/02	19:51
Accepted by:	JSY	8/31/02	19:41

MILES.ID.....		TLI_No.....	Cust.Id.....
58258-	-002	334-48-1	DF-DP-179/12861
58258-	-003	334-48-2	DF-DP-137/12864
58258-	-004	334-48-3	DF-DP-82/12865
58258-	-005	334-48-4	DF-DP-642/12872

XfrCOC (Rev 11/01/94)

Additional comments or instructions:

TRIANGLE LABORATORIES, INC.

Method: M 8290: Tetra-Octa Dioxin/Furan — HR GC/HRMS ANALYSIS — PROJECT: 58258

Required Detection Limit: 1 ppt

SAMPLE INFORMATION — RS Conc 20 µl @ 100.0 PG/µl

S#.crd	TLI / SAMPLE ID / CLIENT / SAMPLE ID	1ST COLUMN GC/MS FILENAME / COLUMN: DB5	CONFIRM	2ND COLUMN CONFIRM FILENAME / COLUMN: DB-225	USF-RS VOLUME / SOLN ID	USF-RS INIT. / DATE	ANALYSIS COMMENTS
002	334-48-1 DF-DP-179/12861	U131905	N		20ml 826911	6/4/12	Batched with 58139
003	334-48-2 DF-DP-137/12864	U131904	Y	P023219			
004	334-48-3 DF-DP-82/12865	U131905	Y	P023220			
005	334-48-4 DF-DP-642/12872	U131906	Y	P023221	20ml 826911	6/4/12	

Comments: _____

Type: B

Spike File: SPMIT22S

Amt of Extract: 100%

REV 03/07/95 (PSTMF 6)

Triangle Laboratories, Inc.
Run Log

Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
701-84	DB5	2287826	T02	2.0uL	NDB5US	NDB5US

Signature: John Walton Date: 9/3/02

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
113406	9/3/02	22:28	58082C1	332-75-26	6	AH4-SB-79.1	Auto	2.2 E7	JW 9/3/02	
↓ 07	9/3/02	23:17	↓	332-75-27	7	AH4-SB-79.4	↓	6.0 E6	↓	
08	9/4/02	00:06		332-75-32	12	AH4-SB-75.1		2.3 E7		
09	↓	00:55		332-75-33	13	AH4-SB-75.4		1.2 E7		
10		01:44		332-75-35	14	AH4-SB-67.0		1.7 E7		
11	↓	02:33	↓	332-75-36	15	AH4-SB-67.1	↓	1.8 E7	↓	
113412	9/4/02	03:22	58082C1	332-75-38	17	ST MARKS-005	Auto	9.0 E6	JW 9/3/02	
U021315	9/4/02	04:25	—	8217	—	8290/1613 Concal 10	Aut	1.1 E7	Jm 9/4/02	Concal f/b 8290 TD Jm
U131401	↓	05:35	—	8290	—	RTCHK	Aut	18%	Jm 9/4/02	
↓ 02		06:23	58139	TLS Blk	1	TLS Blank	↓	9.3 E6	↓	
03		07:12	58072 Ar2	332-60-14	15	02B75 2124SL		1.4 E7		
↓ 04	↓	08:01	↓	↓ -15	14	02B75 2649SL	↓	1.1 E7	↓	
U131405	9/4/02	0850	58072 Ar2	332-60-16	17	02B75 2775SL	Aut	1.2E7	Jm 9/4/02	

* Transcribed from chromatographic data
** Dated initials required

ConCal Due: ______________
ConCal Due: ______________

Triangle Laboratories, Inc.
Run Log

Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
TRL-84	DB5	2287826	TCDD	2.0 µl	NOD856	NOD856

[signature] Signature — 9/4/02 Date

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
U131606	9/4/02	1023	58072	332-60-1eMS	18	02B75270SL MS	Auto	1.4E7	[initials] 9/4/02	
07	↓	1112	↓	↓ -1eMSD	19	02B75270SL MSD	↓	1.5E7	↓	
08		1200	58139	333-28-1A	2	D07710		9.5E6		
09		1248		↓ -1B	3	D07710		1.4E7		
10		1336		333-28-2	4	D07705		1.0E7		
11		1425		TLI LCS	5	TLI LCS		9.9E6		
12	↓	1513	↓	TLI LCSD	6	TLI LCSD	↓	7.8E6	↓	
U131613	9/4/02	—	58139	TLI Cleanup	7	Cleanup Blk	Auto	–	[initials] 9/4/02	Sample Removed from Autorun [initials] 9402
U021317	9402	1610	—	8217	–	8290/1613 CONCAL10	AUTO	1.8E7	[initials] 9402	Good 8290 T→0 F1B TTF 9/4/02
U021318	9402	17:20	—	8280	—	RetchK	Auto	16%	TTF 9402	
U131901	9/4/02	18:22	—	8269F/8272F	–	RS100/ATS	Auto	6.3E6	[initials] 9/4/02	Clean 9/5/02
↓ 02	↓	19:11	58139	TLI Clean Up	–	Cleanup Blk	↓	1.1E7	↓	
U131903	9/4/02	20:00	58258	334-48-1	2	SF-SD-179/2861	Auto	1.1E7	[initials] 9/4/02	

* Transcribed from chromatographic data
** Dated initials required

ConCal Due: 16:25 [initials] 9/4/02
ConCal Due:

srvr1/qa/forms/hrrunlog.doc (02/05/97)

Triangle Laboratories, Inc.
Run Log

Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
7011-84	DB5	2287826	T02	20µl	U585545	U585545

Signature: John Walton Date: 9/4/02

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
U131904	9/4/02	20:48	58258	334-48-2	3	SF-SP-~~141~~ *137/12864	Auto	1.5 E7	JW 9/4/02	
05	↓	21:37	↓	334-48-2	4	SF-SP-82/12865	↓	1.9 E7	↓	
06		22:26	58258	334-48-3	5	SF-SP-142/12872		6.8 E6		
07	↓	23:14	58212r1	334-2-1	2	SW-844-081602		1.5 E7		
08	9/5/02	00:03	↓	334-2-2	3	SW-845-081602		1.1 E7		
09	↓	00:51	↓	334-2-3	4	SW-845-081602	↓	1.2 E7	↓	
U131910	9/5/02	01:40	58212r1	334-2-4	5	SW-846-081602	Auto	1.0 E7	JW 9/4/02	Good FTB 8290 ..., Good 1613B ... 9/5/02
U021320	9/5/02	02:49	—	8217	—	8290/1613 Cncl 10	Auto	1.0 E7	9/5/02	
U132101	9/5/02	03:54	—	8290	—	MTCHK	Auto	1770	9/5/02	
↓ 02	↓	04:42	57981A1	OPR	0	OPR	↓	1.7 E7	↓	
U132103	9/5/02	05:31	↓	TCL Blk	1	TCL Blk	Auto	9.8 E6	9/5/02	
U132201	↓		58102r1	OPR	0	OPR	↓		9/5/02	
U132202	9/5/02		58102r1	TCL BLANK	1	TCL BLANK	Auto		9/5/02	

* Transcribed from chromatographic data
** Dated initials required

ConCal Due: 4:10 JW 9/4/02
ConCal Due: ______

Triangle Laboratories, Inc.
Run Log

Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
70P-38	DB225	2153914	TT	2.0µl	DB225	DB225

Signature: [signature] Date: 9/4/02

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
P023208	9/4/02	0843	58246	M23 train	3	DF, 2A, 2B, 2C	Aut	1.5E6	[initials] 9/4/02	
P023209	↓	0929	↓	↓	4	DF·3A, 3B, 3C	AUTO	1.3E6	↓	
P023210	9402	1300	–	8217	–	8290/1613 CONCAL 10	AUTO	9.6E5	[initials] 9402	Good All Methods F/B [initials] 9402
P023211	9402	1353	–	8280	–	RTCHK	AUTO	18%	[initials] 9402	
212	↓	1449	–	8269/8234E	–	RS/AIS BLANK	↓	5.2E5	↓	Clean [initials] 9402
213	↓	1533	58139	333-28-1B	3	D07710	↓	9.4E5	↓	
P023214	9402	1619	58139	333-28-2	4	D07705	AUTO	2.5E5	[initials] 9402	
P023216	9/4/02	20:42	—	8217	–	8290/1613 Concal 10	Auto	8.0 E5	[initials] 9/4/02	P023215, [illegible] 9/4/02; Good F/B All methods [initials] 9/4/02
P023217	9/5/02	01:30	—	8280	—	RTCHK	Aut	20%	[initials] 9/5/02	
P023218		04:13	—	8269E	—	RS-100	Aut	1.5 E6	[initials] 9/5/02	Clean [initials] 9/5/02
P023219		04:57	58258	334-48-2	3	DF-DP-137/12864		7.7 E5		
P023220	↓	05:43	↓	↓ -3	4	DF-DP-82/12865	↓	5.3 E5	↓	
P023221	9/5/02		58258	334-48-4	5	DF-DP-642/12872	Aut		[initials] 9/5/02	

Transcribed from chromatographic data
Dated initials required [initials] 9/4/02

ConCal Due: ____________
ConCal Due: ____________

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vr1/qa/forms/hrrunlog.doc (02/05/97)

Triangle Laboratories, Inc.
Run Log

Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
70P-38	DB-225	2153914	TT1	2µl	DB225	DB225

Signature

Date 9/5/02

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
P023222	9502	0713	—	8217	—	8290/1613 Conalin	HS	7.1E5	9/5/02	Good All methods TTE 9/5/02

29 Transcribed from chromatographic data
Dated initials required

ConCal Due: _____
ConCal Due: _____

SAMPLE DATA

2445 S. Alston Ave. • Durham, NC 27713 • (919) 544-5729 • FAX (919) 544-5491
www.trianglelabs.com

TRIANGLE LABORATORIES, INC.
LAB CONTROL SPIKE RECOVERY ANALYSIS AND COMPARISON

Project: 58258
Matrix: SAND
Method: 8290

Isomer	U131602 ID: TLI Blank Sample (pg/g)	U131611 ID: TLI LCS With Spike (pg/g)	Percent Recovery	U131612 ID: TLI LCSD Spike Dup (pg/g)	Percent Recovery	Relative Percent Difference
2378-TCDD	ND	46.5	116	47.0	118	1.71
12378-PeCDD	ND	226	113	237	118	4.33
123478-HxCDD	ND	218	109	222	111	1.82
123678-HxCDD	ND	211	105	227	113	7.34
123789-HxCDD	ND	230	115	241	121	5.08
1234678-HpCDD	ND	200	100	201	101	1.00
OCDD	ND	319	79.7	308	77.0	3.45
2378-TCDF	ND	46.6	117	48.7	122	4.18
12378-PeCDF	ND	224	112	227	113	0.89
23478-PeCDF	ND	213	107	245	122	13.1
123478-HxCDF	ND	208	104	217	108	3.77
123678-HxCDF	ND	210	105	216	108	2.82
234678-HxCDF	ND	227	113	221	110	2.69
123789-HxCDF	ND	213	107	230	115	7.21
1234678-HpCDF	ND	228	114	233	117	2.60
1234789-HpCDF	ND	214	107	216	108	0.93
OCDF	ND	294	73.6	302	75.5	2.55

ND: Not Detected
NA: Not Applicable
[..]: EMPC Value

MILES 4.22.16
GRY_PSUM v1.11

Processed By: _____ Date: 09/05/02

Percent Recovery QC Limits: 70 to 130 percent.
Relative Percent Difference QC Limits: +/- 20 percent.

Nominal Spike Levels:
TCDD/TCDF..: 0.4 ng
PeCDD/PeCDF: 2.0 ng
HxCDD/HxCDF: 2.0 ng
HpCDD/HpCDF: 2.0 ng
OCDD/OCDF..: 4.0 ng

Data File	U131602	U131903	U131904	U131905
Sample ID	TLI Blank	DF-DP-179/12861	DF-DP-137/12864	DF-DP-82/12865
Units	pg/g	pg/g	pg/g	pg/g
Extraction Date	08/28/2002	08/28/2002	08/28/2002	08/28/2002
Analysis Date	09/04/2002	09/04/2002	09/04/2002	09/04/2002
Instrument	U	U	U	U
Matrix	SAND	SOIL	SOIL	SOIL
Extraction Type				
Analytes				
2378-TCDD	(0.6)	(0.5)	{0.94} J	{0.19} J
12378-PeCDD	(0.7)	(0.6)	9.1	{14.3}
123478-HxCDD	(0.8)	(0.7)	8.2	9.9
123678-HxCDD	(0.8)	(0.6)	74.7	104
123789-HxCDD	(0.8)	{0.71} J	33.5	38.2
1234678-HpCDD	(1.1)	9.7	204	433
OCDD	(1.6)	191	8120 E	3440
2378-TCDF	(0.4)	(0.3)	14.1	197
12378-PeCDF	(0.4)	(0.4)	14.2	47.8
23478-PeCDF	(0.4)	(0.4)	29.2	114
123478-HxCDF	(0.5)	6.3	191	1500
123678-HxCDF	(0.4)	{0.73} J	76.0	135
234678-HxCDF	(0.5)	{0.72} J	82.8	130
123789-HxCDF	(0.6)	(0.6)	1.2 J	(0.3)
1234678-HpCDF	(0.7)	25.9	3050 E	4720 E
1234789-HpCDF	(0.9)	(0.9)	47.6	176
OCDF	(1.2)	5.1 J	545	1750
TOTAL TCDD	(0.6)	(0.5)	24.5	21.6 Q
TOTAL PeCDD	(0.7)	(0.6)	40.5	17.2
TOTAL HxCDD	(0.8)	3.7	484	270
TOTAL HpCDD	(1.1)	22.0	379	749
TOTAL TCDF	(0.4)	11.3	229 X	4400 E
TOTAL PeCDF	(0.4)	28.7	897	13590 E
TOTAL HxCDF	(0.5)	23.3	2070	6900 XE
TOTAL HpCDF	(0.8)	38.4	4830 E	8200 E
Other Standards Percent Recovery Summary (% Rec)				
37Cl-TCDD	59.5	60.6	86.2	909
Other Standards Percent Recovery Summary (% Rec)				
13C12-PeCDF 234	70.3	65.9	66.4	77.5
13C12-HxCDF 478	86.9	77.6	70.5	92.7
13C12-HxCDD 478	79.2	77.8	73.1	86.9
13C12-HpCDF 789	88.7	66.0	66.3	77.5
Other Standards Percent Recovery Summary (% Rec)				
13C12-HxCDF 789	100	76.9	74.1	99.2
13C12-HxCDF 234	96.9	81.7	73.7	90.9
Internal Standards Percent Recovery Summary (% Rec)				
13C12-2378-TCDF	62.0	63.3	65.5	82.4
13C12-2378-TCDD	62.1	62.0	65.4	86.7

Data File	U131602	U131903	U131904	U131905
Sample ID	TLI Blank	DF-DP-179/12861	DF-DP-137/12864	DF-DP-82/12865
Units	pg/g	pg/g	pg/g	pg/g
Extraction Date	08/28/2002	08/28/2002	08/28/2002	08/28/2002
Analysis Date	09/04/2002	09/04/2002	09/04/2002	09/04/2002
Instrument	U	U	U	U
Matrix	SAND	SOIL	SOIL	SOIL
Extraction Type				
Internal Standards Percent Recovery Summary (% Rec)				
13C12-PeCDF 123	68.4	65.7	68.6	78.2
13C12-PeCDD 123	74.0	73.3	75.1	94.3
13C12-HxCDF 678	91.5	78.4	72.0	84.3
13C12-HxCDD 678	76.1	78.2	67.7	83.3
13C12-HpCDF 678	81.9	66.6	66.9	74.9
13C12-HpCDD 678	93.6	67.6	67.4	81.2
13C12-OCDD	108	77.1	96.8	90.7

Data File	U131906		U131611	U131612
Sample ID	DF-DP-642/12872		TLI LCS	TLI LCSD
Units	pg/g		pg/g	pg/g
Extraction Date	08/28/2002		08/28/2002	08/28/2002
Analysis Date	09/04/2002		09/04/2002	09/04/2002
Instrument	U		U	U
Matrix	SOIL		SAND	SAND
Extraction Type				
Analytes				
2378-TCDD	(1.5)		46.5	47.0
12378-PeCDD	(1.8)		226	237
123478-HxCDD	(2.9)	J	218	222
123678-HxCDD	(7.2)		211	227
123789-HxCDD	(4.6)	J	230	241
1234678-HpCDD	53.8		200	201
OCDD	2380		319	308
2378-TCDF	600	E	46.6	48.7
12378-PeCDF	184	X	224	227
23478-PeCDF	527		213	245
123478-HxCDF	1460		208	217
123678-HxCDF	195		210	216
234678-HxCDF	226		227	221
123789-HxCDF	7.9		213	230
1234678-HpCDF	1780		228	233
1234789-HpCDF	513		214	216
OCDF	3580		294	302
TOTAL TCDD	(26.7)	Q		
TOTAL PeCDD	(109)	Q		
TOTAL HxCDD	19.4			
TOTAL HpCDD	120			
TOTAL TCDF	2440	E		
TOTAL PeCDF	3720			
TOTAL HxCDF	3890			
TOTAL HpCDF	4150			
Other Standards Percent Recovery Summary (% Rec)				
37Cl-TCDD	133		61.5	62.8
Other Standards Percent Recovery Summary (% Rec)				
13C12-PeCDF 234	124		81.8	73.9
13C12-HxCDF 478	83.6		84.8	97.6
13C12-HxCDD 478	87.9		89.5	87.6
13C12-HpCDF 789	82.5		71.5	88.4
Other Standards Percent Recovery Summary (% Rec)				
13C12-HxCDF 789	79.8		90.2	106
13C12-HxCDF 234	88.4		96.2	103
Internal Standards Percent Recovery Summary (% Rec)				
13C12-2378-TCDF	86.2		64.9	66.8
13C12-2378-TCDD	92.7		65.7	64.0

Data File	U131906	U131611	U131612
Sample ID	DF-DP-642/12872	TLI LCS	TLI LCSD
Units	pg/g	pg/g	pg/g
Extraction Date	08/28/2002	08/28/2002	08/28/2002
Analysis Date	09/04/2002	09/04/2002	09/04/2002
Instrument	U	U	U
Matrix	SOIL	SAND	SAND
Extraction Type			
Internal Standards Percent Recovery Summary (% Rec)			
13C12-PeCDF 123	108	88.9	72.0
13C12-PeCDD 123	134	96.9	81.0
13C12-HxCDF 678	83.5	87.9	98.1
13C12-HxCDD 678	83.0	79.7	85.7
13C12-HpCDF 678	71.5	71.4	88.0
13C12-HpCDD 678	76.9	72.2	90.0
13C12-OCDD	77.6	85.3	97.4

{Estimated Maximum Possible Concentration}, (Detection Limit).

Data File	P023219	P023220	P023221	
Sample ID	DF-DP-137/12864	DF-DP-82/12865	DF-DP-642/12872	
Units	pg/g	pg/g	pg/g	
Extraction Date	08/28/2002	08/28/2002	08/28/2002	
Analysis Date	09/05/2002	09/05/2002	09/05/2002	
Instrument	P	P	P	
Matrix	SOIL	SOIL	SOIL	
Extraction Type				
Analytes				
2378-TCDF	5.4	103	440	E
Internal Standards Percent Recovery Summary (% Rec)				
13C12-2378-TCDF	63.3	92.2	96.2	

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **TLI Blank** Analysis File: **U131602**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SAND**	Date Received:	/ /	Spike File:	**SPMIT32S**
TLI ID:	**TLI Blank**	Date Extracted:	**08/28/2002**	ICal:	**UF57092**
		Date Analyzed:	**09/04/2002**	ConCal:	**U021315**
Sample Size:	**10.000 g**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	0.6				—
1,2,3,7,8-PeCDD	ND	0.7				—
1,2,3,4,7,8-HxCDD	ND	0.8				—
1,2,3,6,7,8-HxCDD	ND	0.8				—
1,2,3,7,8,9-HxCDD	ND	0.8				—
1,2,3,4,6,7,8-HpCDD	ND	1.1				—
1,2,3,4,6,7,8,9-OCDD	ND	1.6				—
2,3,7,8-TCDF	ND	0.4				—
1,2,3,7,8-PeCDF	ND	0.4				—
2,3,4,7,8-PeCDF	ND	0.4				—
1,2,3,4,7,8-HxCDF	ND	0.5				—
1,2,3,6,7,8-HxCDF	ND	0.4				—
2,3,4,6,7,8-HxCDF	ND	0.5				—
1,2,3,7,8,9-HxCDF	ND	0.6				—
1,2,3,4,6,7,8-HpCDF	ND	0.7				—
1,2,3,4,7,8,9-HpCDF	ND	0.9				—
1,2,3,4,6,7,8,9-OCDF	ND	1.2				—

Totals	Conc. (pg/g)	Number	DL	EMPC	Flags
Total TCDD	ND		0.6		—
Total PeCDD	ND		0.7		—
Total HxCDD	ND		0.8		—
Total HpCDD	ND		1.1		—
Total TCDF	ND		0.4		—
Total PeCDF	ND		0.4		—
Total HxCDF	ND		0.5		—
Total HpCDF	ND		0.8		—

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TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **TLI Blank** Analysis File: **U131602**

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	124	62.0	40%-135%	0.78	26:02	___
$^{13}C_{12}$-2,3,7,8-TCDD	124	62.1	40%-135%	0.78	26:45	___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	137	68.4	40%-135%	1.58	29:58	___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	148	74.0	40%-135%	1.59	30:59	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	183	91.5	40%-135%	0.51	33:32	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	152	76.1	40%-135%	1.32	34:12	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	164	81.9	40%-135%	0.48	36:26	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	187	93.6	40%-135%	1.10	37:27	___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	433	108	40%-135%	0.87	41:03	___

Surrogate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	141	70.3	40%-135%	1.58	30:40	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	174	86.9	40%-135%	0.52	33:26	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	158	79.2	40%-135%	1.29	34:07	___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	177	88.7	40%-135%	0.46	37:58	___

Other Standard	Conc. (pg/g)	% Recovery	QC Limits		RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	11.9	59.5	40%-135%		26:46	___

Alternate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	201	100	40%-135%	0.51	34:47	___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	194	96.9	40%-135%	0.52	34:01	___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	26:33	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.33	34:31	___

Data Reviewer: _____ 09/05/2002

MIT3_PSR v1.00, LARS 6.25.05

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Mississippi Dept. of Env. Quality

TLI Project: **58258** — Toxicity Equivalents Report
Client Sample: **TLI Blank** — Analysis File: **U131602**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SAND**	Date Received:	**08/27/02**	Spike File:	**SPMIT32S**
TLI ID:	**TLI Blank**	Date Extracted:	**08/28/02**	ICal:	**UF57092**
		Date Analyzed:	**09/04/02**	ConCal:	**U021315**
Sample Size:	**10.000 g**	Dilution Factor:	**1**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.6}	x	1.	=	0.6
1,2,3,7,8-PeCDD	{0.7}	x	0.5	=	0.4
1,2,3,4,7,8-HxCDD	{0.8}	x	0.1	=	0.08
1,2,3,6,7,8-HxCDD	{0.8}	x	0.1	=	0.08
1,2,3,7,8,9-HxCDD	{0.8}	x	0.1	=	0.08
1,2,3,4,6,7,8-HpCDD	{1.1}	x	0.01	=	0.011
1,2,3,4,6,7,8,9-OCDD	{1.6}	x	0.001	=	0.0016
TOTAL PCDD					1.3
2,3,7,8-TCDF	{0.4}	x	0.1	=	0.04
1,2,3,7,8-PeCDF	{0.4}	x	0.05	=	0.02
2,3,4,7,8-PeCDF	{0.4}	x	0.5	=	0.2
1,2,3,4,7,8-HxCDF	{0.5}	x	0.1	=	0.05
1,2,3,6,7,8-HxCDF	{0.4}	x	0.1	=	0.04
2,3,4,6,7,8-HxCDF	{0.5}	x	0.1	=	0.05
1,2,3,7,8,9-HxCDF	{0.6}	x	0.1	=	0.06
1,2,3,4,6,7,8-HpCDF	{0.7}	x	0.01	=	0.007
1,2,3,4,7,8,9-HpCDF	{0.9}	x	0.01	=	0.009
1,2,3,4,6,7,8,9-OCDF	{1.2}	x	0.001	=	0.0012
TOTAL PCDF					0.5

Total EPA TEFs, 1989a: 1.7 pg/g

{...} indicates that the value is that of a Detection Limit.

GRY_TEF v1.08, MILES 4.22.16

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Printed: 19:13 09/05/02

Initial ...Date...

Data Review By: [signature] 9/6/02

Calculated Noise Height: 1.82

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of U131602B.dbf
09/05/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-TCDF						0.65-0.89				0.962-1.038			
316-318	DC	NL				Height	5.50	2.87	2.63				
				25:02		0.74	31.36	13.37	17.99	0.962			
				25:20	RO	0.41	28.92	12.58	30.83	0.973			
				25:38	RO	0.59	80.80	35.15	59.71	0.985			
				26:02		0.78	7,569.00	3,309.12	4,259.88	1.000	13C12-2378-TCDF	ISO	
						Height	1,801.61	782.86	1,018.75				
				26:33		0.83	23.77	10.78	12.99	1.020			
				26:45	RO	1.27	17.08	12.29	9.65	1.028			
316-318			6	Peaks			7,750.93						
---------- Above: TCDF / TCDD Follows ----------													
TCDD						0.65-0.89				0.900-1.044			
320-322	DC	NL				Height	3.94	1.94	2.00				
	DC	SN	27:26	RO		1.43	6.69			1.026			
320-322			0	Peaks			0.00						
37Cl-TCDD										0.925-1.075			
328	DC	NL				Height	1.85	1.85					
	DC	WL	24:14				7.80			0.906			
	DC	WL	24:30				6.27			0.916			
	DC	WL	24:32				0.98			0.917			
	DC	WL	24:35				3.56			0.919			
			25:24				31.99	31.99		0.950			
	DC	SN	25:35				5.05			0.956			
			26:46				543.85	543.85		1.001	37Cl-TCDD		CLS
	DC	SN	27:06				6.37			1.013			
	DC	SN	27:18				12.97			1.021			
	DC	SN	27:31				6.07			1.029			
	DC	SN	27:39				3.02			1.034			
	DC	SN	27:42				1.72			1.036			
	DC	SN	27:50				6.42			1.040			
	DC	SN	27:58				3.19			1.045			
	DC	SN	27:59				9.39			1.046			
	DC	SN	28:23				9.47			1.061			
328			2	Peaks			575.84						
13C12-TCDD						0.65-0.89				0.925-1.075			
332-334	DC	NL				Height	12.83	8.56	4.27				
				26:33		0.82	7,612.26	3,420.15	4,192.11	0.993	13C12-1234-TCDD	RS1	
				26:45		0.78	5,337.45	2,345.33	2,992.12	1.000	13C12-2378-TCDD	IS1	
						Height	1,363.82	616.89	746.93				
332-334			2	Peaks			12,949.71						

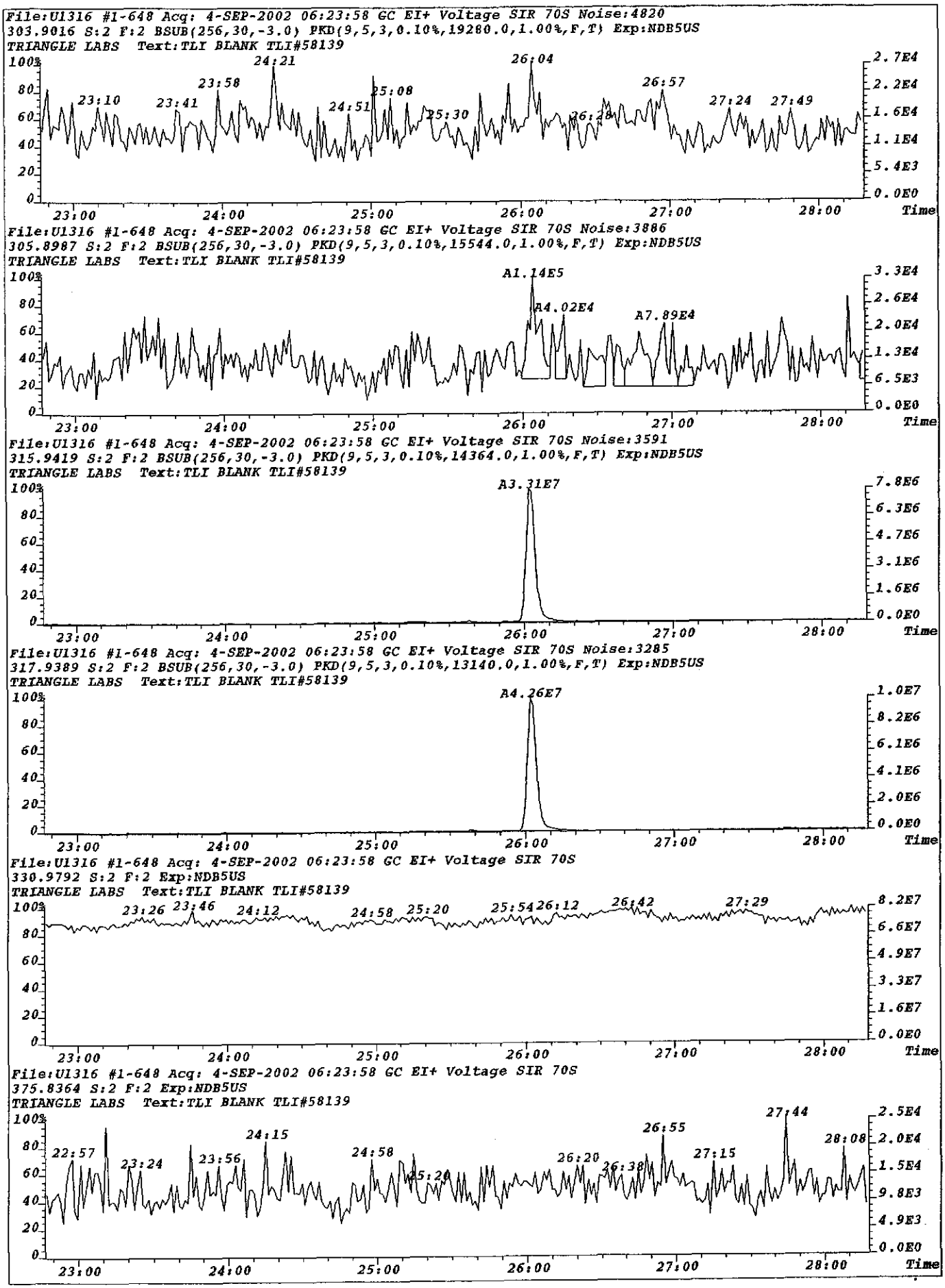
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78				0.928-1.062			
340-342	DC	NL				Height	4.10	2.00	2.10				
340-342		0	Peaks				0.00						
13C12-PeCDF						1.32-1.78				0.867-1.133			
352-354	DC	NL				Height	3.79	1.75	2.04				
				29:06		1.71	53.74	33.89	19.85	0.971			
				29:58		1.58	5,806.62	3,553.85	2,252.77	1.000	13C12-PeCDF 123	IS2	
						Height	1,663.24	1,019.29	643.95				
				30:15	RO	2.69	83.41	88.02	32.71	1.009			
				30:40		1.58	5,992.25	3,673.86	2,318.39	1.023	13C12-PeCDF 234	SUR1	
	DC	SN		31:27		1.75	18.09			1.049			
				31:38	RO	2.06	89.58	72.50	35.13	1.056			
352-354		5	Peaks				12,025.60						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD						1.32-1.78				0.938-1.022			
356-358	DC	NL				Height	3.31	1.72	1.59				
	DC	SN		31:15	RO	1.22	12.04			1.009			
356-358		0	Peaks				0.00						
13C12-PeCDD						1.32-1.78				0.871-1.129			
368-370	DC	NL				Height	3.73	2.08	1.65				
	DC	SN		29:55	RO	1.95	16.60			0.966			
	DC	SN		30:15		1.57	12.09			0.976			
	DC	SN		30:41	RO	1.02	21.62			0.990			
				30:59		1.59	3,744.57	2,297.76	1,446.81	1.000	13C12-PeCDD 123	IS3	
						Height	1,115.75	695.81	419.94				
	DC	SN		31:17	RO	1.14	24.40			1.010			
	DC	SN		31:29		1.37	35.35			1.016			
	DC	SN		31:38	RO	0.82	8.59			1.021			
	DC	SN		31:54	RO	0.72	8.80			1.030			
	DC	SN		32:05	RO	0.68	6.78			1.036			
368-370		1	Peak				3,744.57						
---------- Above: PeCDD / HxCDF Follows ----------													
13C12-HxCDF						0.43-0.59				0.881-1.119			
384-386	DC	NL				Height	5.95	2.72	3.23				
				33:26		0.52	5,439.98	1,866.37	3,573.61	0.997	13C12-HxCDF 478	SUR2	
				33:32		0.51	5,712.20	1,936.66	3,775.54	1.000	13C12-HxCDF 678	IS4	
						Height	1,750.90	591.21	1,159.69				
	DC	SN		33:49	RO	0.29	13.26			1.008			
				34:01		0.52	5,562.04	1,892.11	3,669.93	1.014	13C12-HxCDF 234	ALT2	
				34:47		0.51	4,581.92	1,542.21	3,039.71	1.037	13C12-HxCDF 789	ALT1	
				35:01	RO	0.41	47.55	16.06	39.28	1.044			
	DC	SN		35:16		0.56	12.10			1.052			
384-386		5	Peaks				21,343.69						

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43				0.959-1.013			
390-392	DC	NL				Height	3.41	1.61	1.80				
	DC	SN		33:47	RO	0.46	2.15			0.988			
	DC	SN		33:56	RO	0.36	1.12			0.992			
	DC	SN		34:02	RO	1.53	7.41			0.995			
	DC	SN		34:11	RO	0.76	2.57			1.000	123678-HxCDD		AN
390-392		0	Peaks				0.00						
13C12-HxCDD						1.05-1.43				0.971-1.029			
402-404	DC	NL				Height	5.00	2.59	2.41				
				33:35	RO	1.81	32.35	26.14	14.44	0.982			
				34:07		1.29	3,142.57	1,773.02	1,369.55	0.998	13C12-HxCDD	478	SUR3
				34:12		1.32	3,341.81	1,902.73	1,439.08	1.000	13C12-HxCDD	678	IS5
						Height	1,095.52	614.36	481.16				
				34:31		1.33	4,225.64	2,409.20	1,816.44	1.009	13C12-HxCDD	789	RS2
	DC	SN		34:58		1.29	10.59			1.022			
402-404		4	Peaks				10,742.37						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.88-1.20				0.996-1.047			
408-410	DC	NL				Height	3.43	1.58	1.85				
	DC	SN		36:25	RO	1.34	8.10			1.000	1234678-HpCDF		AN
408-410		0	Peaks				0.00						
13C12-HpCDF						0.37-0.51				0.945-1.110			
418-420	DC	NL				Height	4.10	2.18	1.92				
				36:26		0.48	3,636.03	1,171.77	2,464.26	1.000	13C12-HpCDF	678	IS6
						Height	939.45	303.55	635.90				
	DC	SN		36:43		0.49	21.79			1.008			
	DC	SN		36:55	RO	2.81	4.74			1.013			
	DC	SN		37:11	RO	3.28	4.05			1.021			
				37:58		0.46	2,766.03	877.63	1,888.40	1.042	13C12-HpCDF	789	SUR4
418-420		2	Peaks				6,402.06						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.976-1.005			
424-426	DC	NL				Height	2.96	1.51	1.45				
	DC	SN		36:38	RO	0.49	4.04			0.978			
	DC	SN		37:04	RO	0.22	1.75			0.990			
	DC	SN		37:12		1.04	9.20			0.993			
424-426		0	Peaks				0.00						
13C12-HpCDD						0.88-1.20				0.973-1.027			
436-438	DC	NL				Height	4.10	2.25	1.85				
				37:27		1.10	3,198.42	1,672.60	1,525.82	1.000	13C12-HpCDD	678	IS7
						Height	813.27	432.97	380.30				
436-438		1	Peak				3,198.42						

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.903-1.097			
442-444	DC	NL				Height	3.60	1.77	1.83				
	DC	SN		40:30	RO	0.39	8.56			0.987			
	DC	SN		42:13	RO	0.50	5.27			1.028			
	DC	SN		42:25	RO	0.18	2.68			1.033			
	DC	SN		42:32	RO	1.03	3.29			1.036			
	DC	SN		42:40	RO	1.19	15.67			1.039			
	DC	SN		43:04	RO	0.12	1.74			1.049			
	DC	SN		43:40	RO	11.92	1.00			1.064			
	DC	SN		43:50	RO	7.89	2.21			1.068			
442-444			0	Peaks			0.00						
OCDD						0.76-1.02				0.903-1.097			
458-460	DC	NL				Height	3.20	1.61	1.59				
	DC	SN		41:03	RO	4.94	6.27			1.000	OCDD		AN
	DC	SN		41:25	RO	0.32	3.53			1.009			
	DC	SN		41:36		0.94	10.47			1.013			
458-460			0	Peaks			0.00						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	2.69	1.30	1.39				
				41:03		0.87	5,008.36	2,324.23	2,684.13	1.000	13C12-OCDD		IS8
						Height	1,016.55	475.75	540.80				
470-472			1	Peak			5,008.36						

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

*** End of Report ***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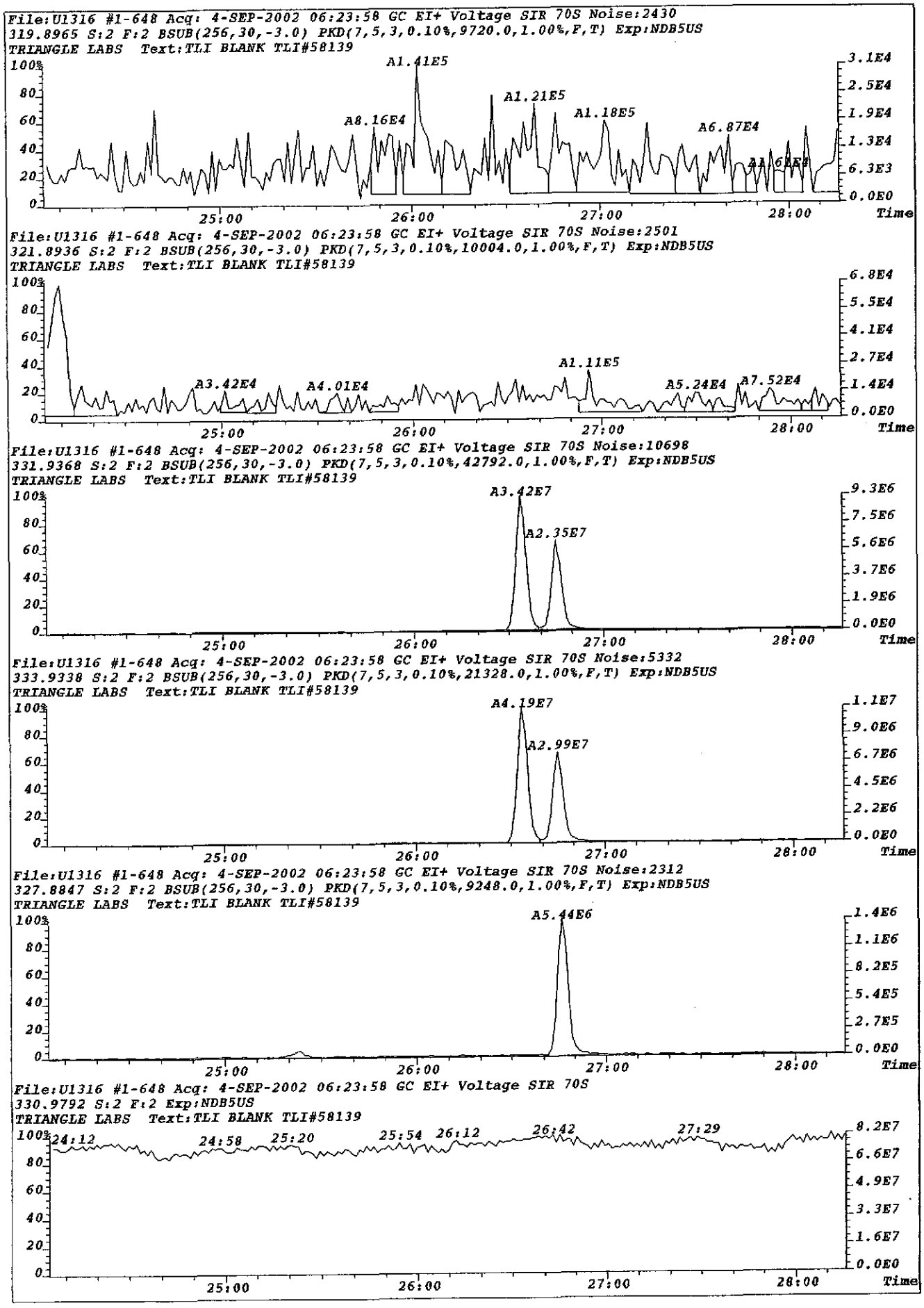
303.9016 S:2 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,19280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
23:10 23:41 23:58 24:21 24:51 25:08 25:30 26:04 26:57 27:24 27:49
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:3886
305.8987 S:2 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,15544.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A1.14E5 A4.02E4 A7.89E4
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:3591
315.9419 S:2 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,14364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A3.31E7
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:3285
317.9389 S:2 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,13140.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A4.26E7
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
330.9792 S:2 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
23:26 23:46 24:12 24:58 25:20 25:54 26:12 26:42 27:29
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
375.8364 S:2 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
22:57 23:24 23:56 24:15 24:58 25:20 26:20 26:38 26:55 27:15 27:44 28:08
100% 80 60 40 20 0
23:00 24:00 25:00 26:00 27:00 28:00 Time
2.7E4 2.2E4 1.6E4 1.1E4 5.4E3 0.0E0
3.3E4 2.6E4 2.0E4 1.3E4 6.5E3 0.0E0
7.8E6 6.3E6 4.7E6 3.1E6 1.6E6 0.0E0
1.0E7 8.2E6 6.1E6 4.1E6 2.0E6 0.0E0
8.2E7 6.6E7 4.9E7 3.3E7 1.6E7 0.0E0
2.5E4 2.0E4 1.5E4 9.8E3 4.9E3 0.0E0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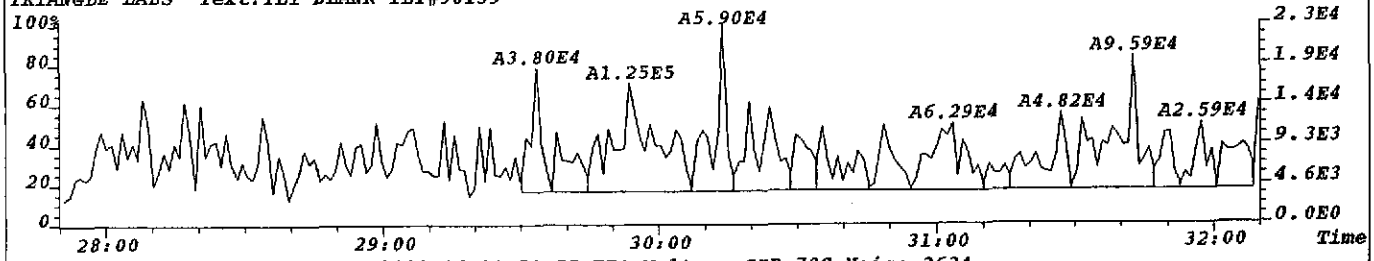
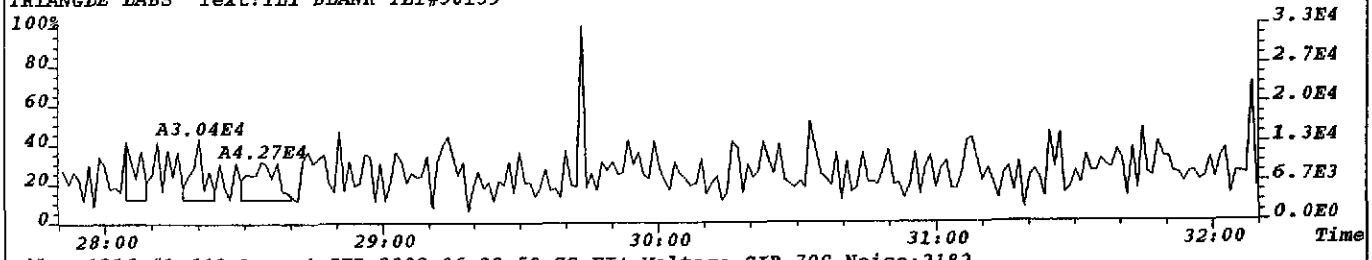
319.8965 S:2 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9720.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A1.41E5
A1.21E5
A1.18E5
A8.16E4
A6.87E4
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2501
321.8936 S:2 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10004.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A1.11E5
A3.42E4
A4.01E4
A5.24E4
A7.52E4
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:10698
331.9368 S:2 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,42792.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A3.42E7
A2.35E7
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:5332
333.9338 S:2 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,21328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A4.19E7
A2.99E7
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2312
327.8847 S:2 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A5.44E6
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
330.9792 S:2 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
24:12
24:58
25:20
25:54
26:12
26:42
27:29
25:00
26:00
27:00
28:00
Time

File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2500
339.8597 S:2 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10000.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2624
341.8567 S:2 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10496.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



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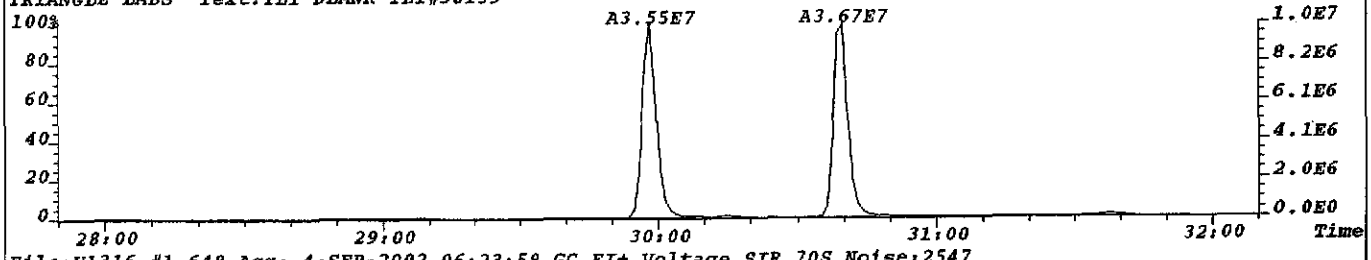
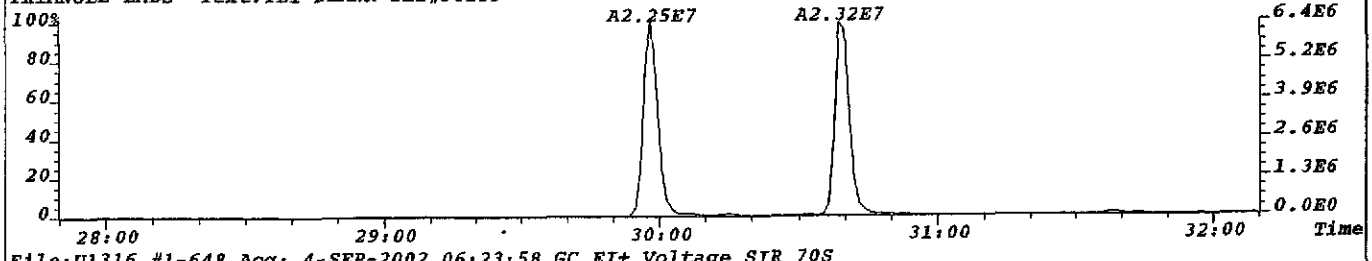
351.9000 S:2 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8728.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2547
353.8970 S:2 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



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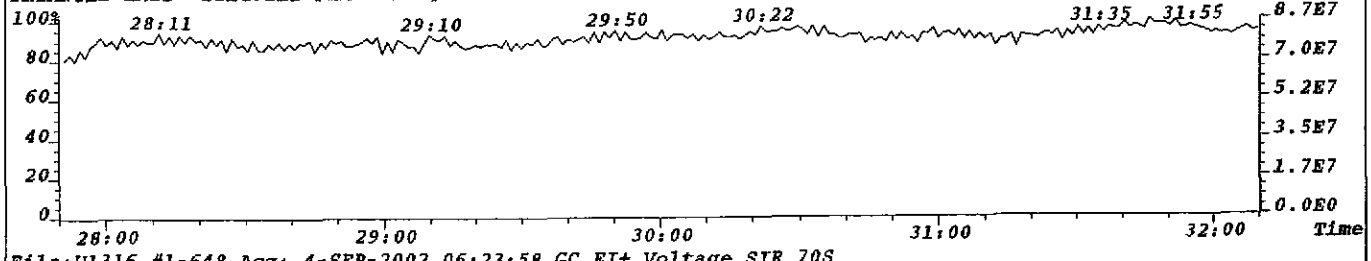
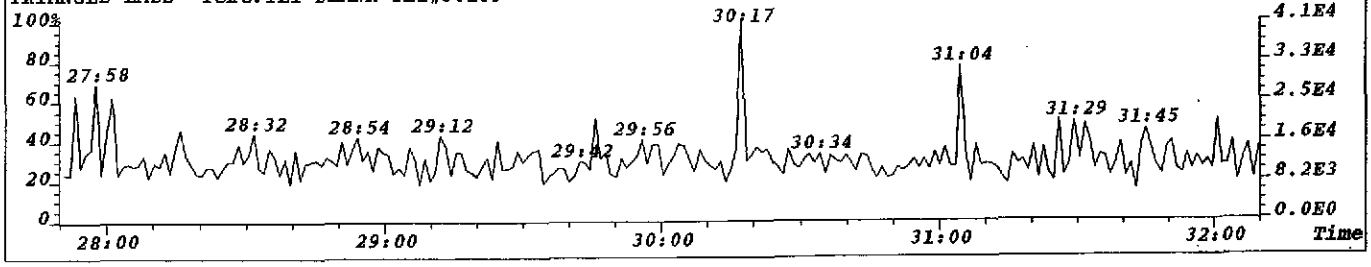
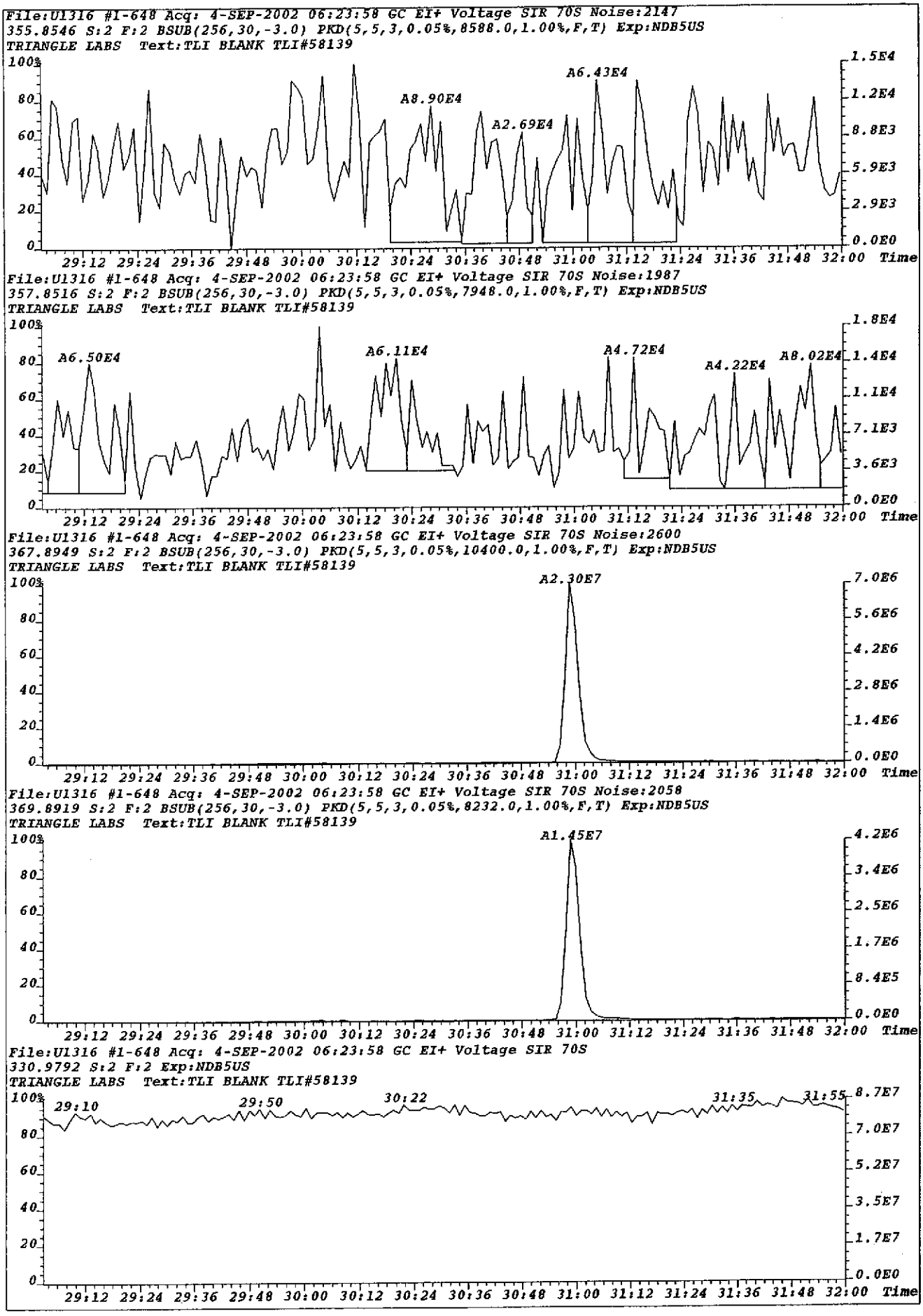
330.9792 S:2 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
409.7974 S:2 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139

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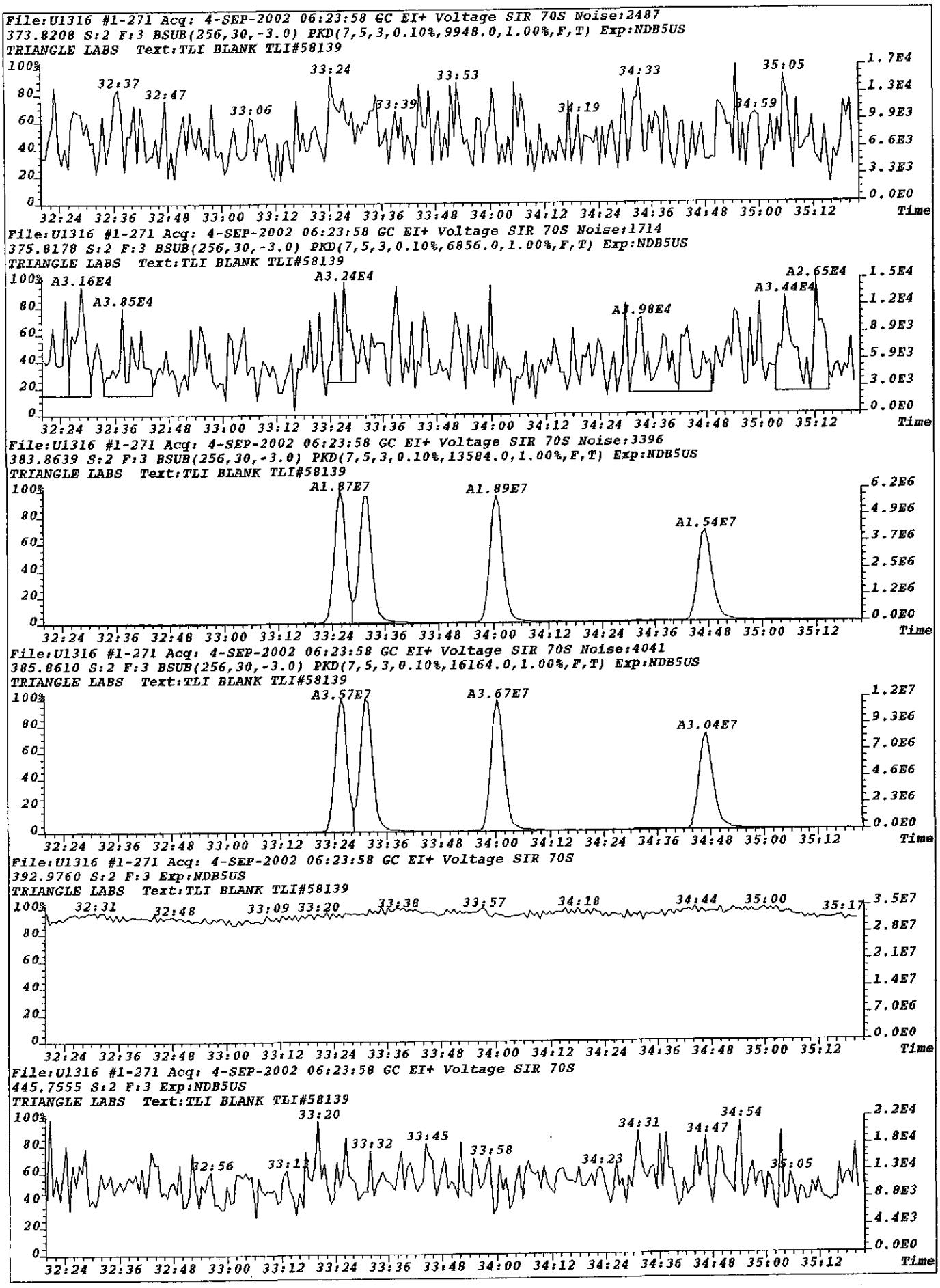
355.8546 S:2 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,8588.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A8.90E4
A2.69E4
A6.43E4
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:1987
357.8516 S:2 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,7948.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A6.50E4
A6.11E4
A4.72E4
A4.22E4
A8.02E4
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2600
367.8949 S:2 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,10400.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A2.30E7
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2058
369.8919 S:2 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,8232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A1.45E7
File:U1316 #1-648 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
330.9792 S:2 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
29:10
29:50
30:22
31:35
31:55
Time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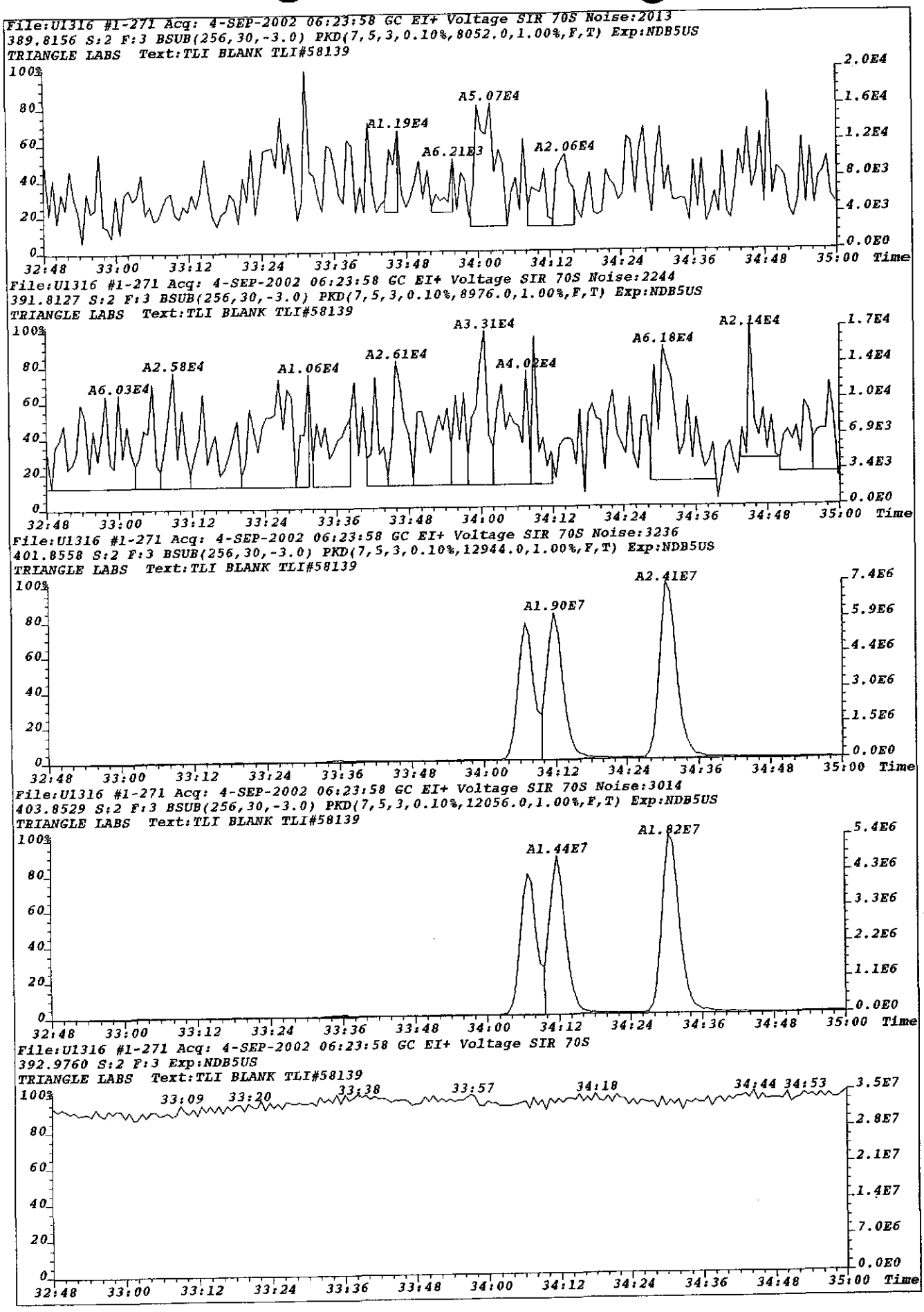
373.8208 S:2 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9948.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
32:37
32:47
33:06
33:24
33:39
33:53
34:19
34:33
34:59
35:05
File:U1316 #1-271 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:1714
375.8178 S:2 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,6856.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A3.16E4
A3.85E4
A3.24E4
A1.98E4
A3.44E4
A2.65E4
File:U1316 #1-271 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:3396
383.8639 S:2 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13584.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A1.87E7
A1.89E7
A1.54E7
File:U1316 #1-271 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:4041
385.8610 S:2 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,16164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A3.57E7
A3.67E7
A3.04E7
File:U1316 #1-271 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
392.9760 S:2 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
32:31
32:48
33:09
33:20
33:38
33:57
34:18
34:44
35:00
35:17
File:U1316 #1-271 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
445.7555 S:2 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
32:56
33:13
33:20
33:32
33:45
33:58
34:23
34:31
34:47
34:54
35:05
Time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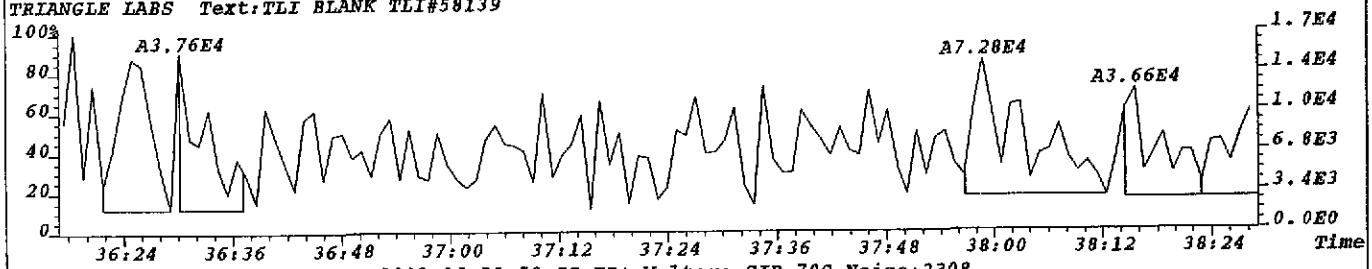
389.8156 S:2 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8052.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A1.19E4
A5.07E4
A6.21E3
A2.06E4
File:U1316 #1-271 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2244
391.8127 S:2 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8976.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A6.03E4
A2.58E4
A1.06E4
A2.61E4
A3.31E4
A4.02E4
A6.18E4
A2.14E4
File:U1316 #1-271 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:3236
401.8558 S:2 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12944.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A1.90E7
A2.41E7
File:U1316 #1-271 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:3014
403.8529 S:2 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12056.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A1.44E7
A1.82E7
File:U1316 #1-271 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
392.9760 S:2 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
33:09
33:20
33:38
33:57
34:18
34:44
34:53
Time

File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:1970
407.7818 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7880.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



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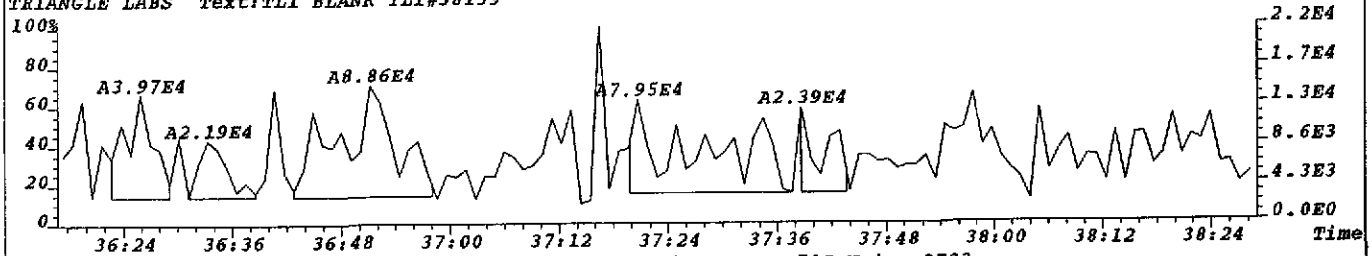
409.7789 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



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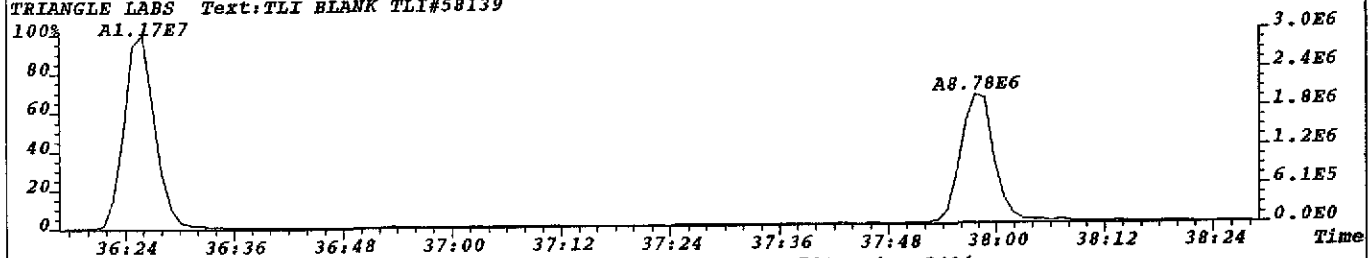
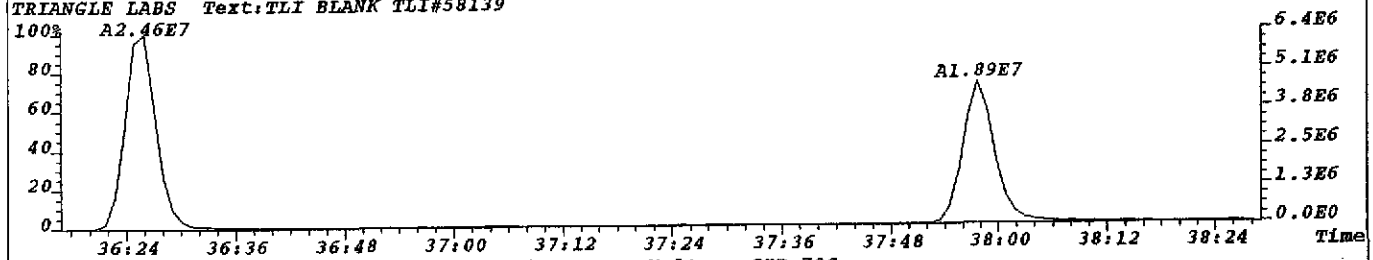
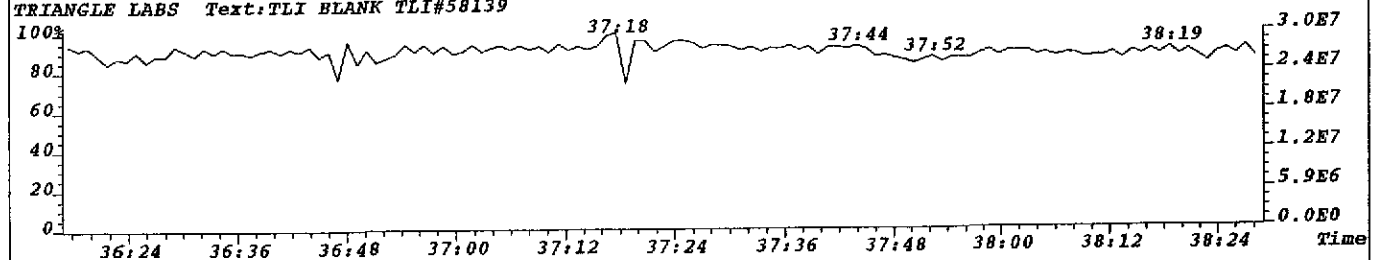
417.8253 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10892.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



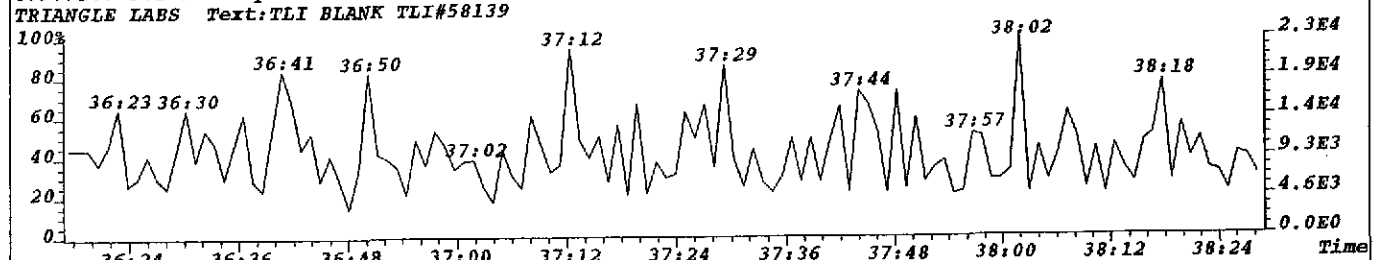
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2404
419.8220 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9616.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



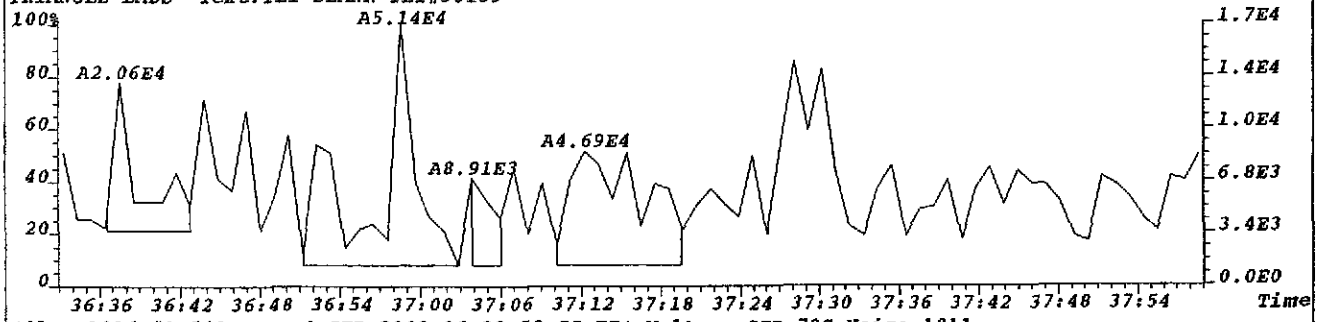
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
430.9729 S:2 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



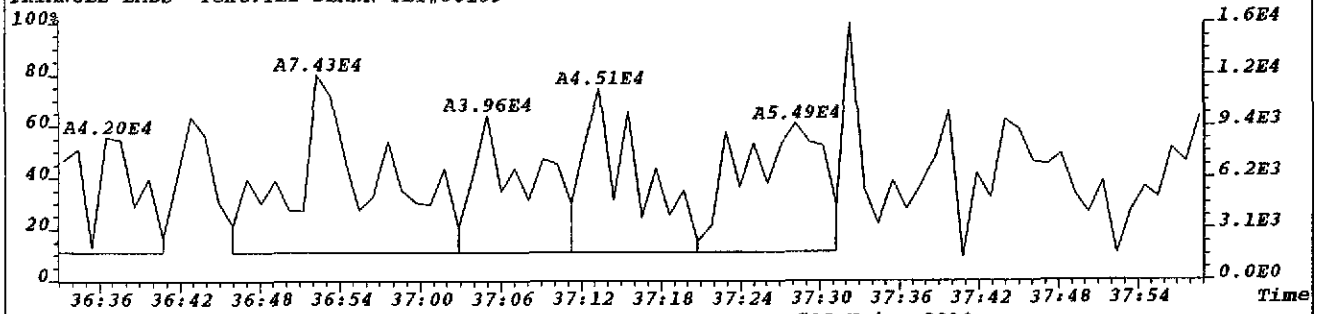
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
479.7165 S:2 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



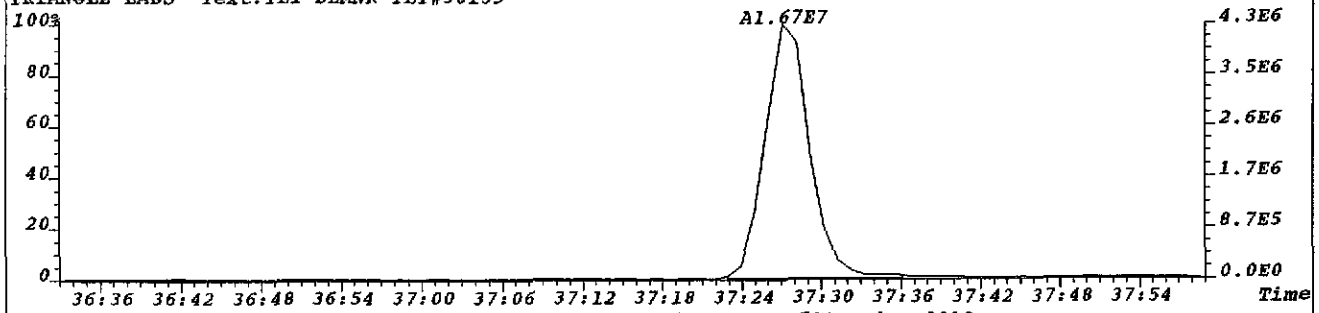
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:1891
423.7766 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7564.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



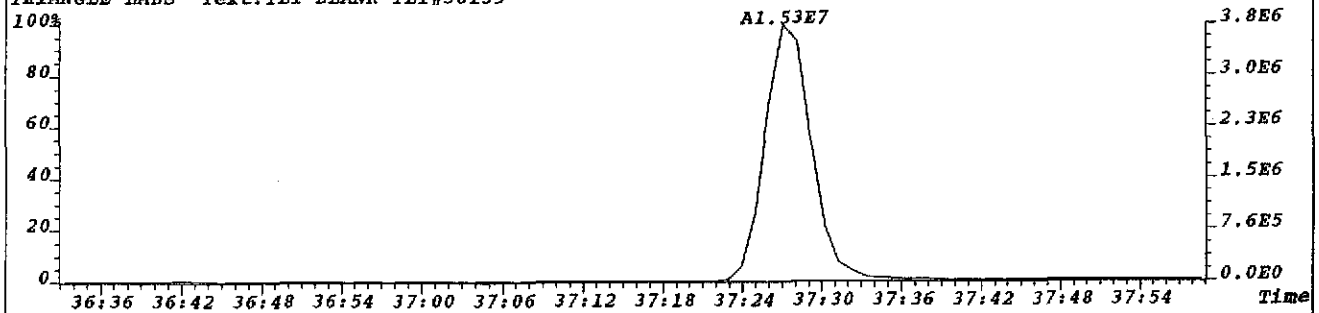
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:1811
425.7737 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7244.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



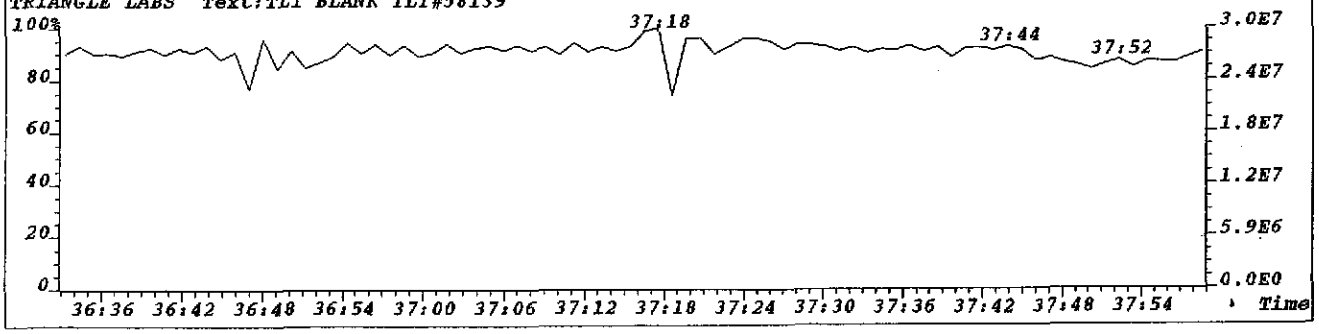
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2810
435.8169 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139

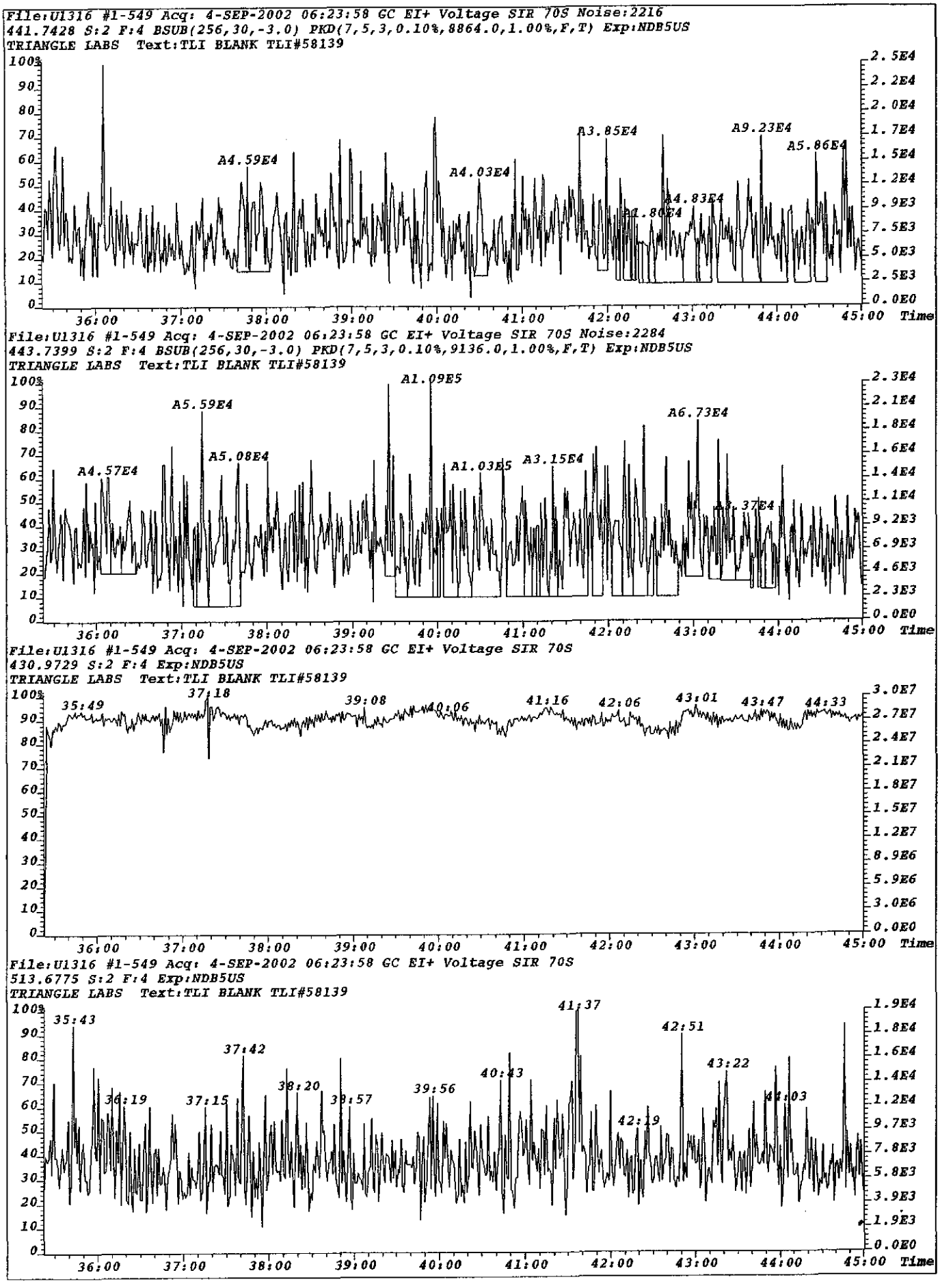


File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2312
437.8140 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139

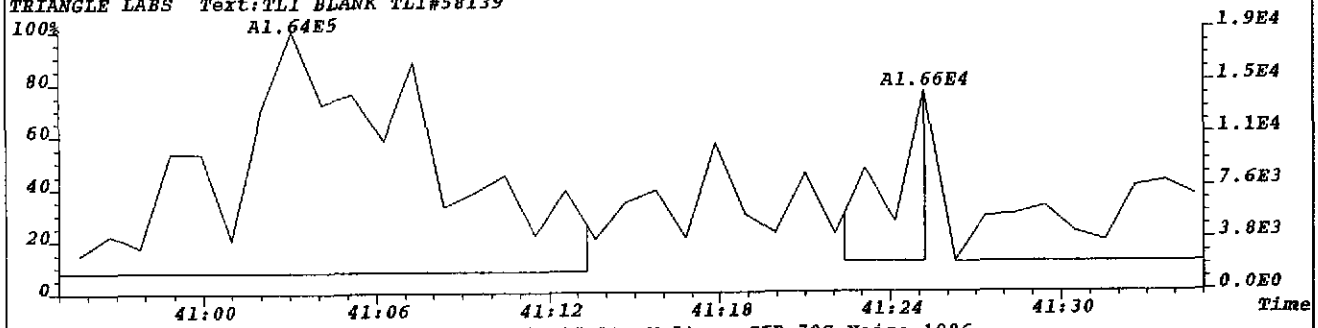


File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
430.9729 S:2 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139

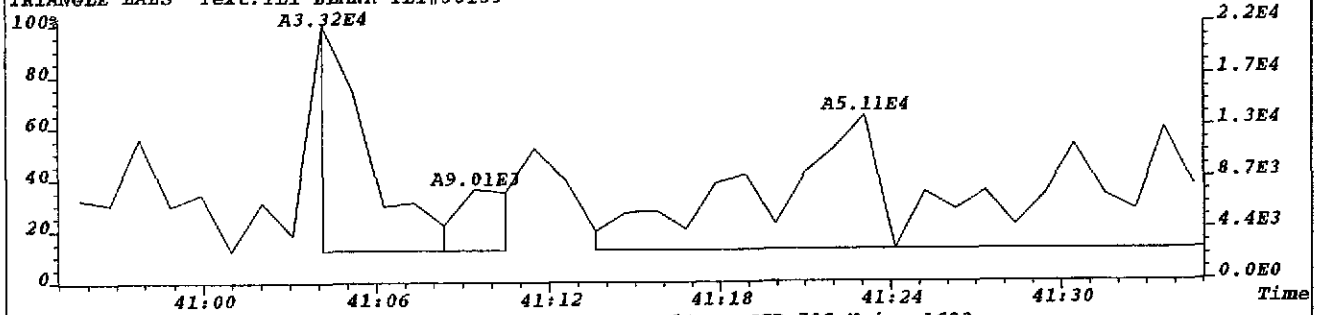



File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2216
441.7428 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8864.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A4.59E4
A4.03E4
A3.85E4
A4.83E4
A9.23E4
A5.86E4
Time
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2284
443.7399 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
A4.57E4
A5.59E4
A5.08E4
A1.09E5
A1.03E5
A3.15E4
A6.73E4
Time
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
430.9729 S:2 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
35:49
37:18
39:08
41:16
42:06
43:01
43:47
44:33
Time
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
513.6775 S:2 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139
35:43
36:19
37:15
37:42
38:20
39:57
39:56
40:43
41:37
42:19
42:51
43:22
44:03
Time

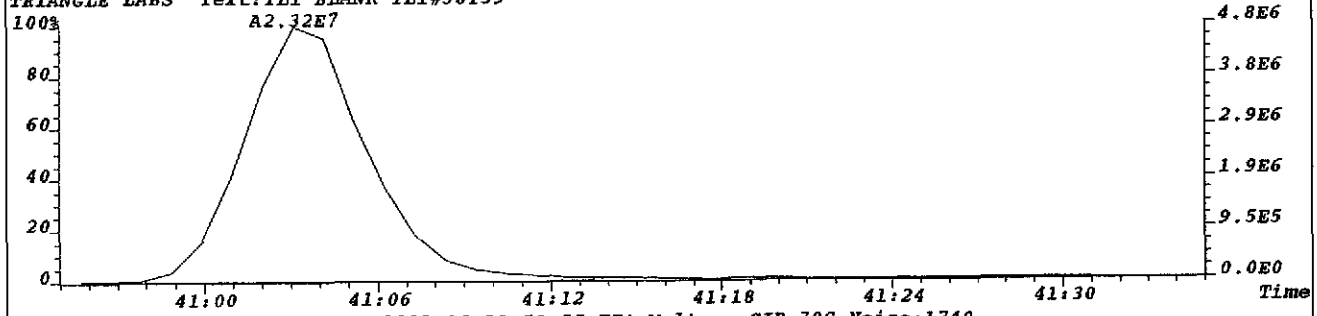
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:2009
457.7377 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8036.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



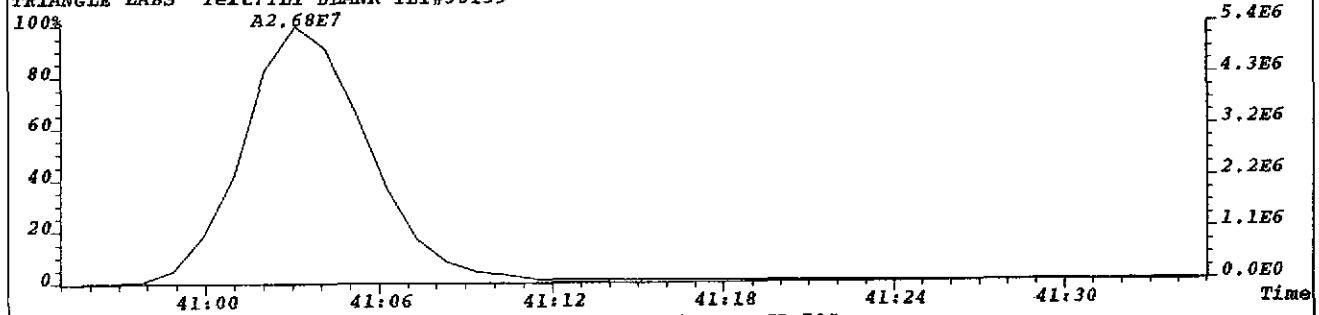
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:1986
459.7348 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7944.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139



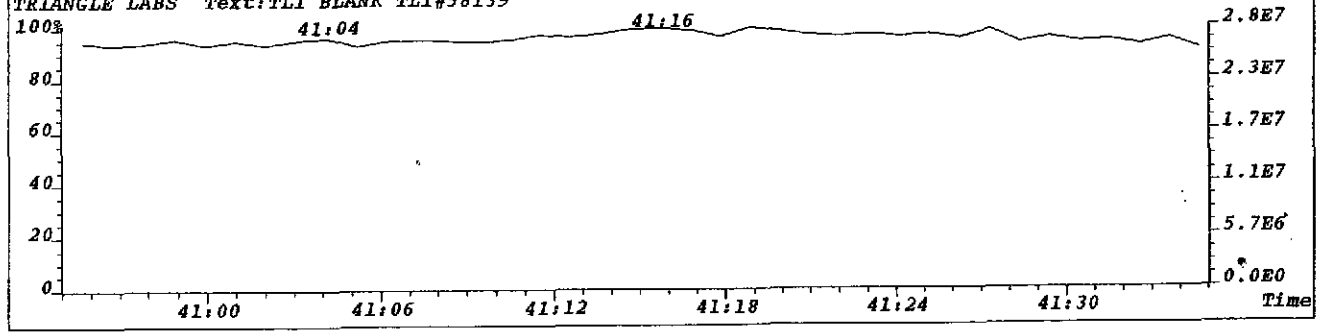
File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:1623
469.7779 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,6492.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139

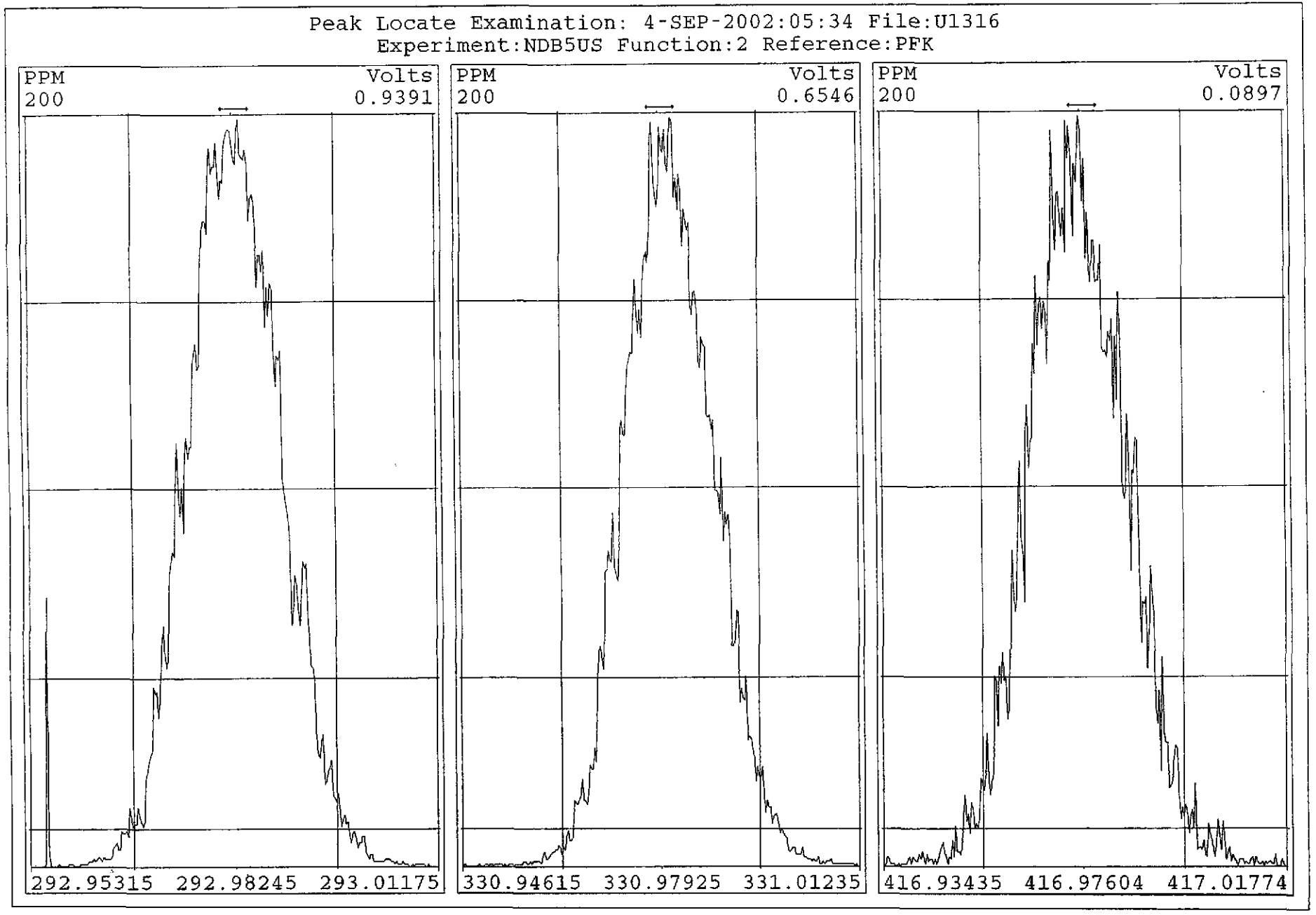


File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S Noise:1740
471.7750 S:2 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,6960.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139

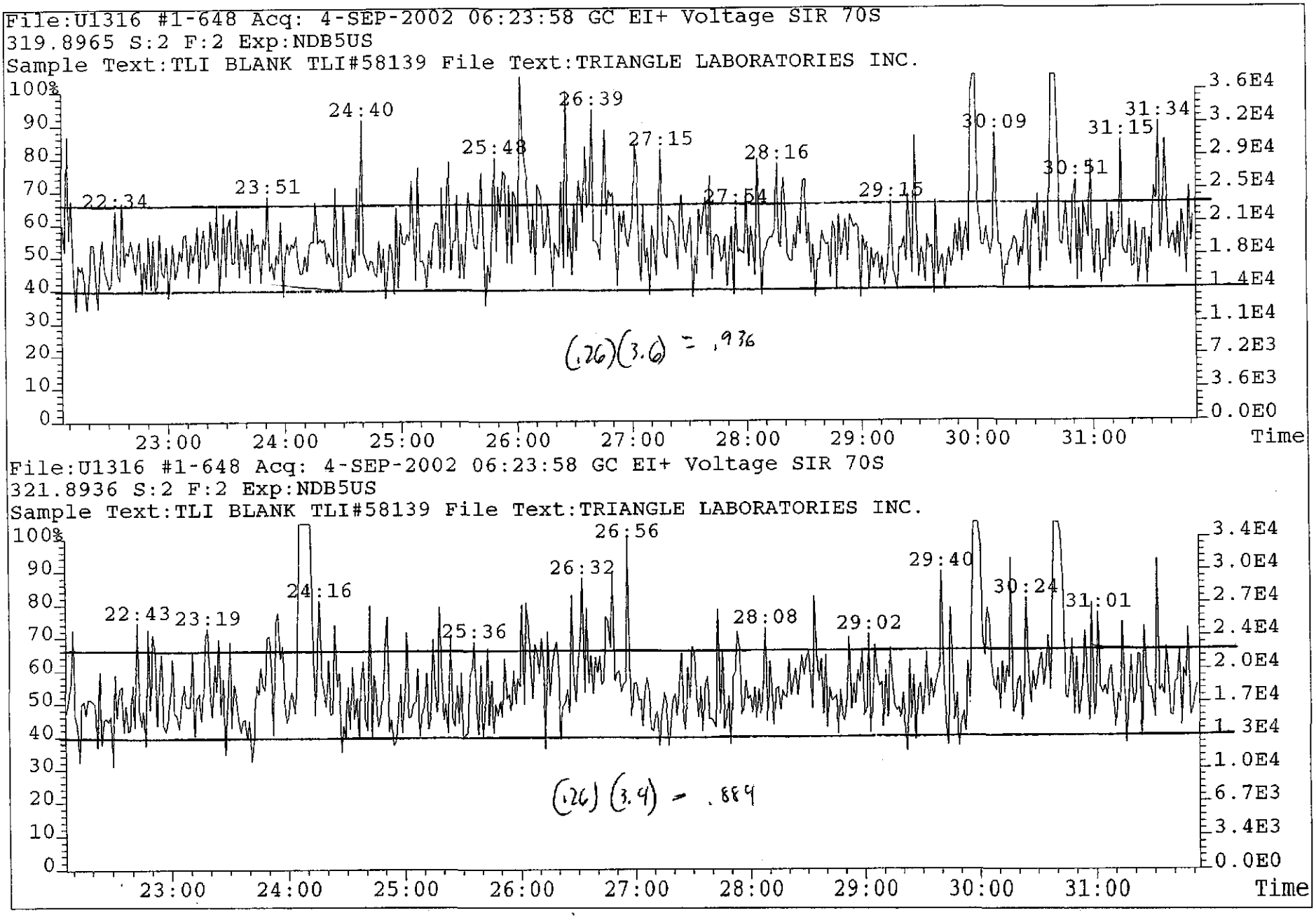


File:U1316 #1-549 Acq: 4-SEP-2002 06:23:58 GC EI+ Voltage SIR 70S
430.9729 S:2 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#58139




Peak Locate Examination: 4-SEP-2002:05:34 File:U1316
Experiment:NDB5US Function:2 Reference:PFK
PPM
200
Volts
0.9391
292.95315 292.98245 293.01175
PPM
200
Volts
0.6546
330.94615 330.97925 331.01235
PPM
200
Volts
0.0897
416.93435 416.97604 417.01774

N = .476 + .884 = 1.82 9/6/02



Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **DF-DP-179/12861** Analysis File: **U131903**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/2002**	Spike File:	**SPMIT32S**
TLI ID:	**334-48-1**	Date Extracted:	**08/28/2002**	ICal:	**UF57092**
		Date Analyzed:	**09/04/2002**	ConCal:	**U021317**
Sample Size:	**12.500 g**	Dilution Factor:	**n/a**	% Moisture:	**19.8**
Dry Weight:	**10.025 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JWL**	% Solids:	**80.2**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	0.5				
1,2,3,7,8-PeCDD	ND	0.6				
1,2,3,4,7,8-HxCDD	ND	0.7				
1,2,3,6,7,8-HxCDD	ND	0.6				
1,2,3,7,8,9-HxCDD	EMPC		0.71			J
1,2,3,4,6,7,8-HpCDD	9.7			0.99	37:30	
1,2,3,4,6,7,8,9-OCDD	191			0.90	41:06	
2,3,7,8-TCDF	ND	0.3				
1,2,3,7,8-PeCDF	ND	0.4				
2,3,4,7,8-PeCDF	ND	0.4				
1,2,3,4,7,8-HxCDF	6.3			1.13	33:26	
1,2,3,6,7,8-HxCDF	EMPC		0.73			J
2,3,4,6,7,8-HxCDF	EMPC		0.72			J
1,2,3,7,8,9-HxCDF	ND	0.6				
1,2,3,4,6,7,8-HpCDF	25.9			1.07	36:28	
1,2,3,4,7,8,9-HpCDF	ND	0.9				
1,2,3,4,6,7,8,9-OCDF	5.1			1.00	41:20	J

Totals	Conc. (pg/g)	Number	DL	EMPC	Flags
Total TCDD	ND		0.5		
Total PeCDD	ND		0.6		
Total HxCDD	3.7	2		4.4	
Total HpCDD	22.0	2			
Total TCDF	11.3	2		11.9	
Total PeCDF	28.7	7		29.8	
Total HxCDF	23.3	5		25.9	
Total HpCDF	38.4	2			

MIT3_PSR v1.00, LARS 6.25.05

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TLI Project: 58258 — Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **DF-DP-179/12861** — Analysis File: **U131903**

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	126	63.3	40%-135%	0.81	26:04	
$^{13}C_{12}$-2,3,7,8-TCDD	124	62.0	40%-135%	0.82	26:47	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	131	65.7	40%-135%	1.59	29:59	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	146	73.3	40%-135%	1.59	31:01	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	156	78.4	40%-135%	0.52	33:33	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	156	78.2	40%-135%	1.26	34:14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	133	66.6	40%-135%	0.46	36:28	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	135	67.6	40%-135%	1.03	37:29	
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	308	77.1	40%-135%	0.88	41:06	

Surrogate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	132	65.9	40%-135%	1.59	30:41	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	155	77.6	40%-135%	0.52	33:28	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	155	77.8	40%-135%	1.31	34:08	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	132	66.0	40%-135%	0.47	38:00	

Other Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	12.1	60.6	40%-135%	26:48	

Alternate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	153	76.9	40%-135%	0.51	34:49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	163	81.7	40%-135%	0.51	34:03	

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	26:36	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.23	34:32	

Data Reviewer: PAB 09/06/2002

MIT3_PSR v1.00, LARS 6.25.05

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Printed: 01:55 09/06/2002

Mississippi Dept. of Env. Quality

TLI Project: **58258** — Toxicity Equivalents Report
Client Sample: **DF-DP-179/12861** — Analysis File: **U131903**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/02**	Spike File:	**SPMIT32S**
TLI ID:	**334-48-1**	Date Extracted:	**08/28/02**	ICal:	**UF57092**
		Date Analyzed:	**09/04/02**	ConCal:	**U021317**
Sample Size:	**12.500 g**	Dilution Factor:	**1**	% Moisture:	**19.8**
Dry Weight:	**10.025 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JWL**	% Solids:	**80.2**

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.5}	x	1.	=	0.5
1,2,3,7,8-PeCDD	{0.6}	x	0.5	=	0.3
1,2,3,4,7,8-HxCDD	{0.7}	x	0.1	=	0.07
1,2,3,6,7,8-HxCDD	{0.6}	x	0.1	=	0.06
1,2,3,7,8,9-HxCDD	[0.71]	x	0.1	=	0.071
1,2,3,4,6,7,8-HpCDD	9.7	x	0.01	=	0.097
1,2,3,4,6,7,8,9-OCDD	191	x	0.001	=	0.191
TOTAL PCDD					1.3
2,3,7,8-TCDF	{0.3}	x	0.1	=	0.03
1,2,3,7,8-PeCDF	{0.4}	x	0.05	=	0.02
2,3,4,7,8-PeCDF	{0.4}	x	0.5	=	0.2
1,2,3,4,7,8-HxCDF	6.3	x	0.1	=	0.63
1,2,3,6,7,8-HxCDF	[0.73]	x	0.1	=	0.073
2,3,4,6,7,8-HxCDF	[0.72]	x	0.1	=	0.072
1,2,3,7,8,9-HxCDF	{0.6}	x	0.1	=	0.06
1,2,3,4,6,7,8-HpCDF	25.9	x	0.01	=	0.259
1,2,3,4,7,8,9-HpCDF	{0.9}	x	0.01	=	0.009
1,2,3,4,6,7,8,9-OCDF	5.1	x	0.001	=	0.0051
TOTAL PCDF					1.4

Total EPA TEFs, 1989a: 2.6 pg/g

[...] indicates that the value is that of an EMPC.
{...} indicates that the value is that of a Detection Limit.

GRY_TEF v1.08, MILES 4.22.16

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Initial ...Date...

Data Review By: PAB 9/6/02

Calculated Noise Height: 1.76

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of U131903B.dbf
09/06/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF				0.65-0.89						0.874-1.072			
304-306	DC	NL		Height			7.18	4.02	3.16				
				23:40	RO	1.22	32.48	22.46	18.35	0.908			J
				26:57		0.66	51.11	20.29	30.82	1.034			J
				27:17		0.73	526.66	223.09	303.57	1.047			
	DC	WH		28:04	RO	0.61	21.81			1.077			
304-306			3	Peaks			610.25						
13C12-TCDF				0.65-0.89						0.962-1.038			
316-318	DC	NL		Height			5.47	2.81	2.66				
				25:04		0.79	83.04	36.66	46.38	0.962			
				25:20	RO	0.45	45.95	19.99	44.31	0.972			
				25:40		0.66	101.82	40.63	61.19	0.985			
				26:04		0.81	9,069.60	4,048.08	5,021.52	1.000	13C12-2378-TCDF	ISO	
				Height			2,241.04	991.31	1,249.73				
	DC	WH		27:14		0.77	34.72			1.045			
	DC	WH		27:49	RO	1.89	8.27			1.067			
	DC	WH		28:00	RO	0.20	7.13			1.074			
316-318			4	Peaks			9,300.41						

---------- Above: TCDF / TCDD Follows ----------

TCDD				0.65-0.89						0.900-1.043			
320-322	DC	NL		Height			4.15	2.07	2.08				
	DC	SN		24:16	RO	0.37	17.98			0.906	1368-TCDD	AN	
	DC	SN		27:03	RO	0.43	6.07			1.010			
	DC	SN		27:50	RO	0.45	2.92			1.039			
320-322			0	Peaks			0.00						
37Cl-TCDD										0.925-1.075			
328	DC	NL		Height			2.23	2.23					
				25:25			250.30	250.30		0.949			
				26:48			650.30	650.30		1.001	37Cl-TCDD	CLS	
				27:09			276.69	276.69		1.014			
				27:37			3.76	3.76		1.031			
	DC	SN		27:48			0.96			1.038			
	DC	SN		27:57			2.37			1.044			
				28:07			23.15	23.15		1.050			
328			5	Peaks			1,204.20						
13C12-TCDD				0.65-0.89						0.925-1.075			
332-334	DC	NL		Height			10.29	6.79	3.50				
				26:36			8,940.23	4,029.44	4,910.79	0.993	13C12-1234-TCDD	RS1	
				26:47			6,257.32	2,822.15	3,435.17	1.000	13C12-2378-TCDD	IS1	
				Height			1,607.53	737.75	869.78				

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
332-334			2 Peaks				15,197.55						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78				0.928-1.061			
340-342	DC	NL				Height	4.42	2.01	2.41				
				28:02		1.40	105.74	61.67	44.07	0.935			J
				28:19	RO	1.82	44.42	31.64	17.42	0.944			J
				29:10		1.62	71.95	44.46	27.49	0.973			J
				29:19		1.56	237.85	144.94	92.91	0.978			
				29:31		1.54	220.58	133.69	86.89	0.984			
				29:54		1.50	387.14	232.11	155.03	0.997			
				31:02		1.52	24.18	14.60	9.58	1.035			J
M				31:32		1.71	127.60	80.60	47.00	1.052			J
340-342			8 Peaks				1,219.46						
13C12-PeCDF						1.32-1.78				0.867-1.133			
352-354	DC	NL				Height	3.18	1.53	1.65				
				29:09		1.47	151.73	90.39	61.34	0.972			
				29:36	RO	2.04	56.28	44.94	22.07	0.987			
				29:59		1.59	6,555.17	4,027.21	2,527.96	1.000	13C12-PeCDF 123	IS2	
						Height	1,810.45	1,082.06	728.39				
				30:16		1.67	124.01	77.56	46.45	1.009			
				30:41		1.59	6,596.20	4,045.13	2,551.07	1.023	13C12-PeCDF 234	SUR1	
				31:40		1.65	96.14	59.89	36.25	1.056			
352-354			6 Peaks				13,579.53						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD						1.32-1.78				0.938-1.021			
356-358	DC	NL				Height	3.52	1.77	1.75				
D	D	SN		29:14	RO	0.15	17.03			0.943			
	DC	SN		29:27	RO	0.27	15.84			0.949			
	DC	SN		29:43	RO	0.91	7.06			0.958			
	DC	SN		29:59	RO	1.04	24.17			0.967			
	DC	SN		30:07		1.74	13.45			0.971			
	DC	SN		30:18	RO	0.81	8.49			0.977			
	DC	SN		31:02	RO	0.76	7.49			1.001	12378-PeCDD	AN	
	DC	WH		31:54	RO	0.38	20.86			1.028			
356-358			0 Peaks				0.00						
13C12-PeCDD						1.32-1.78				0.871-1.129			
368-370	DC	NL				Height	3.22	1.82	1.40				
				30:06	RO	1.04	41.46	16.97	16.26	0.970			
	DC	SN		30:16	RO	1.18	14.64			0.976			
	DC	SN		30:26	RO	1.02	8.29			0.981			
				31:01		1.59	4,355.11	2,670.38	1,684.73	1.000	13C12-PeCDD 123	IS3	
						Height	1,324.49	815.77	508.72				
	DC	SN		31:34		1.46	12.90			1.018			
	DC	SN		31:40	RO	0.21	3.50			1.021			
	DC	SN		31:57	RO	6.37	3.90			1.030			
368-370			2 Peaks				4,396.57						

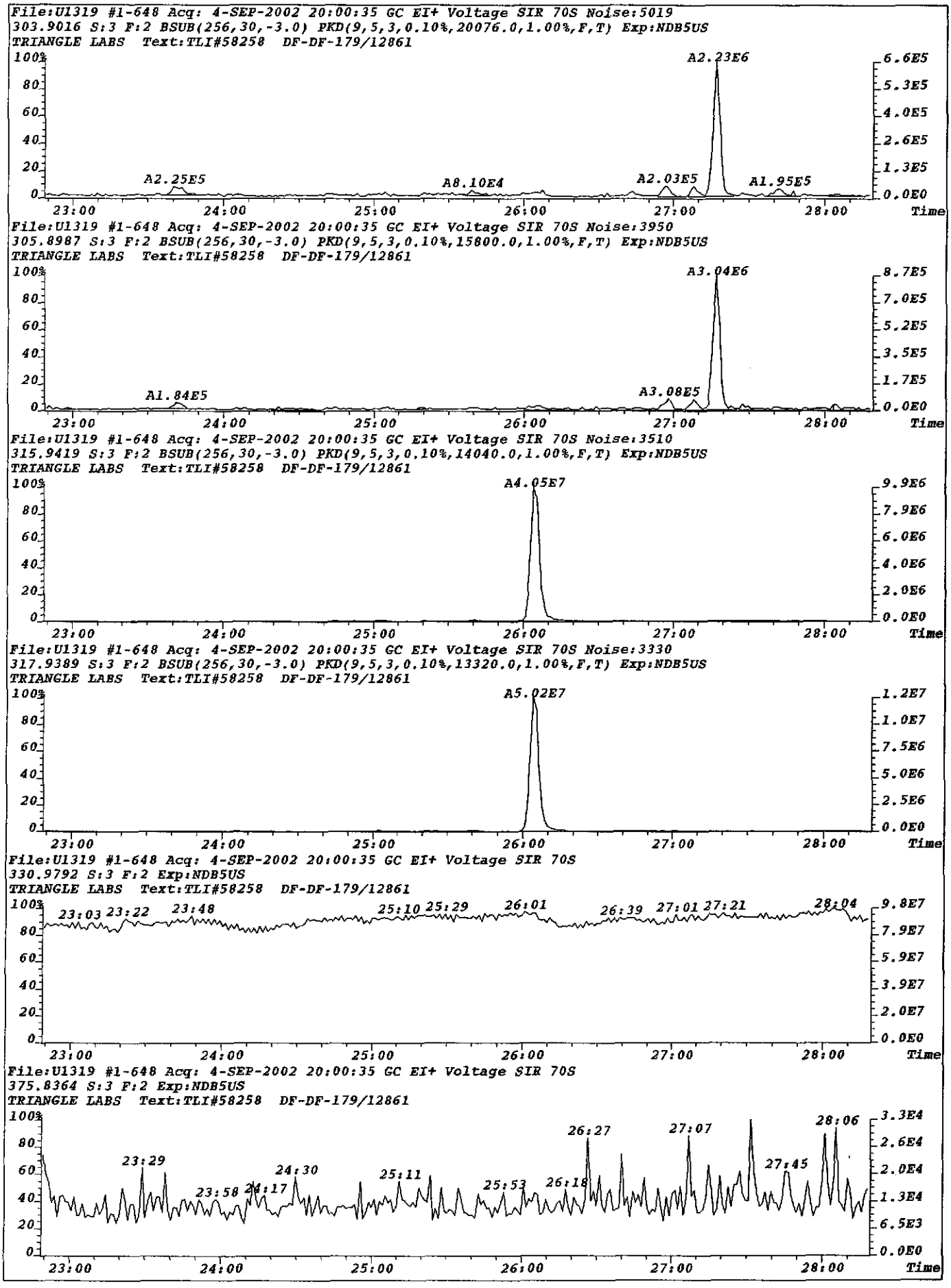
Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.964-1.045			
374-376		DC	NL			Height	3.29	1.41	1.88				
				32:30		1.25	98.03	54.39	43.64	0.969			J
				32:38		1.10	189.77	99.31	90.46	0.973			
				32:47		1.37	34.27	19.78	14.49	0.977			J
	K			32:56	RO	0.95	18.44	10.21	10.79	0.982			J
				33:06		1.22	214.46	117.96	96.50	0.987			
				33:18	RO	0.93	16.47	9.12	9.79	0.993			J
				33:26		1.13	212.23	112.79	99.44	0.997	123478-HxCDF	AN	
				33:34	RO	1.67	25.76	19.19	11.50	1.000	123678-HxCDF	AN	J
				34:03	RO	0.93	22.27	12.33	13.22	1.015	234678-HxCDF	AN	J
		DC	SN	34:12	RO	0.53	5.60			1.019			
		DC	SN	34:37	RO	0.19	3.90			1.032			
		DC	SN	34:48	RO	0.03	0.58			1.037	123789-HxCDF	AN	
		DC	SN	35:03	RO	3.36	2.51			1.045			
374-376			9	Peaks			831.70						
13C12-HxCDF						0.43-0.59				0.881-1.119			
384-386		DC	NL			Height	5.62	2.73	2.89				
				32:30	RO	0.74	29.79	10.06	13.65	0.969			
				32:37	RO	0.76	53.29	18.00	23.83	0.972			
				33:28		0.52	5,862.01	2,005.13	3,856.88	0.998	13C12-HxCDF 478	SUR2	
				33:33		0.52	5,905.16	2,024.64	3,880.52	1.000	13C12-HxCDF 678	IS4	
						Height	1,850.64	634.75	1,215.89				
				34:03		0.51	5,663.15	1,915.39	3,747.76	1.015	13C12-HxCDF 234	ALT2	
		DC	SN	34:34	RO	2.13	3.23			1.030			
				34:49		0.51	4,235.97	1,434.17	2,801.80	1.038	13C12-HxCDF 789	ALT1	
384-386			6	Peaks			21,749.37						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43				0.959-1.013			
390-392		DC	NL			Height	3.66	1.73	1.93				
				32:59		1.38	31.01	17.96	13.05	0.963			J
	M			33:39		1.10	52.50	27.50	25.00	0.983			J
		DC	SN	34:04	RO	2.97	4.86			0.995			
		DC	SN	34:14	RO	2.77	9.54			1.000	123678-HxCDD	AN	
	N			34:32	RO	0.81	15.72	8.70	10.73	1.009	123789-HxCDD	AN	J
		DC	WH	34:46	RO	0.37	44.31			1.016			
		DC	WH	34:53	RO	0.46	4.10			1.019			
		DC	WH	35:02	RO	2.07	7.93			1.023			
390-392			3	Peaks			99.23						
13C12-HxCDD						1.05-1.43				0.971-1.029			
402-404		DC	NL			Height	4.48	2.39	2.09				
				33:37	RO	1.47	39.98	26.16	17.85	0.982			
				34:08		1.31	3,725.16	2,110.14	1,615.02	0.997	13C12-HxCDD 478	SUR3	
				34:14		1.26	4,144.28	2,312.07	1,832.21	1.000	13C12-HxCDD 678	IS5	
						Height	1,244.72	697.13	547.59				
				34:32		1.23	5,100.39	2,817.62	2,282.77	1.009	13C12-HxCDD 789	RS2	

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				34:50		1.33	21.60	12.32	9.28	1.018			
402-404				5 Peaks			13,031.41						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.88-1.20				0.995-1.047			
408-410	DC	NL				Height	3.18	1.64	1.54				
				36:28		1.07	668.24	345.60	322.64	1.000	1234678-HpCDF	AN	
				36:53		0.96	275.17	134.70	140.47	1.011			
408-410				2 Peaks			943.41						
13C12-HpCDF						0.37-0.51				0.945-1.110			
418-420	DC	NL				Height	3.42	1.67	1.75				
				36:28		0.46	3,564.77	1,131.43	2,433.34	1.000	13C12-HpCDF 678	IS6	
						Height	923.90	297.29	626.61				
	DC	SN		36:47	RO	0.66	13.84			1.009			
	DC	SN		37:00	RO	0.79	19.21			1.015			
				38:00		0.47	2,483.86	789.00	1,694.86	1.042	13C12-HpCDF 789	SUR4	
418-420				2 Peaks			6,048.63						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.976-1.005			
424-426	DC	NL				Height	2.76	1.36	1.40				
				36:45		0.93	173.98	83.88	90.10	0.980			
				37:30		0.99	137.05	68.18	68.87	1.000	1234678-HpCDD	AN	
424-426				2 Peaks			311.03						
13C12-HpCDD						0.88-1.20				0.973-1.027			
436-438	DC	NL				Height	3.75	2.26	1.49				
				36:45	RO	0.81	24.21	12.34	15.24	0.980			
				37:29		1.03	2,788.21	1,412.68	1,375.53	1.000	13C12-HpCDD 678	IS7	
						Height	702.12	351.98	350.14				
436-438				2 Peaks			2,812.42						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.903-1.097			
442-444	DC	NL				Height	3.10	1.52	1.58				
	DC	WL		35:49	RO	1.98	8.62			0.871			
	DC	WL		36:03	RO	0.62	2.85			0.877			
	DC	WL		36:08		0.90	7.81			0.879			
	DC	SN		39:26	RO	1.35	7.09			0.959			
				41:20		1.00	81.94	40.90	41.04	1.006	OCDF	AN	J
	DC	SN		43:52	RO	0.64	7.24			1.067			
	DC	SN		44:06	RO	2.74	7.37			1.073			
442-444				1 Peak			81.94						
OCDD						0.76-1.02				0.903-1.097			
458-460	DC	NL				Height	2.56	1.12	1.44				
				41:06		0.90	2,284.56	1,080.38	1,204.18	1.000	OCDD	AN	
	DC	SN		41:28	RO	0.34	3.23			1.009			

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
458-460			1 Peak				2,284.56						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	2.87	1.43	1.44				
				41:06		0.88	4,304.02	2,015.01	2,289.01	1.000	13C12-OCDD	IS8	
						Height	891.16	414.42	476.74				
	DC	WH		41:28		0.78	24.04			1.009			
470-472			1 Peak				4,304.02						

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

*** End of Report ***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303.9016 S:3 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,20076.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A2.23E6
A2.25E5
A8.10E4
A2.03E5
A1.95E5
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305.8987 S:3 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,15800.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A3.04E6
A1.84E5
A3.08E5
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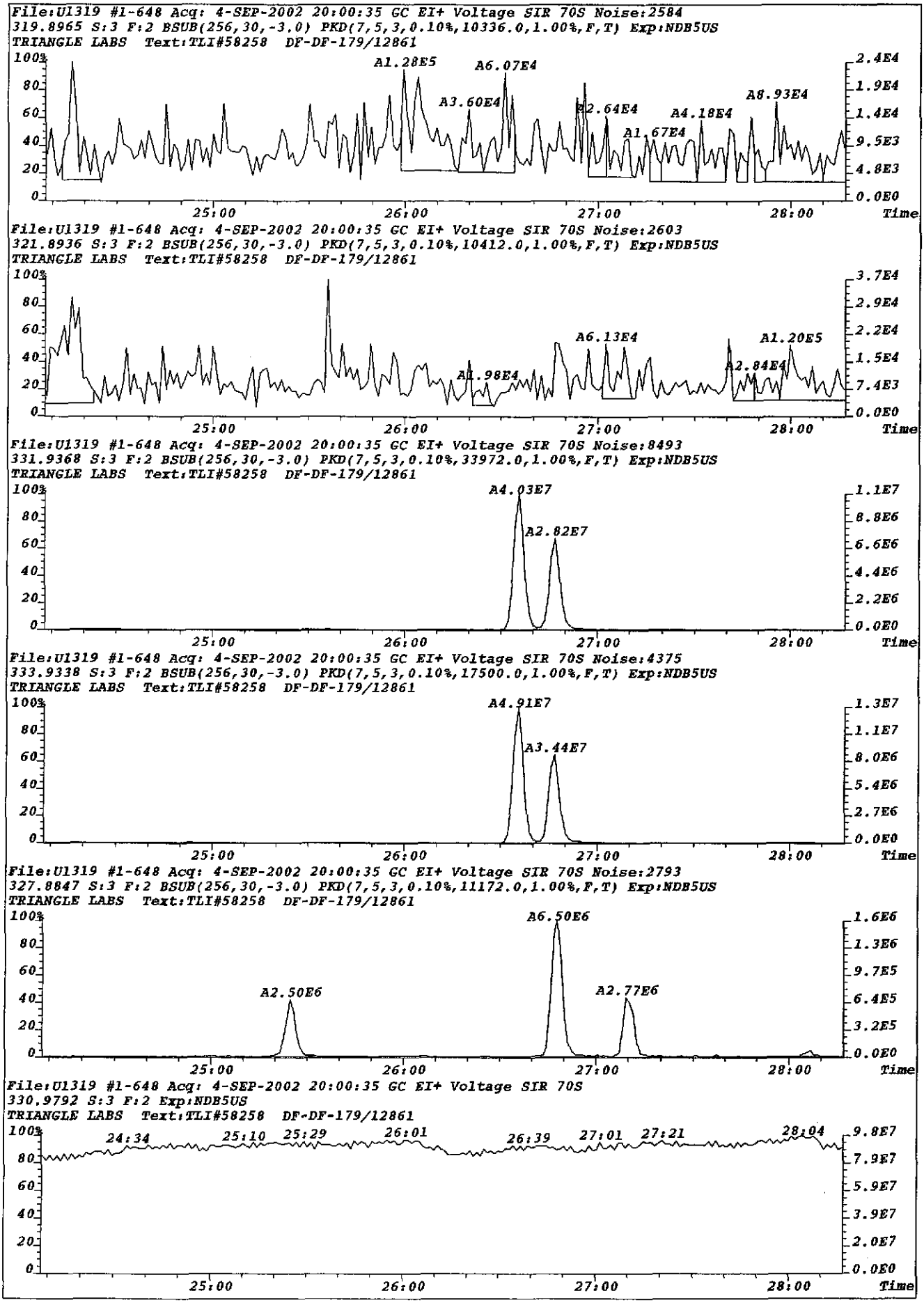
315.9419 S:3 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,14040.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A4.05E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:3330
317.9389 S:3 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,13320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A5.02E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
330.9792 S:3 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
23:03 23:22 23:48 25:10 25:29 26:01 26:39 27:01 27:21 28:04
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
375.8364 S:3 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
23:29 23:58 24:17 24:30 25:11 25:53 26:18 26:27 27:07 27:45 28:06
Time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319.8965 S:3 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10336.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A1.28E5
A6.07E4
A3.60E4
A2.64E4
A4.18E4
A8.93E4
A1.67E4
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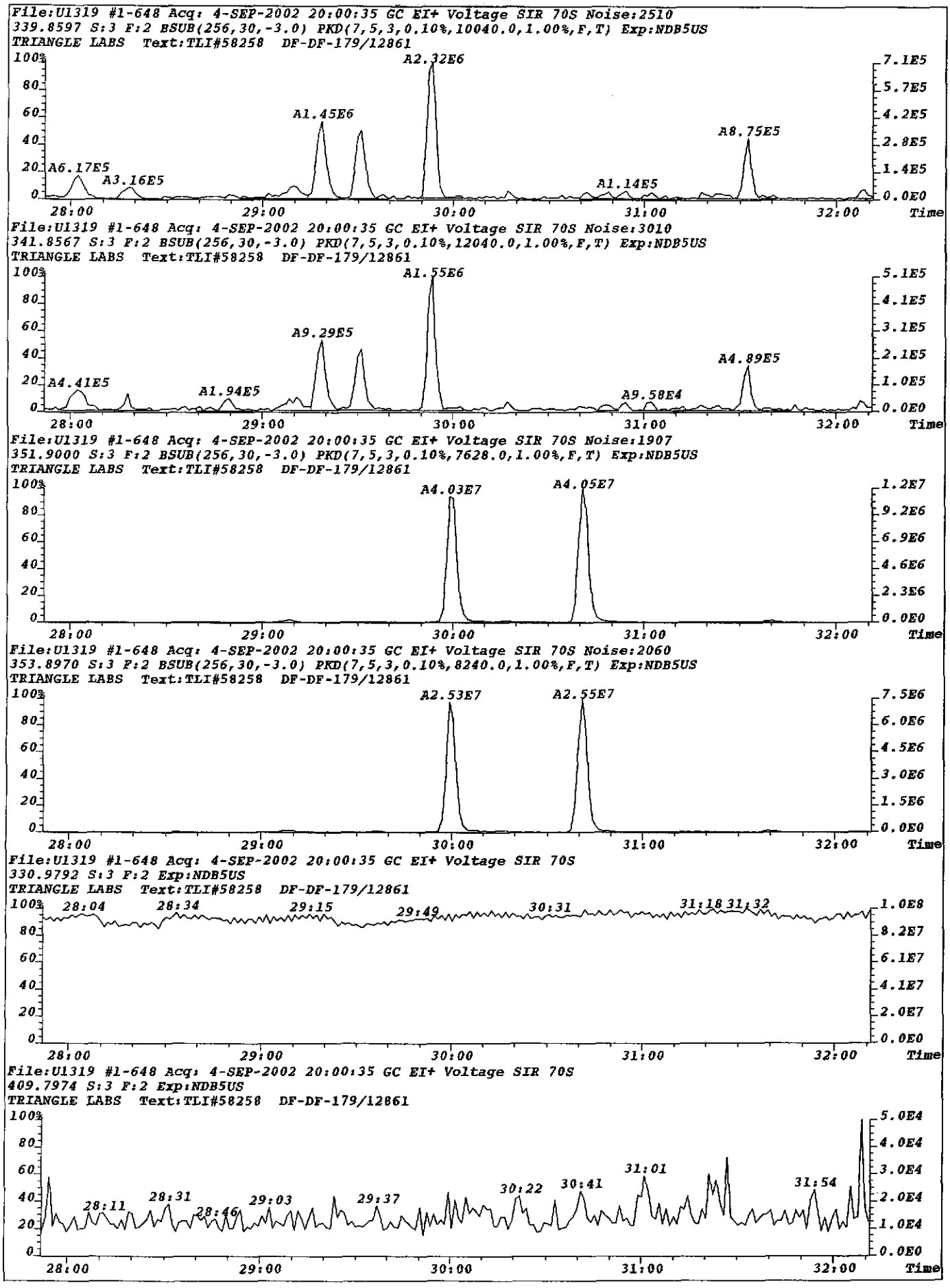
321.8936 S:3 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A6.13E4
A1.20E5
A1.98E4
A2.84E4
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:8493
331.9368 S:3 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,33972.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A4.03E7
A2.82E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:4375
333.9338 S:3 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,17500.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A4.91E7
A3.44E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2793
327.8847 S:3 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A6.50E6
A2.50E6
A2.77E6
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
330.9792 S:3 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
24:34
25:10
25:29
26:01
26:39
27:01
27:21
28:04
25:00
26:00
27:00
28:00
Time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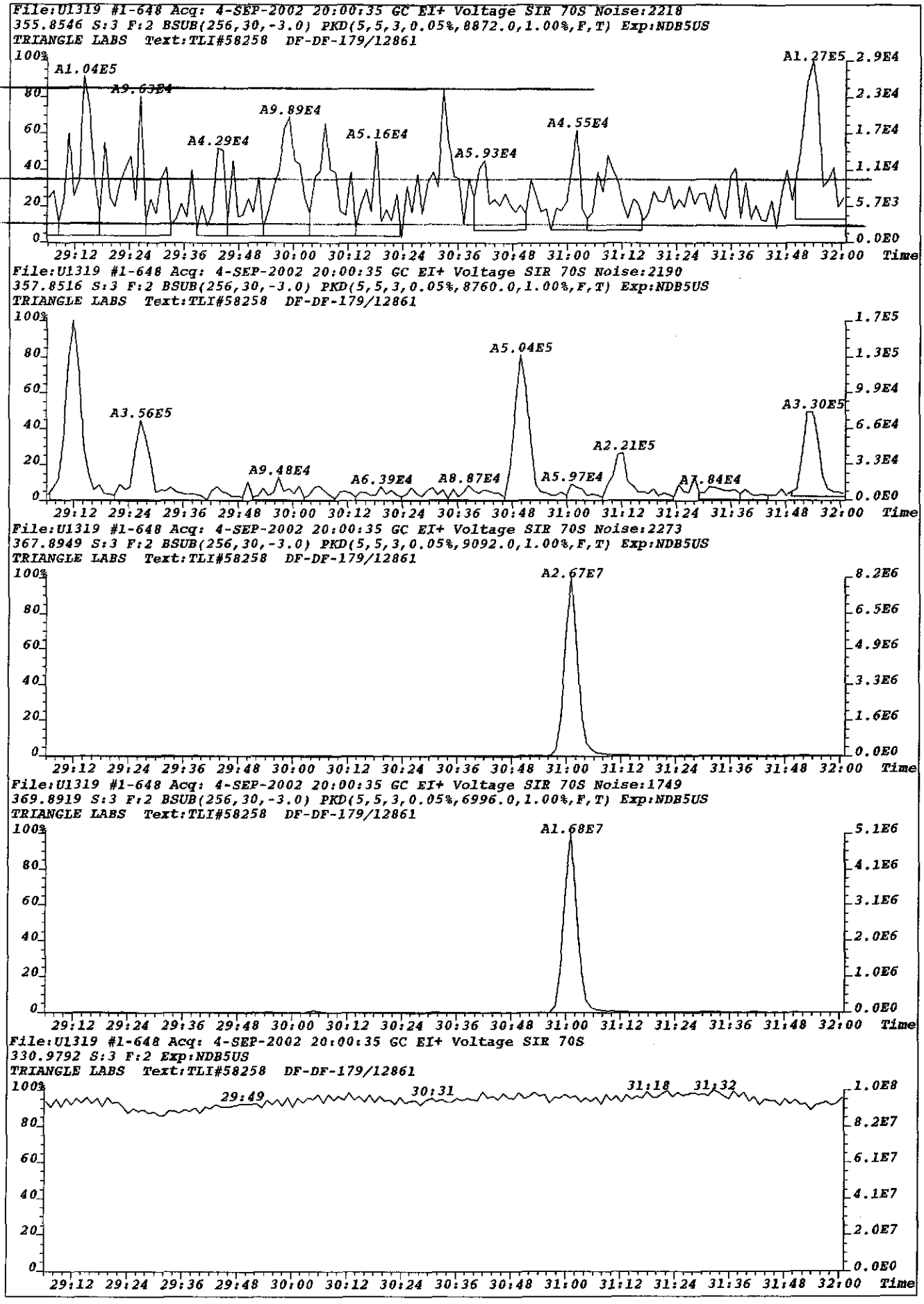
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A2.32E6
A1.45E6
A8.75E5
A6.17E5
A3.16E5
A1.14E5
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:3010
341.8567 S:3 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12040.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A1.55E6
A9.29E5
A4.89E5
A4.41E5
A1.94E5
A9.58E4
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1907
351.9000 S:3 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7628.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A4.03E7
A4.05E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2060
353.8970 S:3 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A2.53E7
A2.55E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
330.9792 S:3 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
28:04
28:34
29:15
29:49
30:31
31:18
31:32
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
409.7974 S:3 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
28:11
28:31
28:46
29:03
29:37
30:22
30:41
31:01
31:54
28:00
29:00
30:00
31:00
32:00
Time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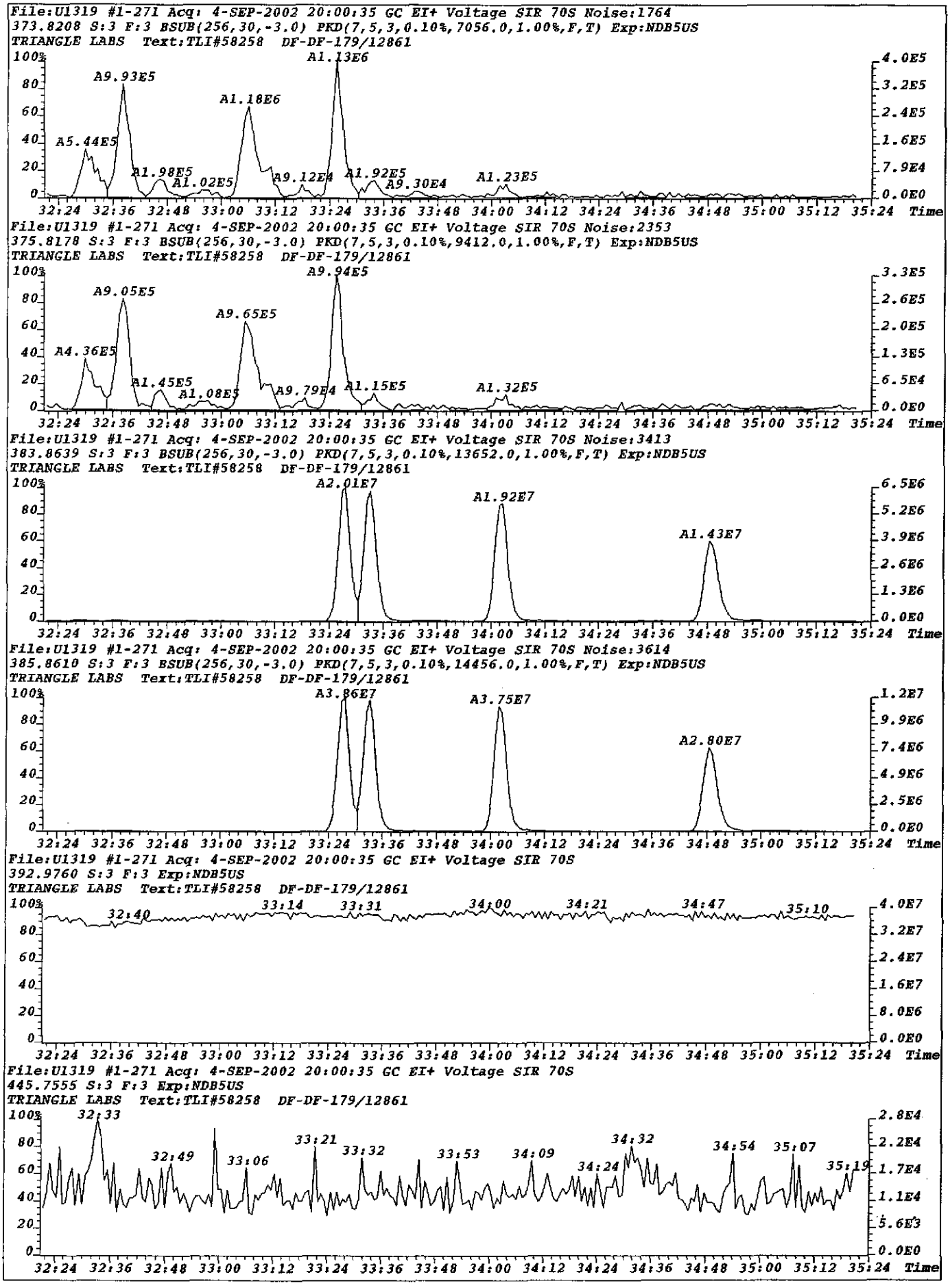
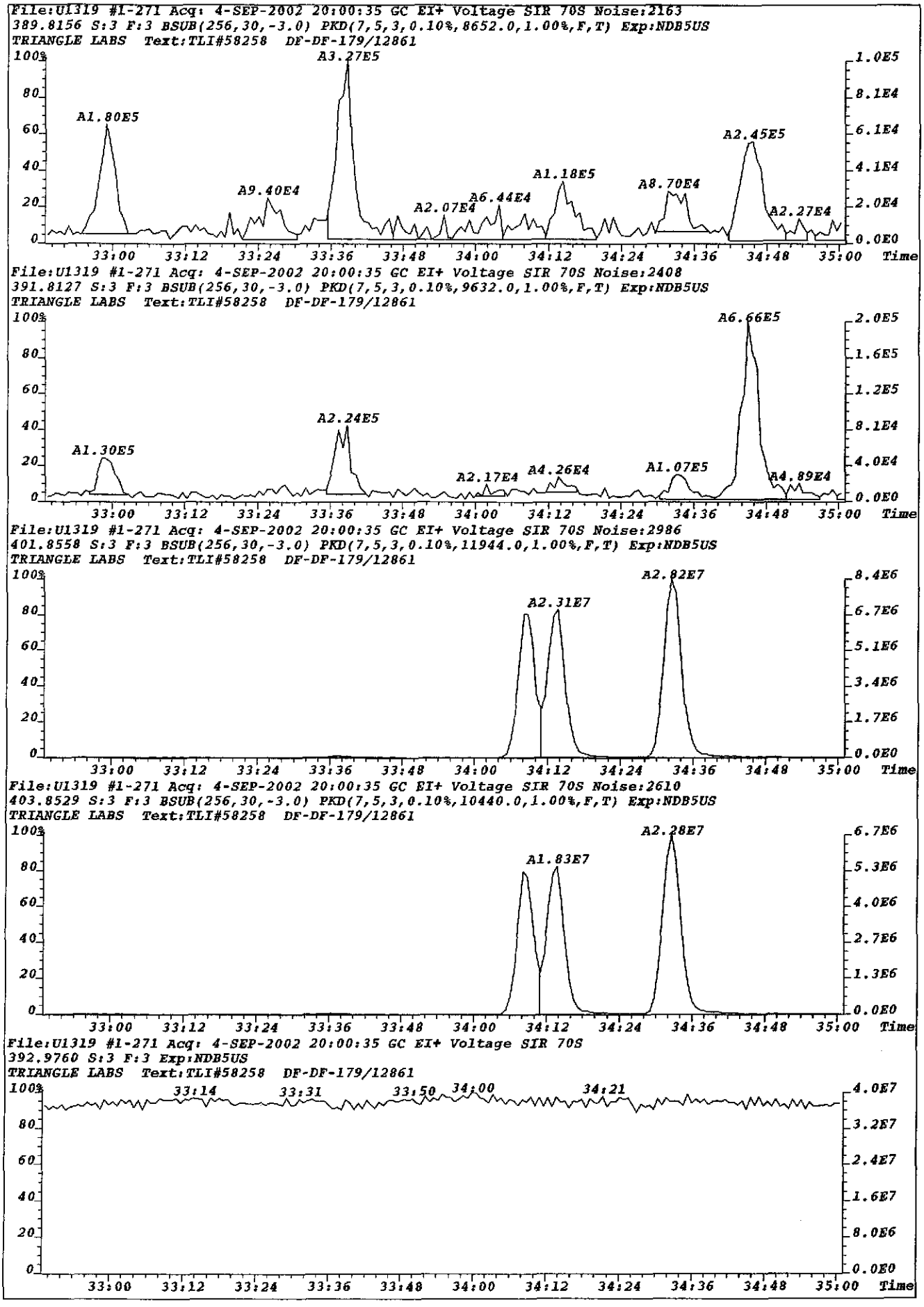
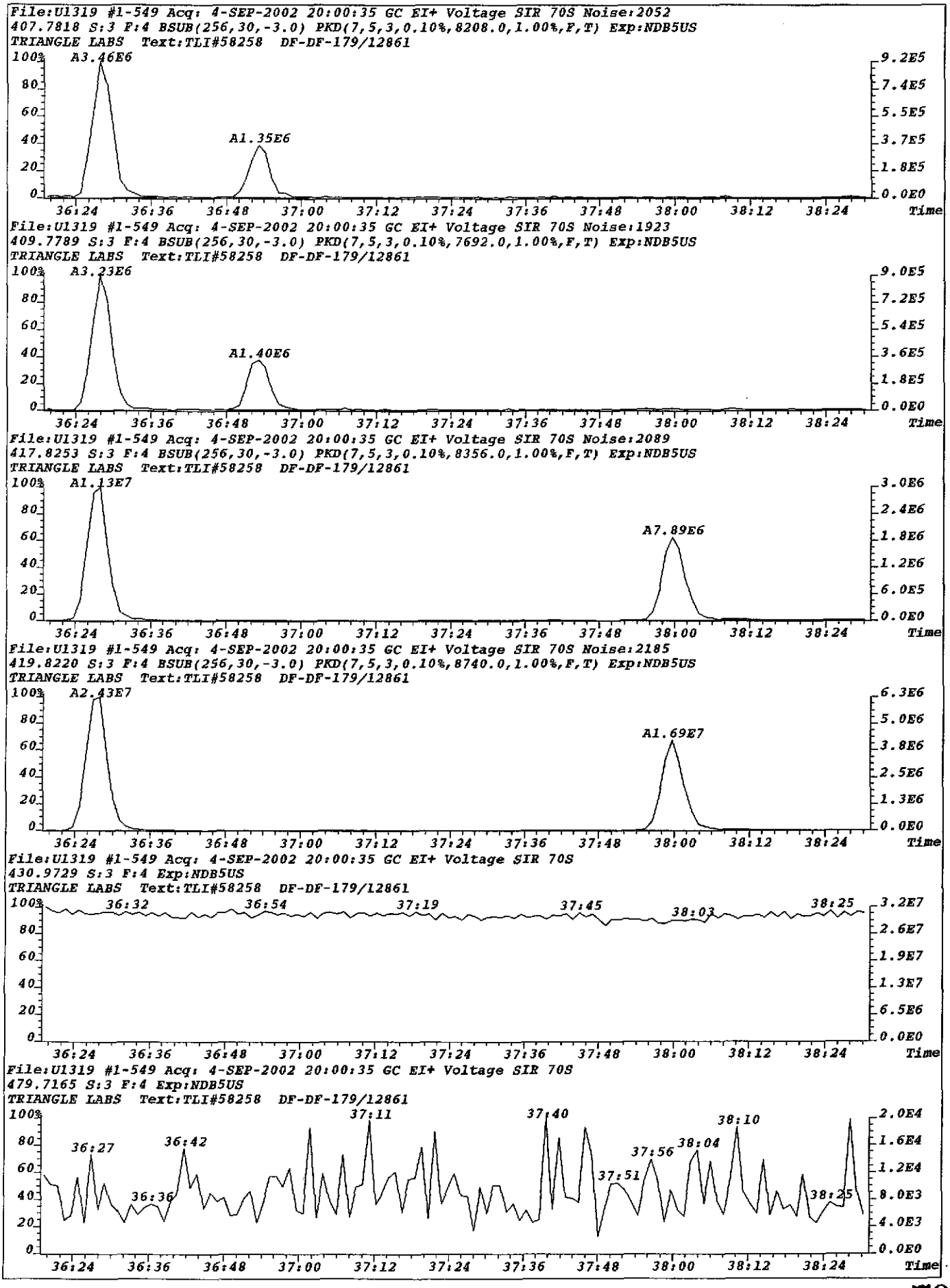
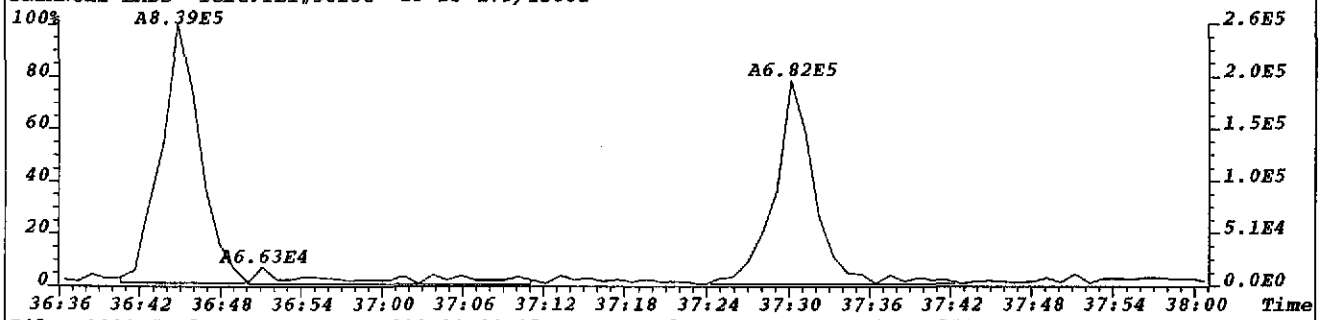
355.8546 S:3 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,8872.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A1.04E5
A9.63E4
A4.29E4
A9.89E4
A5.16E4
A5.93E4
A4.55E4
A1.27E5
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2190
357.8516 S:3 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,8760.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A3.56E5
A9.48E4
A6.39E4
A8.87E4
A5.04E5
A5.97E4
A2.21E5
A7.84E4
A3.30E5
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2273
367.8949 S:3 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,9092.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A2.67E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1749
369.8919 S:3 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,6996.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A1.68E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
330.9792 S:3 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
29:49
30:31
31:18
31:32
Time


File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1764
373.8208 S:3 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7056.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A1.13E6
A9.93E5
A1.18E6
A5.44E5
A1.98E5
A1.02E5
A9.12E4
A1.92E5
A9.30E4
A1.23E5
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2353
375.8178 S:3 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A9.94E5
A9.05E5
A9.65E5
A4.36E5
A1.45E5
A1.08E5
A9.79E4
A1.15E5
A1.32E5
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:3413
383.8639 S:3 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13652.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A2.01E7
A1.92E7
A1.43E7
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:3614
385.8610 S:3 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,14456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A3.86E7
A3.75E7
A2.80E7
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
392.9760 S:3 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
32:40
33:14
33:31
34:00
34:21
34:47
35:10
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
445.7555 S:3 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
32:33
32:49
33:06
33:21
33:32
33:53
34:09
34:24
34:32
34:54
35:07
35:19
32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 Time

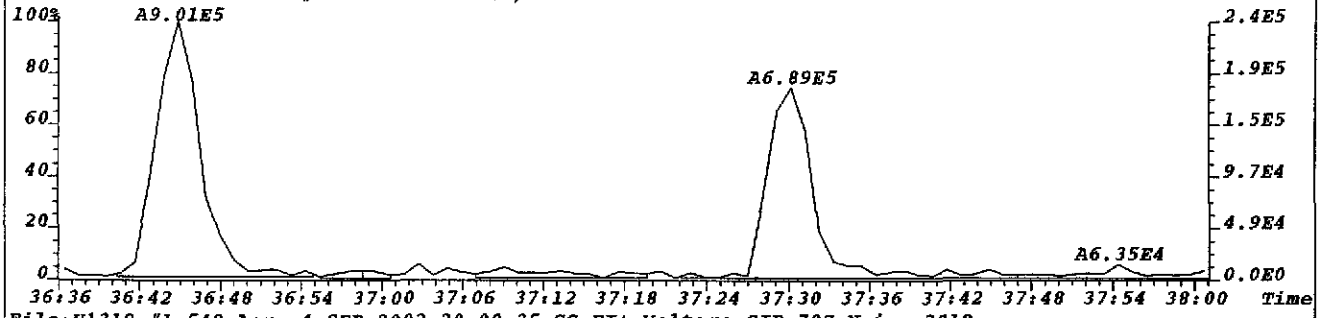

File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2163
389.8156 S:3 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8652.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A1.80E5
A3.27E5
A9.40E4
A2.07E4
A6.44E4
A1.18E5
A8.70E4
A2.45E5
A2.27E4
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2408
391.8127 S:3 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9632.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A1.30E5
A2.24E5
A2.17E4
A4.26E4
A1.07E5
A6.66E5
A4.89E4
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2986
401.8558 S:3 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11944.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A2.31E7
A2.82E7
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2610
403.8529 S:3 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10440.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A1.83E7
A2.28E7
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
392.9760 S:3 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
33:14
33:31
33:50
34:00
34:21
Time


File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2052
407.7818 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A3.46E6
A1.35E6
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1923
409.7789 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7692.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A3.23E6
A1.40E6
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2089
417.8253 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8356.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A1.13E7
A7.89E6
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2185
419.8220 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8740.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A2.43E7
A1.69E7
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
430.9729 S:3 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
36:32
36:54
37:19
37:45
38:03
38:25
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
479.7165 S:3 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
36:27
36:36
36:42
37:11
37:40
37:51
37:56
38:04
38:10
38:25
100%
80
60
40
20
0
36:24
36:36
36:48
37:00
37:12
37:24
37:36
37:48
38:00
38:12
38:24
Time
9.2E5
7.4E5
5.5E5
3.7E5
1.8E5
0.0E0
9.0E5
7.2E5
5.4E5
3.6E5
1.8E5
0.0E0
3.0E6
2.4E6
1.8E6
1.2E6
6.0E5
0.0E0
6.3E6
5.0E6
3.8E6
2.5E6
1.3E6
0.0E0
3.2E7
2.6E7
1.9E7
1.3E7
6.5E6
0.0E0
2.0E4
1.6E4
1.2E4
8.0E3
4.0E3
0.0E0

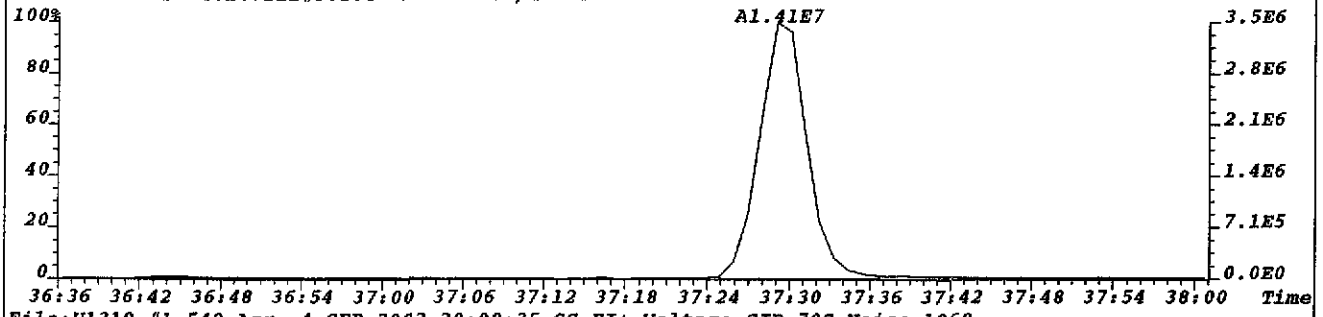
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1700
423.7766 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,6800.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861



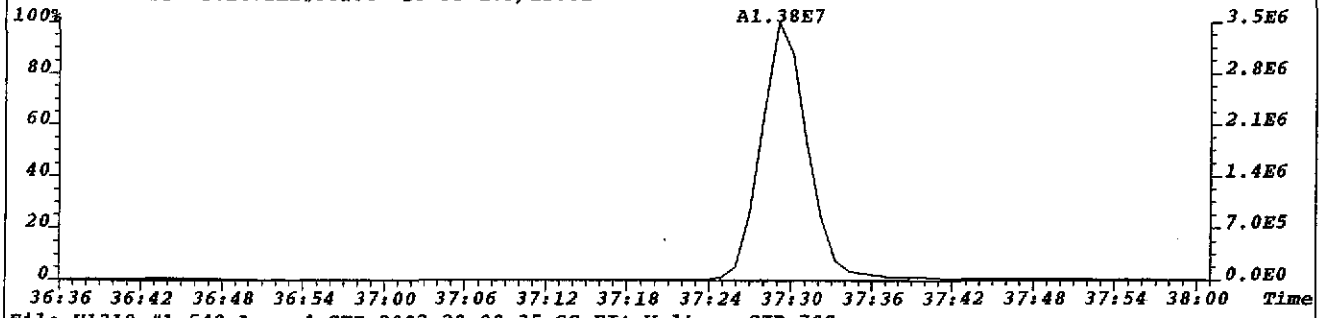
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1750
425.7737 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7000.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861



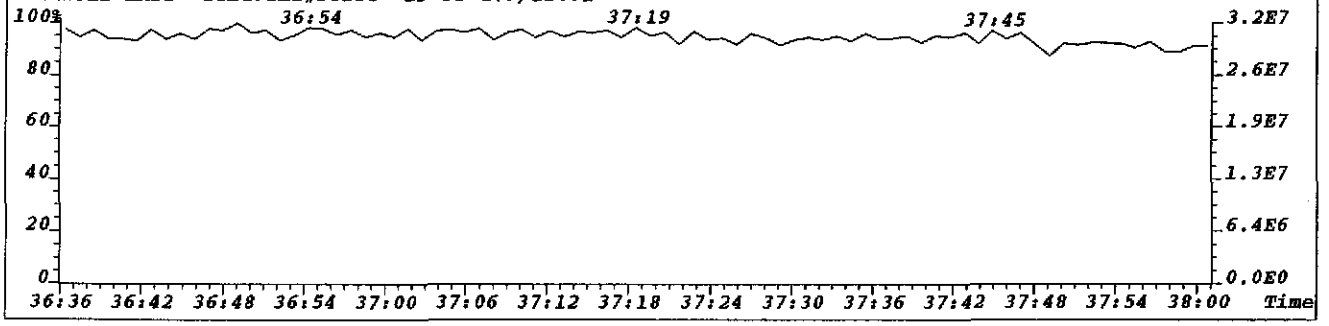
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:2819
435.8169 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861

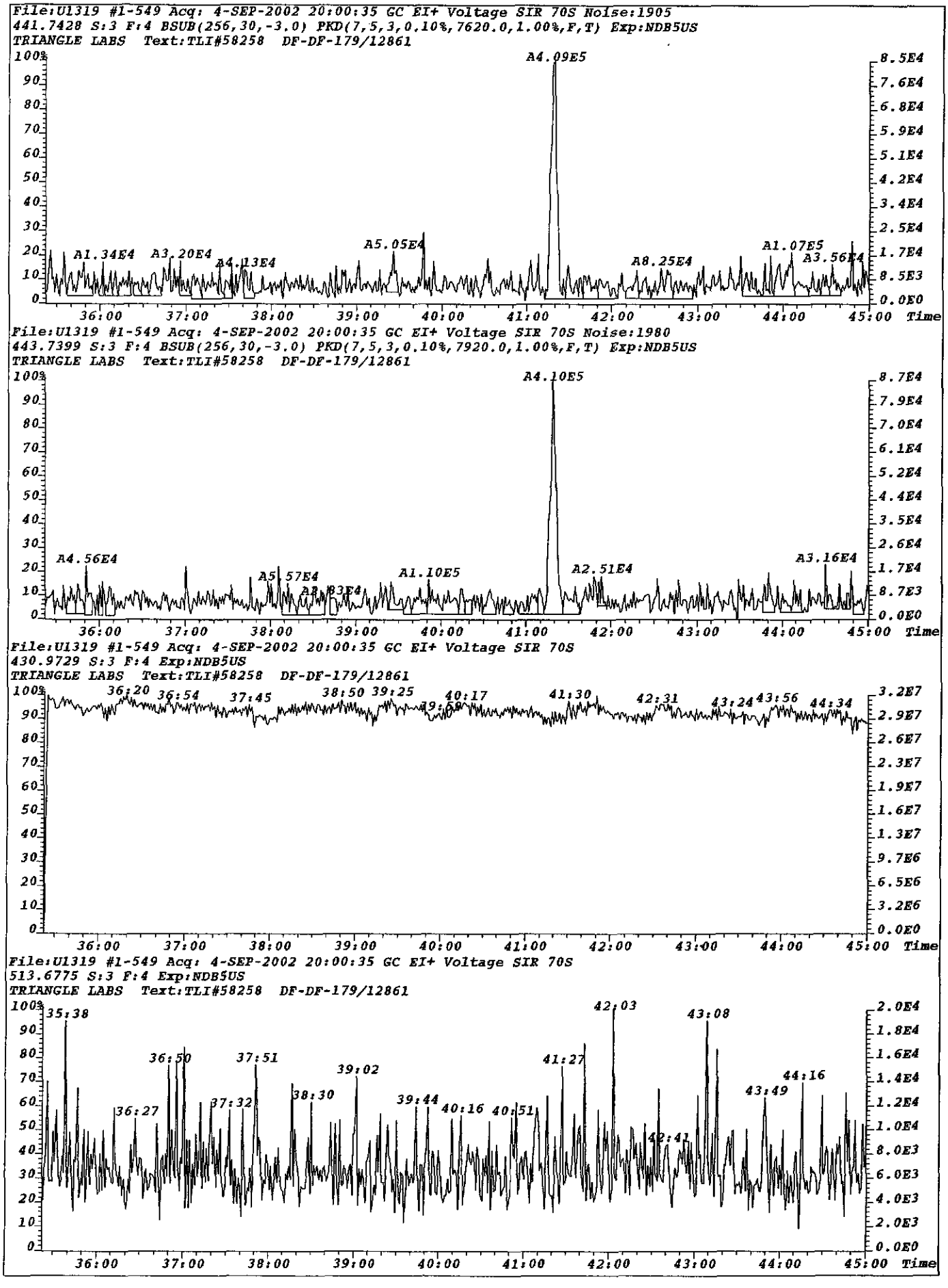


File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1868
437.8140 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7472.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861

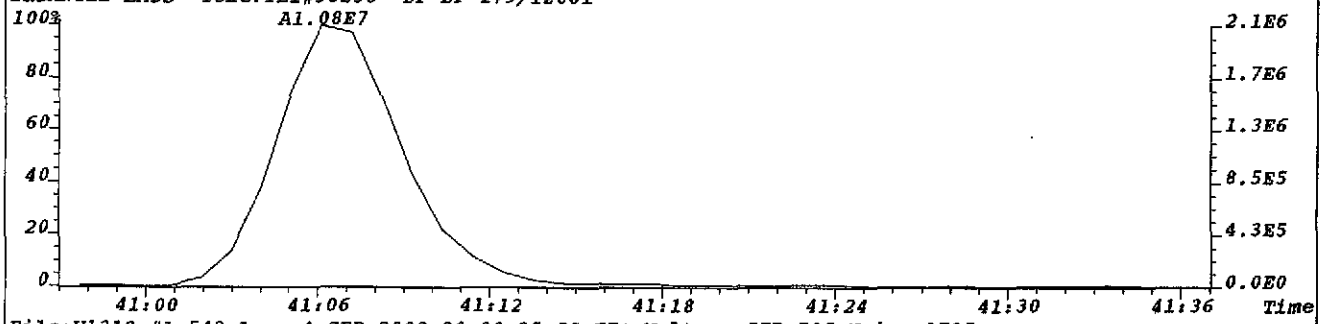


File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
430.9729 S:3 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861

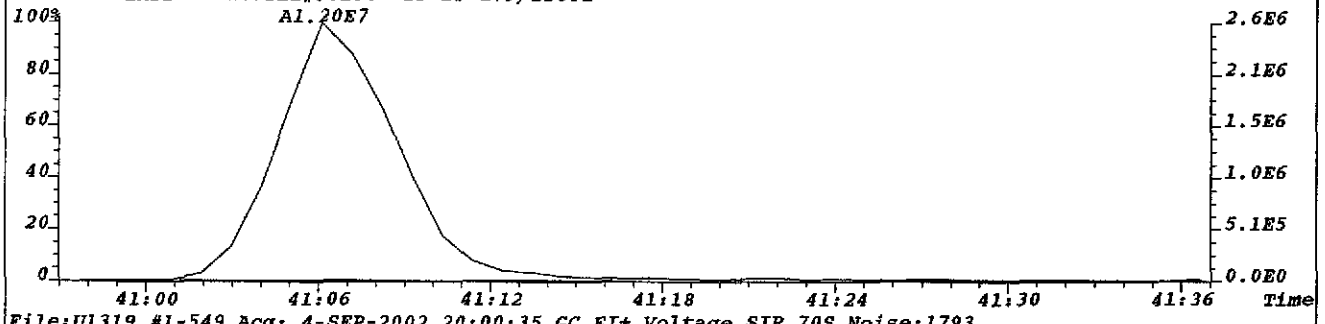



File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1905
441.7428 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7620.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A4.09E5
A1.34E4
A3.20E4
A4.13E4
A5.05E4
A8.25E4
A1.07E5
A3.56E4
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1980
443.7399 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7920.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
A4.10E5
A4.56E4
A5.57E4
A1.10E5
A2.51E4
A3.16E4
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
430.9729 S:3 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
36:20
36:54
37:45
38:50
39:25
40:17
41:30
42:31
43:24
43:56
44:34
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
513.6775 S:3 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861
35:38
36:27
36:50
37:32
37:51
38:30
39:02
39:44
40:16
40:51
41:27
42:03
42:41
43:08
43:49
44:16
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
Time

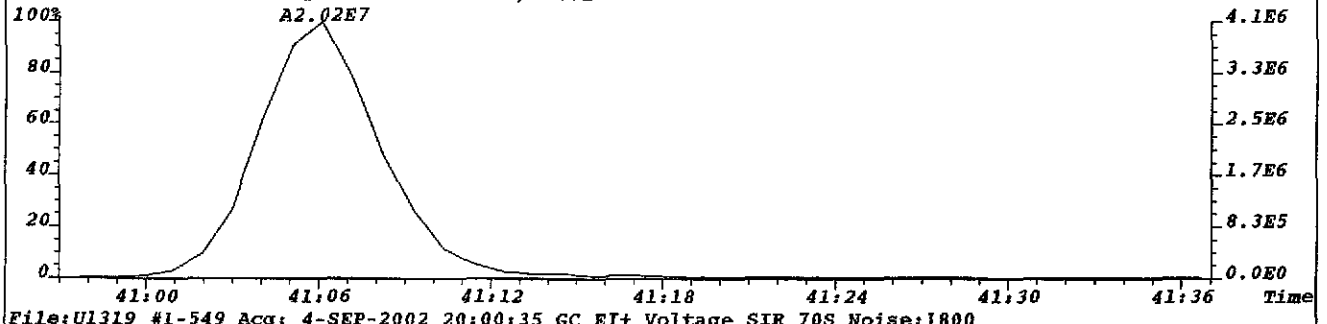
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1400
457.7377 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,5600.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861



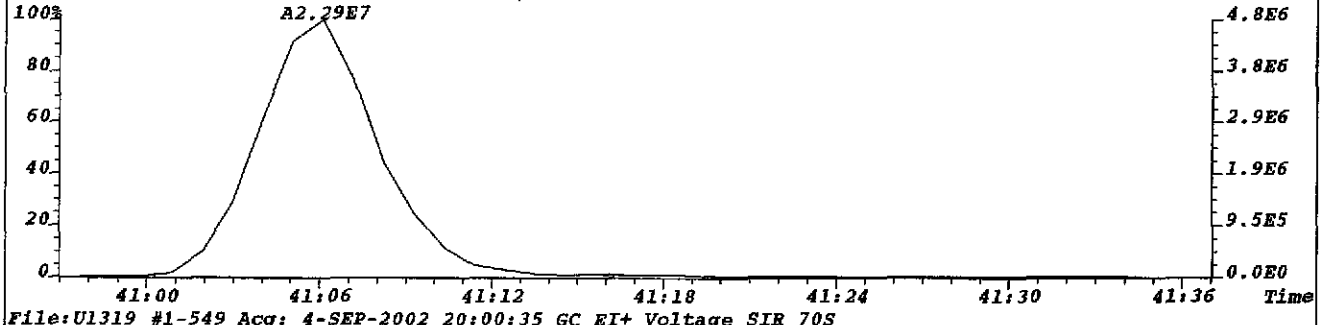
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1795
459.7348 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7180.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861



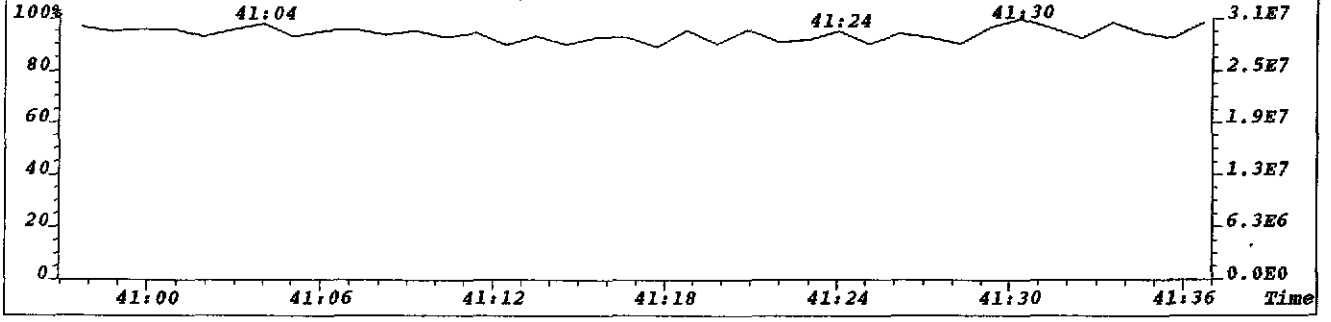
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1793
469.7779 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861

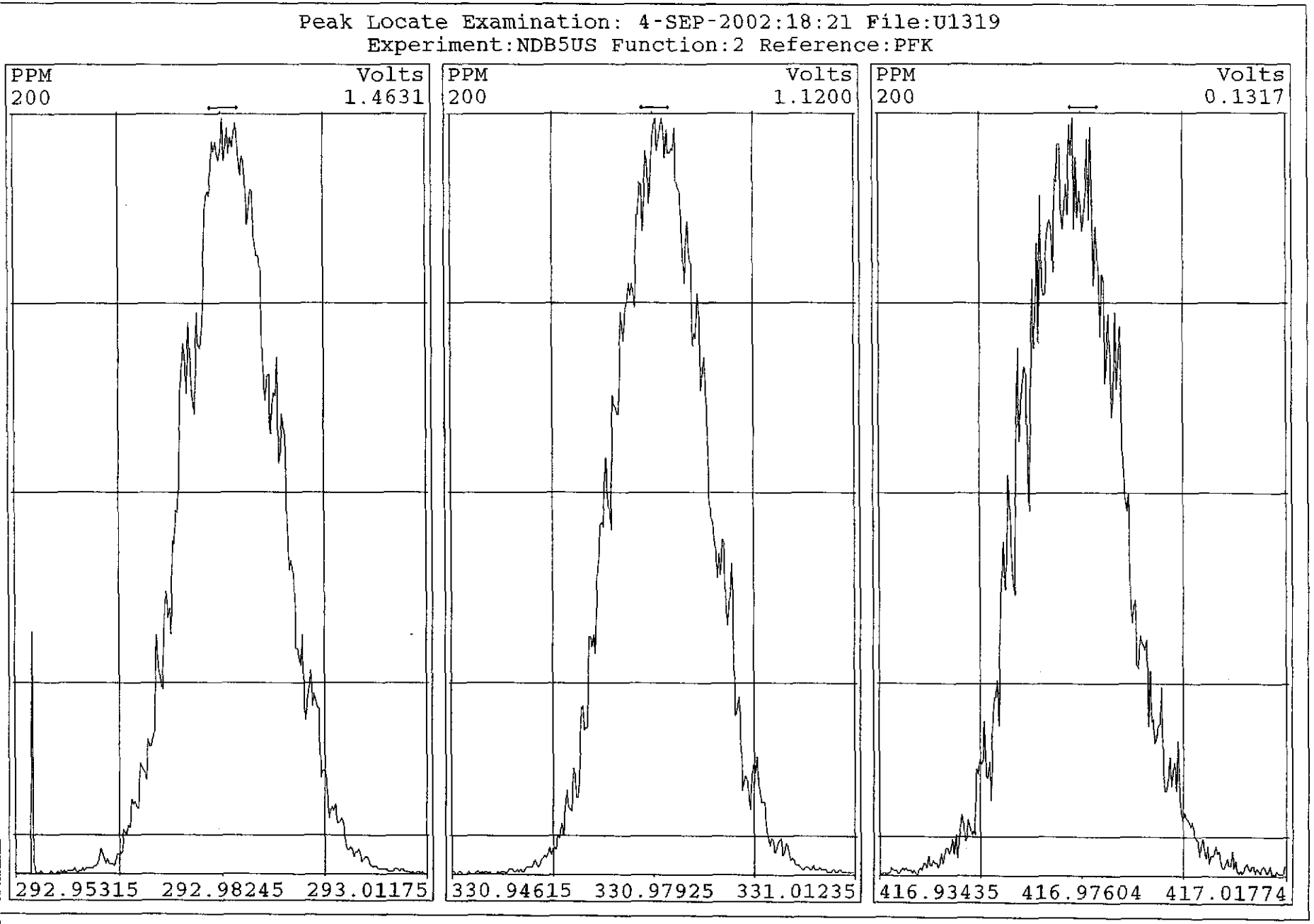


File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S Noise:1800
471.7750 S:3 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861

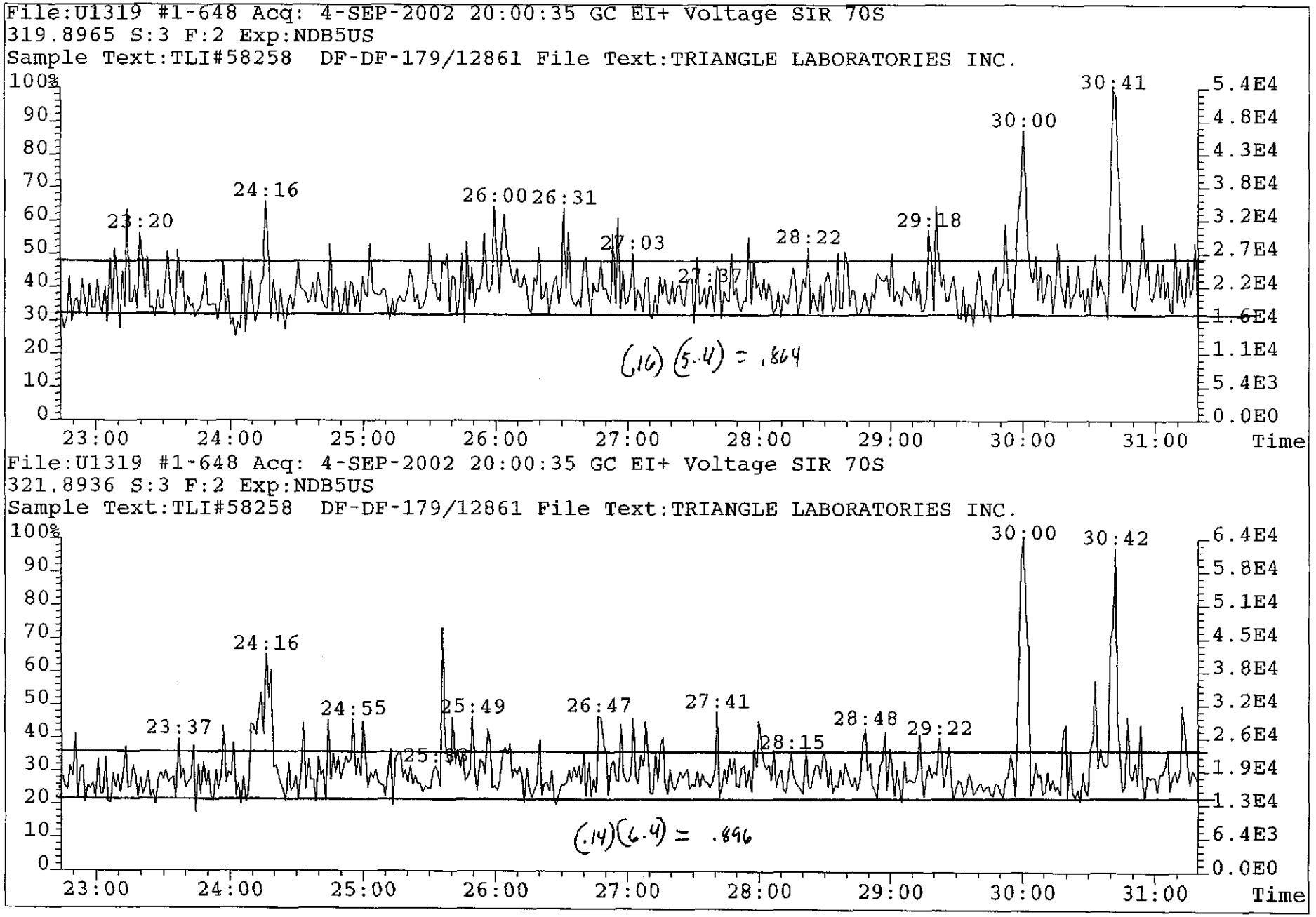


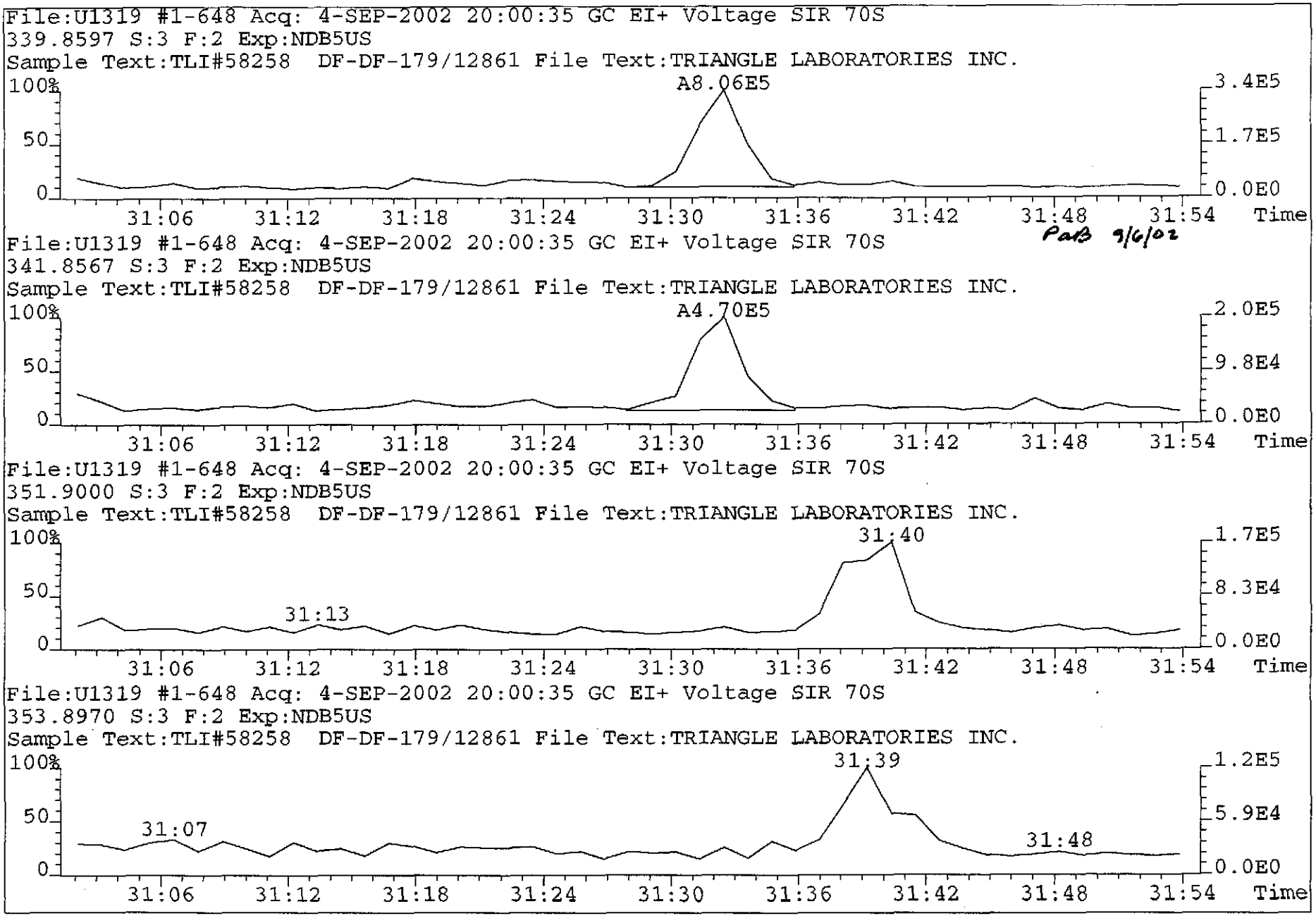
File:U1319 #1-549 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
430.9729 S:3 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DF-179/12861




Peak Locate Examination: 4-SEP-2002:18:21 File:U1319
Experiment:NDB5US Function:2 Reference:PFK
PPM
200
Volts
1.4631
292.95315 292.98245 293.01175
PPM
200
Volts
1.1200
330.94615 330.97925 331.01235
PPM
200
Volts
0.1317
416.93435 416.97604 417.01774

$N = .864 + .896 = 1.76$ 9/5/02




File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
339.8597 S:3 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DF-179/12861 File Text:TRIANGLE LABORATORIES INC.
A8.06E5
100%
50
0
3.4E5
1.7E5
0.0E0
31:06 31:12 31:18 31:24 31:30 31:36 31:42 31:48 31:54 Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
341.8567 S:3 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DF-179/12861 File Text:TRIANGLE LABORATORIES INC.
A4.70E5
2.0E5
9.8E4
0.0E0
31:06 31:12 31:18 31:24 31:30 31:36 31:42 31:48 31:54 Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
351.9000 S:3 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DF-179/12861 File Text:TRIANGLE LABORATORIES INC.
31:40
31:13
1.7E5
8.3E4
0.0E0
31:06 31:12 31:18 31:24 31:30 31:36 31:42 31:48 31:54 Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
353.8970 S:3 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DF-179/12861 File Text:TRIANGLE LABORATORIES INC.
31:39
31:07
31:48
1.2E5
5.9E4
0.0E0
31:06 31:12 31:18 31:24 31:30 31:36 31:42 31:48 31:54 Time

PaB 9/6/02

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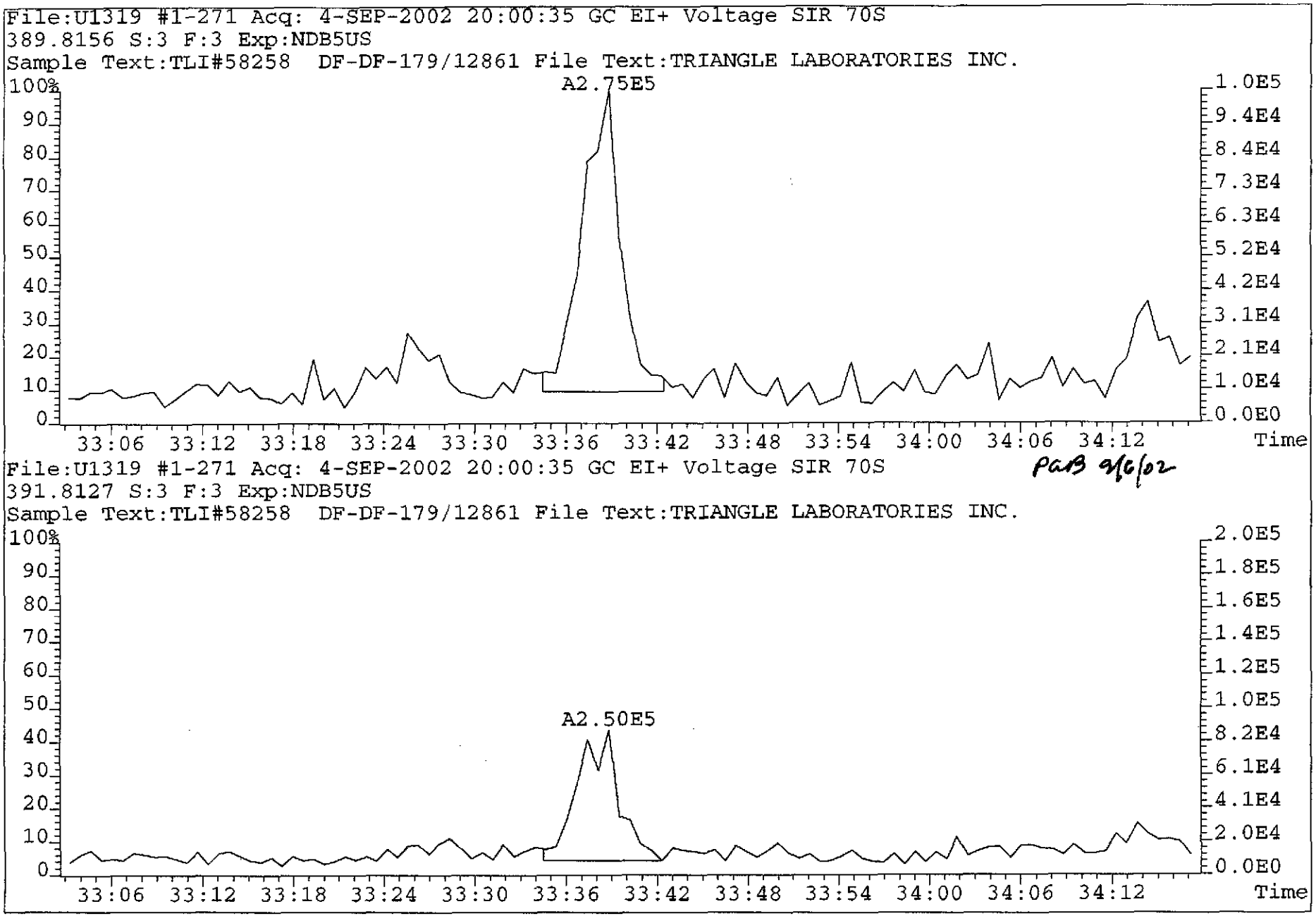
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
389.8156 S:3 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DF-179/12861 File Text:TRIANGLE LABORATORIES INC.
A2.75E5
100%
90
80
70
60
50
40
30
20
10
0
1.0E5
9.4E4
8.4E4
7.3E4
6.3E4
5.2E4
4.2E4
3.1E4
2.1E4
1.0E4
0.0E0
33:06 33:12 33:18 33:24 33:30 33:36 33:42 33:48 33:54 34:00 34:06 34:12
Time
File:U1319 #1-271 Acq: 4-SEP-2002 20:00:35 GC EI+ Voltage SIR 70S
391.8127 S:3 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DF-179/12861 File Text:TRIANGLE LABORATORIES INC.
A2.50E5
100%
90
80
70
60
50
40
30
20
10
0
2.0E5
1.8E5
1.6E5
1.4E5
1.2E5
1.0E5
8.2E4
6.1E4
4.1E4
2.0E4
0.0E0
33:06 33:12 33:18 33:24 33:30 33:36 33:42 33:48 33:54 34:00 34:06 34:12
Time

PAB 9/6/02

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Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **DF-DP-137/12864** Analysis File: **U131904**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/2002**	Spike File:	**SPMIT32S**
TLI ID:	**334-48-2**	Date Extracted:	**08/28/2002**	ICal:	**UF57092**
		Date Analyzed:	**09/04/2002**	ConCal:	**U021317**
Sample Size:	**11.100 g**	Dilution Factor:	**n/a**	% Moisture:	**9.4**
Dry Weight:	**10.057 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JWL**	% Solids:	**90.6**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	EMPC		0.94			J__
1,2,3,7,8-PeCDD	9.1			1.33	31:01	___
1,2,3,4,7,8-HxCDD	8.2			1.24	34:09	___
1,2,3,6,7,8-HxCDD	74.7			1.25	34:14	___
1,2,3,7,8,9-HxCDD	33.5			1.24	34:33	___
1,2,3,4,6,7,8-HpCDD	204			1.00	37:30	___
1,2,3,4,6,7,8,9-OCDD	8120			0.88	41:06	E__
2,3,7,8-TCDF	14.1			0.71	26:06	___
1,2,3,7,8-PeCDF	14.2			1.56	30:01	___
2,3,4,7,8-PeCDF	29.2			1.63	30:42	___
1,2,3,4,7,8-HxCDF	191			1.26	33:28	___
1,2,3,6,7,8-HxCDF	76.0			1.20	33:33	___
2,3,4,6,7,8-HxCDF	82.8			1.22	34:03	___
1,2,3,7,8,9-HxCDF	1.2			1.24	34:49	J__
1,2,3,4,6,7,8-HpCDF	3050			1.05	36:28	E__
1,2,3,4,7,8,9-HpCDF	47.6			1.03	38:00	___
1,2,3,4,6,7,8,9-OCDF	545			0.90	41:19	___

Totals	Conc. (pg/g)	Number	DL	EMPC	Flags
Total TCDD	24.5	9		29.2	___
Total PeCDD	40.5	5		74.0	___
Total HxCDD	484	8			___
Total HpCDD	379	2			___
Total TCDF	229	17		272	X__
Total PeCDF	897	12		975	___
Total HxCDF	2070	13		2090	___
Total HpCDF	4830	3			E__

MIT3_PSR v1.00, LARS 6.25.05

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Printed: 02:39 09/06/2002

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **DF-DP-137/12864** Analysis File: **U131904**

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	130	65.5	40%-135%	0.81	26:04	___
$^{13}C_{12}$-2,3,7,8-TCDD	130	65.4	40%-135%	0.82	26:46	___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	136	68.6	40%-135%	1.55	29:59	___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	149	75.1	40%-135%	1.61	31:01	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	143	72.0	40%-135%	0.52	33:33	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	135	67.7	40%-135%	1.26	34:13	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	133	66.9	40%-135%	0.47	36:27	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	134	67.4	40%-135%	1.07	37:29	___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	385	96.8	40%-135%	0.91	41:05	___

Surrogate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	132	66.4	40%-135%	1.58	30:41	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	140	70.5	40%-135%	0.52	33:27	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	145	73.1	40%-135%	1.25	34:08	___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	132	66.3	40%-135%	0.47	38:00	___

Other Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	17.1	86.2	40%-135%	26:47	___

Alternate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	147	74.1	40%-135%	0.52	34:49	___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	146	73.7	40%-135%	0.52	34:02	___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.83	26:36	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.26	34:32	___

Data Reviewer: Gab 09/06/2002

MIT3_PSR v1.00, LARS 6.25.05

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Mississippi Dept. of Env. Quality

TLI Project: **58258** — Toxicity Equivalents Report
Client Sample: **DF-DP-137/12864** — Analysis File: **U131904**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/02**	Spike File:	**SPMIT32S**
TLI ID:	**334-48-2**	Date Extracted:	**08/28/02**	ICal:	**UF57092**
		Date Analyzed:	**09/04/02**	ConCal:	**U021317**
Sample Size:	**11.100 g**	Dilution Factor:	**1**	% Moisture:	**9.4**
Dry Weight:	**10.057 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JWL**	% Solids:	**90.6**

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	[0.94]	x	1.	=	0.94
1,2,3,7,8-PeCDD	9.1	x	0.5	=	4.6
1,2,3,4,7,8-HxCDD	8.2	x	0.1	=	0.82
1,2,3,6,7,8-HxCDD	74.7	x	0.1	=	7.47
1,2,3,7,8,9-HxCDD	33.5	x	0.1	=	3.35
1,2,3,4,6,7,8-HpCDD	204	x	0.01	=	2.04
1,2,3,4,6,7,8,9-OCDD	8120	x	0.001	=	8.120
TOTAL PCDD					27.3
2,3,7,8-TCDF	5.4	x	0.1	=	0.54
1,2,3,7,8-PeCDF	14.2	x	0.05	=	0.710
2,3,4,7,8-PeCDF	29.2	x	0.5	=	14.6
1,2,3,4,7,8-HxCDF	191	x	0.1	=	19.1
1,2,3,6,7,8-HxCDF	76.0	x	0.1	=	7.60
2,3,4,6,7,8-HxCDF	82.8	x	0.1	=	8.28
1,2,3,7,8,9-HxCDF	1.2	x	0.1	=	0.12
1,2,3,4,6,7,8-HpCDF	3050	x	0.01	=	30.50
1,2,3,4,7,8,9-HpCDF	47.6	x	0.01	=	0.476
1,2,3,4,6,7,8,9-OCDF	545	x	0.001	=	0.545
TOTAL PCDF					82.5

Total EPA TEFs, 1989a: 109.8 pg/g

[...] indicates that the value is that of an EMPC.

GRY_TEF v1.08, MILES 4.22.16

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Initial ...Date...

Data Review By: PaB 9/6/02

Channel specific noise levels computed from 'NL' heights.

The Total Area for each peak with an ion abundance ratio outside
ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of U131904B.dbf
09/06/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF						0.65-0.89				0.874-1.072			
304-306		DC	NL			Height	10.86	6.00	4.86				
	D	D	WL	22:48		0.75	886.41			0.875			
				23:28		0.75	435.67	186.18	249.49	0.900			
				23:41		0.73	525.98	222.20	303.78	0.909			
				23:56		0.65	263.03	103.46	159.57	0.918			
	A			24:12		0.75	332.00	142.00	190.00	0.928			
				24:24		0.76	1,018.08	440.02	578.06	0.936			
				24:42		0.71	560.05	232.09	327.96	0.948			
				25:08		0.72	1,069.97	449.19	620.78	0.964			
				25:27		0.76	1,561.31	673.26	888.05	0.976			
				25:39		0.72	853.65	357.36	496.29	0.984	1278-TCDF		AN
				25:53		0.73	587.01	246.79	340.22	0.993			
	A			26:00		0.82	341.00	154.00	187.00	0.997			
	M			26:06		0.71	1,003.00	418.00	585.00	1.001	2378-TCDF		AN
				26:30		0.75	254.39	108.69	145.70	1.017			
	A			26:42		0.82	264.00	119.00	145.00	1.024			
	AX		X	26:51	RO	0.74	325.00	138.00	187.00	1.030			
	A			27:00		0.76	771.00	334.00	437.00	1.036			
	AD	D	IE	27:00		0.80	2,720.00			1.036			
	AX		X	27:08	RO	0.80	2,720.00	1,210.00	1,510.00	1.041			
	M			27:17		0.74	5,130.00	2,180.00	2,950.00	1.047			
	AD	D	IE	27:26		0.77	2,320.00			1.052			
	A		X	27:27		0.77	1,315.00	571.00	744.00	1.053			
		DC	WH	28:05		0.70	1,371.72			1.077			
		DC	WH	28:19		0.87	124.08			1.086			
304-306			19	Peaks			19,330.14						
13C12-TCDF						0.65-0.89				0.962-1.038			
316-318		DC	NL			Height	5.95	2.73	3.22				
		DC	WL	25:02	RO	0.60	52.99			0.960			
				25:19	RO	1.08	70.15	42.93	39.63	0.971			
				25:39		0.67	134.39	53.82	80.57	0.984			
				26:04		0.81	12,504.69	5,584.20	6,920.49	1.000	13C12-2378-TCDF		ISO
						Height	3,145.28	1,411.98	1,733.30				
				26:23	RO	0.58	144.38	62.81	109.06	1.012			
		DC	SN	26:35	RO	0.92	35.01			1.020			
		DC	WH	27:23	RO	0.31	30.30			1.051			
316-318			4	Peaks			12,853.61						

---------- Above: TCDF / TCDD Follows ----------

TCDD						0.65-0.89				0.900-1.043			
320-322		DC	NL			Height	3.96	1.97	1.99				

Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
A				24:16		0.83	54.10	24.60	29.50	0.907			
	DC	SN		24:31		0.70	8.12			0.916			
				24:40		0.65	34.87	13.73	21.14	0.922	1379-TCDD	AN	J
M				24:57		0.76	50.10	21.70	28.40	0.932			J
				25:35		0.83	388.64	176.09	212.55	0.956			
M				25:48		0.74	208.80	88.80	120.00	0.964			
M				26:17	RO	1.02	57.35	33.20	32.40	0.982			
M				26:41		0.76	275.00	119.00	156.00	0.997			
AN				26:46	RO	0.96	49.21	26.80	27.80	1.000	2378-TCDD	AN	J
				26:56		0.74	49.11	20.94	28.17	1.006			J
				27:06		0.79	129.77	57.14	72.63	1.012			
				27:21	RO	1.21	75.35	51.69	42.57	1.022			
				27:45	RO	0.51	63.40	27.58	54.22	1.037			
K				27:59		0.74	85.19	36.15	49.04	1.045			
	DC	WH		28:18		0.77	23.78			1.057			
320-322			13	Peaks			1,520.89						
37Cl-TCDD										0.925-1.075			
328	DC	NL				Height	3.82	3.82					
	DC	WL		24:40			111.17			0.922			
				25:07			122.26	122.26		0.938			
				25:25			33,367.70	33,367.70		0.950			
				25:52			99.77	99.77		0.966			
				26:47			1,231.32	1,231.32		1.001	37Cl-TCDD	CLS	
				27:09			27,168.70	27,168.70		1.014			
				27:33			48.90	48.90		1.029			
				28:06			3,434.69	3,434.69		1.050			
328			7	Peaks			65,473.34						
13C12-TCDD						0.65-0.89				0.925-1.075			
332-334	DC	NL				Height	10.65	7.10	3.55				
	DC	SN		25:35	RO	1.49	36.02			0.956			
	DC	SN		26:04		0.75	27.79			0.974			
				26:36		0.83	11,900.59	5,387.12	6,513.47	0.994	13C12-1234-TCDD	RS1	
				26:46		0.82	8,789.60	3,972.75	4,816.85	1.000	13C12-2378-TCDD	IS1	
						Height	2,256.97	1,030.03	1,226.94				
	DC	SN		27:05	RO	1.86	41.22			1.012			
332-334			2	Peaks			20,690.19						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78				0.928-1.061			
340-342	DC	NL				Height	4.91	2.46	2.45				
				28:01		1.57	11,158.77	6,823.89	4,334.88	0.934			
				28:18		1.50	2,106.61	1,265.04	841.57	0.944			
				28:32		1.51	474.45	285.76	188.69	0.952			
				28:43		1.52	1,389.87	837.77	552.10	0.958			
				29:09		1.58	7,844.17	4,799.23	3,044.94	0.972			
				29:20		1.54	8,338.65	5,052.27	3,286.38	0.978			
M				29:30		1.59	5,890.00	3,620.00	2,270.00	0.984			
M				29:54		1.59	8,320.00	5,110.00	3,210.00	0.997			
				30:01		1.56	815.51	496.83	318.68	1.001	12378-PeCDF	AN	

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
X		X		30:17	RO	1.58	1,619.24	990.48	628.76	1.010			
A				30:36	RO	1.81	530.40	376.00	208.00	1.021			
M				30:42		1.63	1,647.00	1,020.00	627.00	1.024	23478-PeCDF	AN	
				30:53		1.61	1,992.99	1,228.30	764.69	1.030			
X		X		31:01	RO	1.62	447.38	276.56	170.82	1.034			
X		X		31:24	RO	1.58	1,814.02	1,110.70	703.32	1.047			
				31:31		1.48	1,171.26	698.26	473.00	1.051			
340-342			16	Peaks			55,560.32						
13C12-PeCDF						1.32-1.78				0.867-1.133			
352-354	DC	NL				Height	4.14	1.69	2.45				
				29:20	RO	0.03	22.95	13.95	482.33	0.978			
				29:37	RO	0.08	62.27	37.85	457.77	0.988			
				29:59		1.55	9,107.69	5,530.13	3,577.56	1.000	13C12-PeCDF 123	IS2	
						Height	2,755.97	1,680.02	1,075.95				
				30:41		1.58	8,847.69	5,415.21	3,432.48	1.023	13C12-PeCDF 234	SUR1	
				31:18	RO	0.33	42.10	25.59	78.14	1.044			
				31:39	RO	1.02	234.57	93.61	91.99	1.056			
352-354			6	Peaks			18,317.27						

---------- Above: PeCDF / PeCDD Follows ----------

PeCDD						1.32-1.78				0.938-1.021			
356-358	DC	NL				Height	3.87	1.80	2.07				
D	D	SN		29:28	RO	0.01	14.58			0.950			
				29:43		1.36	156.82	90.51	66.31	0.958			J
				29:57	RO	0.76	440.84	267.96	352.24	0.966			
M				30:06	RO	1.30	450.77	274.00	211.00	0.970			
M				30:16		1.56	147.70	90.00	57.70	0.976			J
				30:31		1.59	567.64	348.69	218.95	0.984			
A				30:43		1.51	187.80	113.00	74.80	0.990			
D	D	SN		30:51	RO	0.01	75.00			0.995			
				31:01		1.33	306.21	174.82	131.39	1.000	12378-PeCDD	AN	
D	D	SN		31:10	RO	0.17	157.90			1.005			
M				31:30	RO	0.82	236.90	144.00	176.00	1.016			
	DC	WH		31:53	RO	0.42	16.99			1.028			
356-358			8	Peaks			2,494.68						
13C12-PeCDD						1.32-1.78				0.871-1.129			
368-370	DC	NL				Height	3.65	1.93	1.72				
				29:57		1.76	26.86	17.13	9.73	0.966			
				30:05	RO	1.10	48.65	21.01	19.08	0.970			
				30:16	RO	1.19	23.36	10.88	9.16	0.976			
	DC	SN		30:41	RO	2.15	10.53			0.989			
	DC	SN		30:50	RO	0.78	9.26			0.994			
				31:01		1.61	5,942.93	3,665.60	2,277.33	1.000	13C12-PeCDD 123	IS3	
						Height	1,767.90	1,083.44	684.46				
	DC	SN		31:19	RO	1.08	27.34			1.010			
368-370			4	Peaks			6,041.80						

---------- Above: PeCDD / HxCDF Follows ----------

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
HxCDF				1.05-1.43						0.964-1.045			
374-376	DC	NL		Height			11.34	6.96	4.38				
				32:30		1.24	14,393.66	7,965.68	6,427.98	0.969			
				32:38		1.25	31,236.60	17,336.60	13,900.00	0.973			
				32:46		1.27	1,402.79	785.98	616.81	0.977			
				32:56		1.32	532.90	303.17	229.73	0.982			
				33:05		1.24	26,935.40	14,909.30	12,026.10	0.986			
				33:18		1.34	485.50	277.95	207.55	0.993			
				33:28		1.26	9,058.53	5,051.51	4,007.02	0.998	123478-HxCDF	AN	
				33:33		1.20	3,788.08	2,064.12	1,723.96	1.000	123678-HxCDF	AN	
	X		X	33:43	RO	1.29	1,127.95	635.42	492.53	1.005			
				33:50		1.23	194.62	107.35	87.27	1.008			J
				34:03		1.22	3,599.59	1,978.58	1,621.01	1.015	234678-HxCDF	AN	
	A			34:46		1.15	44.20	23.60	20.60	1.036			J
	AN			34:49		1.24	43.30	24.00	19.30	1.038	123789-HxCDF	AN	J
	M			34:53		1.22	524.00	288.00	236.00	1.040			
	DC		WH	35:18		1.26	180.71			1.052			
374-376			14	Peaks			93,367.12						
13C12-HxCDF				0.43-0.59						0.881-1.119			
384-386	DC	NL		Height			6.49	2.74	3.75				
				32:29		0.50	34.25	11.35	22.90	0.968			
				32:38	RO	0.71	77.10	26.04	36.84	0.973			
				33:27		0.52	8,105.78	2,787.67	5,318.11	0.997	13C12-HxCDF 478	SUR2	
				33:33		0.52	8,262.78	2,827.53	5,435.25	1.000	13C12-HxCDF 678	IS4	
				Height			2,602.09	887.06	1,715.03				
	DC		SN	33:49	RO	0.41	20.34			1.008			
				34:02		0.52	7,774.31	2,664.67	5,109.64	1.014	13C12-HxCDF 234	ALT2	
				34:49		0.52	6,216.42	2,126.03	4,090.39	1.038	13C12-HxCDF 789	ALT1	
384-386			6	Peaks			30,470.64						

---------- Above: HxCDF / HxCDD Follows ----------

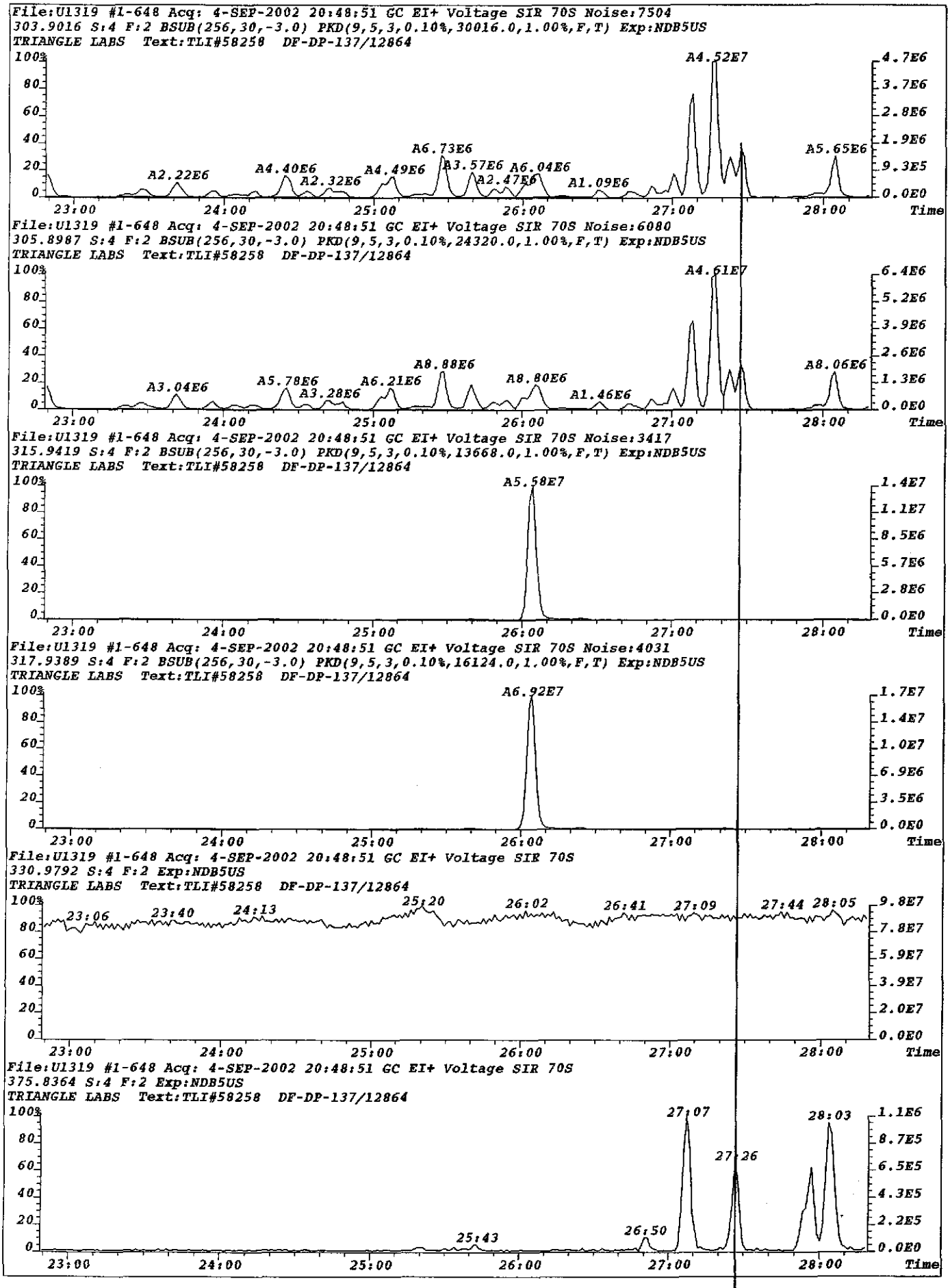
HxCDD				1.05-1.43						0.959-1.013			
390-392	DC	NL		Height			7.21	3.60	3.61				
				32:59		1.20	2,099.97	1,146.04	953.93	0.964			
				33:26		1.31	445.16	252.13	193.03	0.977			
				33:38		1.24	8,214.29	4,542.60	3,671.69	0.983			
				33:47		1.15	102.53	54.86	47.67	0.987			J
	A			34:04		1.25	96.40	53.60	42.80	0.996			J
	AN			34:09		1.24	244.00	135.00	109.00	0.998	123478-HxCDD	AN	
	M			34:14		1.25	2,270.00	1,260.00	1,010.00	1.000	123678-HxCDD	AN	
				34:33		1.24	988.69	547.23	441.46	1.010	123789-HxCDD	AN	
	DC		WH	34:45	RO	0.35	61.42			1.016			
390-392			8	Peaks			14,461.04						
13C12-HxCDD				1.05-1.43						0.971-1.029			
402-404	DC	NL		Height			7.49	3.80	3.69				
				33:38		1.17	68.48	36.95	31.53	0.983			
	DC		SN	33:45	RO	0.18	7.82			0.986			
				34:08		1.25	5,329.00	2,957.90	2,371.10	0.998	13C12-HxCDD 478	SUR3	
				34:13		1.26	5,461.92	3,043.98	2,417.94	1.000	13C12-HxCDD 678	IS5	
				Height			1,731.27	955.67	775.60				

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				34:32		1.26	7,766.52	4,325.86	3,440.66	1.009	13C12-HxCDD 789	RS2	
	DC	SN		34:49	RO	0.35	10.48			1.018			
402-404			4	Peaks			18,625.92						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.88-1.20						0.995-1.047			
408-410	DC	NL				Height	6.36	3.42	2.94				
				36:28		1.05	121,019.10	61,913.20	59,105.90	1.000	1234678-HpCDF	AN	E
				36:52		1.05	58,526.10	29,936.00	28,590.10	1.011			
				38:00		1.03	1,338.04	678.31	659.73	1.043	1234789-HpCDF	AN	
408-410			3	Peaks			180,883.24						
13C12-HpCDF				0.37-0.51						0.945-1.110			
418-420	DC	NL				Height	4.05	2.20	1.85				
				36:27		0.47	5,452.03	1,748.19	3,703.84	1.000	13C12-HpCDF 678	IS6	
						Height	1,628.56	505.69	1,122.87				
				36:52	RO	1.54	27.60	29.45	19.17	1.011			
				38:00		0.47	3,801.98	1,211.98	2,590.00	1.043	13C12-HpCDF 789	SUR4	
418-420			3	Peaks			9,281.61						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20						0.976-1.005			
424-426	DC	NL				Height	11.20	5.75	5.45				
				36:45		1.05	3,767.86	1,928.01	1,839.85	0.980			
				37:30		1.00	4,382.96	2,187.74	2,195.22	1.000	1234678-HpCDD	AN	
424-426			2	Peaks			8,150.82						
13C12-HpCDD				0.88-1.20						0.973-1.027			
436-438	DC	NL				Height	4.70	2.38	2.32				
				36:43		0.93	26.77	12.91	13.86	0.980			
	DC	SN		36:53	RO	0.67	14.89			0.984			
				37:29		1.07	4,232.23	2,183.41	2,048.82	1.000	13C12-HpCDD 678	IS7	
						Height	1,065.91	541.49	524.42				
	DC	SN		37:54	RO	0.56	7.20			1.011			
436-438			2	Peaks			4,259.00						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02						0.903-1.097			
442-444	DC	NL				Height	3.65	1.59	2.06				
	DC	WL		36:09	RO	1.27	19.32			0.880			
				39:01	RO	1.11	26.37	15.42	13.95	0.950			
				41:06	RO	1.32	70.57	49.27	37.34	1.000			
				41:19		0.90	16,799.07	7,946.86	8,852.21	1.006	OCDF	AN	
442-444			3	Peaks			16,896.01						
OCDD				0.76-1.02						0.903-1.097			
458-460	DC	NL				Height	2.64	1.12	1.52				
				41:06		0.88	185,775.40	86,994.50	98,780.90	1.000	OCDD	AN	E
458-460			1	Peak			185,775.40						

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-OCDD				0.76-1.02						0.996-1.004			
470-472		DC	NL			Height	3.31	1.62	1.69				
				41:05		0.91	8,221.86	3,920.00	4,301.86	1.000	13C12-OCDD	IS8	
						Height	1,820.85	883.39	937.46				
470-472			1 Peak				8,221.86						

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

*** End of Report ***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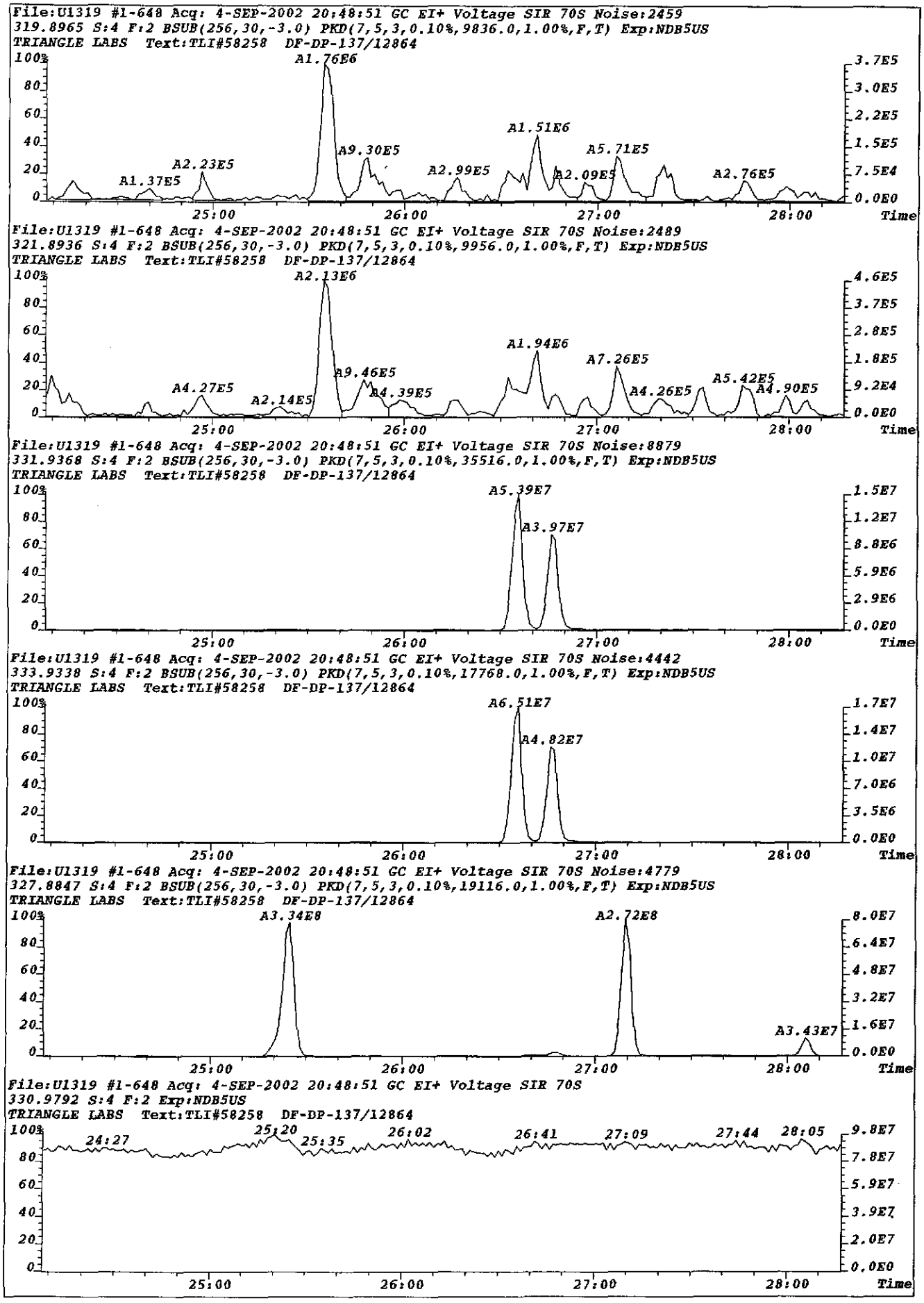
303.9016 S:4 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,30016.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A4.52E7
A6.73E6
A5.65E6
A2.22E6
A4.40E6
A2.32E6
A4.49E6
A3.57E6
A6.04E6
A2.47E6
A1.09E6
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:6080
305.8987 S:4 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,24320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A4.61E7
A8.88E6
A8.06E6
A3.04E6
A5.78E6
A3.28E6
A6.21E6
A8.80E6
A1.46E6
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:3417
315.9419 S:4 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,13668.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A5.58E7
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:4031
317.9389 S:4 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,16124.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A6.92E7
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
330.9792 S:4 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
23:06
23:40
24:13
25:20
26:02
26:41
27:09
27:44
28:05
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
375.8364 S:4 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
27:07
28:03
27:26
25:43
26:50
Time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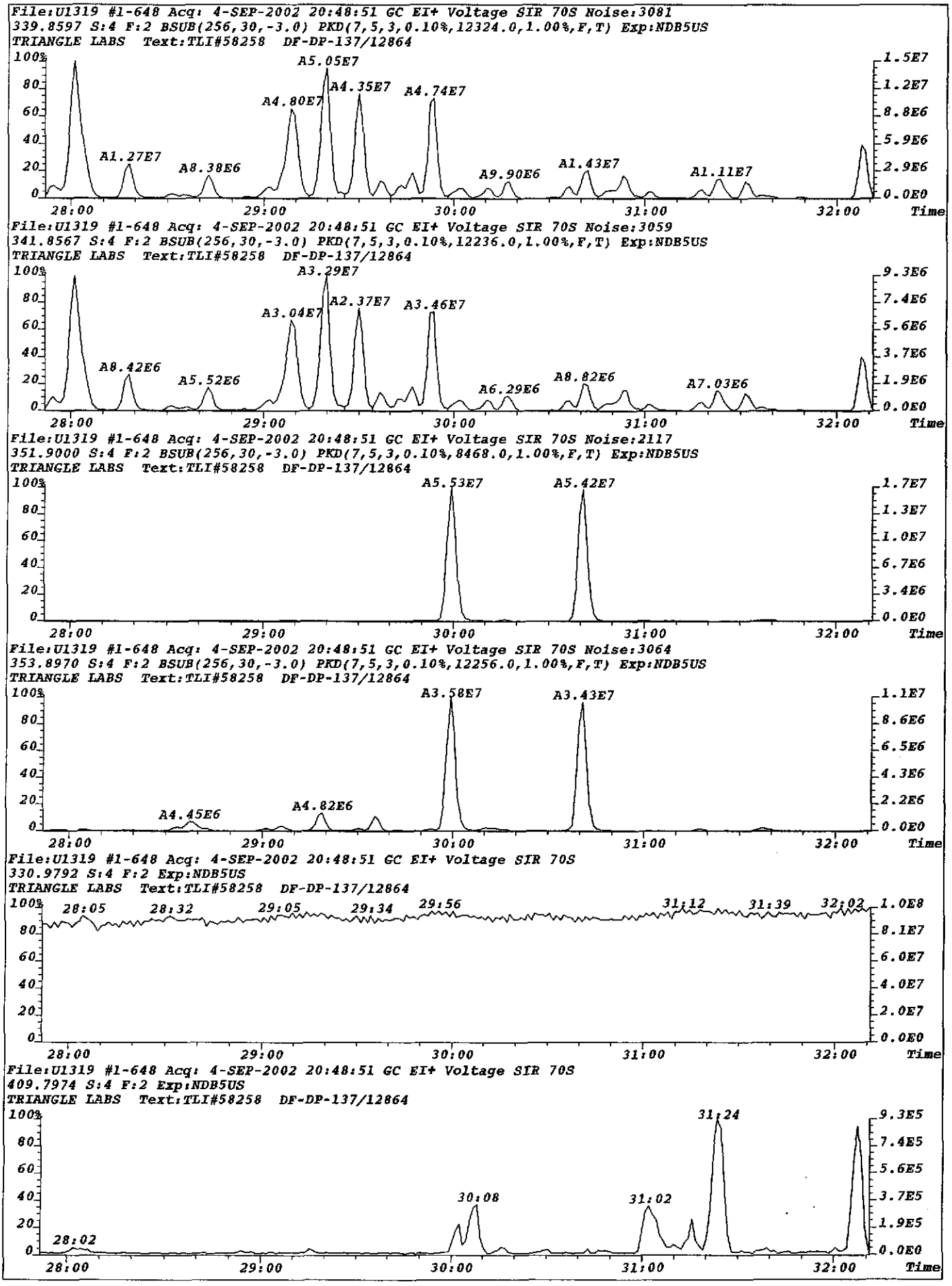
319.8965 S:4 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9836.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A1.76E6
A1.51E6
A9.30E5
A5.71E5
A2.23E5
A2.99E5
A2.09E5
A2.76E5
A1.37E5
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2489
321.8936 S:4 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9956.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A2.13E6
A1.94E6
A7.26E5
A9.46E5
A4.27E5
A2.14E5
A4.39E5
A4.26E5
A5.42E5
A4.90E5
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:8879
331.9368 S:4 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,35516.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A5.39E7
A3.97E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:4442
333.9338 S:4 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,17768.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A6.51E7
A4.82E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:4779
327.8847 S:4 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,19116.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A3.34E8
A2.72E8
A3.43E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
330.9792 S:4 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
24:27
25:20
25:35
26:02
26:41
27:09
27:44
28:05
25:00
26:00
27:00
28:00
Time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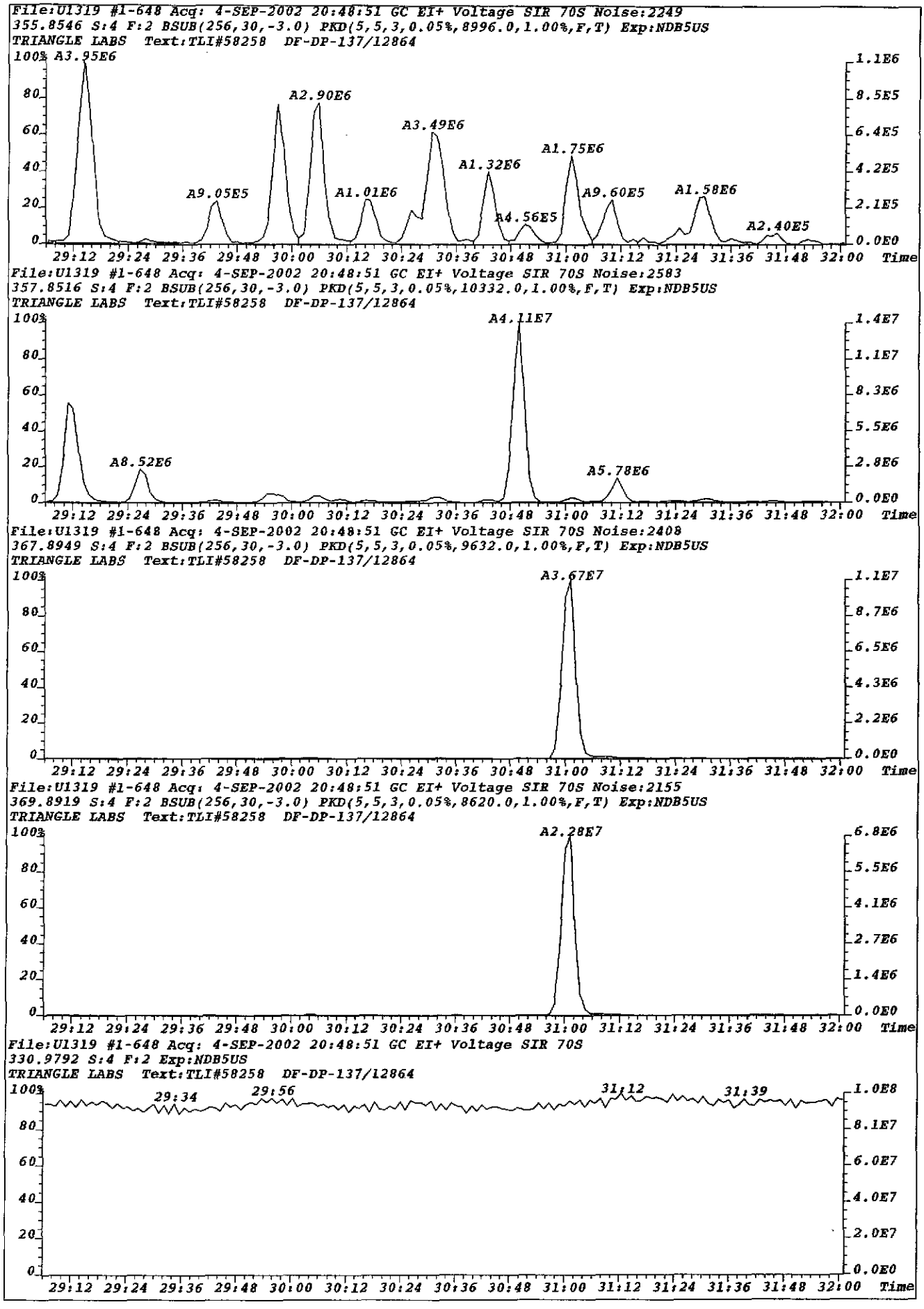
339.8597 S:4 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A5.05E7
A4.35E7
A4.74E7
A4.80E7
A1.27E7
A8.38E6
A9.90E6
A1.43E7
A1.11E7
28:00
29:00
30:00
31:00
32:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:3059
341.8567 S:4 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12236.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A3.29E7
A2.37E7
A3.46E7
A3.04E7
A8.42E6
A5.52E6
A6.29E6
A8.82E6
A7.03E6
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2117
351.9000 S:4 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8468.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A5.53E7
A5.42E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:3064
353.8970 S:4 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A3.58E7
A3.43E7
A4.45E6
A4.82E6
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
330.9792 S:4 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
28:05
28:32
29:05
29:34
29:56
31:12
31:39
32:02
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
409.7974 S:4 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
31:24
30:08
31:02
28:02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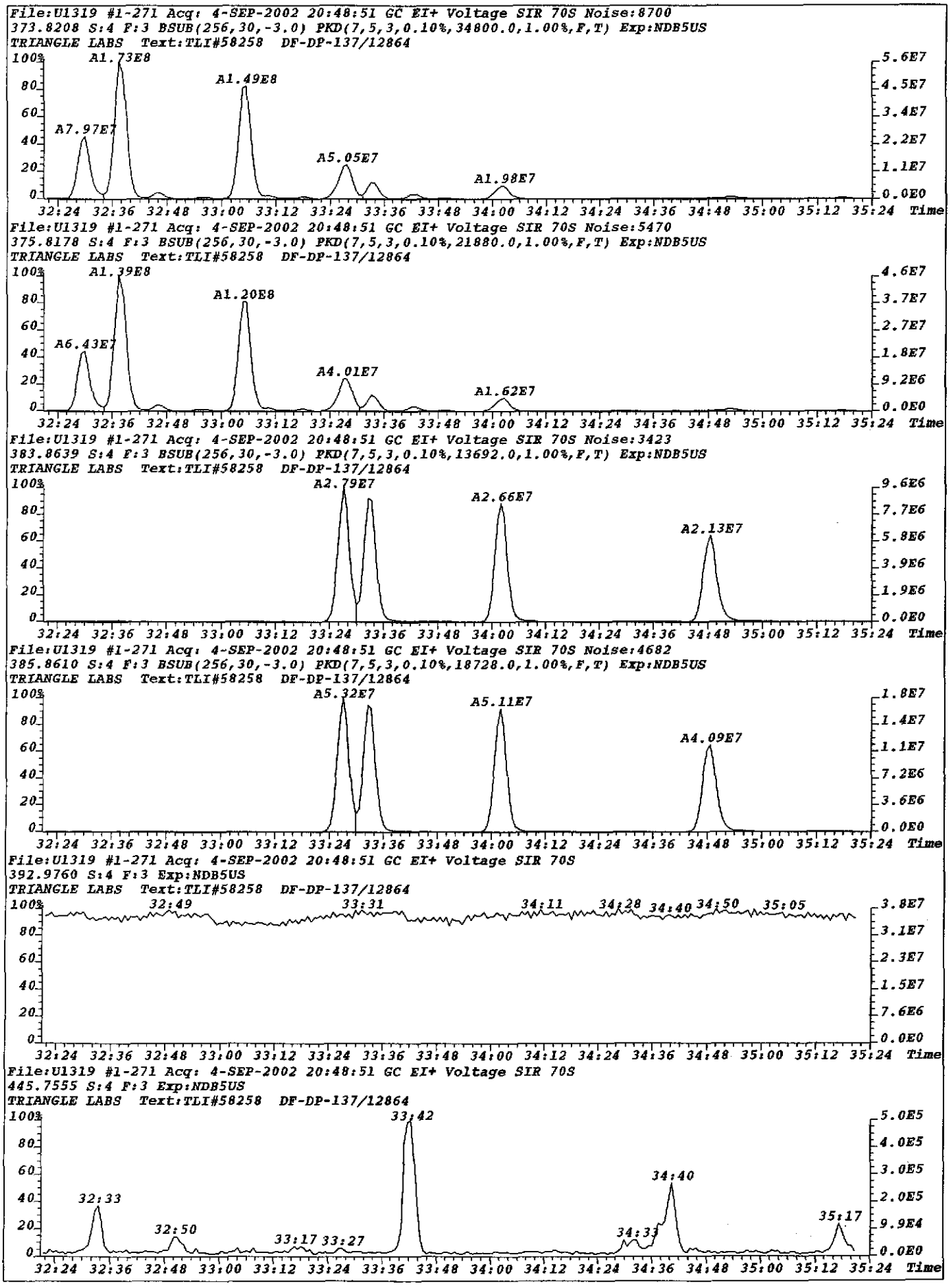
355.8546 S:4 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,8996.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A3.95E6
A2.90E6
A3.49E6
A1.75E6
A1.32E6
A9.05E5
A1.01E6
A4.56E5
A9.60E5
A1.58E6
A2.40E5
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2583
357.8516 S:4 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,10332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A4.11E7
A8.52E6
A5.78E6
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2408
367.8949 S:4 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,9632.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A3.67E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2155
369.8919 S:4 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,8620.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A2.28E7
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
330.9792 S:4 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
29:34
29:56
31:12
31:39
29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48 32:00 Time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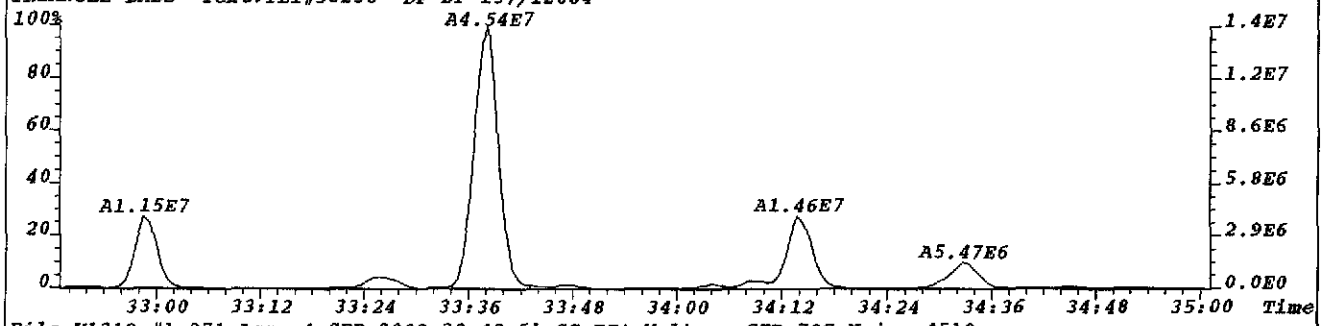
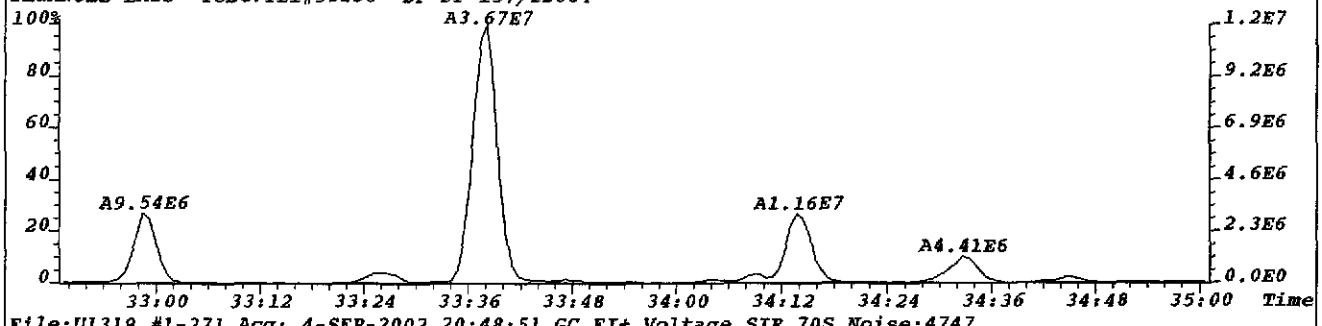
373.8208 S:4 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,34800.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A1.73E8
A1.49E8
A7.97E7
A5.05E7
A1.98E7
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:5470
375.8178 S:4 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,21880.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A1.39E8
A1.20E8
A6.43E7
A4.01E7
A1.62E7
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:3423
383.8639 S:4 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13692.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A2.79E7
A2.66E7
A2.13E7
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:4682
385.8610 S:4 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,18728.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A5.32E7
A5.11E7
A4.09E7
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
392.9760 S:4 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
445.7555 S:4 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
33:42
34:40
32:33
32:50
35:17
Time

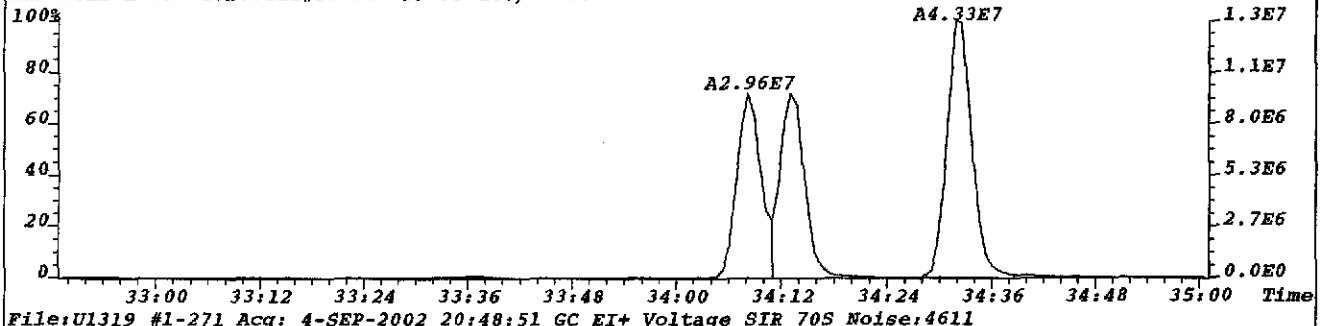
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:4501
389.8156 S:4 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,18004.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864



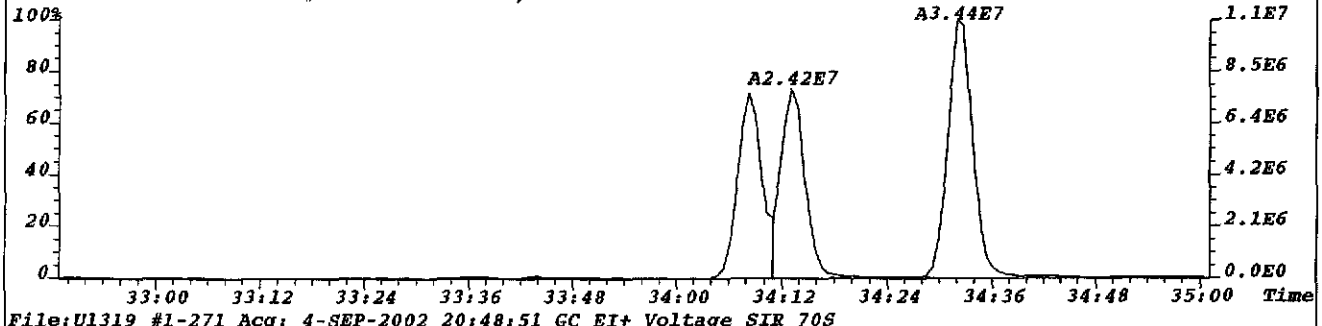
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:4510
391.8127 S:4 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,18040.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864



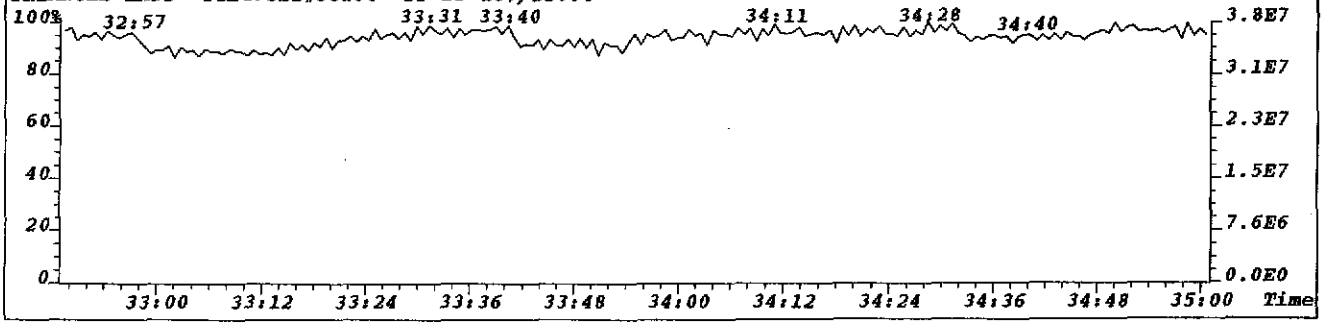
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:4747
401.8558 S:4 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,18988.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864

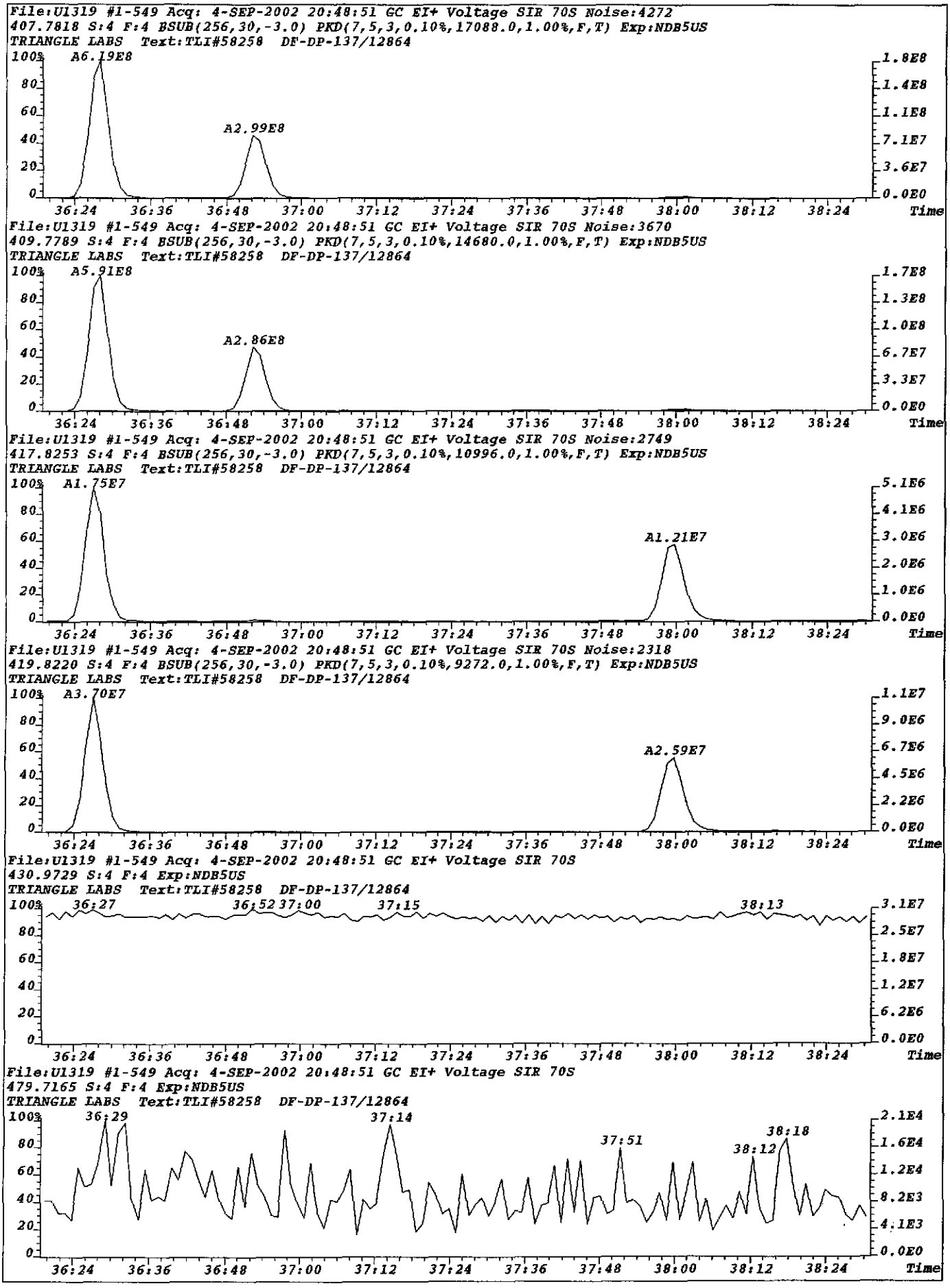


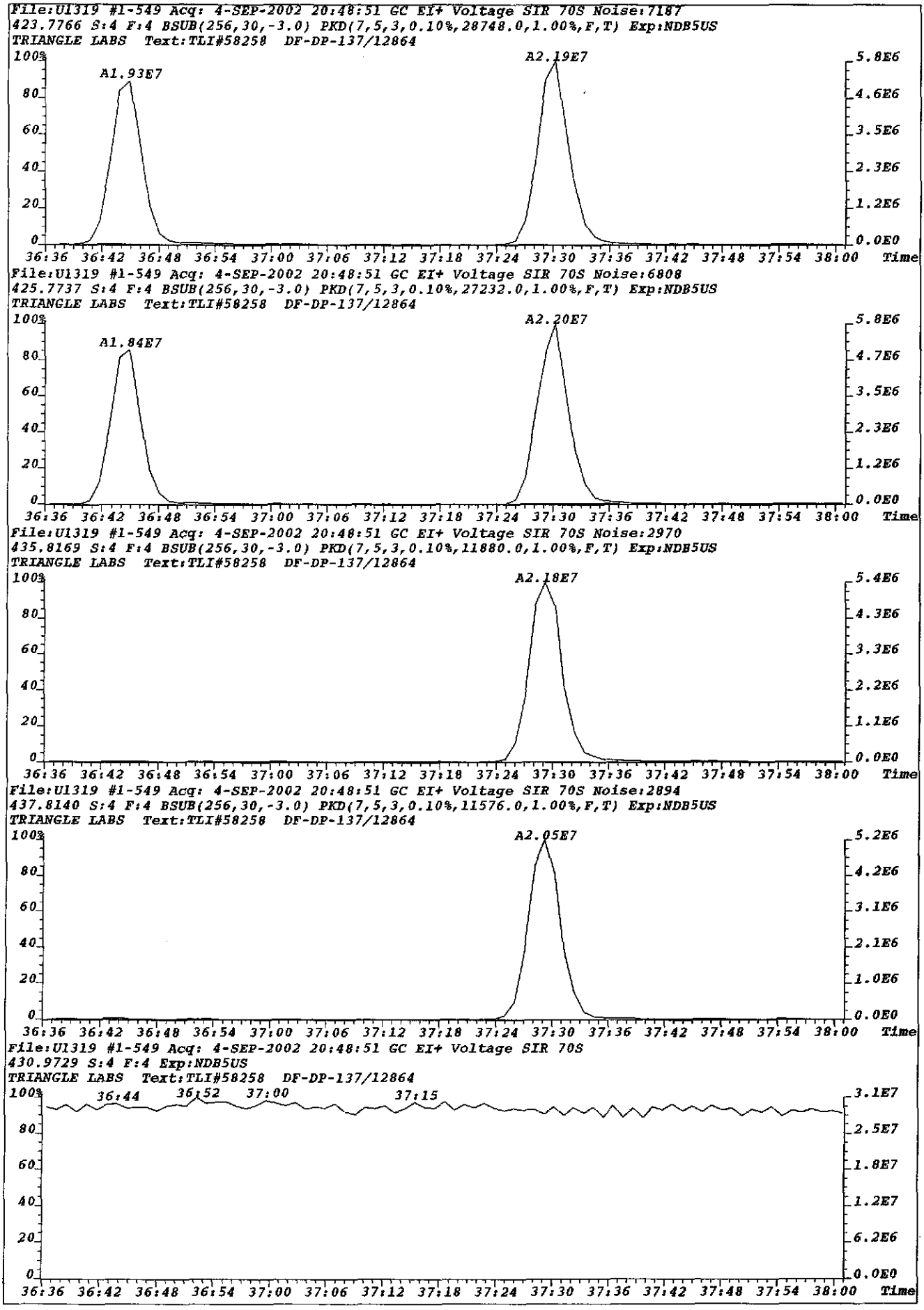
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:4611
403.8529 S:4 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,18444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864

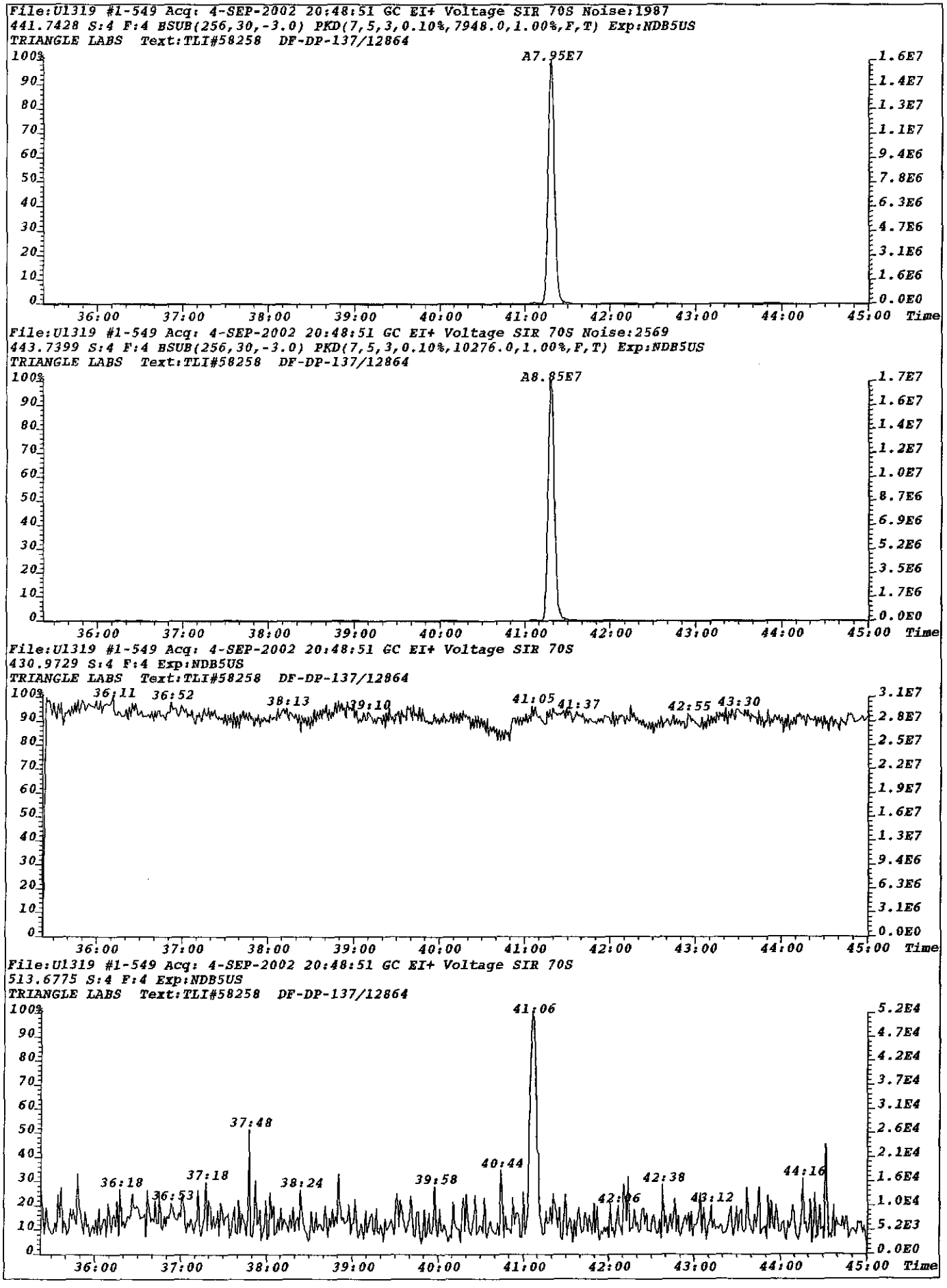


File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
392.9760 S:4 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864

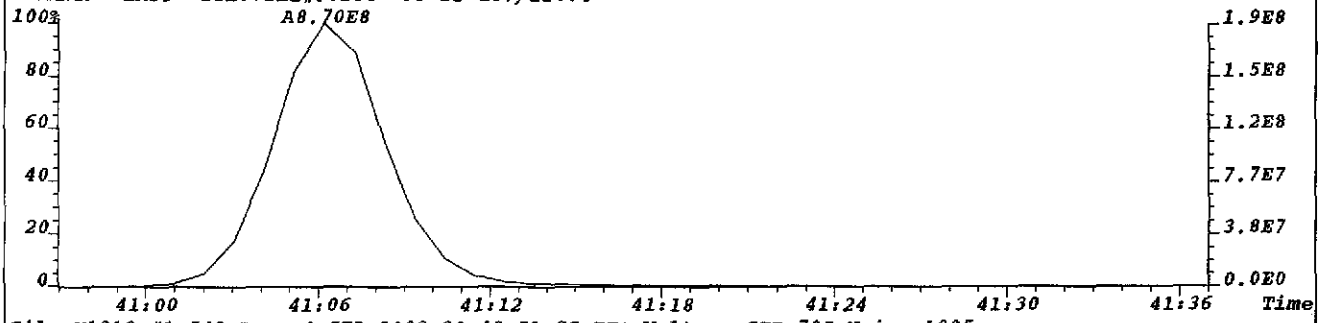



File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:4272
407.7818 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,17088.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A6.19E8
A2.99E8
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:3670
409.7789 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,14680.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A5.91E8
A2.86E8
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2749
417.8253 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10996.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A1.75E7
A1.21E7
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2318
419.8220 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A3.70E7
A2.59E7
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
430.9729 S:4 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
36:27
36:52
37:00
37:15
38:13
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
479.7165 S:4 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
36:29
37:14
37:51
38:12
38:18
Time

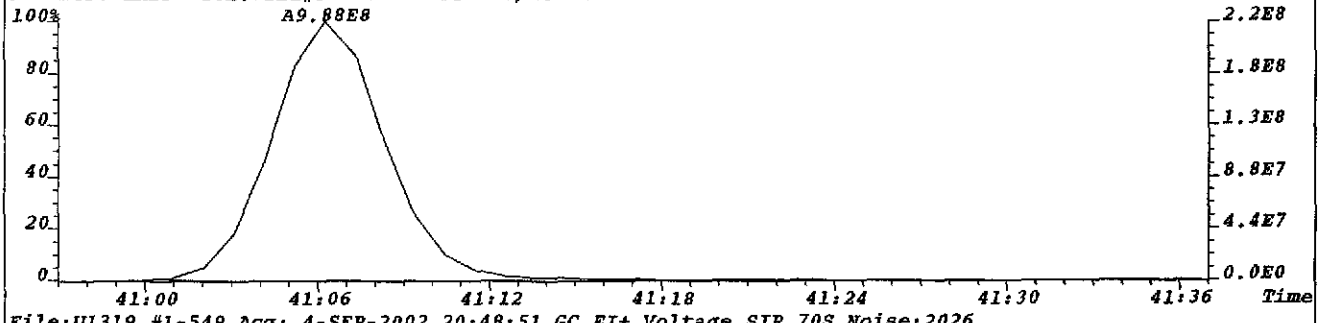

File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:7187
423.7766 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,28748.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A1.93E7
A2.19E7
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:6808
425.7737 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,27232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A1.84E7
A2.20E7
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2970
435.8169 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11880.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A2.18E7
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2894
437.8140 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11576.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A2.05E7
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
430.9729 S:4 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
36:44
36:52
37:00
37:15
Time


File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:1987
441.7428 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7948.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A7.95E7
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2569
443.7399 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
A8.85E7
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
430.9729 S:4 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
36:11
36:52
38:13
39:10
41:05
41:37
42:55
43:30
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
513.6775 S:4 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864
41:06
37:48
36:18
37:18
36:53
38:24
39:58
40:44
42:38
42:06
43:12
44:16
Time

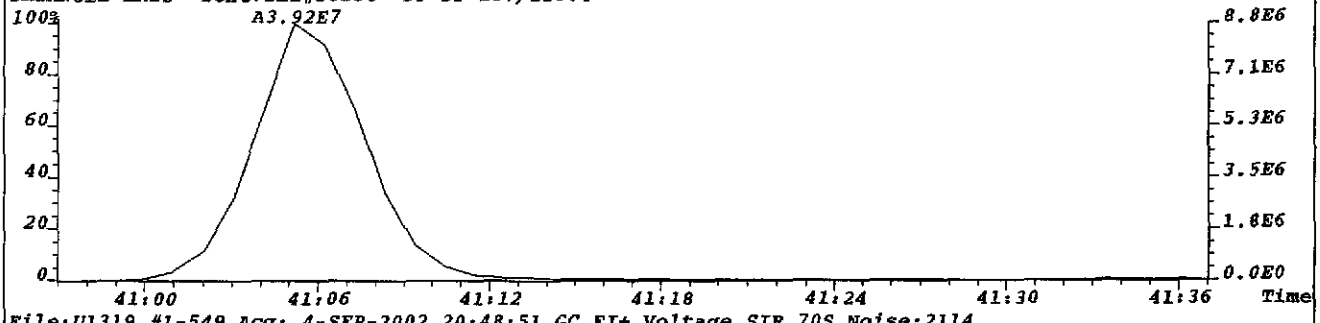
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:1401
457.7377 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,5604.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864



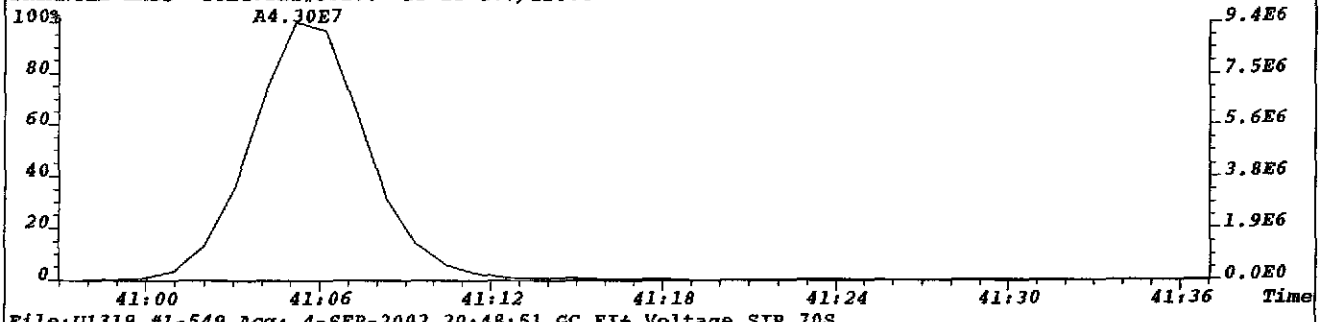
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:1905
459.7348 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7620.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864



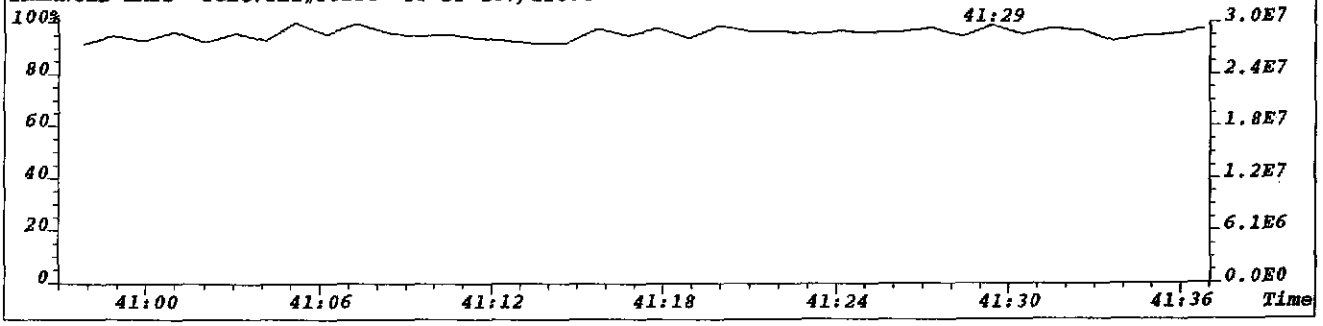
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2026
469.7779 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8104.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864

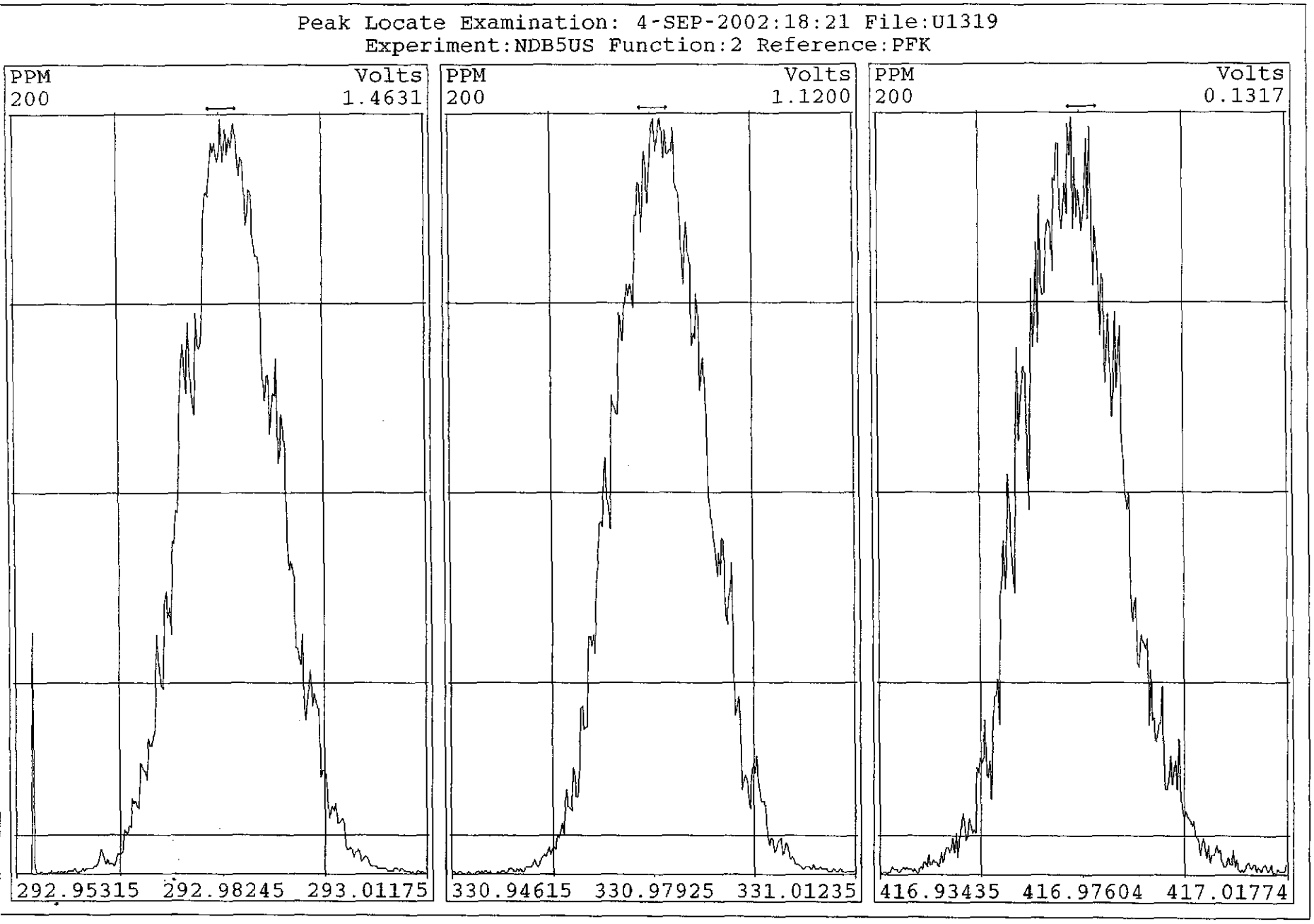


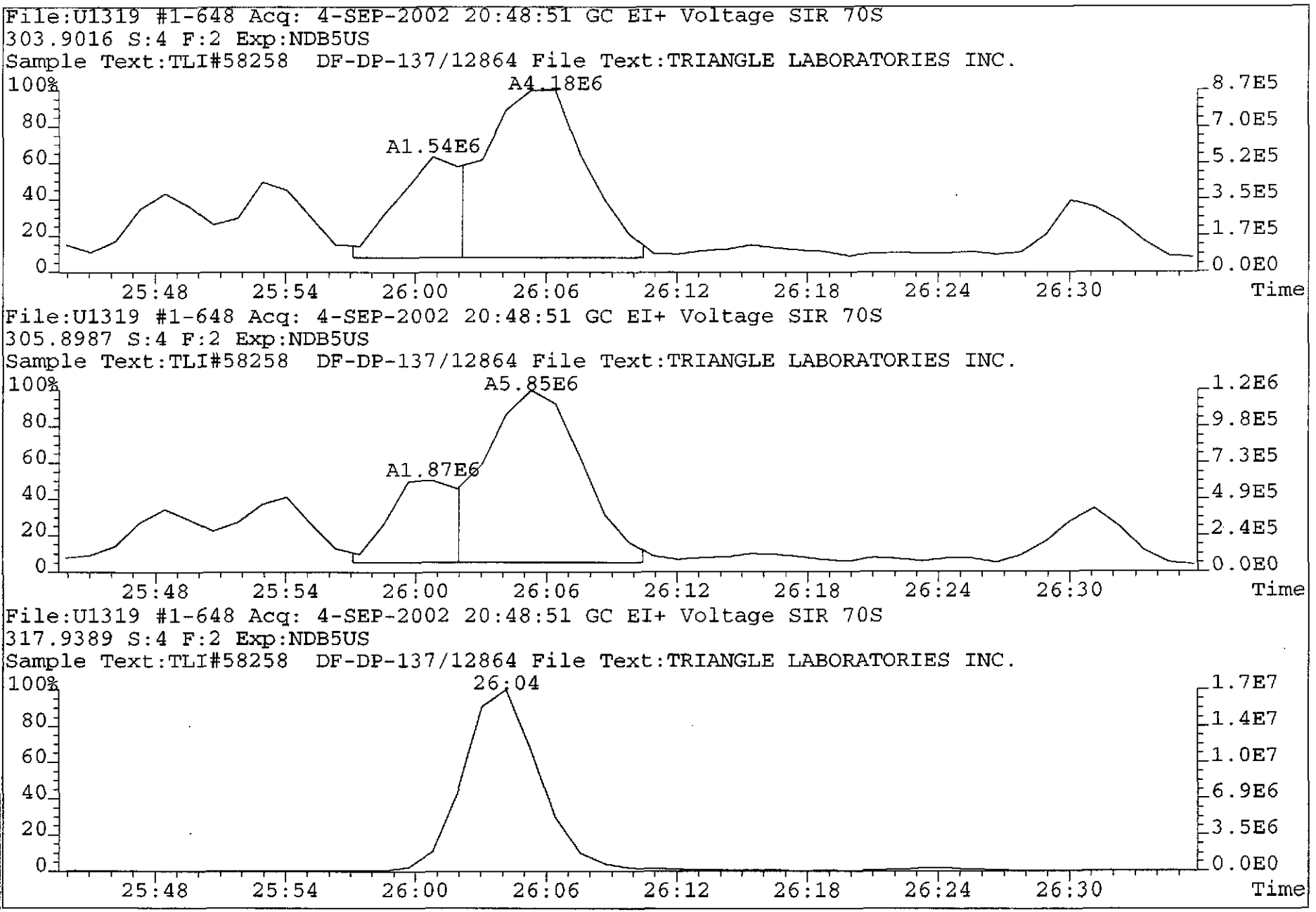
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S Noise:2114
471.7750 S:4 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864

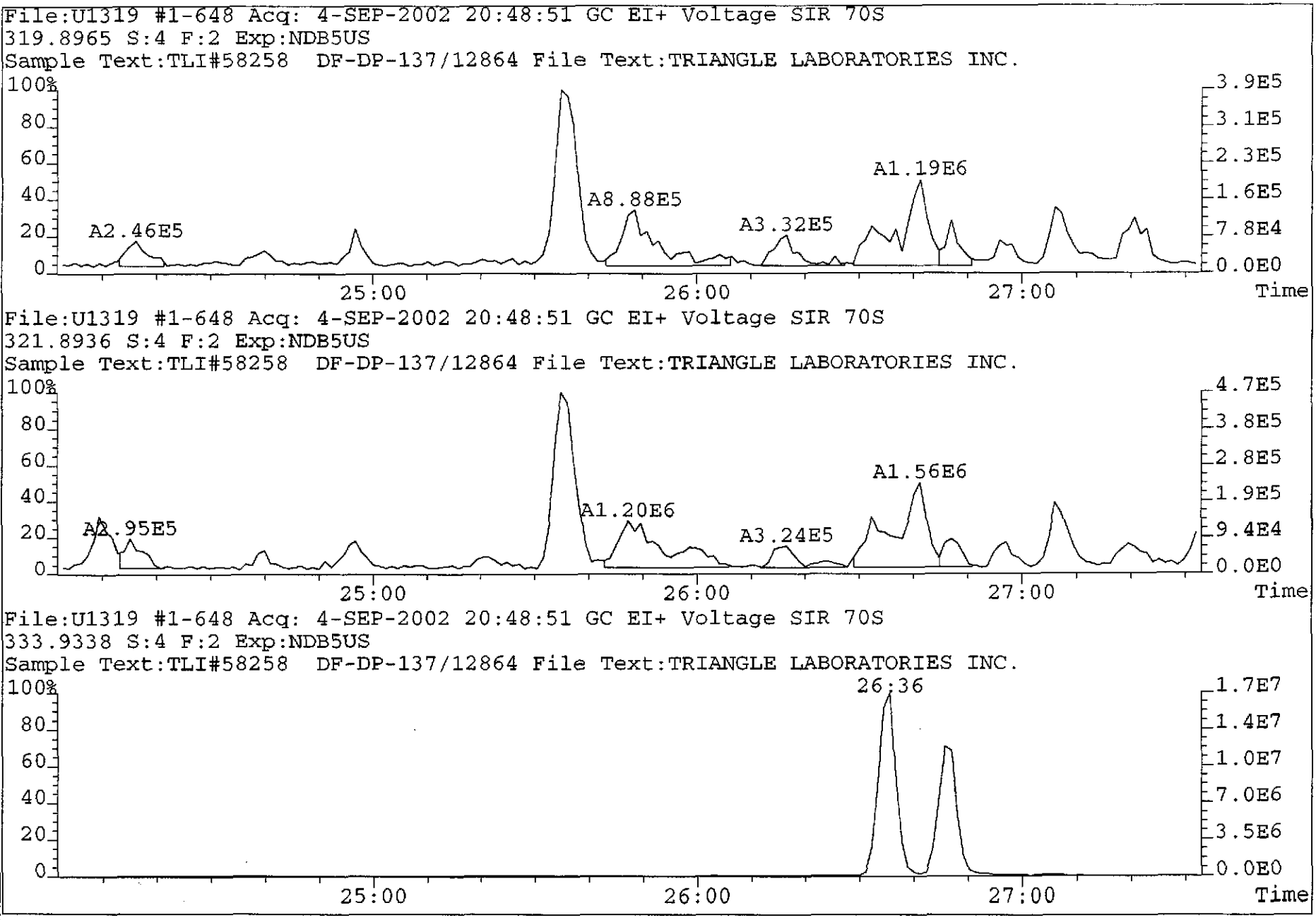


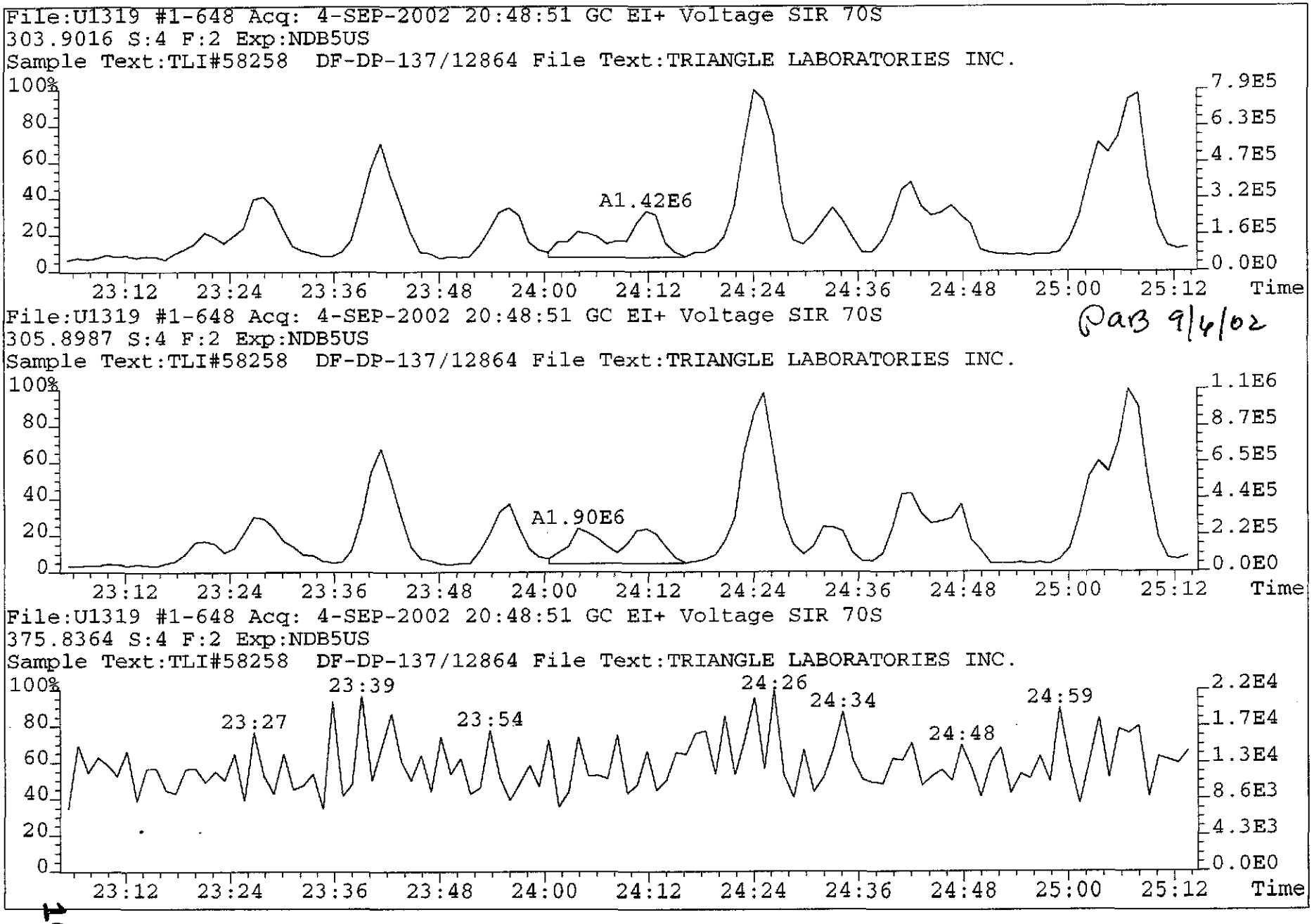
File:U1319 #1-549 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
430.9729 S:4 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-137/12864




Peak Locate Examination: 4-SEP-2002:18:21 File:U1319
Experiment:NDB5US Function:2 Reference:PFK
PPM
200
Volts
1.4631
292.95315 292.98245 293.01175
PPM
200
Volts
1.1200
330.94615 330.97925 331.01235
PPM
200
Volts
0.1317
416.93435 416.97604 417.01774

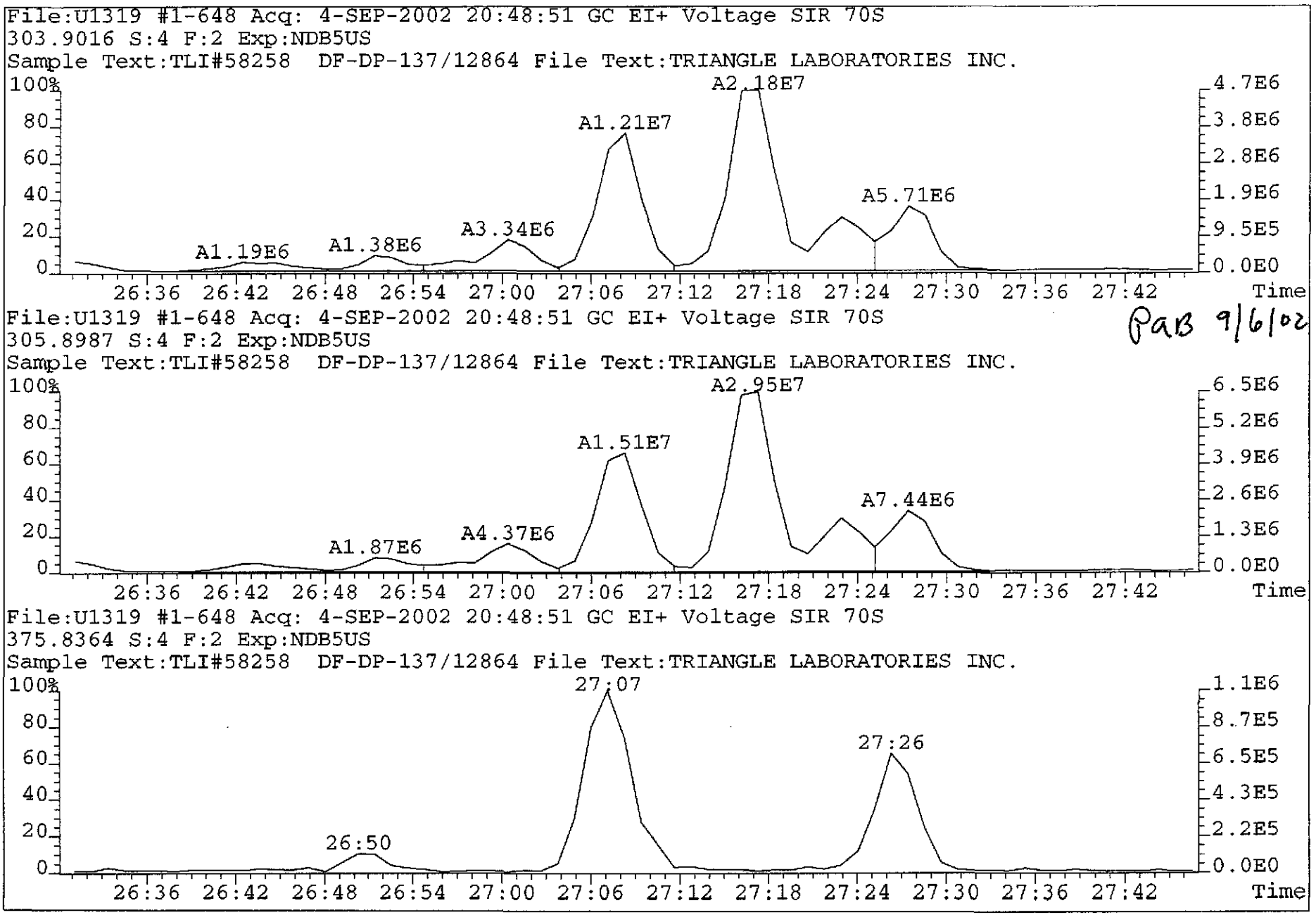

File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
303.9016 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A4.18E6
A1.54E6
100%
80
60
40
20
0
8.7E5
7.0E5
5.2E5
3.5E5
1.7E5
0.0E0
25:48
25:54
26:00
26:06
26:12
26:18
26:24
26:30
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
305.8987 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A5.85E6
A1.87E6
1.2E6
9.8E5
7.3E5
4.9E5
2.4E5
0.0E0
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
317.9389 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
26:04
1.7E7
1.4E7
1.0E7
6.9E6
3.5E6


File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
319.8965 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A2.46E5
A8.88E5
A3.32E5
A1.19E6
3.9E5
3.1E5
2.3E5
1.6E5
7.8E4
0.0E0
25:00
26:00
27:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
321.8936 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A2.95E5
A1.20E6
A3.24E5
A1.56E6
4.7E5
3.8E5
2.8E5
1.9E5
9.4E4
0.0E0
25:00
26:00
27:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
333.9338 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
26:36
1.7E7
1.4E7
1.0E7
7.0E6
3.5E6
0.0E0
25:00
26:00
27:00
Time


File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
303.9016 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A1.42E6
7.9E5
6.3E5
4.7E5
3.2E5
1.6E5
0.0E0
23:12 23:24 23:36 23:48 24:00 24:12 24:24 24:36 24:48 25:00 25:12 Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
305.8987 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A1.90E6
1.1E6
8.7E5
6.5E5
4.4E5
2.2E5
0.0E0
23:12 23:24 23:36 23:48 24:00 24:12 24:24 24:36 24:48 25:00 25:12 Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
375.8364 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
23:27
23:39
23:54
24:26
24:34
24:48
24:59
2.2E4
1.7E4
1.3E4
8.6E3
4.3E3
0.0E0
23:12 23:24 23:36 23:48 24:00 24:12 24:24 24:36 24:48 25:00 25:12 Time

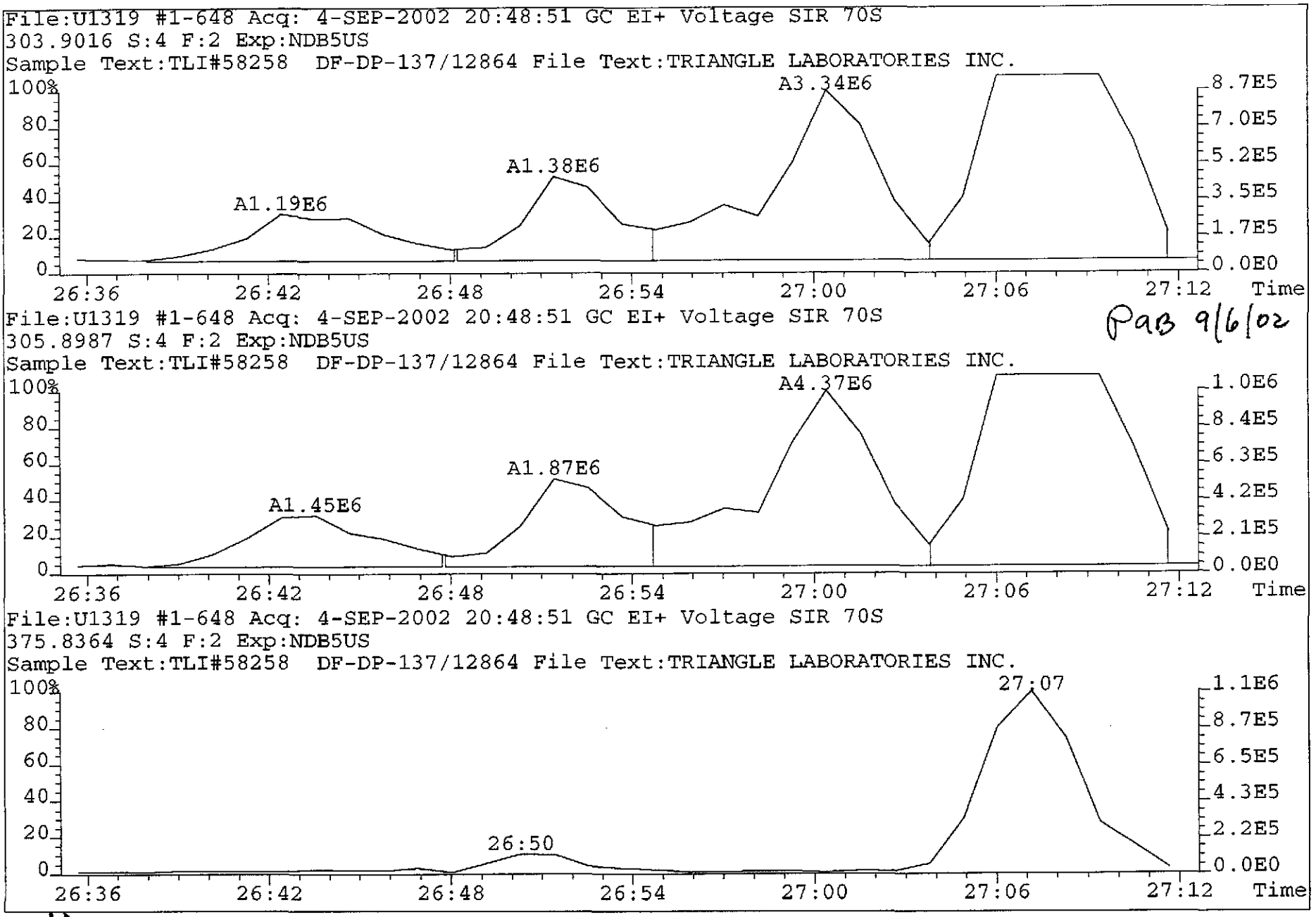
PaB 9/4/02

100


File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
303.9016 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A1.19E6
A1.38E6
A3.34E6
A1.21E7
A2.18E7
A5.71E6
4.7E6
3.8E6
2.8E6
1.9E6
9.5E5
0.0E0
26:36 26:42 26:48 26:54 27:00 27:06 27:12 27:18 27:24 27:30 27:36 27:42
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
305.8987 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A1.87E6
A4.37E6
A1.51E7
A2.95E7
A7.44E6
6.5E6
5.2E6
3.9E6
2.6E6
1.3E6
0.0E0
26:36 26:42 26:48 26:54 27:00 27:06 27:12 27:18 27:24 27:30 27:36 27:42
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
375.8364 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
26:50
27:07
27:26
1.1E6
8.7E5
6.5E5
4.3E5
2.2E5
0.0E0
26:36 26:42 26:48 26:54 27:00 27:06 27:12 27:18 27:24 27:30 27:36 27:42
Time

PAB 9/6/02

101


File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
303.9016 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A1.19E6
A1.38E6
A3.34E6
26:36
26:42
26:48
26:54
27:00
27:06
27:12
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
305.8987 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A1.45E6
A1.87E6
A4.37E6
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
375.8364 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
26:50
27:07

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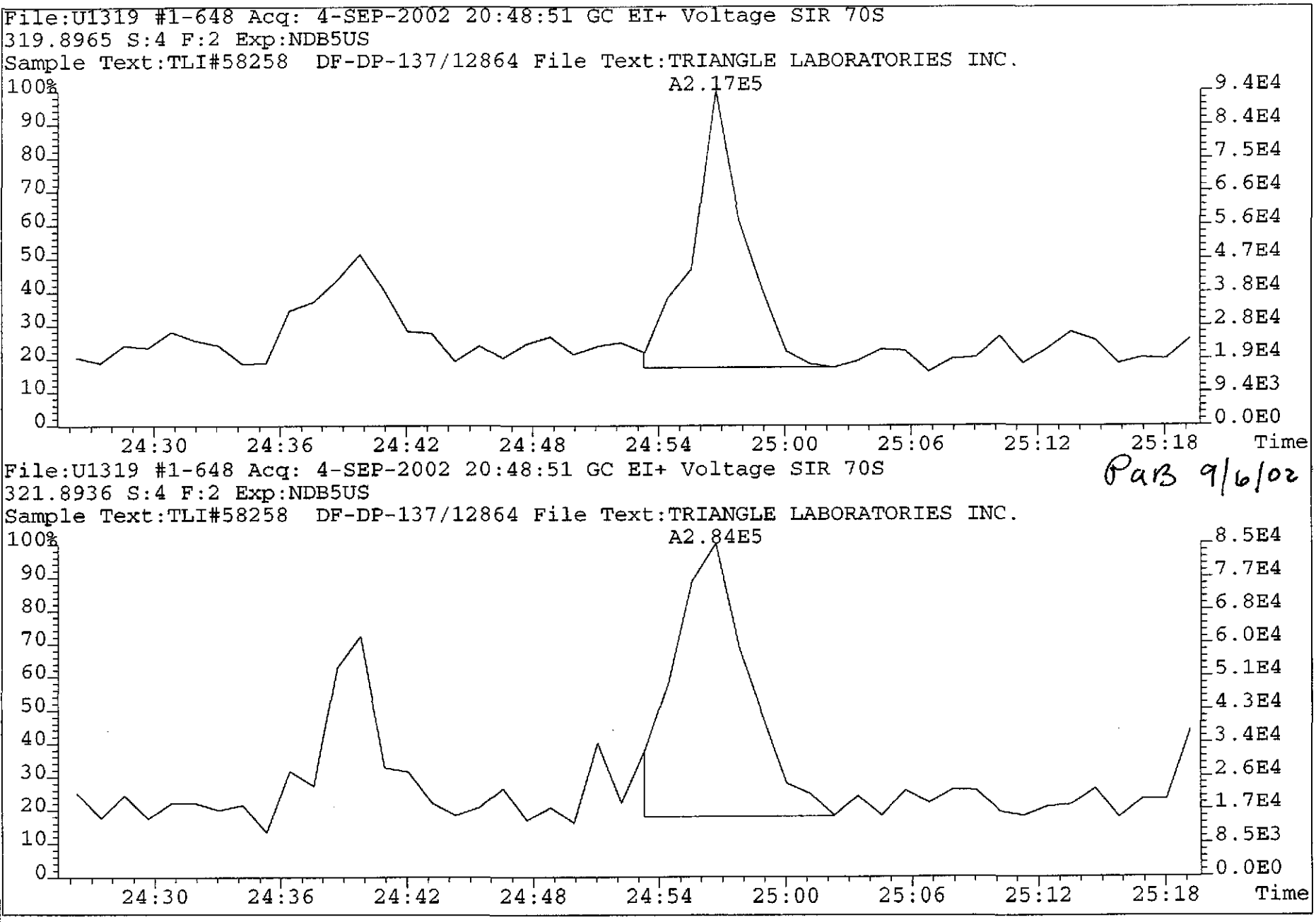
102


File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
319.8965 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A2.17E5
100%
90
80
70
60
50
40
30
20
10
0
9.4E4
8.4E4
7.5E4
6.6E4
5.6E4
4.7E4
3.8E4
2.8E4
1.9E4
9.4E3
0.0E0
24:30
24:36
24:42
24:48
24:54
25:00
25:06
25:12
25:18
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
321.8936 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A2.84E5
100%
90
80
70
60
50
40
30
20
10
0
8.5E4
7.7E4
6.8E4
6.0E4
5.1E4
4.3E4
3.4E4
2.6E4
1.7E4
8.5E3
0.0E0
24:30
24:36
24:42
24:48
24:54
25:00
25:06
25:12
25:18
Time

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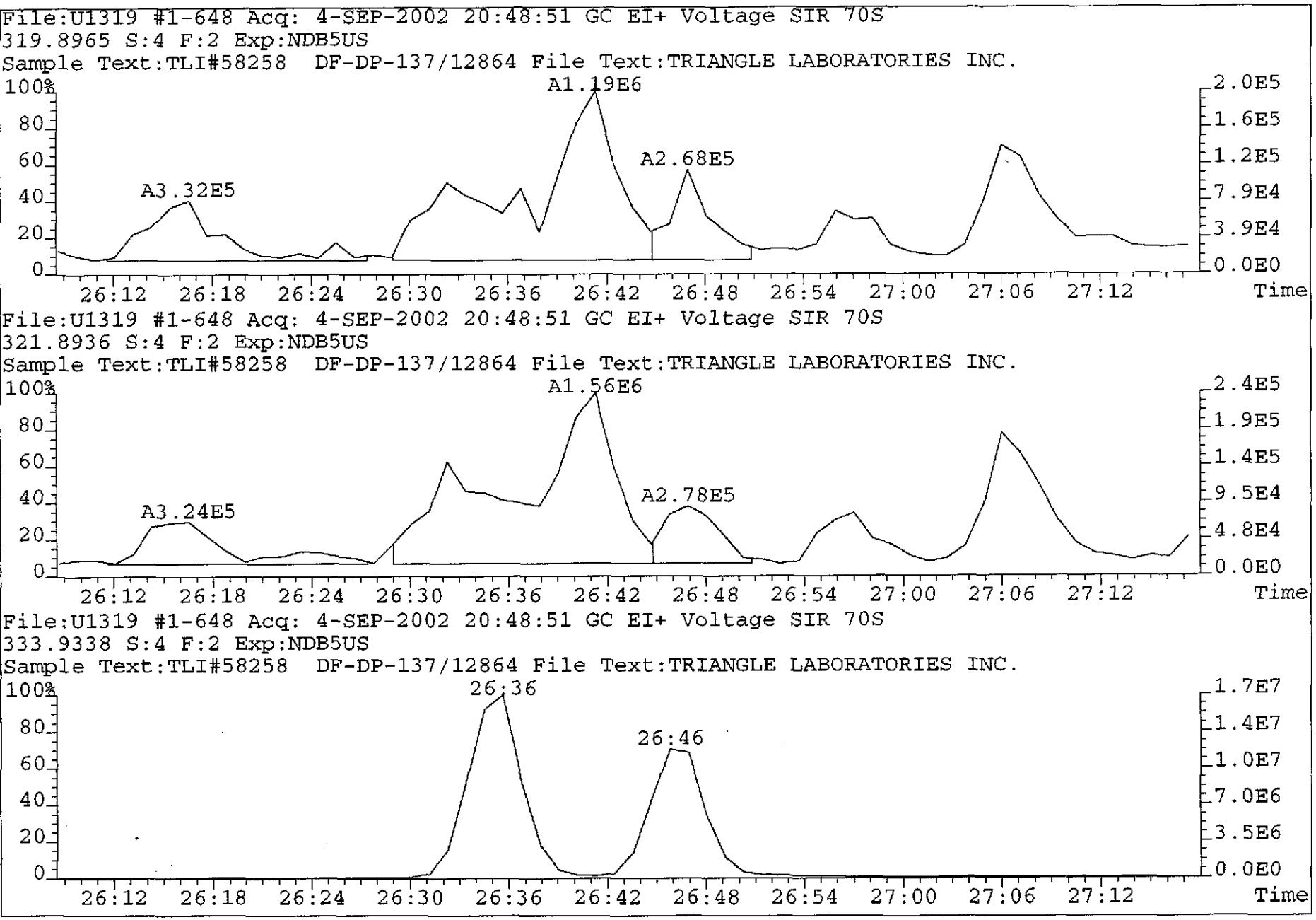
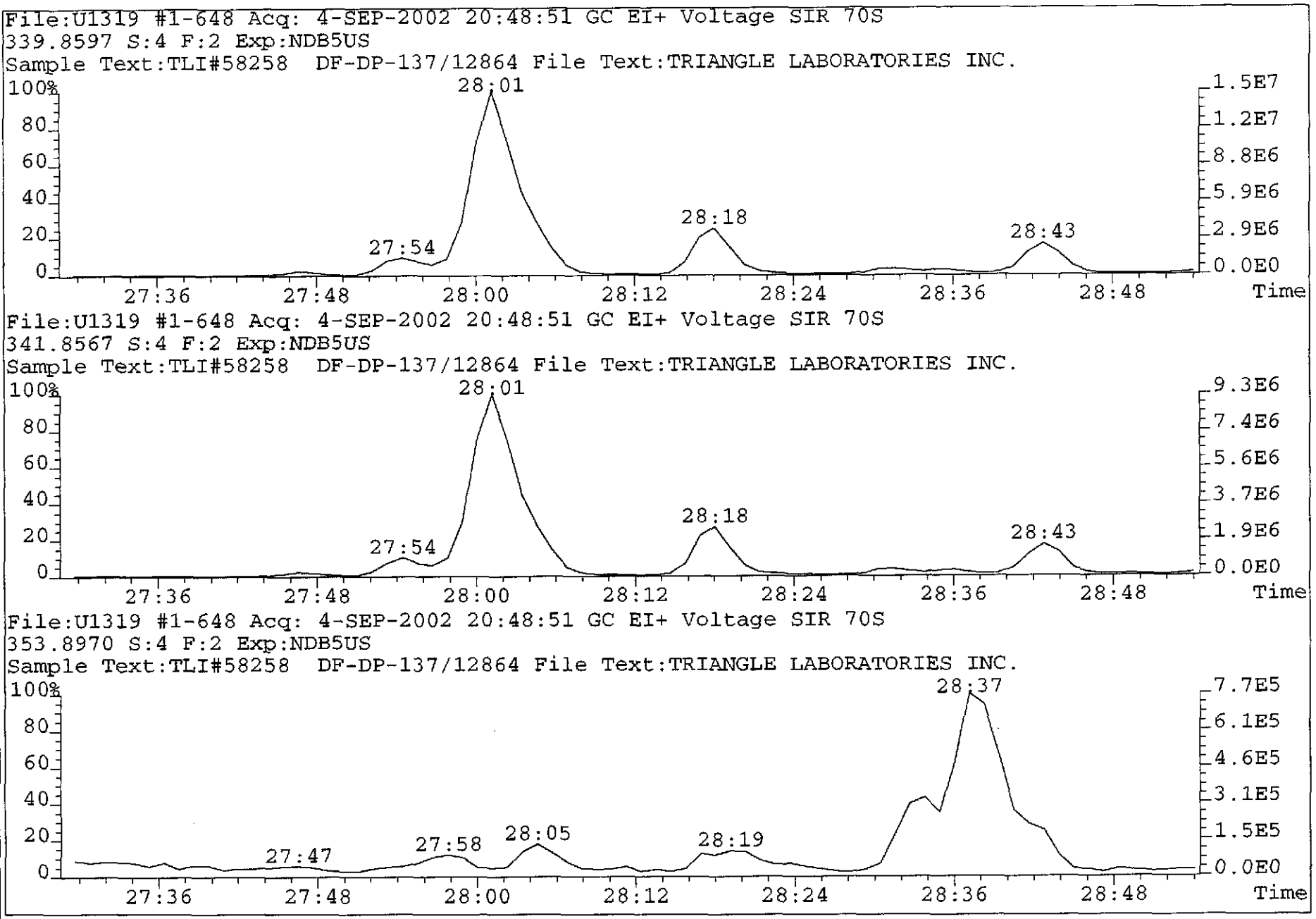
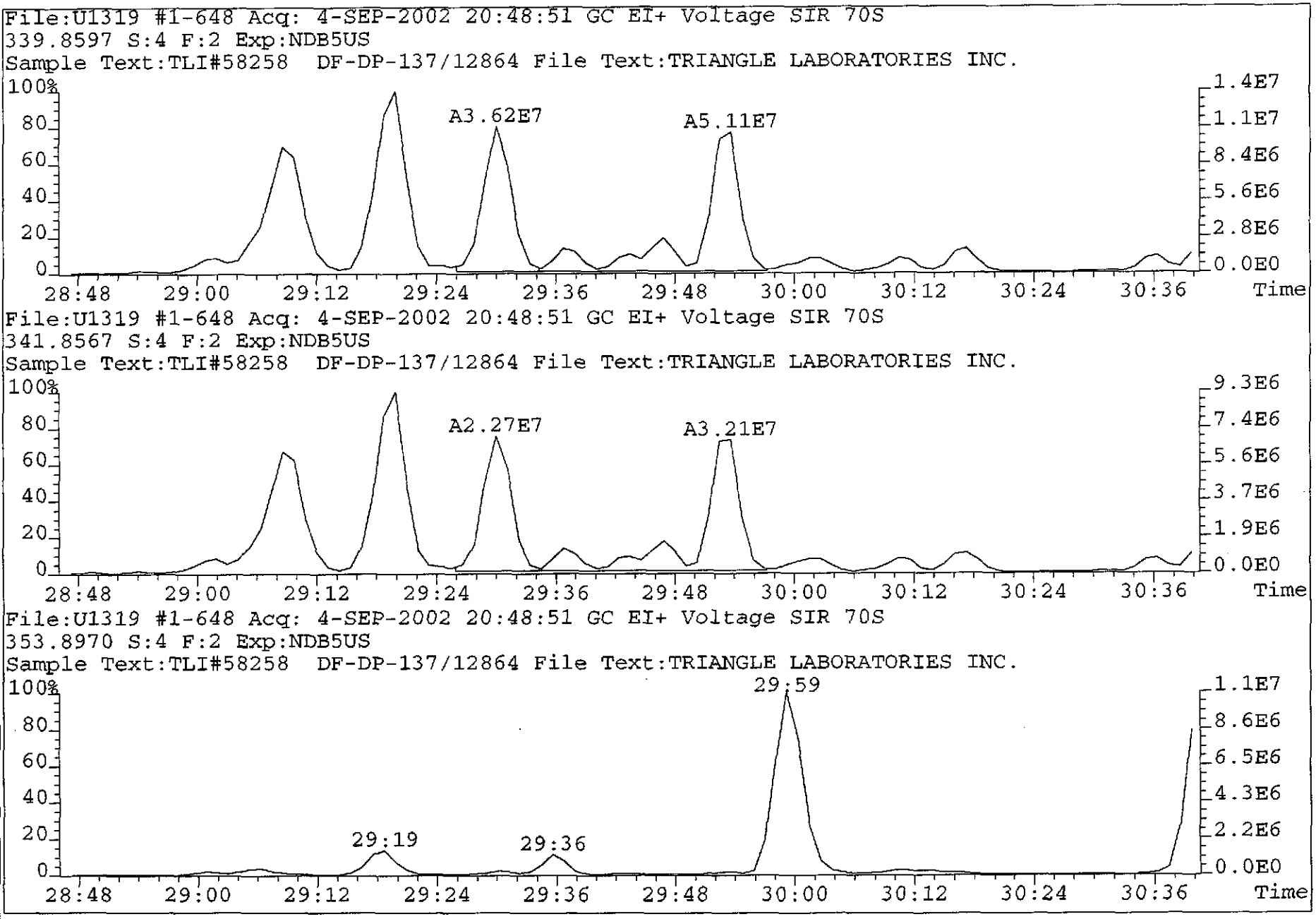
103

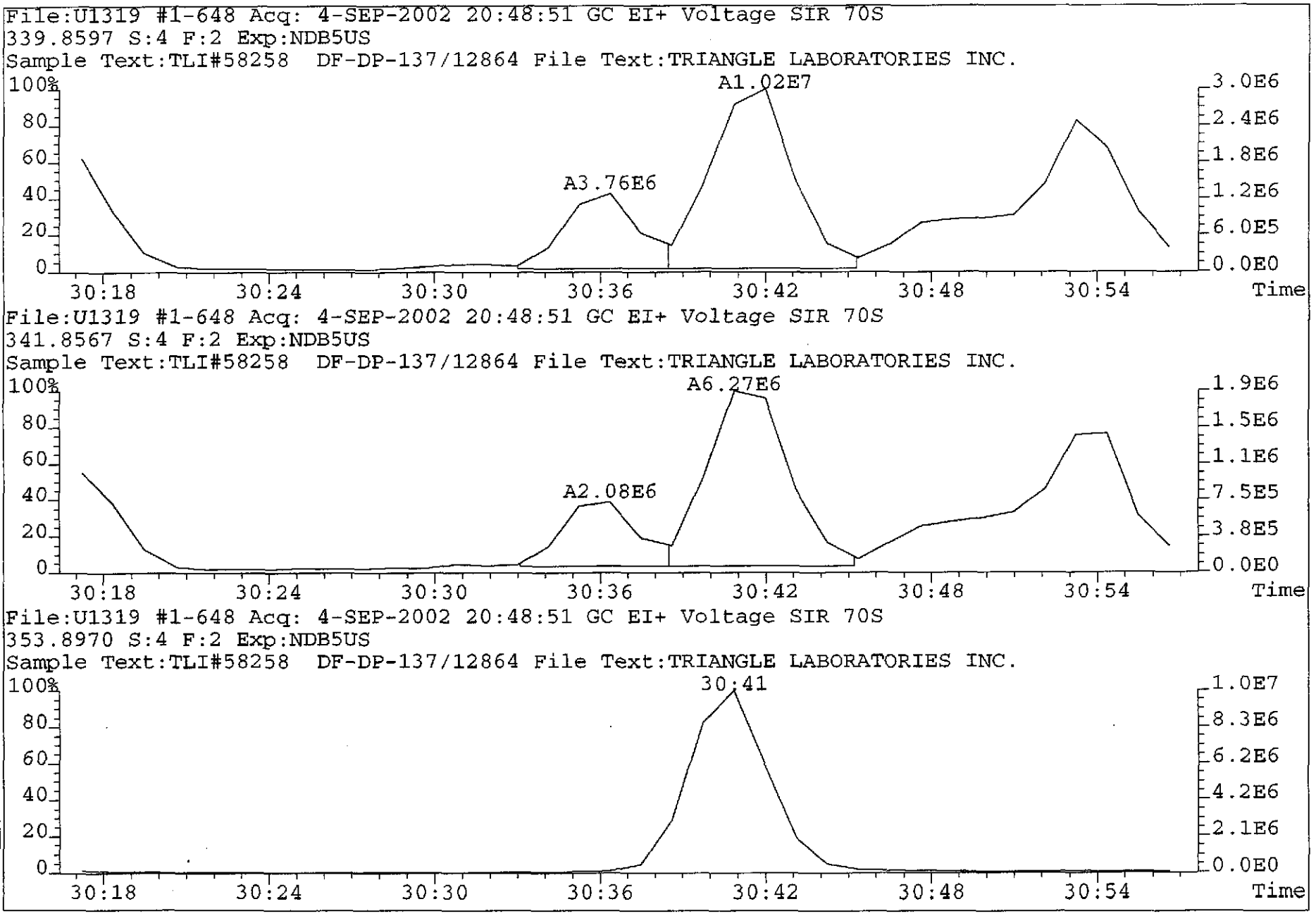

File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
319.8965 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A1.19E6
A2.68E5
A3.32E5
2.0E5
1.6E5
1.2E5
7.9E4
3.9E4
0.0E0
26:12 26:18 26:24 26:30 26:36 26:42 26:48 26:54 27:00 27:06 27:12 Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
321.8936 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A1.56E6
A2.78E5
A3.24E5
2.4E5
1.9E5
1.4E5
9.5E4
4.8E4
0.0E0
26:12 26:18 26:24 26:30 26:36 26:42 26:48 26:54 27:00 27:06 27:12 Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
333.9338 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
26:36
26:46
1.7E7
1.4E7
1.0E7
7.0E6
3.5E6
0.0E0
26:12 26:18 26:24 26:30 26:36 26:42 26:48 26:54 27:00 27:06 27:12 Time

104

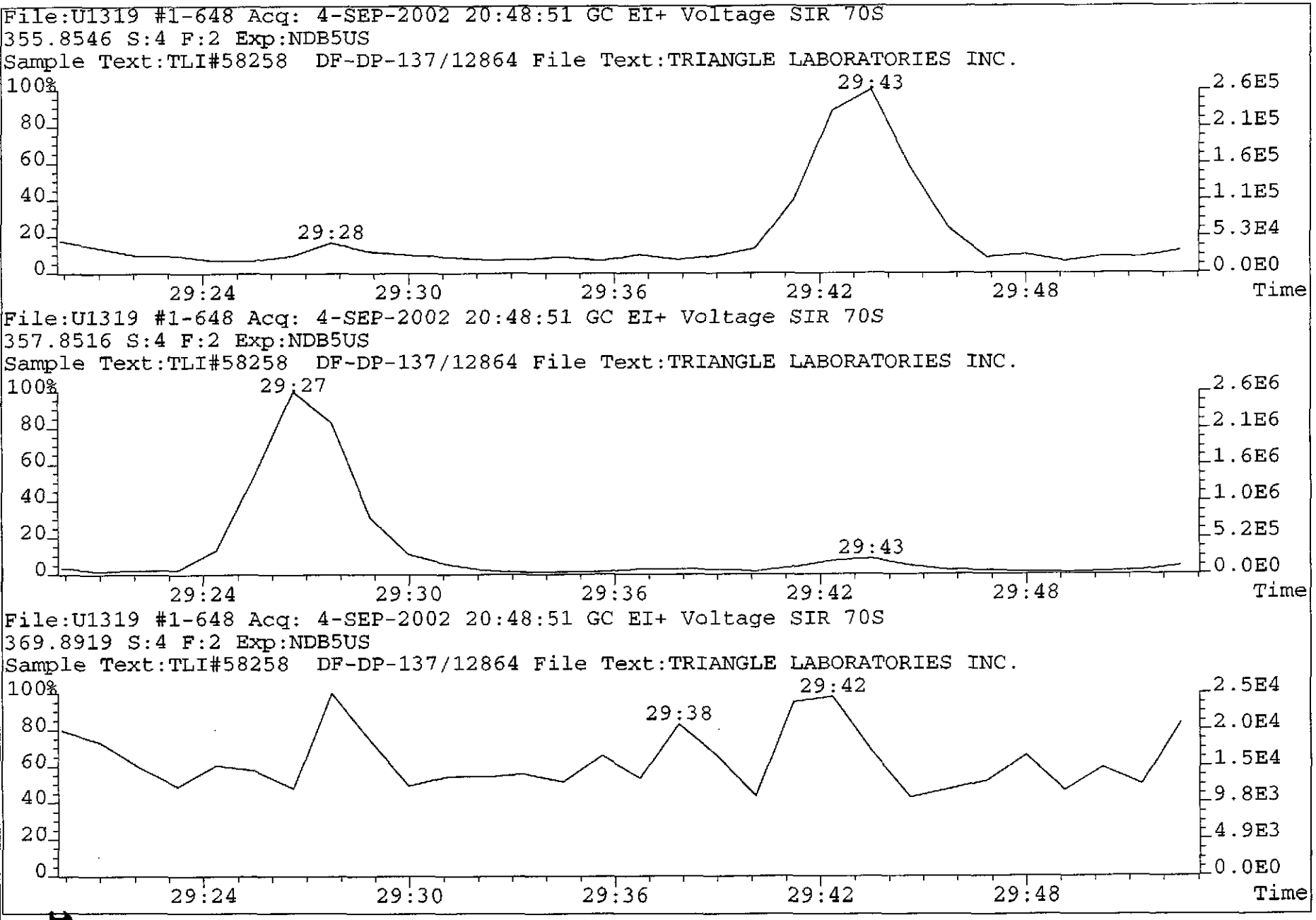

File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
339.8597 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
28:01
27:54
28:18
28:43
1.5E7
1.2E7
8.8E6
5.9E6
2.9E6
0.0E0
27:36
27:48
28:00
28:12
28:24
28:36
28:48
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
341.8567 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
28:01
27:54
28:18
28:43
9.3E6
7.4E6
5.6E6
3.7E6
1.9E6
0.0E0
27:36
27:48
28:00
28:12
28:24
28:36
28:48
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
353.8970 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
28:37
27:47
27:58
28:05
28:19
7.7E5
6.1E5
4.6E5
3.1E5
1.5E5
0.0E0
27:36
27:48
28:00
28:12
28:24
28:36
28:48
Time

105

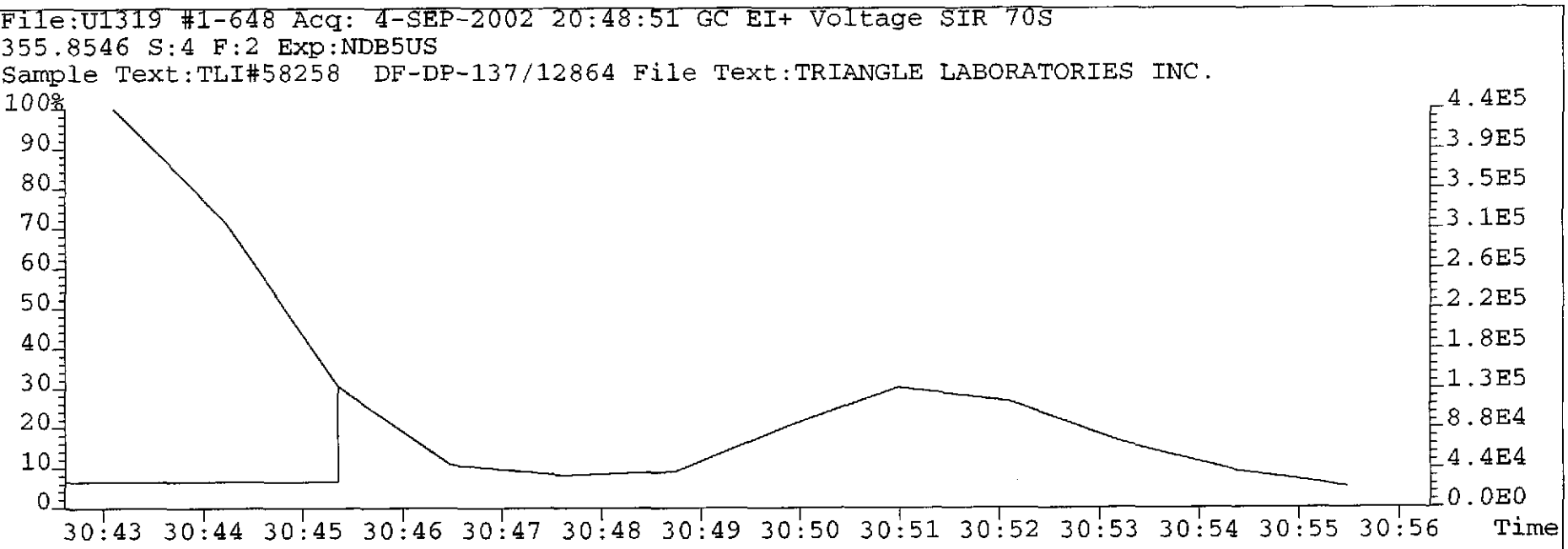

File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
339.8597 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A3.62E7
A5.11E7
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
341.8567 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A2.27E7
A3.21E7
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
353.8970 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
29:59
29:19
29:36
Time

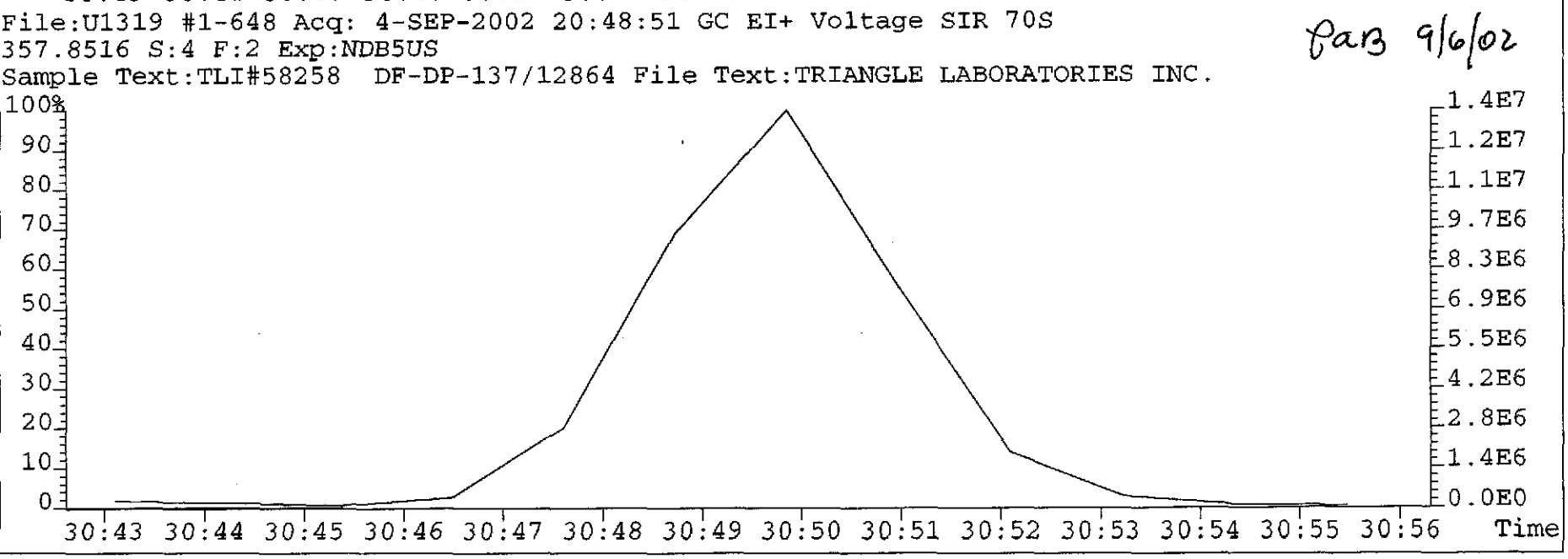

File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
339.8597 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A1.02E7
A3.76E6
100%
80
60
40
20
0
3.0E6
2.4E6
1.8E6
1.2E6
6.0E5
0.0E0
30:18
30:24
30:30
30:36
30:42
30:48
30:54
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
341.8567 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A6.27E6
A2.08E6
1.9E6
1.5E6
1.1E6
7.5E5
3.8E5
0.0E0
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
353.8970 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
30:41
1.0E7
8.3E6
6.2E6
4.2E6
2.1E6
0.0E0

107


File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
355.8546 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
29:28
29:43
2.6E5
2.1E5
1.6E5
1.1E5
5.3E4
0.0E0
29:24
29:30
29:36
29:42
29:48
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
357.8516 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
29:27
29:43
2.6E6
2.1E6
1.6E6
1.0E6
5.2E5
0.0E0
29:24
29:30
29:36
29:42
29:48
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
369.8919 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
29:38
29:42
2.5E4
2.0E4
1.5E4
9.8E3
4.9E3
0.0E0
29:24
29:30
29:36
29:42
29:48
Time

108


File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
355.8546 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
90
80
70
60
50
40
30
20
10
0
4.4E5
3.9E5
3.5E5
3.1E5
2.6E5
2.2E5
1.8E5
1.3E5
8.8E4
4.4E4
0.0E0
30:43 30:44 30:45 30:46 30:47 30:48 30:49 30:50 30:51 30:52 30:53 30:54 30:55 30:56
Time


File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
357.8516 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
90
80
70
60
50
40
30
20
10
0
1.4E7
1.2E7
1.1E7
9.7E6
8.3E6
6.9E6
5.5E6
4.2E6
2.8E6
1.4E6
0.0E0
30:43 30:44 30:45 30:46 30:47 30:48 30:49 30:50 30:51 30:52 30:53 30:54 30:55 30:56
Time

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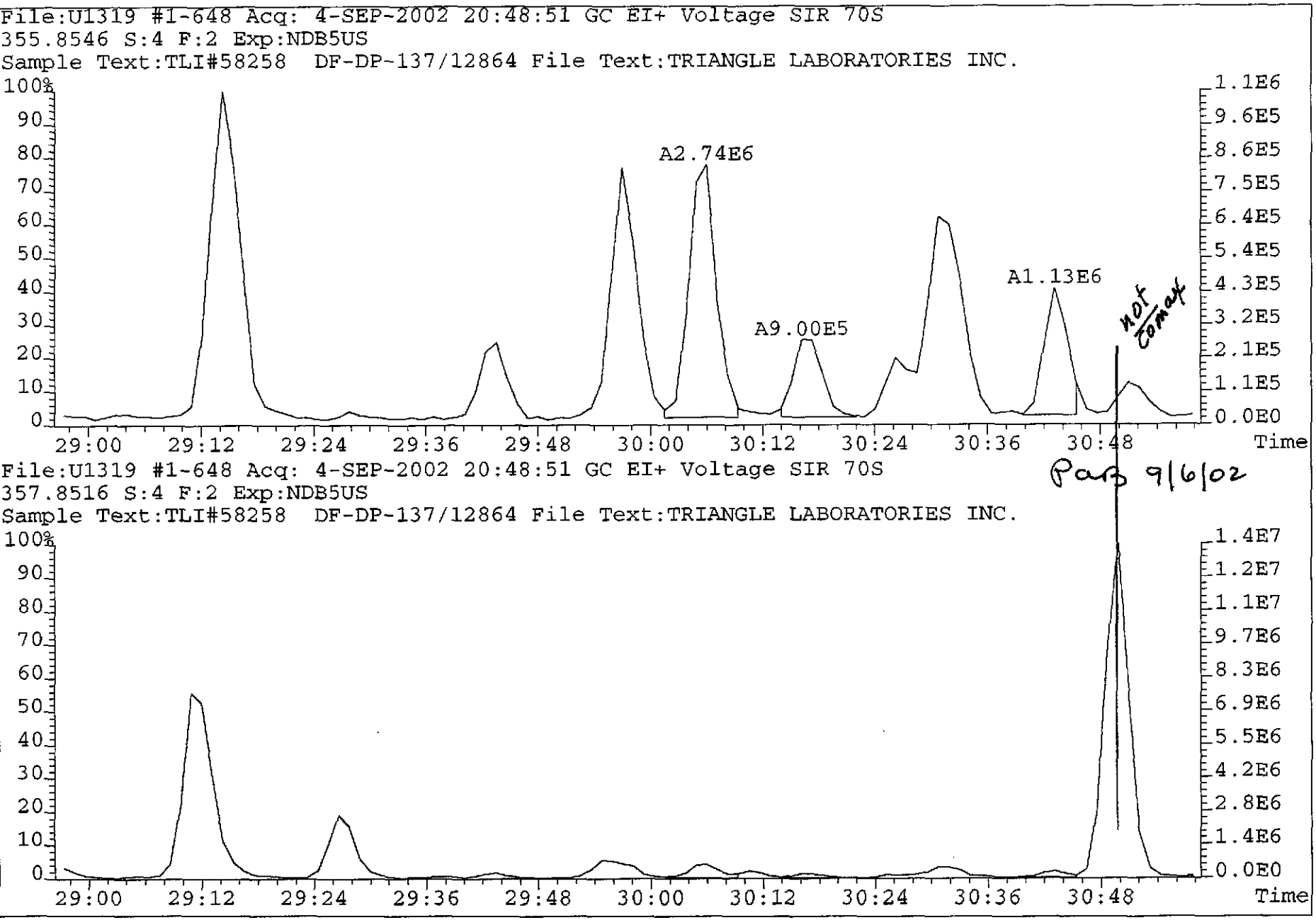
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
355.8546 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A2.74E6
A9.00E5
A1.13E6
not
Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
357.8516 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
Time

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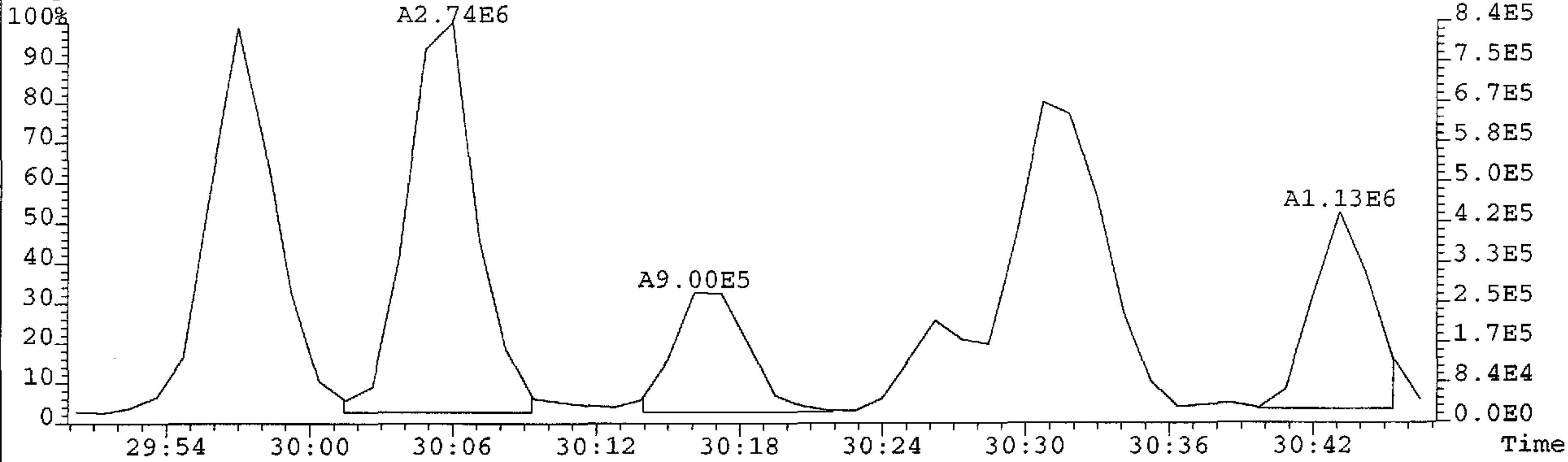
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
355.8546 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.



File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
357.8516 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.

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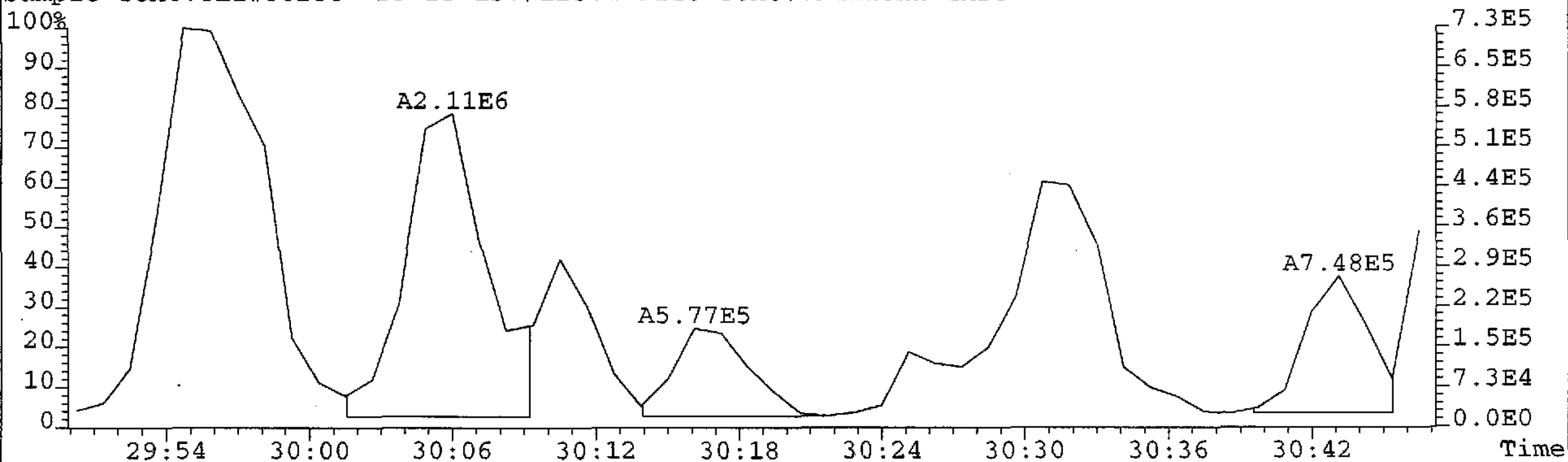

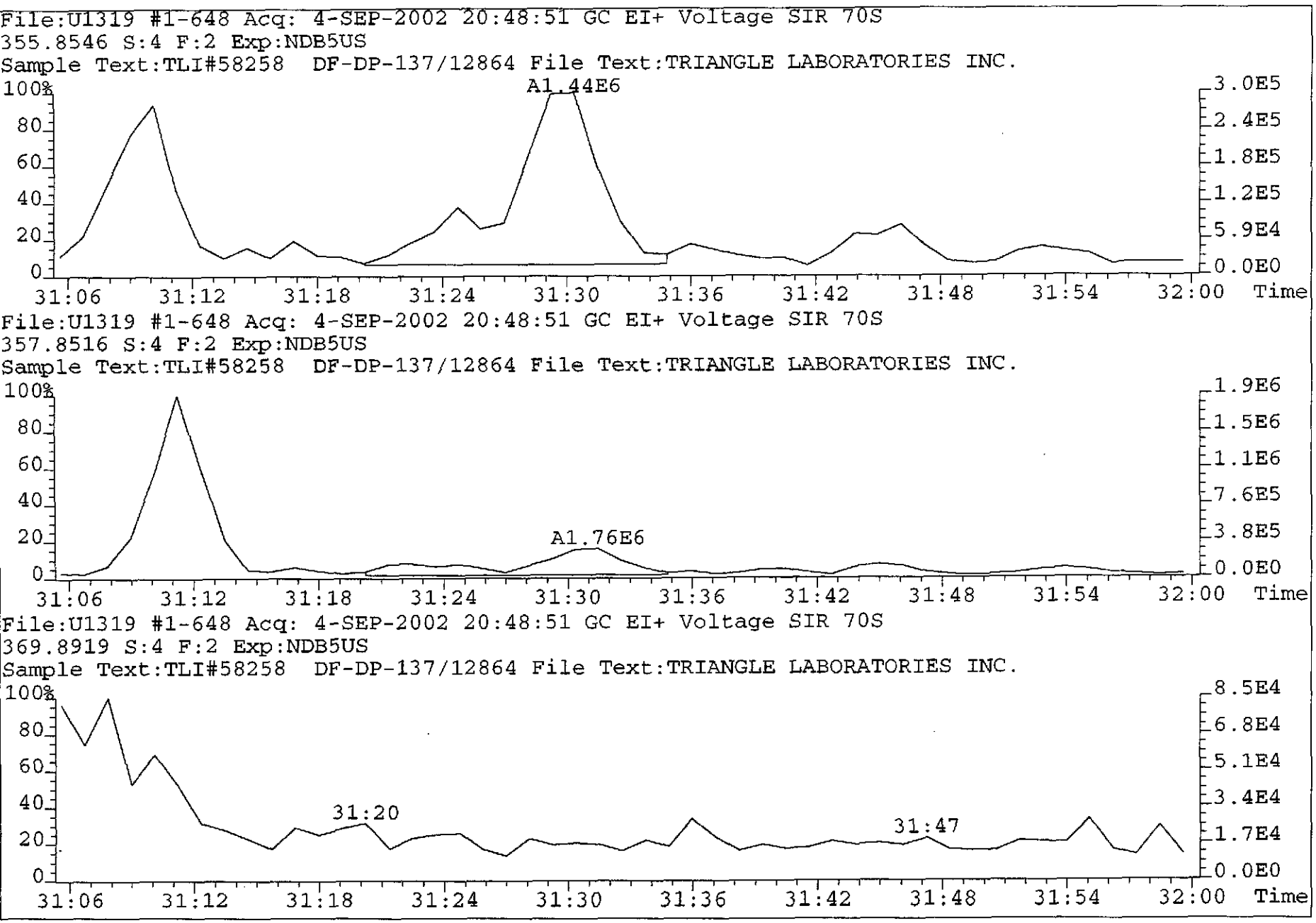
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
355.8546 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A1.44E6
100%
80
60
40
20
0
3.0E5
2.4E5
1.8E5
1.2E5
5.9E4
0.0E0
31:06 31:12 31:18 31:24 31:30 31:36 31:42 31:48 31:54 32:00 Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
357.8516 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A1.76E6
100%
80
60
40
20
0
1.9E6
1.5E6
1.1E6
7.6E5
3.8E5
0.0E0
31:06 31:12 31:18 31:24 31:30 31:36 31:42 31:48 31:54 32:00 Time
File:U1319 #1-648 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
369.8919 S:4 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
31:20
31:47
100%
80
60
40
20
0
8.5E4
6.8E4
5.1E4
3.4E4
1.7E4
0.0E0
31:06 31:12 31:18 31:24 31:30 31:36 31:42 31:48 31:54 32:00 Time

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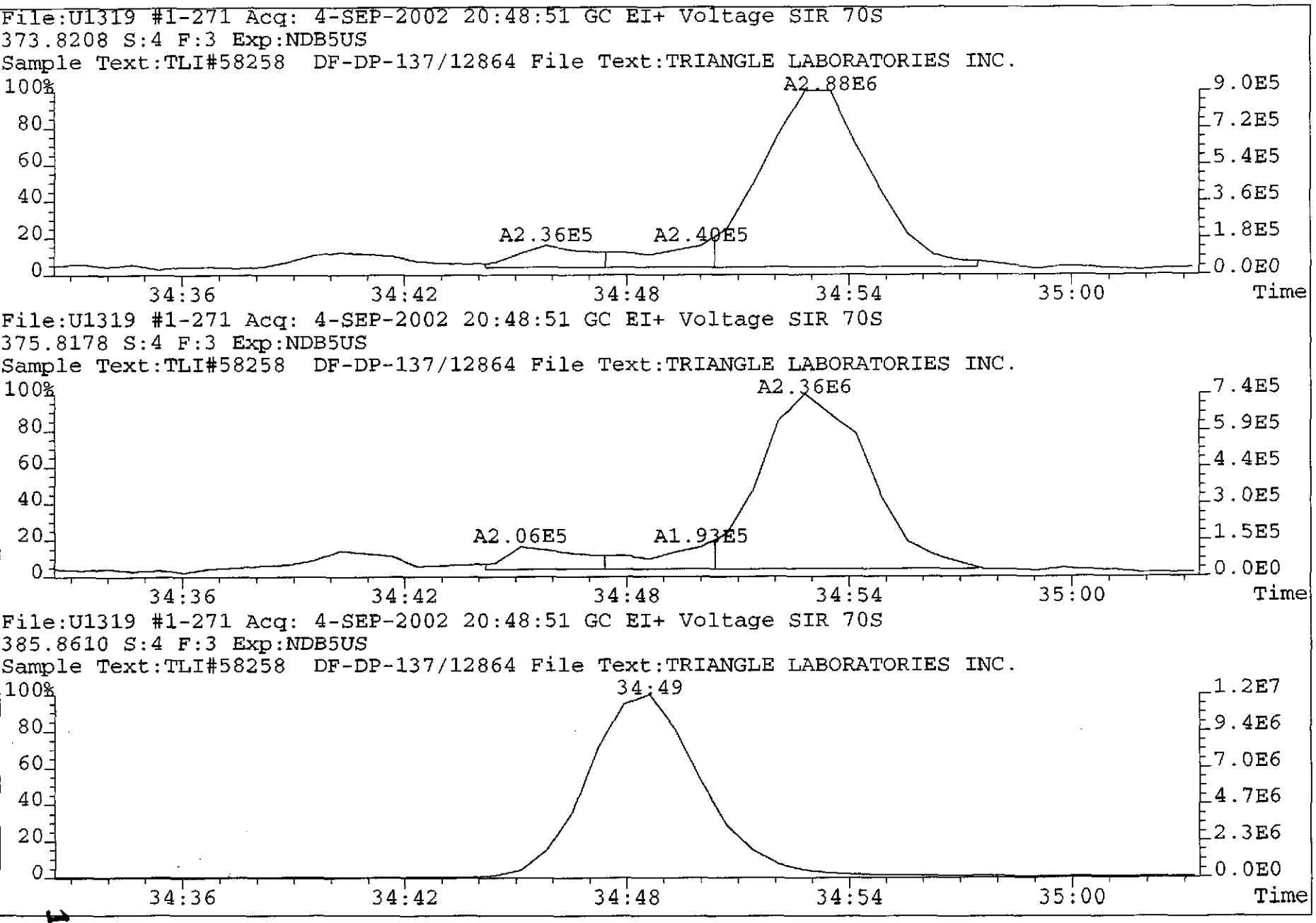
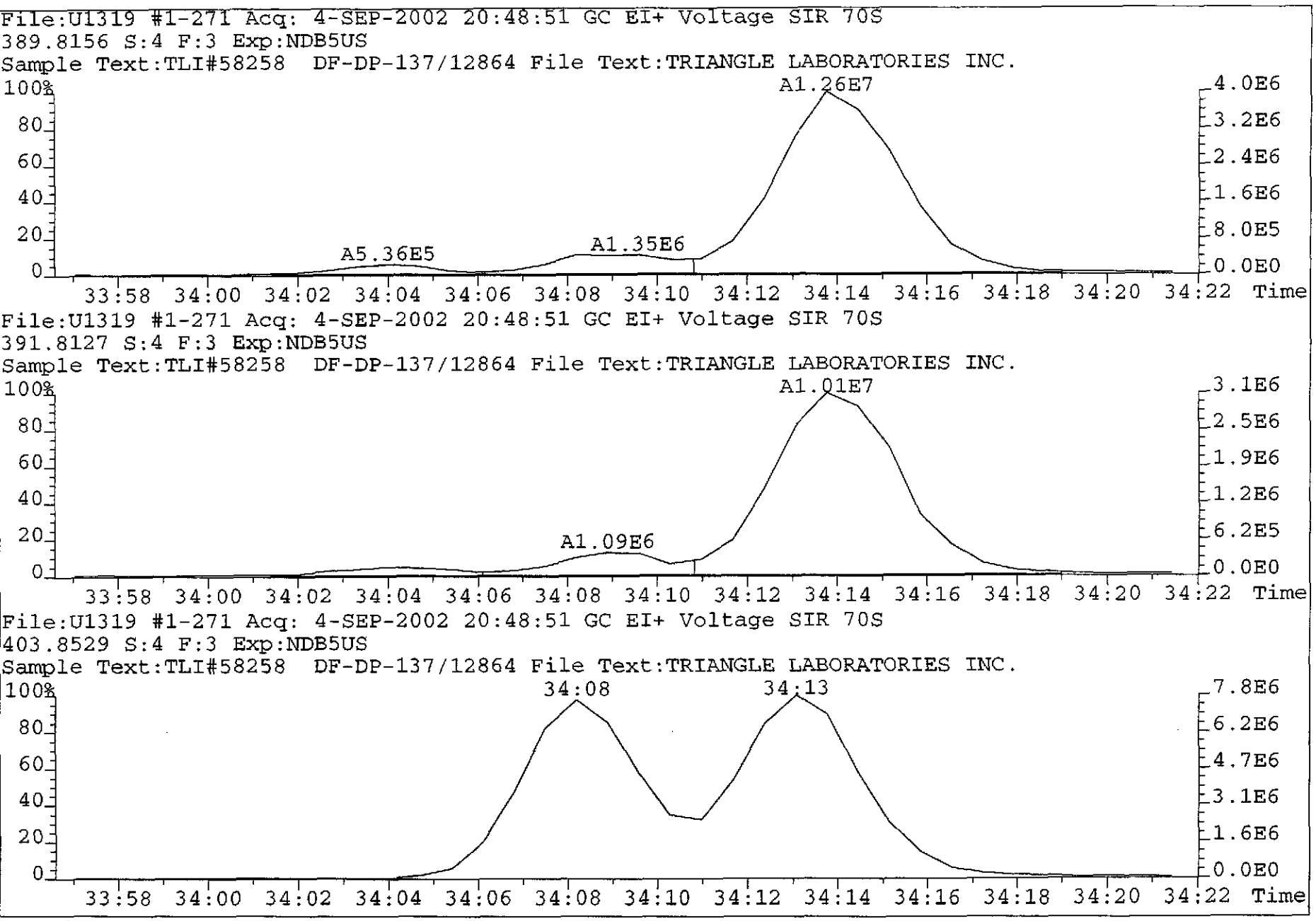
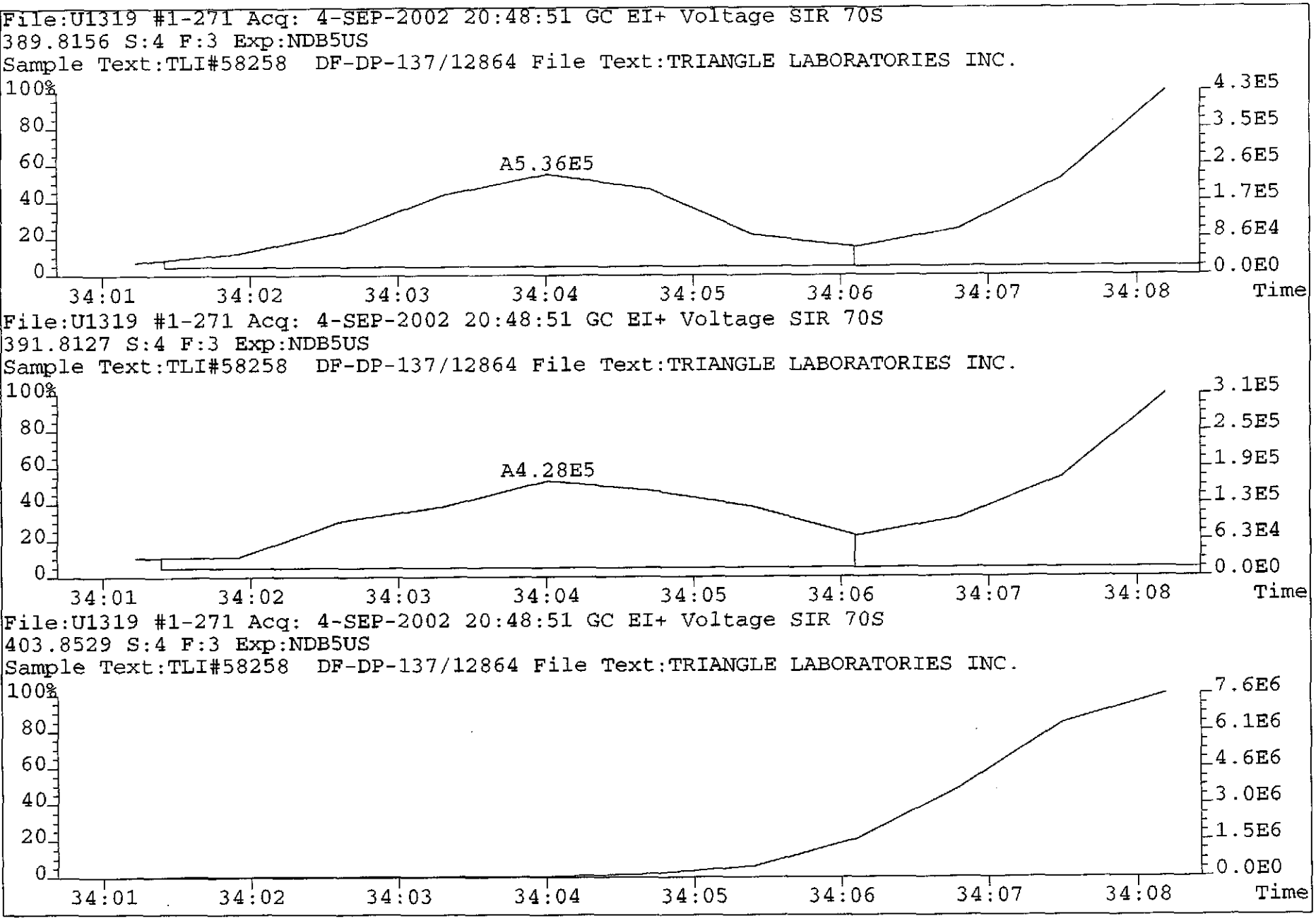

File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
373.8208 S:4 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A2.88E6
A2.36E5
A2.40E5
9.0E5
7.2E5
5.4E5
3.6E5
1.8E5
0.0E0
34:36
34:42
34:48
34:54
35:00
Time
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
375.8178 S:4 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A2.36E6
A2.06E5
A1.93E5
7.4E5
5.9E5
4.4E5
3.0E5
1.5E5
0.0E0
34:36
34:42
34:48
34:54
35:00
Time
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
385.8610 S:4 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
34:49
1.2E7
9.4E6
7.0E6
4.7E6
2.3E6
0.0E0
34:36
34:42
34:48
34:54
35:00
Time

113


File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
389.8156 S:4 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A1.26E7
A5.36E5
A1.35E6
Time
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
391.8127 S:4 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
A1.01E7
A1.09E6
Time
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
403.8529 S:4 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
34:08
34:13
Time


File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
389.8156 S:4 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A5.36E5
4.3E5
3.5E5
2.6E5
1.7E5
8.6E4
0.0E0
34:01
34:02
34:03
34:04
34:05
34:06
34:07
34:08
Time
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
391.8127 S:4 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A4.28E5
3.1E5
2.5E5
1.9E5
1.3E5
6.3E4
0.0E0
34:01
34:02
34:03
34:04
34:05
34:06
34:07
34:08
Time
File:U1319 #1-271 Acq: 4-SEP-2002 20:48:51 GC EI+ Voltage SIR 70S
403.8529 S:4 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-137/12864 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
7.6E6
6.1E6
4.6E6
3.0E6
1.5E6
0.0E0
34:01
34:02
34:03
34:04
34:05
34:06
34:07
34:08
Time

Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 TCDD/TCDF Analysis (DB-225)
Client Sample: **DF-DP-137/12864** Analysis File: **P023219**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/2002**	Spike File:	**SPC2NF2S**
TLI ID:	**334-48-2**	Date Extracted:	**08/28/2002**	ICal:	**PF56152**
		Date Analyzed:	**09/05/2002**	ConCal:	**P023216**
Sample Size:	**11.100 g**	Dilution Factor:	**n/a**	% Moisture:	**9.4**
Dry Weight:	**10.057 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-225**	Analyst:	**JMM**	% Solids:	**90.6**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDF	5.4			0.73	22:41	___

Internal Standard	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	126	63.3	40%-130%	0.76	22:39	___

Recovery Standard	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	21:32	___

Data Reviewer: _____ 09/05/2002

C2NF_PSR v2.03, LARS 6.25.05

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Printed: 18:23 09/05/2002

Initial ....Date...

Data Review By: QEM 9/5/02

Channel specific noise levels computed from 'NL' heights.

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of P023219B.dbf
09/05/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC	Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF							0.65-0.89				0.792-1.102			
304-306	DC	NL					Height	0.22	0.10	0.12				
	DC	SN			18:13	RO	1.50	0.42			0.804			
	DC	SN			18:19	RO	0.20	0.32			0.809			
	DC	SN			18:26	RO	0.20	0.55			0.814			
					18:37	RO	0.61	0.90	0.39	0.64	0.822			J
					18:43	RO	0.59	1.38	0.60	1.01	0.826			J
					18:57		0.79	62.81	27.71	35.10	0.837			
					19:06		0.73	1.83	0.77	1.06	0.843			J
					19:12	RO	0.53	2.16	0.94	1.77	0.848			J
					19:20		0.71	22.83	9.45	13.38	0.854			
					19:37	RO	0.60	3.08	1.34	2.23	0.866			J
					19:50	RO	0.14	0.18	0.08	0.57	0.876			J
					19:59		0.75	36.50	15.69	20.81	0.882			
					20:08		0.70	4.94	2.03	2.91	0.889			
					20:16		0.74	19.43	8.29	11.14	0.895			
					20:26		0.77	31.33	13.66	17.67	0.902			
					20:47		0.66	4.56	1.81	2.75	0.918			
					20:57		0.72	22.94	9.63	13.31	0.925			
					21:07		0.78	71.08	31.21	39.87	0.932			
					21:22		0.69	1.40	0.57	0.83	0.943			J
					21:28		0.77	18.13	7.88	10.25	0.948			
					21:35		0.65	4.98	1.96	3.02	0.953			
					21:40		0.79	11.93	5.27	6.66	0.957			
					21:52	RO	1.01	5.13	2.94	2.90	0.965			
					22:06		0.72	10.39	4.34	6.05	0.976			
					22:17		0.80	82.85	36.71	46.14	0.984			
					22:33		0.80	49.39	22.00	27.39	0.996			
					22:41		0.73	20.62	8.68	11.94	1.001	2378-TCDF	AN	
					22:55	RO	1.07	6.39	3.86	3.61	1.012			
					23:04		0.81	8.91	4.00	4.91	1.018			
					23:11	RO	0.43	2.05	0.89	2.07	1.024			J
					23:20		0.76	168.97	72.93	96.04	1.030			
					23:30		0.85	31.44	14.47	16.97	1.038			
					23:41		0.74	27.82	11.87	15.95	1.046			
					24:05		0.78	38.76	17.02	21.74	1.063			
					24:21	RO	0.97	8.87	4.88	5.01	1.075			
					24:34		0.81	17.96	8.01	9.95	1.085			
					24:39	RO	0.60	1.33	0.58	0.97	1.088			J
	DC	SN			24:48	RO	2.60	0.09			1.095			
	DC	WH			25:04		0.78	169.35			1.107			
	DC	WH			25:14	RO	1.84	0.90			1.114			
304-306			34	Peaks				803.27						

Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-TCDF				0.65-0.89						0.956-1.044			
316-318	DC	NL		Height			0.33	0.12	0.21				
	DC	WL		18:26		0.74	28.18			0.814			
	DC	WL		18:36	RO	0.59	0.94			0.821			
	DC	WL		18:40	RO	0.41	0.44			0.824			
	DC	WL		18:46	RO	2.43	0.50			0.829			
	DC	WL		18:59	RO	1.95	0.65			0.838			
	DC	WL		19:21	RO	0.23	0.21			0.854			
	DC	WL		19:30	RO	4.06	0.30			0.861			
	DC	WL		19:43	RO	2.75	0.14			0.870			
	DC	WL		19:49	RO	1.55	0.83			0.875			
	DC	WL		19:52	RO	2.74	0.41			0.877			
	DC	WL		19:57	RO	1.39	0.73			0.881			
	DC	WL		20:02	RO	1.91	0.19			0.884			
	DC	WL		20:44	RO	1.26	2.07			0.915			
	DC	WL		20:53	RO	1.82	0.19			0.922			
	DC	WL		21:03	RO	0.53	0.57			0.929			
	DC	WL		21:12	RO	1.21	4.66			0.936			
	DC	WL		21:23	RO	2.63	0.28			0.944			
	DC	WL		21:28	RO	1.01	2.85			0.948			
	DC	WL		21:34	RO	0.50	1.17			0.952			
	DC	SN		21:43	RO	1.09	0.62			0.959			
	DC	SN		21:48	RO	1.03	0.51			0.962			
				21:53	RO	0.93	0.81	0.43	0.46	0.966			
				21:55	RO	0.38	0.46	0.20	0.53	0.968			
				22:00	RO	0.60	0.62	0.27	0.45	0.971			
				22:06	RO	1.32	0.60	0.45	0.34	0.976			
	DC	SN		22:10	RO	2.11	0.32			0.979			
	DC	SN		22:14	RO	0.38	0.25			0.982			
				22:28	RO	0.39	0.99	0.43	1.11	0.992			
				22:39		0.76	674.99	291.96	383.03	1.000	13C12-2378-TCDF	IS0	
					Height		140.70	60.53	80.17				
				22:53	RO	1.20	4.07	2.77	2.30	1.010			
				22:58	RO	1.06	2.53	1.51	1.43	1.014			
				23:08	RO	0.38	2.71	1.18	3.07	1.021			
				23:20		0.65	31.03	12.28	18.75	1.030			
	DC	WH		24:43	RO	0.64	2.74			1.091			
	DC	WH		24:46	RO	0.98	1.08			1.093			
	DC	WH		25:04	RO	4.44	0.16			1.107			
	DC	WH		25:11	RO	1.45	1.06			1.112			
316-318		10	Peaks				718.81						

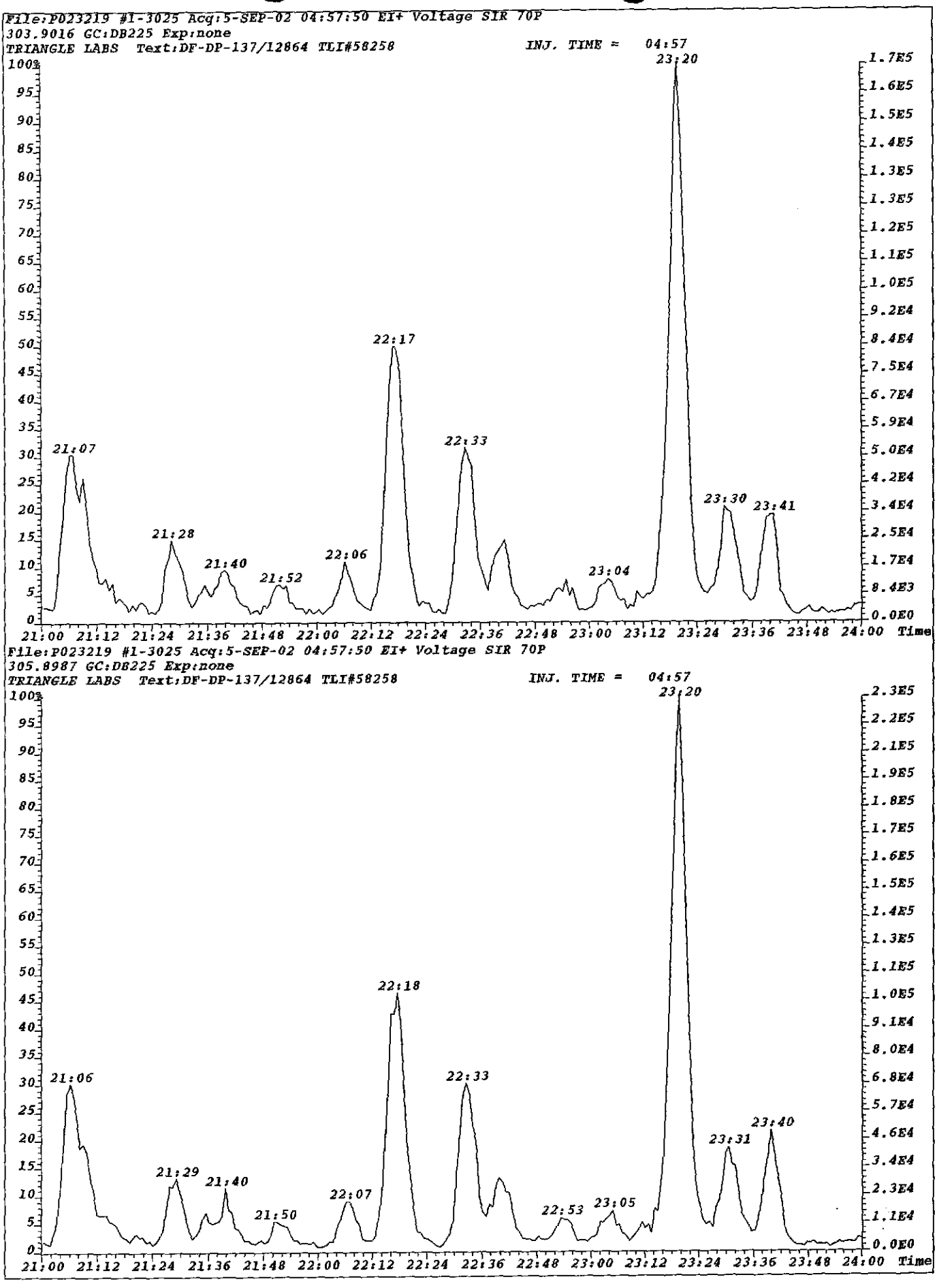
---------- Above: TCDF / TCDD Follows ----------

13C12-TCDD				0.65-0.89						0.906-1.094			
332-334	DC	NL		Height			0.40	0.27	0.13				
				19:30	RO	2.30	0.71	0.92	0.40	0.918			
	DC	SN		19:42	RO	2.50	0.39			0.927			
				21:15		0.79	489.91	216.46	273.45	1.000	13C12-2378-TCDD	IS1	
					Height		110.50	48.87	61.63				
				21:32		0.82	702.35	315.99	386.36	1.013	13C12-1234-TCDD	RS1	
	DC	SN		22:51		0.65	0.38			1.075			

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
		DC	WH	24:13	RO	2.41	0.48			1.140			
332-334			3 Peaks				1,192.97						

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

*** End of Report ***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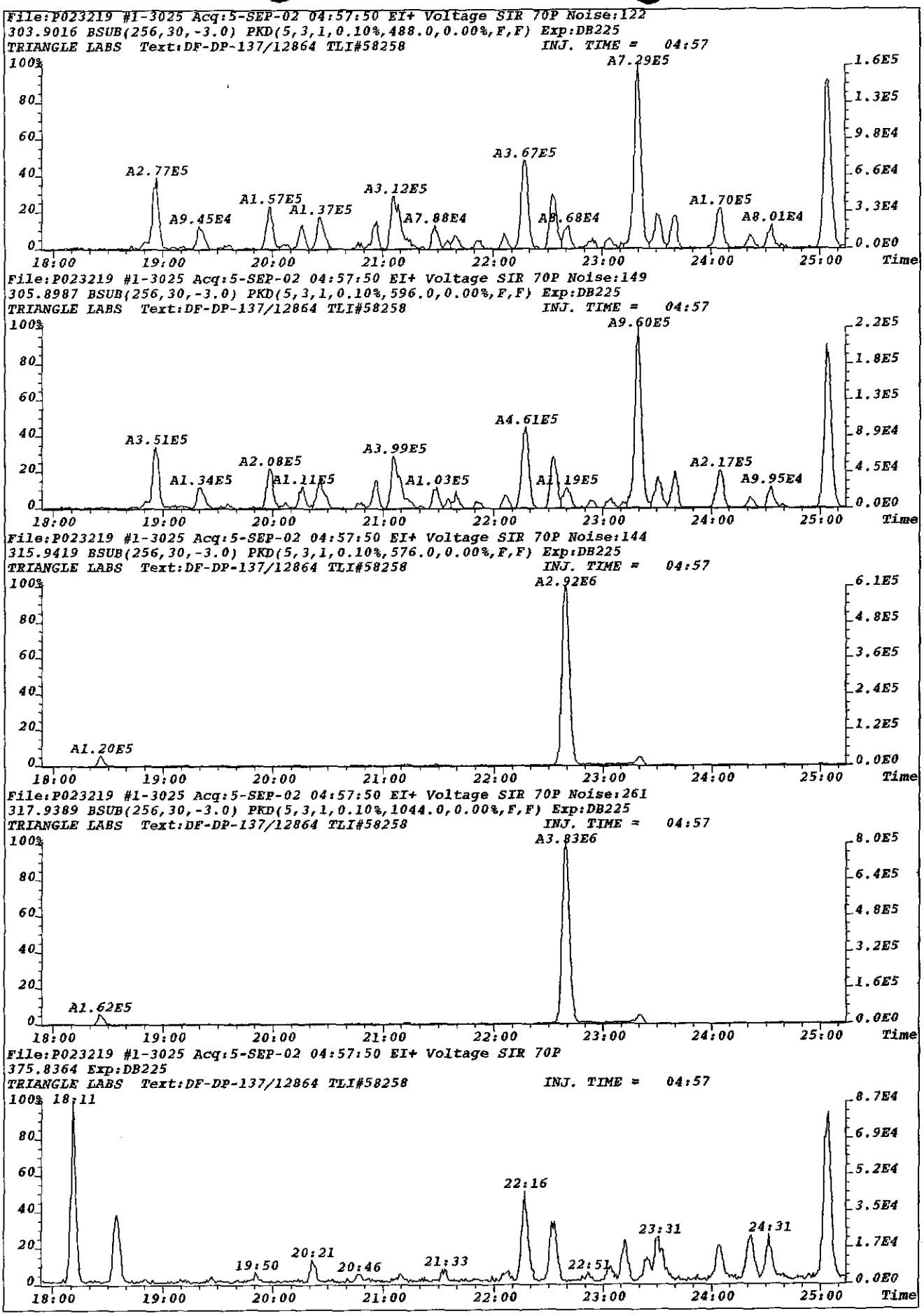
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258
INJ. TIME = 04:57
21:07
21:28
21:40
21:52
22:06
22:17
22:33
23:04
23:20
23:30
23:41
Time
File:P023219 #1-3025 Acq:5-SEP-02 04:57:50 EI+ Voltage SIR 70P
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258
INJ. TIME = 04:57
21:06
21:29
21:40
21:50
22:07
22:18
22:33
22:53
23:05
23:20
23:31
23:40
Time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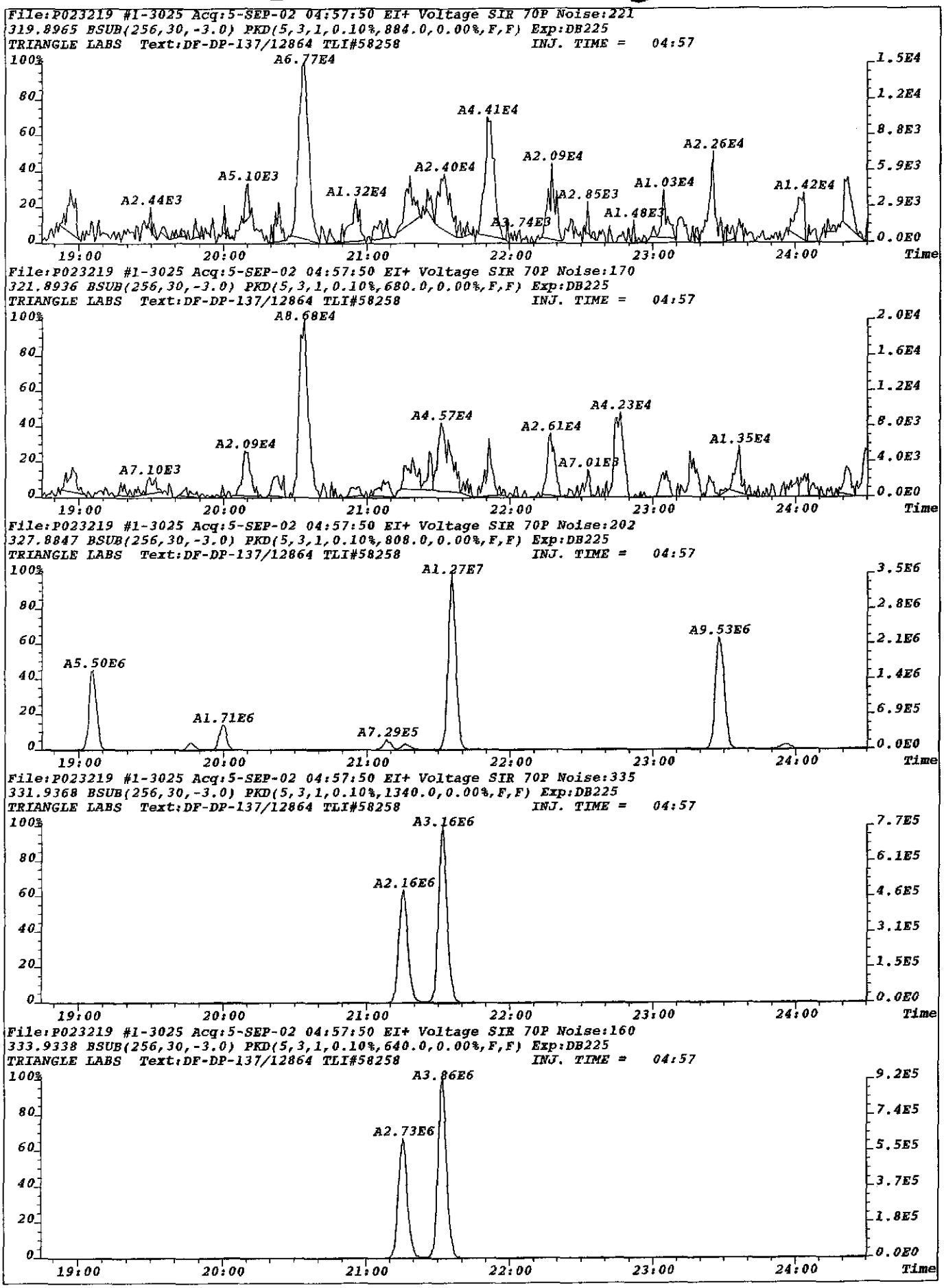
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,488.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258
INJ. TIME = 04:57
A2.77E5
A9.45E4
A1.57E5
A1.37E5
A3.12E5
A7.88E4
A3.67E5
A8.68E4
A7.29E5
A1.70E5
A8.01E4
File:P023219 #1-3025 Acq:5-SEP-02 04:57:50 EI+ Voltage SIR 70P Noise:149
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,596.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258
INJ. TIME = 04:57
A3.51E5
A1.34E5
A2.08E5
A1.11E5
A3.99E5
A1.03E5
A4.61E5
A1.19E5
A9.60E5
A2.17E5
A9.95E4
File:P023219 #1-3025 Acq:5-SEP-02 04:57:50 EI+ Voltage SIR 70P Noise:144
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,576.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258
INJ. TIME = 04:57
A1.20E5
A2.92E6
File:P023219 #1-3025 Acq:5-SEP-02 04:57:50 EI+ Voltage SIR 70P Noise:261
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1044.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258
INJ. TIME = 04:57
A1.62E5
A3.83E6
File:P023219 #1-3025 Acq:5-SEP-02 04:57:50 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258
INJ. TIME = 04:57
18:11
19:50
20:21
20:46
21:33
22:16
22:51
23:31
24:31
Time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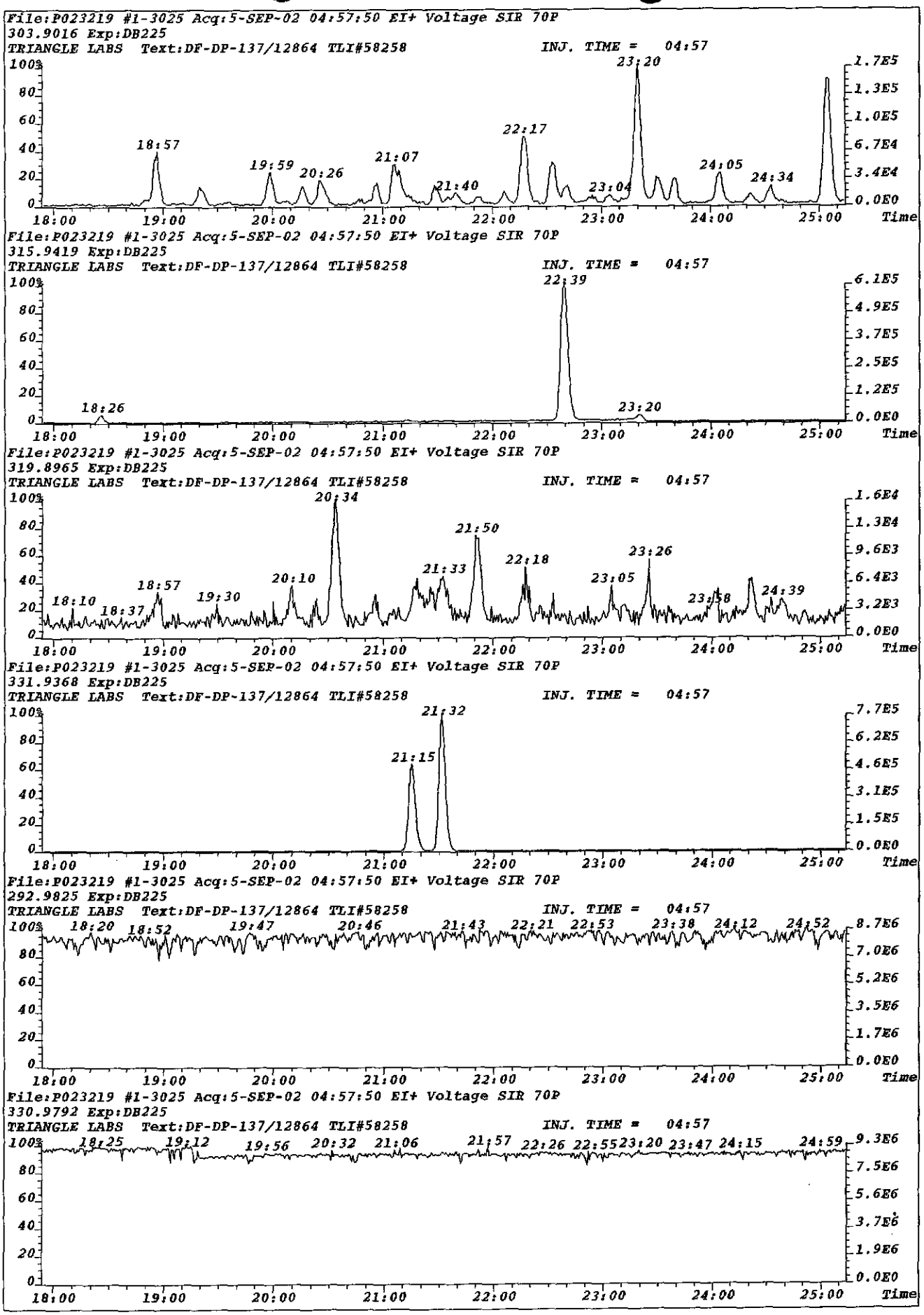
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258 INJ. TIME = 04:57
A6.77E4
A4.41E4
A2.09E4
A2.26E4
A2.40E4
A5.10E3
A1.03E4
A1.42E4
A1.32E4
A2.44E3
A2.85E3
A1.48E3
A3.74E3
File:P023219 #1-3025 Acq:5-SEP-02 04:57:50 EI+ Voltage SIR 70P Noise:170
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,680.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258 INJ. TIME = 04:57
A8.68E4
A4.57E4
A4.23E4
A2.61E4
A2.09E4
A1.35E4
A7.01E3
A7.10E3
File:P023219 #1-3025 Acq:5-SEP-02 04:57:50 EI+ Voltage SIR 70P Noise:202
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,808.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258 INJ. TIME = 04:57
A1.27E7
A9.53E6
A5.50E6
A1.71E6
A7.29E5
File:P023219 #1-3025 Acq:5-SEP-02 04:57:50 EI+ Voltage SIR 70P Noise:335
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1340.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258 INJ. TIME = 04:57
A3.16E6
A2.16E6
File:P023219 #1-3025 Acq:5-SEP-02 04:57:50 EI+ Voltage SIR 70P Noise:160
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,640.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258 INJ. TIME = 04:57
A3.86E6
A2.73E6
19:00
20:00
21:00
22:00
23:00
24:00
Time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303.9016 Exp:DB225
TRIANGLE LABS Text:DF-DP-137/12864 TLI#58258
INJ. TIME = 04:57
18:57
19:59
20:26
21:07
21:40
22:17
23:04
23:20
24:05
24:34
315.9419 Exp:DB225
18:26
22:39
23:20
319.8965 Exp:DB225
18:10
18:37
18:57
19:30
20:10
20:34
21:33
21:50
22:18
23:05
23:26
23:58
24:39
331.9368 Exp:DB225
21:15
21:32
292.9825 Exp:DB225
18:20
18:52
19:47
20:46
21:43
22:21
22:53
23:38
24:12
24:52
330.9792 Exp:DB225
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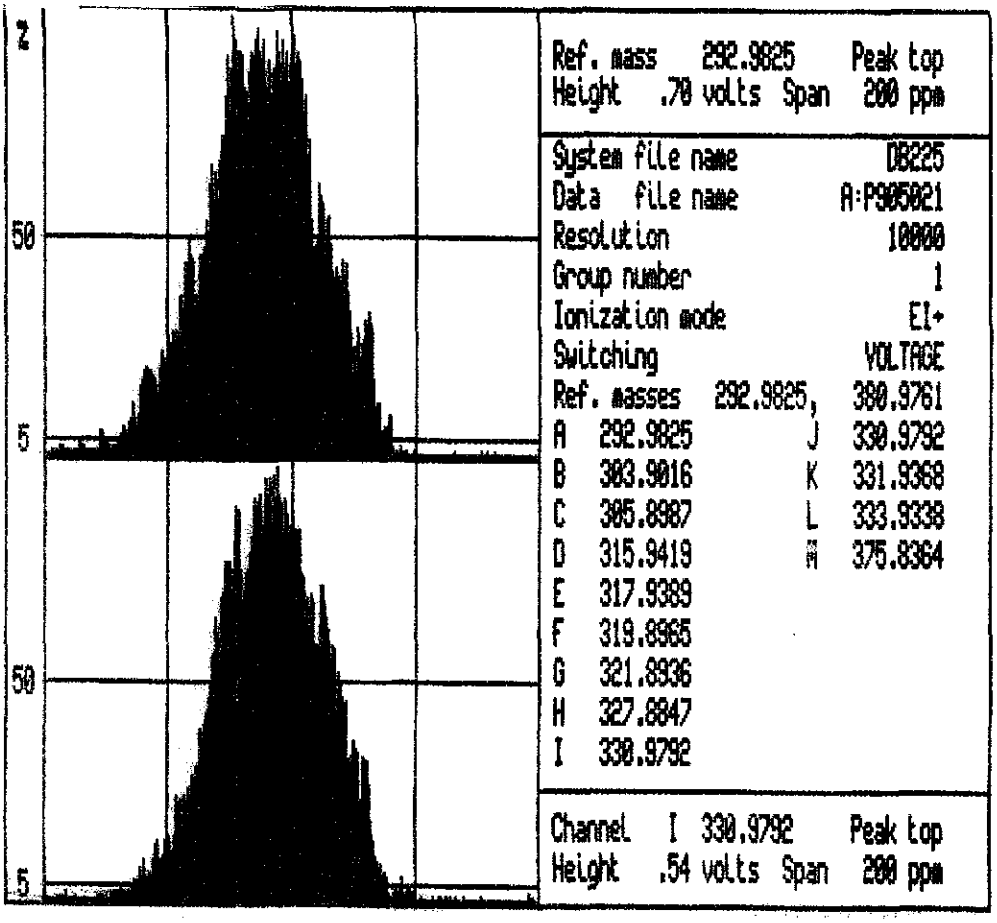
Time



Ref. mass	292.9825	Peak top	
Height	.70 volts	Span	200 ppm

System file name			DB225
Data file name			A:P905021
Resolution			10000
Group number			1
Ionization mode			EI+
Switching			VOLTAGE
Ref. masses	292.9825,		380.9761
A	292.9825	J	330.9792
B	303.9016	K	331.9368
C	305.8987	L	333.9338
D	315.9419	M	375.8364
E	317.9389		
F	319.8965		
G	321.8936		
H	327.8847		
I	330.9792		

Channel	I	330.9792		Peak top	
Height	.54 volts		Span	200 ppm	

Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **DF-DP-82/12865** Analysis File: **U131905**

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	164	82.4	40%-135%	0.79	26:05	___
$^{13}C_{12}$-2,3,7,8-TCDD	173	86.7	40%-135%	0.81	26:48	___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	156	78.2	40%-135%	1.44	30:00	___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	188	94.3	40%-135%	1.55	31:01	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	168	84.3	40%-135%	0.54	33:33	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	166	83.3	40%-135%	1.27	34:14	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	149	74.9	40%-135%	0.48	36:28	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	162	81.2	40%-135%	1.02	37:30	___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	361	90.7	40%-135%	0.89	41:07	___

Surrogate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	154	77.5	40%-135%	1.55	30:42	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	184	92.7	40%-135%	0.53	33:28	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	173	86.9	40%-135%	1.26	34:09	___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	154	77.5	40%-135%	0.47	38:01	___

Other Standard	Conc. (pg/g)	% Recovery	QC Limits		RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	181	909	40%-135%		26:42	___

Alternate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	197	99.2	40%-135%	0.53	34:49	___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	181	90.9	40%-135%	0.54	34:02	___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	26:37	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.23	34:33	___

Data Reviewer: _____ 09/06/2002

MIT3_PSR v1.00, LARS 6.25.05

Triangle Laboratories, Inc.®
2445 S. Alston Ave. • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 03:48 09/06/2002

Mississippi Dept. of Env. Quality

TLI Project: **58258** — Toxicity Equivalents Report
Client Sample: **DF-DP-82/12865** — Analysis File: **U131905**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/02**	Spike File:	**SPMIT32S**
TLI ID:	**334-48-3**	Date Extracted:	**08/28/02**	ICal:	**UF57092**
		Date Analyzed:	**09/04/02**	ConCal:	**U021317**
Sample Size:	**11.500 g**	Dilution Factor:	**1**	% Moisture:	**12.6**
Dry Weight:	**10.051 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JWL**	% Solids:	**87.4**

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	[0.19]	x	1.	=	0.19
1,2,3,7,8-PeCDD	[14.3]	x	0.5	=	7.15
1,2,3,4,7,8-HxCDD	9.9	x	0.1	=	0.99
1,2,3,6,7,8-HxCDD	104	x	0.1	=	10.4
1,2,3,7,8,9-HxCDD	38.2	x	0.1	=	3.82
1,2,3,4,6,7,8-HpCDD	433	x	0.01	=	4.33
1,2,3,4,6,7,8,9-OCDD	3440	x	0.001	=	3.440
TOTAL PCDD					30.3
2,3,7,8-TCDF	103	x	0.1	=	10.3
1,2,3,7,8-PeCDF	47.8	x	0.05	=	2.39
2,3,4,7,8-PeCDF	114	x	0.5	=	57.0
1,2,3,4,7,8-HxCDF	1500	x	0.1	=	150.0
1,2,3,6,7,8-HxCDF	135	x	0.1	=	13.5
2,3,4,6,7,8-HxCDF	130	x	0.1	=	13.0
1,2,3,7,8,9-HxCDF	{0.3}	x	0.1	=	0.03
1,2,3,4,6,7,8-HpCDF	4720	x	0.01	=	47.20
1,2,3,4,7,8,9-HpCDF	176	x	0.01	=	1.76
1,2,3,4,6,7,8,9-OCDF	1750	x	0.001	=	1.750
TOTAL PCDF					296.9

Total EPA TEFs, 1989a: 327.2 pg/g

[...] indicates that the value is that of an EMPC.
{...} indicates that the value is that of a Detection Limit.

GRY_TEF v1.08, MILES 4.22.16

Triangle Laboratories, Inc.®
2445 S. Alston Ave. • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 04:28 09/06/02

Initial ....Date...

Data Review By: PAB 9/6/02

Calculated Noise Height: 1.50

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of U131905B.dbf
09/06/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF						0.65-0.89				0.874-1.072			
304-306		DC	NL			Height	12.21	7.04	5.17				
	D	D	WL	22:51		0.73	40,498.10			0.876			
				23:21		0.72	7,776.16	3,253.85	4,522.31	0.895			
				23:42		0.74	1,600.90	681.37	919.53	0.909			
				23:57		0.75	16,828.68	7,223.20	9,605.48	0.918			
				24:05		0.74	3,757.75	1,602.82	2,154.93	0.923			
				24:34		0.75	18,330.45	7,874.85	10,455.60	0.942			
				24:47		0.74	6,168.54	2,631.85	3,536.69	0.950			
				25:09		0.75	36,647.50	15,676.60	20,970.90	0.964			
				25:30		0.74	34,608.10	14,741.00	19,867.10	0.978			
				25:40		0.75	63,934.90	27,362.80	36,572.10	0.984	1278-TCDF	AN	E
				25:49		0.75	14,900.64	6,366.60	8,534.04	0.990			
	A			26:01		0.78	13,780.00	6,030.00	7,750.00	0.997			
	M			26:05		0.78	22,130.00	9,730.00	12,400.00	1.000	2378-TCDF	AN	
				26:32		0.75	7,970.63	3,424.93	4,545.70	1.017			
				26:44		0.75	4,279.33	1,839.77	2,439.56	1.025			
				27:01		0.74	28,298.50	12,071.50	16,227.00	1.036			
				27:18		0.74	211,131.20	90,028.20	121,103.00	1.047			E
				27:43		0.76	3,072.65	1,327.48	1,745.17	1.063			
		DC	WH	28:07		0.81	10,461.60			1.078			
		DC	WH	28:19		0.81	1,798.20			1.086			
304-306			17	Peaks			495,215.93						
13C12-TCDF						0.65-0.89				0.962-1.038			
316-318		DC	NL			Height	47.69	20.81	26.88				
		DC	WL	24:15	RO	0.59	142.52			0.930			
		DC	WL	24:31		0.77	421.84			0.940			
		DC	SN	25:25	RO	0.93	476.73			0.974			
				25:40		0.66	255.01	101.72	153.29	0.984			
				26:05		0.79	19,771.92	8,752.82	11,019.10	1.000	13C12-2378-TCDF	ISO	
						Height	5,181.51	2,281.18	2,900.33				
				26:25		0.75	7,753.30	3,329.11	4,424.19	1.013			
		DC	WH	28:09	RO	0.23	231.39			1.079			
316-318			3	Peaks			27,780.23						

---------- Above: TCDF / TCDD Follows ----------

TCDD						0.65-0.89				0.900-1.043			
320-322		DC	NL			Height	6.56	3.49	3.07				
	M			24:16		0.80	123.40	55.00	68.40	0.905			
				24:40	RO	0.91	68.62	35.15	38.77	0.920			J
				24:56		0.84	87.45	39.88	47.57	0.930			
				25:09		0.86	65.67	30.45	35.22	0.938			J

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				25:23	RO	0.28	498.01	216.65	771.12	0.947			Q
				25:38		0.86	597.33	276.56	320.77	0.956			
	A			25:50		0.76	205.50	88.50	117.00	0.964			
				26:19	RO	1.26	102.55	72.91	57.94	0.982			
	M			26:43	RO	0.59	618.35	269.00	456.00	0.997			
	AN			26:48	RO	8.70	16.64	81.77	9.40	1.000	2378-TCDD	AN	J
				26:56	RO	1.54	84.11	73.28	47.52	1.005			J
	A			27:08	RO	0.56	232.17	101.00	180.00	1.012			
	A			27:10	RO	1.75	230.10	227.00	130.00	1.014			
				27:23	RO	1.84	790.75	822.16	446.75	1.022			
				27:47	RO	0.21	97.99	42.63	203.19	1.037			
	K			28:00		0.85	801.91	369.05	432.86	1.045			
	K			28:08	RO	0.35	597.94	260.12	749.22	1.050			Q
		DC	WH	28:19	RO	1.09	220.86			1.057			
320-322			17	Peaks			5,218.49						
37Cl-TCDD										0.925-1.075			
328		DC	NL			Height	66.99	66.99					
		DC	WL	24:24			2,694.74			0.910			
		DC	WL	24:40			15,322.40			0.920			
				25:09			2,021.19	2,021.19		0.938			
				25:26			809,152.00	809,152.00		0.949			
				25:53			2,952.92	2,952.92		0.966			
				26:24			979.74	979.74		0.985			
	N			26:42			16,330.20	16,330.20		0.996	37Cl-TCDD	CLS	
				27:09			583,044.00	583,044.00		1.013			
				27:24			1,404.40	1,404.40		1.022			
				28:09			80,109.60	80,109.60		1.050			
328			8	Peaks			1,495,994.05						
13C12-TCDD						0.65-0.89				0.925-1.075			
332-334		DC	NL			Height	12.25	7.43	4.82				
				25:28	RO	1.28	527.48	381.10	298.01	0.950			
				26:37		0.82	14,966.72	6,760.64	8,206.08	0.993	13C12-1234-TCDD	RS1	
				26:48		0.81	14,654.20	6,548.17	8,106.03	1.000	13C12-2378-TCDD	IS1	
						Height	3,962.37	1,768.44	2,193.93				
				27:11	RO	1.42	219.92	176.07	124.25	1.014			
		DC	SN	27:23		0.78	97.55			1.022			
				28:10	RO	1.03	202.68	118.12	114.51	1.051			
332-334			5	Peaks			30,571.00						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78				0.928-1.061			
340-342		DC	NL			Height	11.16	6.03	5.13				
				27:55		1.56	41,862.00	25,508.30	16,353.70	0.931			
				28:07		1.57	66,240.10	40,488.00	25,752.10	0.937			Q
				28:19		1.56	59,326.80	36,177.70	23,149.10	0.944			
				28:32		1.52	12,058.78	7,282.41	4,776.37	0.951			
				28:44		1.57	33,774.20	20,635.20	13,139.00	0.958			
				29:06		1.56	83,532.30	50,849.80	32,682.50	0.970			
				29:21		1.57	282,133.00	172,224.00	109,909.00	0.978			E

Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				29:31		1.56	110,258.90	67,163.10	43,095.80	0.984			
				29:53		1.56	280,312.00	170,988.00	109,324.00	0.996			E
	AN			30:01		1.59	3,940.00	2,420.00	1,520.00	1.001	12378-PeCDF	AN	
	M			30:11		1.56	34,100.00	20,800.00	13,300.00	1.006			
	M			30:36		1.52	21,220.00	12,800.00	8,420.00	1.020			
	AN			30:42		1.54	9,230.00	5,600.00	3,630.00	1.023	23478-PeCDF	AN	
				30:54		1.57	36,568.80	22,356.40	14,212.40	1.030			
	X	X		31:02	RO	1.60	10,535.65	6,487.97	4,047.68	1.034			
	X	X		31:18	RO	1.54	22,048.81	13,365.60	8,683.21	1.043			
				31:32		1.55	36,095.60	21,952.90	14,142.70	1.051			
340-342		17	Peaks				1,143,236.94						
13C12-PeCDF						1.32-1.78				0.867-1.133			
352-354	DC	NL				Height	4.78	2.22	2.56				
				27:58	RO	0.07	77.31	46.99	718.00	0.932			
				28:08	RO	0.13	223.18	135.66	1,017.68	0.938			
				29:06	RO	0.03	224.28	136.33	4,250.21	0.970			
				29:20	RO	0.09	720.20	437.77	4,727.02	0.978			
	M			30:00		1.44	13,060.00	7,710.00	5,350.00	1.000	13C12-PeCDF 123	IS2	
						Height	4,030.69	2,457.03	1,573.66				
	M			30:42		1.55	12,980.00	7,880.00	5,100.00	1.023	13C12-PeCDF 234	SUR1	
				31:19	RO	0.44	1,876.13	1,140.39	2,565.92	1.044			
				31:38	RO	0.58	1,835.33	1,115.59	1,921.65	1.054			
352-354		8	Peaks				30,996.43						

---------- Above: PeCDF / PeCDD Follows ----------

PeCDD						1.32-1.78				0.938-1.021			
356-358	DC	NL				Height	13.12	2.56	10.56				
				29:43	RO	0.51	198.19	120.47	234.57	0.958			J
	D	D	SN	29:58	RO	0.16	818.11			0.966			
	M			30:33		1.35	916.00	527.00	389.00	0.985			
	A			30:37	RO	0.62	340.55	207.00	335.00	0.987			
	D	D	SN	30:53	RO	0.00	103.65			0.996			
	M			31:02	RO	0.57	760.06	462.00	804.00	1.001	12378-PeCDD	AN	
	D	D	SN	31:11	RO	0.02	681.49			1.005			Q
	M			31:31	RO	0.47	605.42	368.00	791.00	1.016			
	A			31:41	RO	0.27	704.13	428.00	1,590.00	1.021			
		DC	WH	31:54	RO	0.14	151.90			1.028			
356-358		6	Peaks				3,524.35						
13C12-PeCDD						1.32-1.78				0.871-1.129			
368-370	DC	NL				Height	3.99	1.94	2.05				
				29:13	RO	1.83	120.31	86.44	47.18	0.942			
				29:20	RO	1.13	91.62	40.75	35.93	0.946			
				29:28	RO	2.06	105.06	84.75	41.20	0.950			
				29:42	RO	0.69	32.38	19.68	28.72	0.958			
				29:57	RO	1.12	75.23	33.12	29.50	0.966			
				30:05	RO	0.57	48.88	29.71	52.37	0.970			
				30:51	RO	0.50	113.86	69.21	139.49	0.995			
				31:01		1.55	9,387.42	5,702.54	3,684.88	1.000	13C12-PeCDD 123	IS3	
						Height	2,732.62	1,668.28	1,064.34				

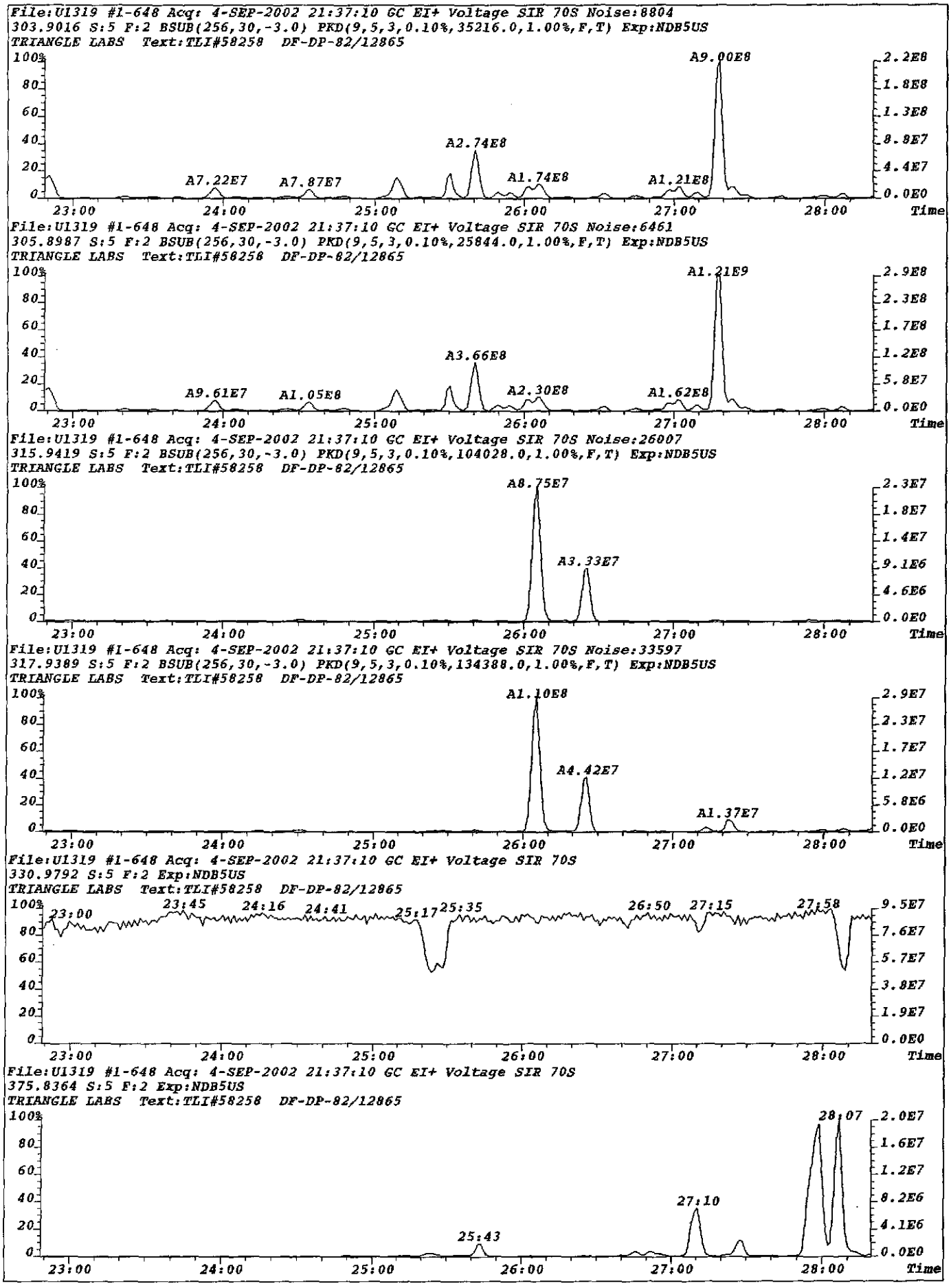
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				31:09		1.78	114.18	73.08	41.10	1.004			
				31:41	RO	0.73	242.30	147.28	200.64	1.021			
368-370			10	Peaks			10,331.24						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.964-1.045			
374-376		DC	NL			Height	31.32	14.63	16.69				
				32:23		1.25	1,466.12	813.32	652.80	0.965			
	A			32:30		1.25	15,710.00	8,740.00	6,970.00	0.969			
	XM		X	32:33	RO	1.26	33,900.00	18,900.00	15,000.00	0.970			
				32:39		1.26	61,094.00	34,048.50	27,045.50	0.973			
				32:46		1.24	29,795.30	16,468.60	13,326.70	0.977			
				32:56		1.26	8,230.87	4,593.60	3,637.27	0.982			
				33:06		1.24	118,921.50	65,864.80	53,056.70	0.987			E
				33:18		1.26	11,084.74	6,187.68	4,897.06	0.993			
				33:26		1.25	79,301.30	44,008.30	35,293.00	0.997	123478-HxCDF	AN	
				33:34		1.26	7,481.90	4,168.14	3,313.76	1.000	123678-HxCDF	AN	
	X		X	33:43	RO	1.25	4,844.18	2,687.41	2,156.77	1.005			
				33:51		1.29	937.16	528.74	408.42	1.009			
				34:03		1.26	6,277.33	3,499.07	2,778.26	1.015	234678-HxCDF	AN	
				34:23		1.33	595.88	339.94	255.94	1.025			
	X		X	34:32	RO	1.34	517.22	296.02	221.20	1.029			
	XM		X	34:41	RO	1.23	1,051.00	579.00	472.00	1.034			
	A			34:46		1.14	427.00	227.00	200.00	1.036			
				34:53		1.25	3,533.97	1,959.86	1,574.11	1.040			
374-376			18	Peaks			385,169.47						
13C12-HxCDF						0.43-0.59				0.881-1.119			
384-386		DC	NL			Height	53.12	18.84	34.28				
		DC	SN	33:06	RO	1.35	48.32			0.987			
				33:28		0.53	10,130.47	3,507.72	6,622.75	0.998	13C12-HxCDF 478	SUR2	
				33:33		0.54	9,185.25	3,211.92	5,973.33	1.000	13C12-HxCDF 678	IS4	
						Height	3,019.55	1,026.67	1,992.88				
		DC	SN	33:43	RO	1.41	94.95			1.005			
				34:02		0.54	9,114.10	3,184.04	5,930.06	1.014	13C12-HxCDF 234	ALT2	
		DC	SN	34:14	RO	1.06	130.99			1.020			
				34:49		0.53	7,902.82	2,735.78	5,167.04	1.038	13C12-HxCDF 789	ALT1	
		DC	SN	35:00		0.56	122.37			1.043			
384-386			4	Peaks			36,332.64						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43				0.959-1.013			
390-392		DC	NL			Height	115.55	17.43	98.12				
	M			33:00		1.15	3,290.00	1,760.00	1,530.00	0.964			
		DC	SN	33:06	RO	0.60	109.22			0.967			
	K			33:26		1.17	810.60	437.21	373.39	0.977			
	M			33:39	RO	1.02	11,127.74	6,160.00	6,030.00	0.983			
	A			33:44	RO	0.59	700.90	388.00	653.00	0.985			
	A			34:04	RO	0.98	172.15	95.30	97.60	0.995			J
	AN			34:09		1.10	344.00	180.00	164.00	0.998	123478-HxCDD	AN	

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	M			34:15		1.18	3,690.00	2,000.00	1,690.00	1.000	123678-HxCDD	AN	
	M			34:34		1.06	1,314.00	676.00	638.00	1.010	123789-HxCDD	AN	
		DC	WH	34:51	RO	0.38	365.55			1.018			
		DC	WH	35:02	RO	0.69	702.84			1.023			
390-392			8	Peaks			21,449.39						
13C12-HxCDD				1.05-1.43						0.971-1.029			
402-404		DC	NL			Height	19.89	7.93	11.96				
		DC	WL	32:54		1.13	415.18			0.961			
				33:16	RO	0.37	123.02	68.10	183.09	0.972			
		DC	SN	33:45	RO	0.01	16.26			0.986			
				34:09		1.26	6,022.13	3,356.26	2,665.87	0.998	13C12-HxCDD 478	SUR3	
				34:14		1.27	6,384.80	3,569.77	2,815.03	1.000	13C12-HxCDD 678	IS5	
						Height	1,975.26	1,101.77	873.49				
				34:33		1.23	7,378.07	4,066.11	3,311.96	1.009	13C12-HxCDD 789	RS2	
		DC	SN	34:49	RO	0.01	19.64			1.017			
402-404			4	Peaks			19,908.02						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.88-1.20						0.995-1.047			
408-410		DC	NL			Height	11.46	5.63	5.83				
	D	D	NH	36:18		1.07	1,211.69			0.995			
				36:29		1.05	199,031.00	101,875.00	97,156.00	1.000	1234678-HpCDF	AN	E
				36:53		1.05	119,006.50	60,838.40	58,168.10	1.011			E
				38:01		1.04	5,257.20	2,681.89	2,575.31	1.043	1234789-HpCDF	AN	
408-410			3	Peaks			323,294.70						
13C12-HpCDF				0.37-0.51						0.945-1.110			
418-420		DC	NL			Height	15.82	5.94	9.88				
		DC	SN	36:11	RO	0.25	62.61			0.992			
				36:28		0.48	5,803.40	1,885.50	3,917.90	1.000	13C12-HpCDF 678	IS6	
						Height	1,648.24	532.03	1,116.21				
				36:53	RO	1.05	106.21	77.43	73.76	1.011			
				37:02	RO	0.84	413.31	126.29	149.48	1.016			
				37:23	RO	0.91	135.88	41.52	45.61	1.025			
		DC	SN	37:31	RO	0.69	86.30			1.029			
				38:01		0.47	4,220.69	1,345.36	2,875.33	1.043	13C12-HpCDF 789	SUR4	
				38:15	RO	0.81	284.17	86.83	107.26	1.049			
418-420			6	Peaks			10,963.66						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20						0.976-1.005			
424-426		DC	NL			Height	11.78	5.10	6.68				
				36:46		0.99	7,777.19	3,865.38	3,911.81	0.980			
		DC	SN	37:04	RO	1.45	49.25			0.988			
	D	D	NH	37:10	RO	0.61	53.61			0.991			
				37:31		1.01	10,638.18	5,352.90	5,285.28	1.000	1234678-HpCDD	AN	
424-426			2	Peaks			18,415.37						

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-HpCDD						0.88-1.20				0.973-1.027			
436-438	DC	NL				Height	15.43	8.03	7.40				
	DC	SN		36:52	RO	1.89	35.92			0.983			
				37:30		1.02	4,845.83	2,444.20	2,401.63	1.000	13C12-HpCDD	678	IS7
						Height	1,207.81	620.62	587.19				
436-438			1	Peak			4,845.83						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.903-1.097			
442-444	DC	NL				Height	5.19	2.41	2.78				
	DC	WL		35:51		0.95	109.52			0.872			
	DC	WL		36:10		0.89	535.12			0.880			
				41:20		0.89	48,070.80	22,688.70	25,382.10	1.005	OCDF		AN
442-444			1	Peak			48,070.80						
OCDD						0.76-1.02				0.903-1.097			
458-460	DC	NL				Height	4.63	2.39	2.24				
				41:08		0.89	69,990.10	32,985.90	37,004.20	1.000	OCDD		AN
458-460			1	Peak			69,990.10						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	8.56	4.32	4.24				
				41:07		0.89	7,324.92	3,451.63	3,873.29	1.000	13C12-OCDD		IS8
						Height	1,618.88	763.33	855.55				
470-472			1	Peak			7,324.92						

Column Description.....	*"Why" Code Description.....*	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

*** End of Report ***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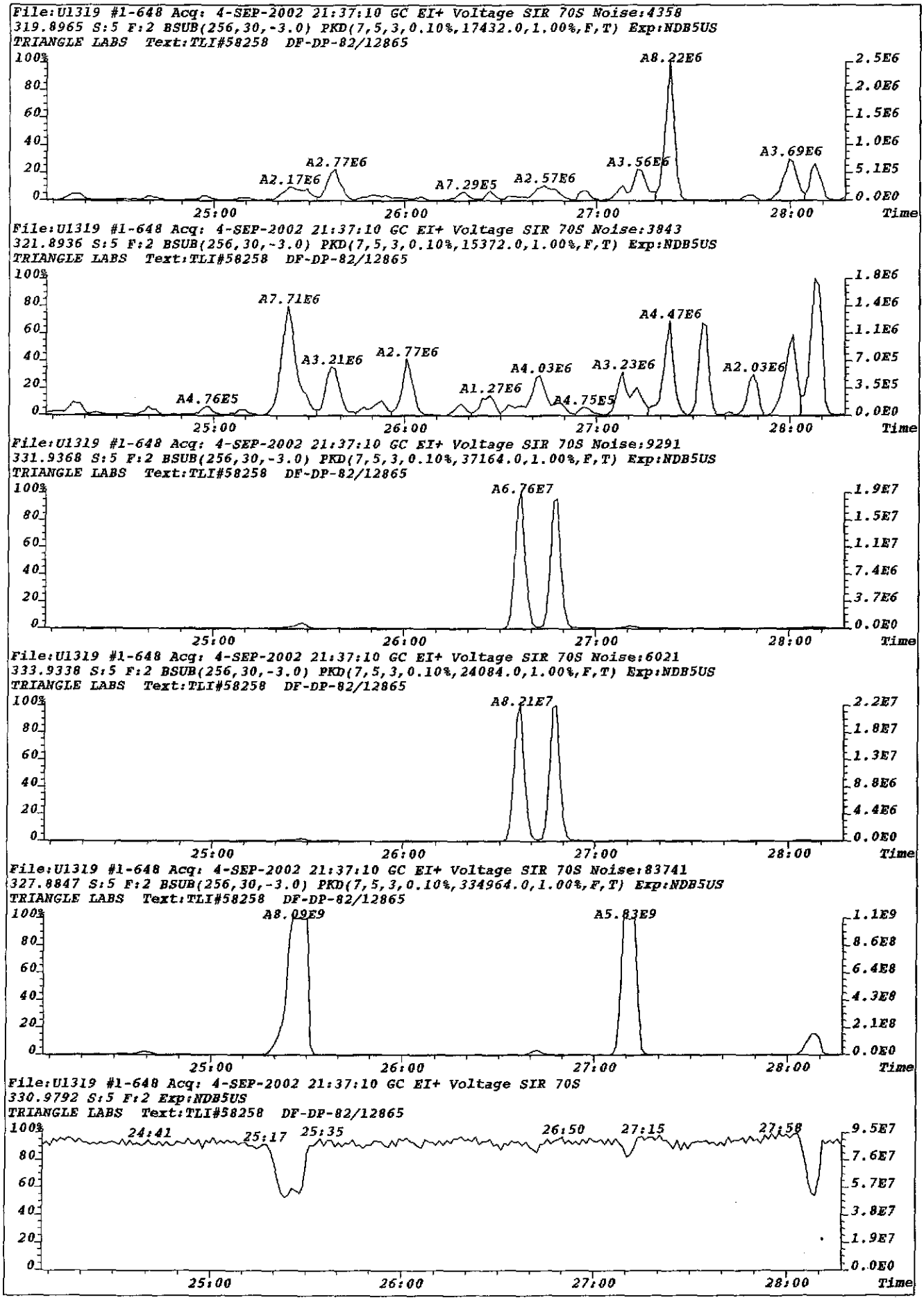
303.9016 S:5 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,35216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A9.00E8
A2.74E8
A7.22E7
A7.87E7
A1.74E8
A1.21E8
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:6461
305.8987 S:5 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,25844.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A1.21E9
A3.66E8
A9.61E7
A1.05E8
A2.30E8
A1.62E8
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:26007
315.9419 S:5 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,104028.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A8.75E7
A3.33E7
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:33597
317.9389 S:5 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,134388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A1.10E8
A4.42E7
A1.37E7
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
330.9792 S:5 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
23:00
23:45
24:16
24:41
25:17
25:35
26:50
27:15
27:58
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
375.8364 S:5 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
28:07
27:10
25:43
Time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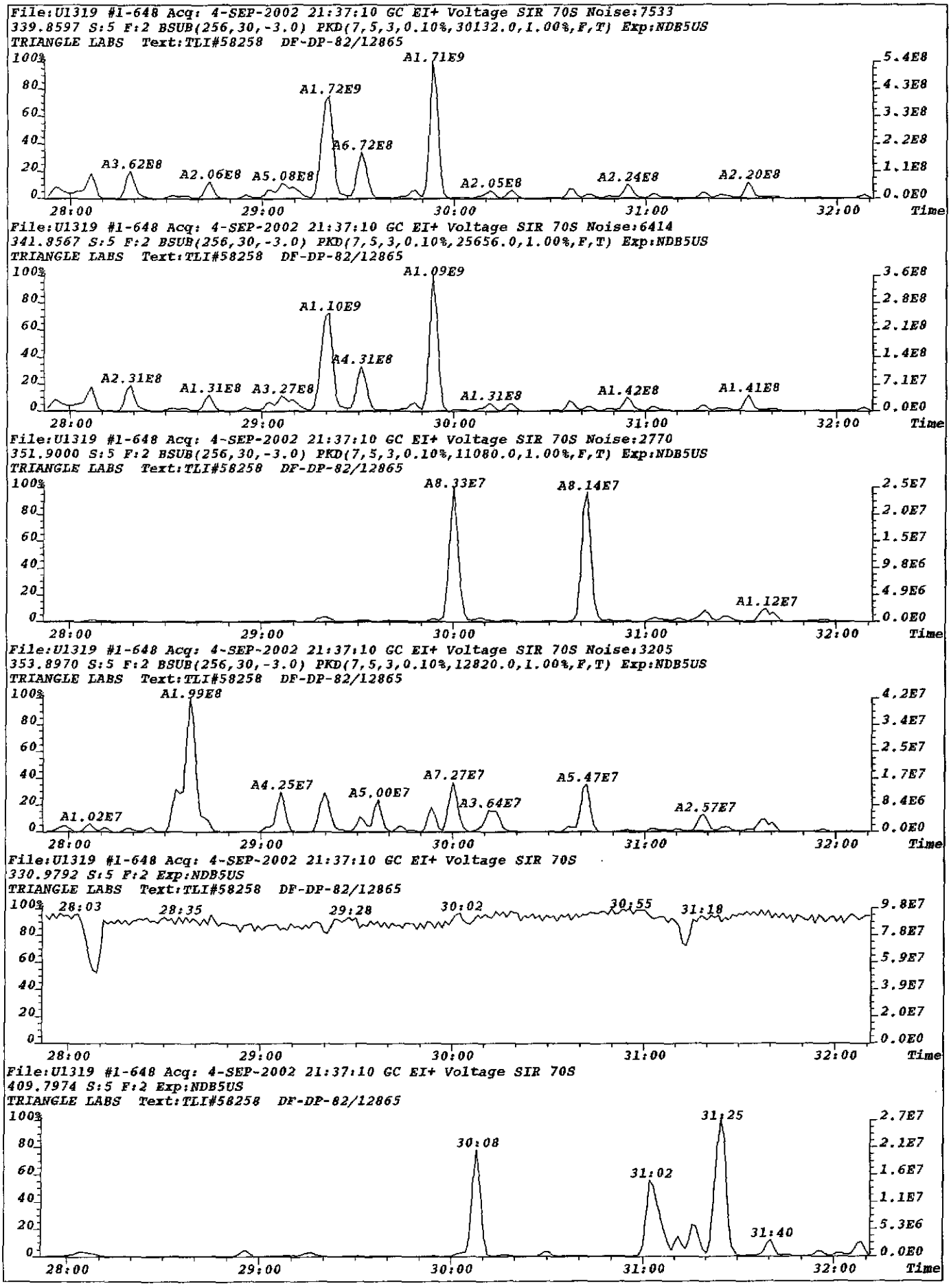
319.8965 S:5 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,17432.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A8.22E6
A3.69E6
A3.56E6
A2.77E6
A2.17E6
A2.57E6
A7.29E5
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:3843
321.8936 S:5 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,15372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A7.71E6
A4.47E6
A3.21E6
A2.77E6
A4.03E6
A3.23E6
A2.03E6
A4.76E5
A1.27E6
A4.75E5
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:9291
331.9368 S:5 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,37164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A6.76E7
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:6021
333.9338 S:5 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,24084.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A8.21E7
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:83741
327.8847 S:5 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,334964.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A8.09E9
A5.83E9
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
330.9792 S:5 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
24:41
25:17
25:35
26:50
27:15
27:58
25:00
26:00
27:00
28:00
Time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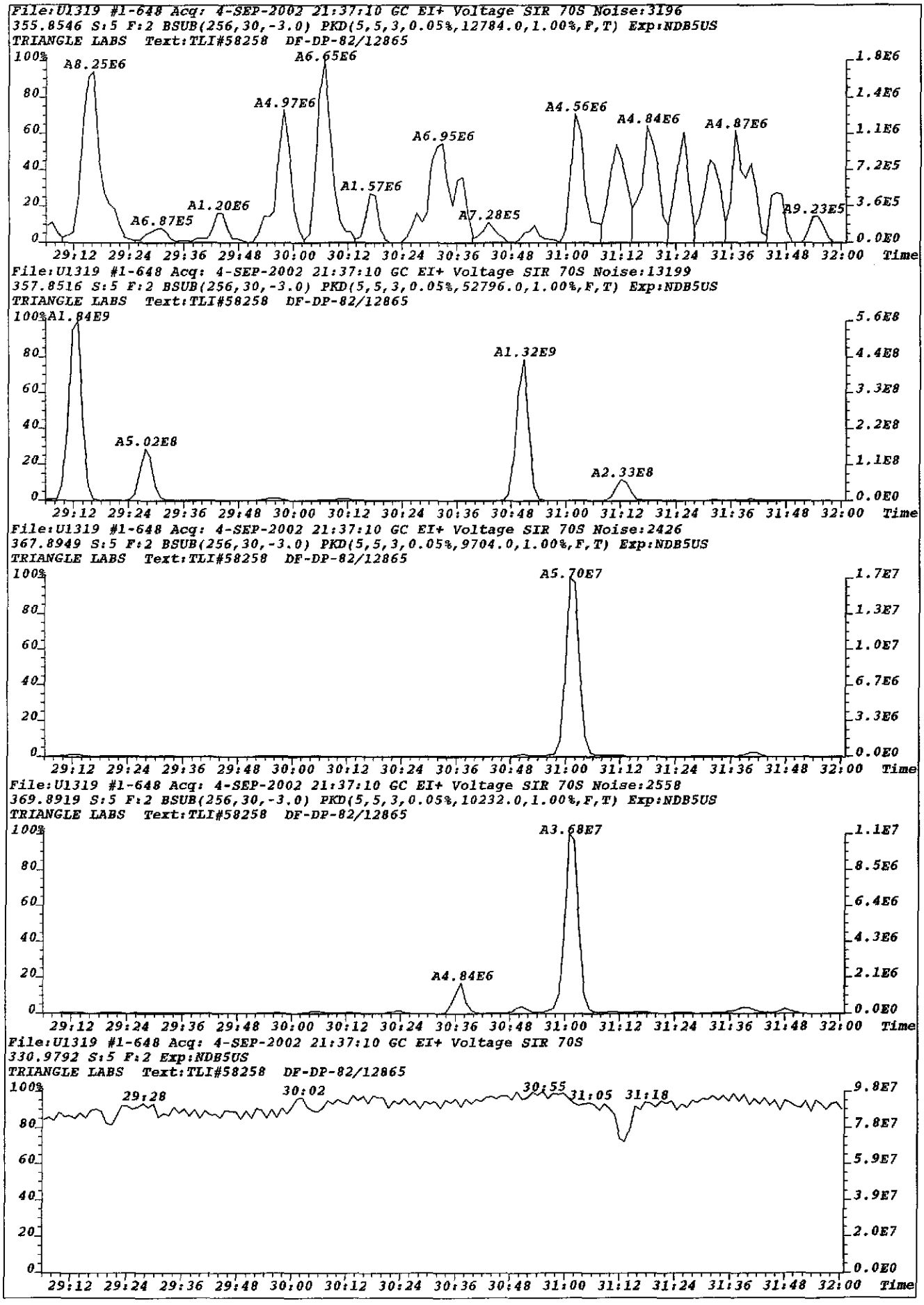
339.8597 S:5 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,30132.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A1.71E9
A1.72E9
A6.72E8
A3.62E8
A2.06E8
A5.08E8
A2.05E8
A2.24E8
A2.20E8
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:6414
341.8567 S:5 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,25656.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A1.09E9
A1.10E9
A4.31E8
A2.31E8
A1.31E8
A3.27E8
A1.31E8
A1.42E8
A1.41E8
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:2770
351.9000 S:5 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11080.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A8.33E7
A8.14E7
A1.12E7
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:3205
353.8970 S:5 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12820.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A1.99E8
A4.25E7
A5.00E7
A7.27E7
A5.47E7
A1.02E7
A3.64E7
A2.57E7
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
330.9792 S:5 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
28:03
28:35
29:28
30:02
30:55
31:18
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
409.7974 S:5 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
30:08
31:02
31:25
31:40
Time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355.8546 S:5 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,12784.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A8.25E6
A6.87E5
A1.20E6
A4.97E6
A6.65E6
A1.57E6
A6.95E6
A7.28E5
A4.56E6
A4.84E6
A4.87E6
A9.23E5
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:13199
357.8516 S:5 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,52796.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A1.84E9
A5.02E8
A1.32E9
A2.33E8
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:2426
367.8949 S:5 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,9704.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A5.70E7
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:2558
369.8919 S:5 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,10232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A3.68E7
A4.84E6
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
330.9792 S:5 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
29:28
30:02
30:55
31:05
31:18
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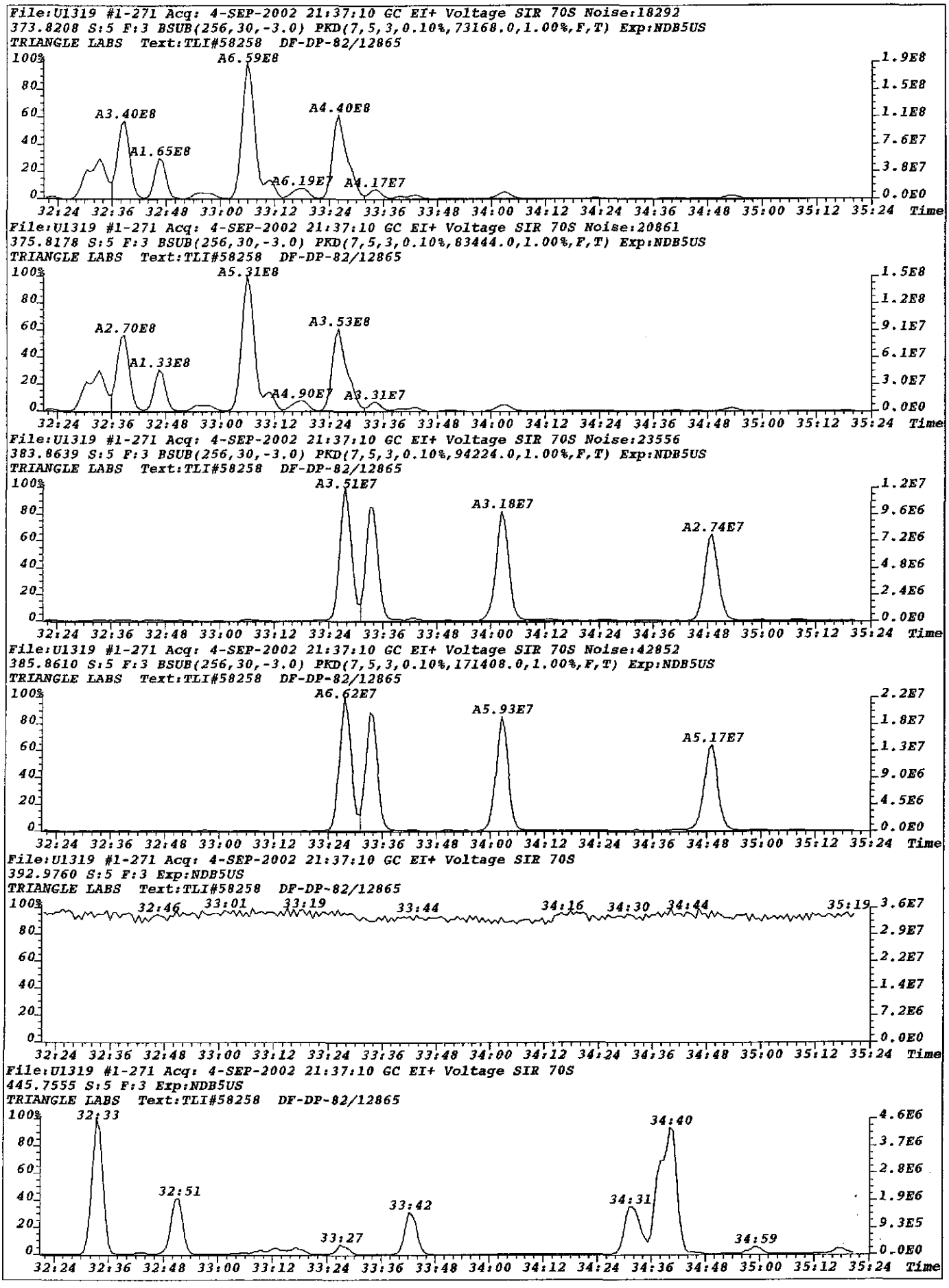
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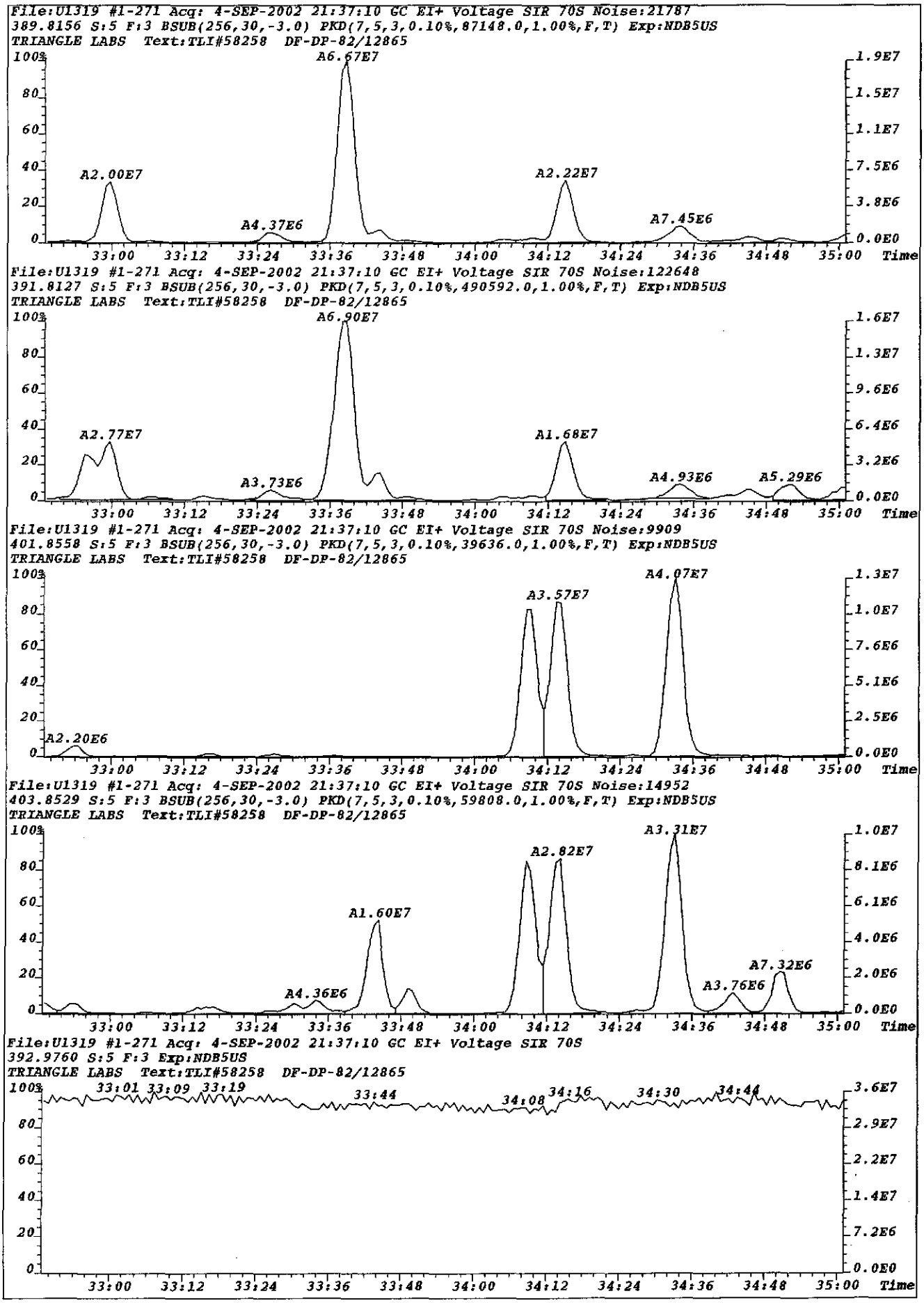
373.8208 S:5 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,73168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A6.59E8
A3.40E8
A4.40E8
A1.65E8
A6.19E7
A4.17E7
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:20861
375.8178 S:5 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,83444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A5.31E8
A2.70E8
A3.53E8
A1.33E8
A4.90E7
A3.31E7
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:23556
383.8639 S:5 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,94224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A3.51E7
A3.18E7
A2.74E7
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:42852
385.8610 S:5 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,171408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A6.62E7
A5.93E7
A5.17E7
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
392.9760 S:5 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
445.7555 S:5 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
32:33
34:40
32:51
33:42
34:31
33:27
34:59
Time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389.8156 S:5 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,87148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A6.67E7
A2.00E7
A2.22E7
A4.37E6
A7.45E6
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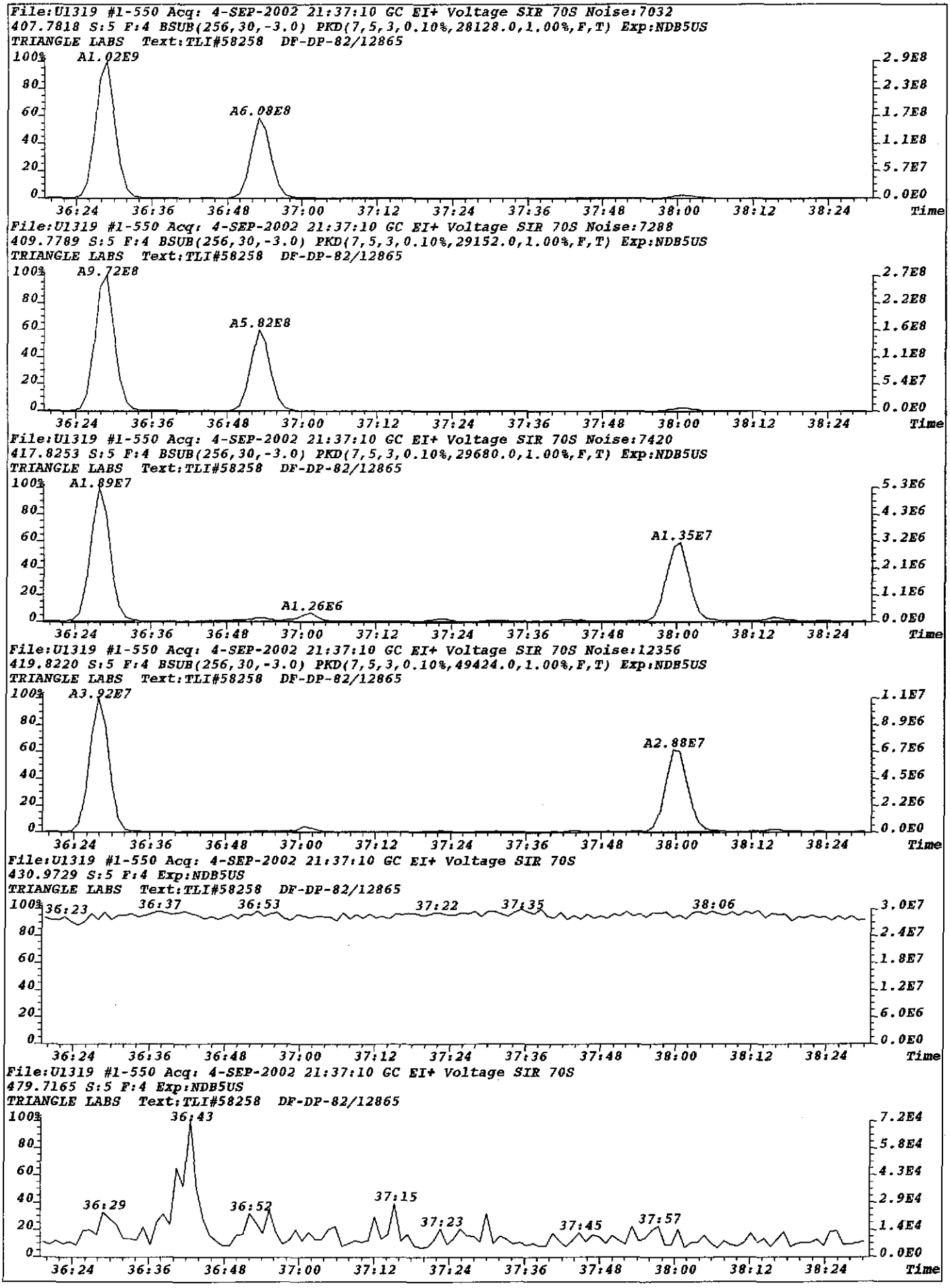
391.8127 S:5 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,490592.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A6.90E7
A2.77E7
A1.68E7
A3.73E6
A4.93E6
A5.29E6
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:9909
401.8558 S:5 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,39636.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A4.07E7
A3.57E7
A2.20E6
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:14952
403.8529 S:5 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,59808.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A3.31E7
A2.82E7
A1.60E7
A7.32E6
A4.36E6
A3.76E6
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
392.9760 S:5 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
33:01 33:09 33:19 33:44 34:08 34:16 34:30 34:44
Time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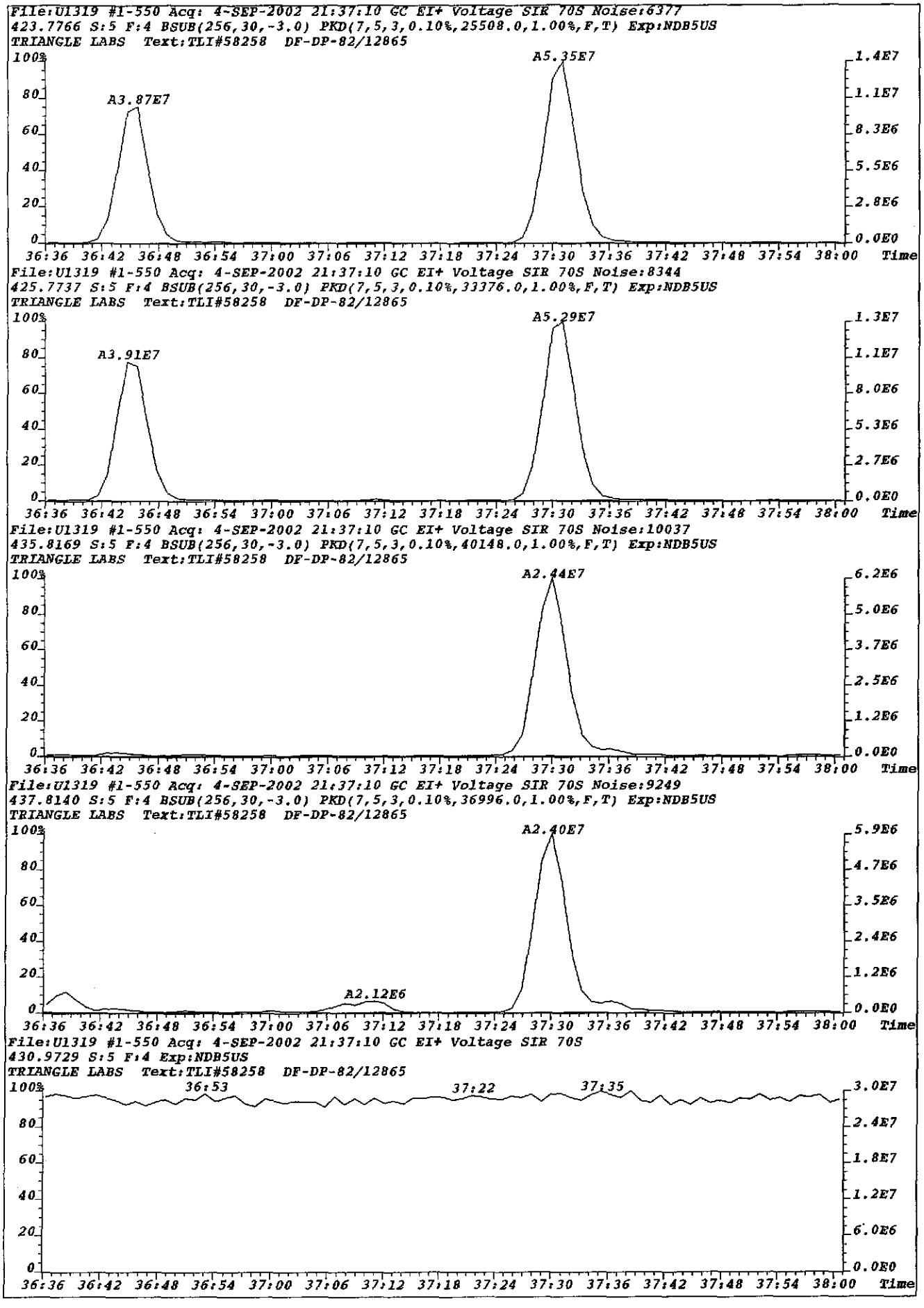
407.7818 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,28128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A1.02E9
A6.08E8
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:7288
409.7789 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,29152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A9.72E8
A5.82E8
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:7420
417.8253 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,29680.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A1.89E7
A1.26E6
A1.35E7
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:12356
419.8220 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,49424.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A3.92E7
A2.88E7
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
430.9729 S:5 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
479.7165 S:5 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
36:43
36:29
36:52
37:15
37:23
37:45
37:57
Time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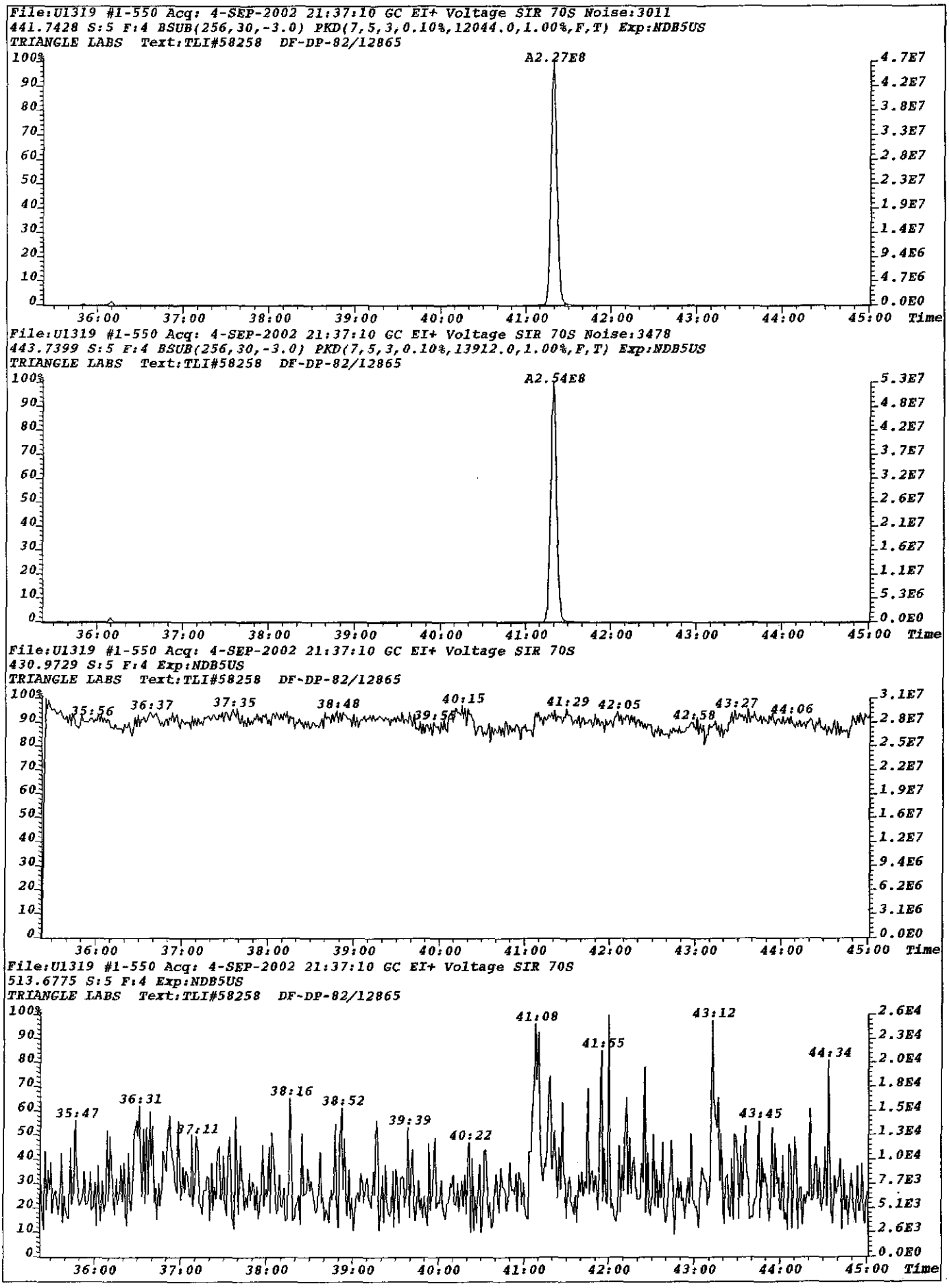
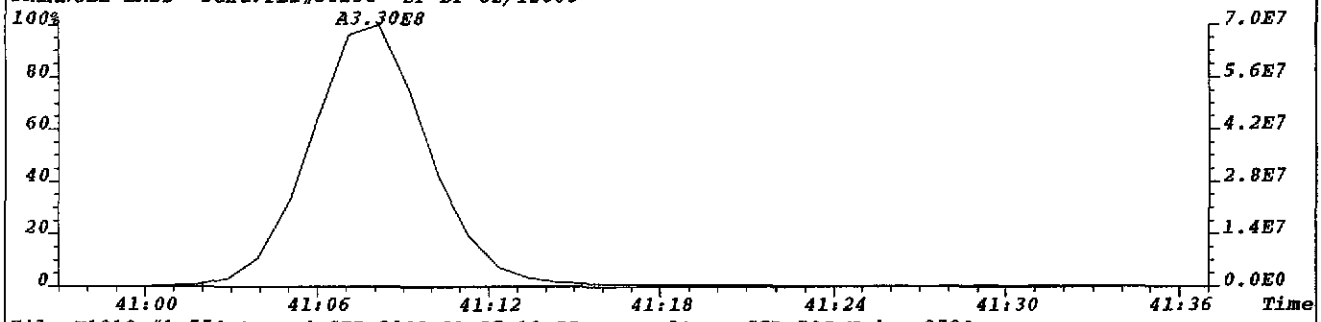
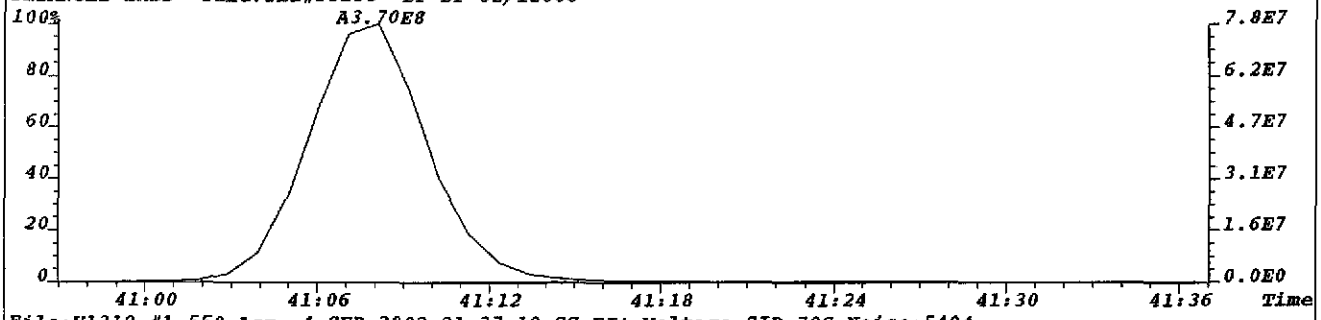
423.7766 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,25508.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A3.87E7
A5.35E7
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:8344
425.7737 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,33376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A3.91E7
A5.29E7
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:10037
435.8169 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,40148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A2.44E7
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:9249
437.8140 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,36996.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A2.40E7
A2.12E6
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
430.9729 S:5 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
36:53
37:22
37:35
Time


File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:3011
441.7428 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12044.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A2.27E8
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:3478
443.7399 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13912.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
A2.54E8
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
430.9729 S:5 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
35:56
36:37
37:35
38:48
39:56
40:15
41:29
42:05
42:58
43:27
44:06
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
513.6775 S:5 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865
35:47
36:31
37:11
38:16
38:52
39:39
40:22
41:08
41:55
43:12
43:45
44:34
Time

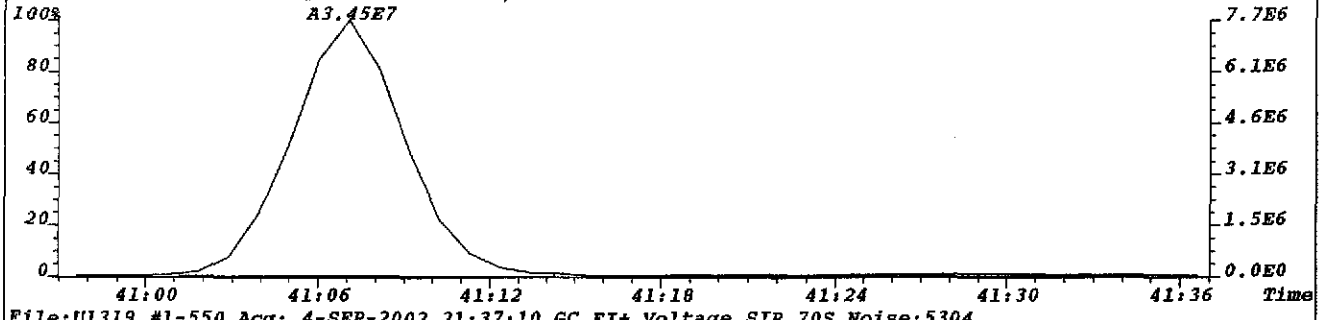
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:2983
457.7377 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11932.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865



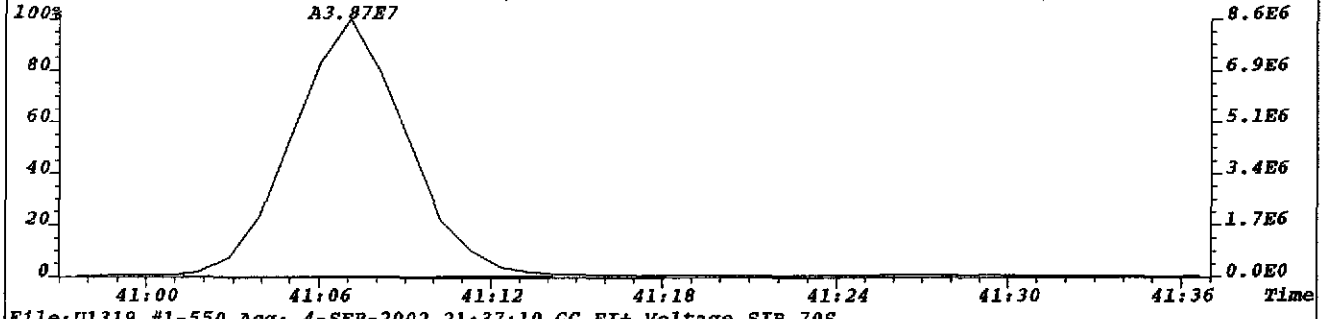
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:2798
459.7348 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865



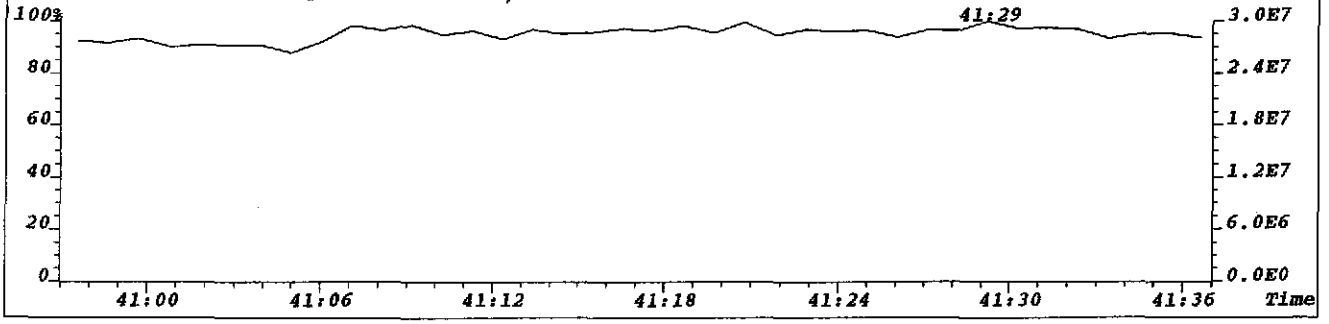
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:5404
469.7779 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,21616.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865

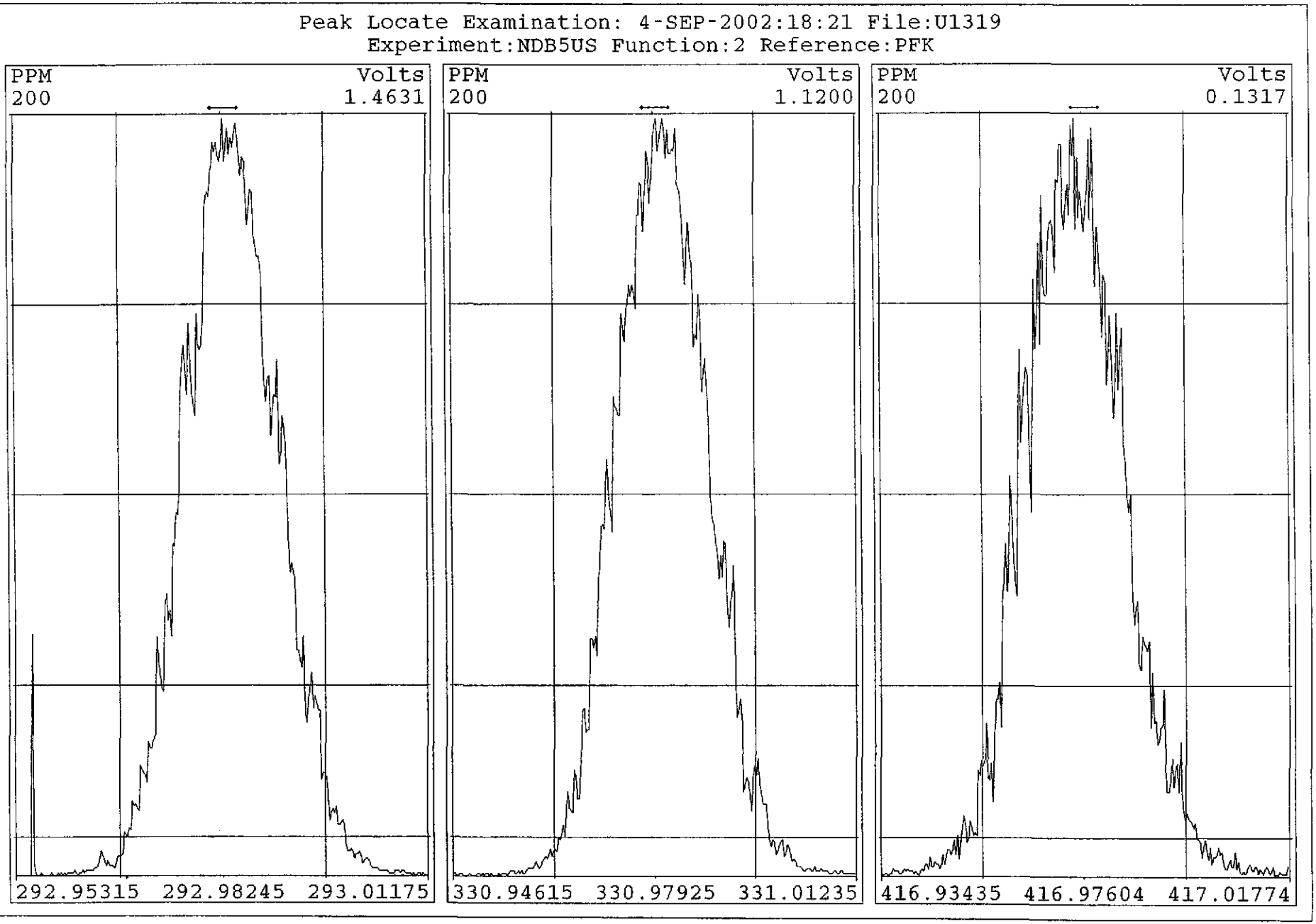


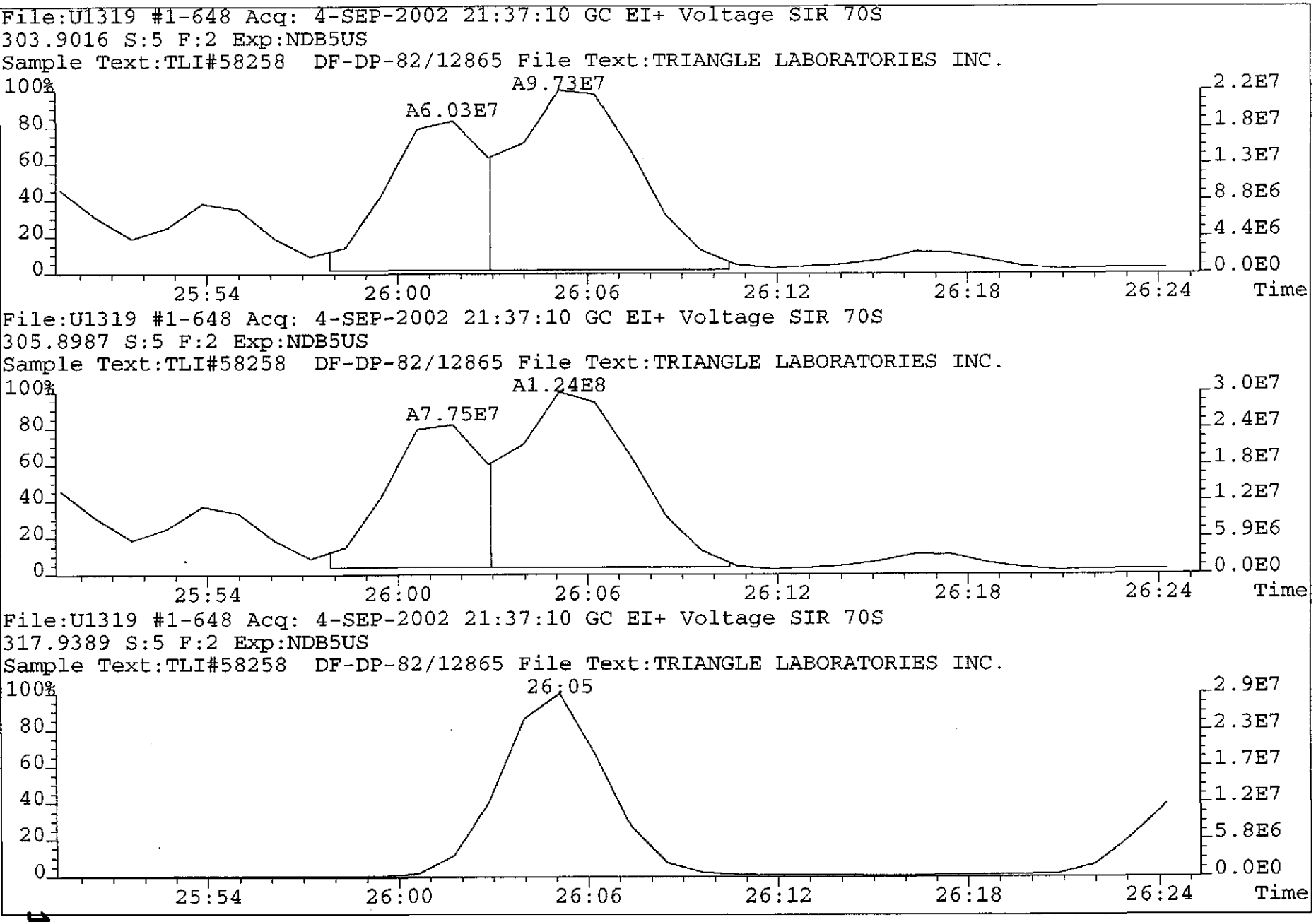
File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S Noise:5304
471.7750 S:5 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,21216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865

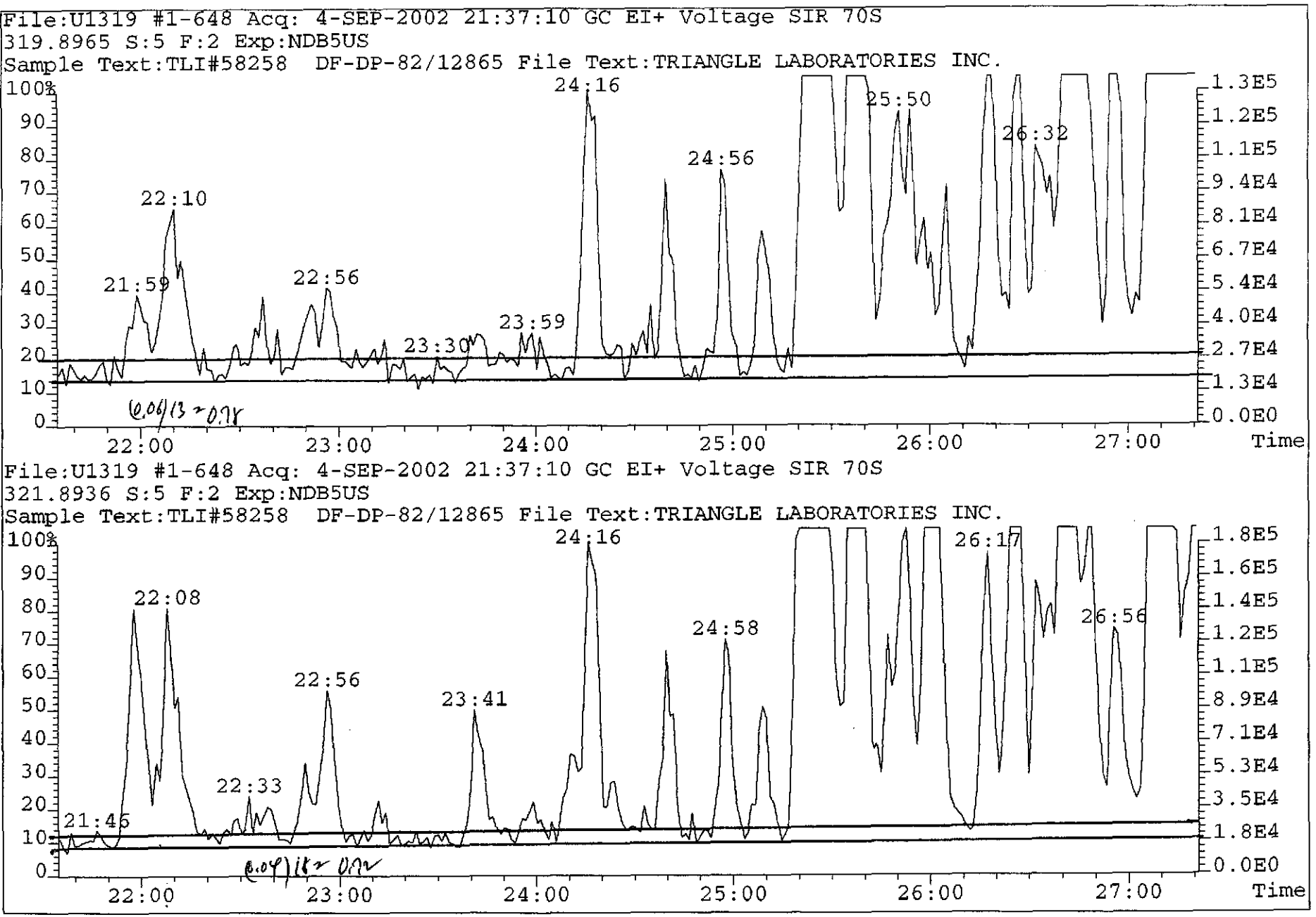


File:U1319 #1-550 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
430.9729 S:5 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-82/12865

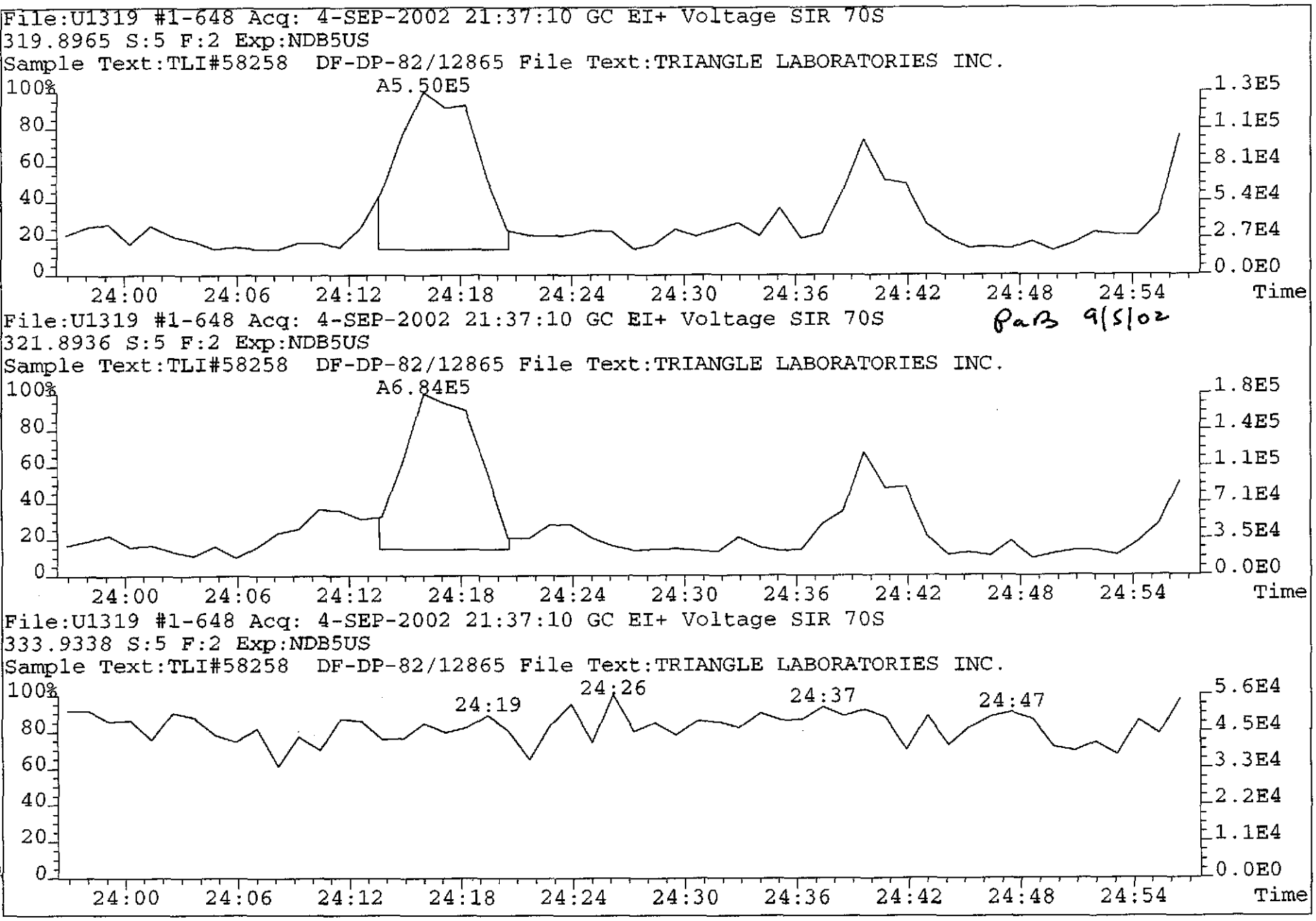



Peak Locate Examination: 4-SEP-2002:18:21 File:U1319
Experiment:NDB5US Function:2 Reference:PFK
PPM
200
Volts
1.4631
292.95315 292.98245 293.01175
PPM
200
Volts
1.1200
330.94615 330.97925 331.01235
PPM
200
Volts
0.1317
416.93435 416.97604 417.01774


File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
303.9016 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A6.03E7
A9.73E7
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
305.8987 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A7.75E7
A1.24E8
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
317.9389 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
26:05
Time


File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
319.8965 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
90
80
70
60
50
40
30
20
10
0
22:10
21:59
22:56
23:30
23:59
24:16
24:56
25:50
26:32
1.3E5
1.2E5
1.1E5
9.4E4
8.1E4
6.7E4
5.4E4
4.0E4
2.7E4
1.3E4
0.0E0
22:00
23:00
24:00
25:00
26:00
27:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
321.8936 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
90
80
70
60
50
40
30
20
10
0
22:08
21:46
22:33
22:56
23:41
24:16
24:58
26:17
26:56
1.8E5
1.6E5
1.4E5
1.2E5
1.1E5
8.9E4
7.1E4
5.3E4
3.5E4
1.8E4
0.0E0
22:00
23:00
24:00
25:00
26:00
27:00
Time

146


File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
319.8965 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A5.50E5
100%
80
60
40
20
0
1.3E5
1.1E5
8.1E4
5.4E4
2.7E4
0.0E0
24:00 24:06 24:12 24:18 24:24 24:30 24:36 24:42 24:48 24:54
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
321.8936 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A6.84E5
1.8E5
1.4E5
1.1E5
7.1E4
3.5E4
0.0E0
24:00 24:06 24:12 24:18 24:24 24:30 24:36 24:42 24:48 24:54
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
333.9338 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
24:19
24:26
24:37
24:47
5.6E4
4.5E4
3.3E4
2.2E4
1.1E4
0.0E0
24:00 24:06 24:12 24:18 24:24 24:30 24:36 24:42 24:48 24:54
Time

PaB 9/5/02

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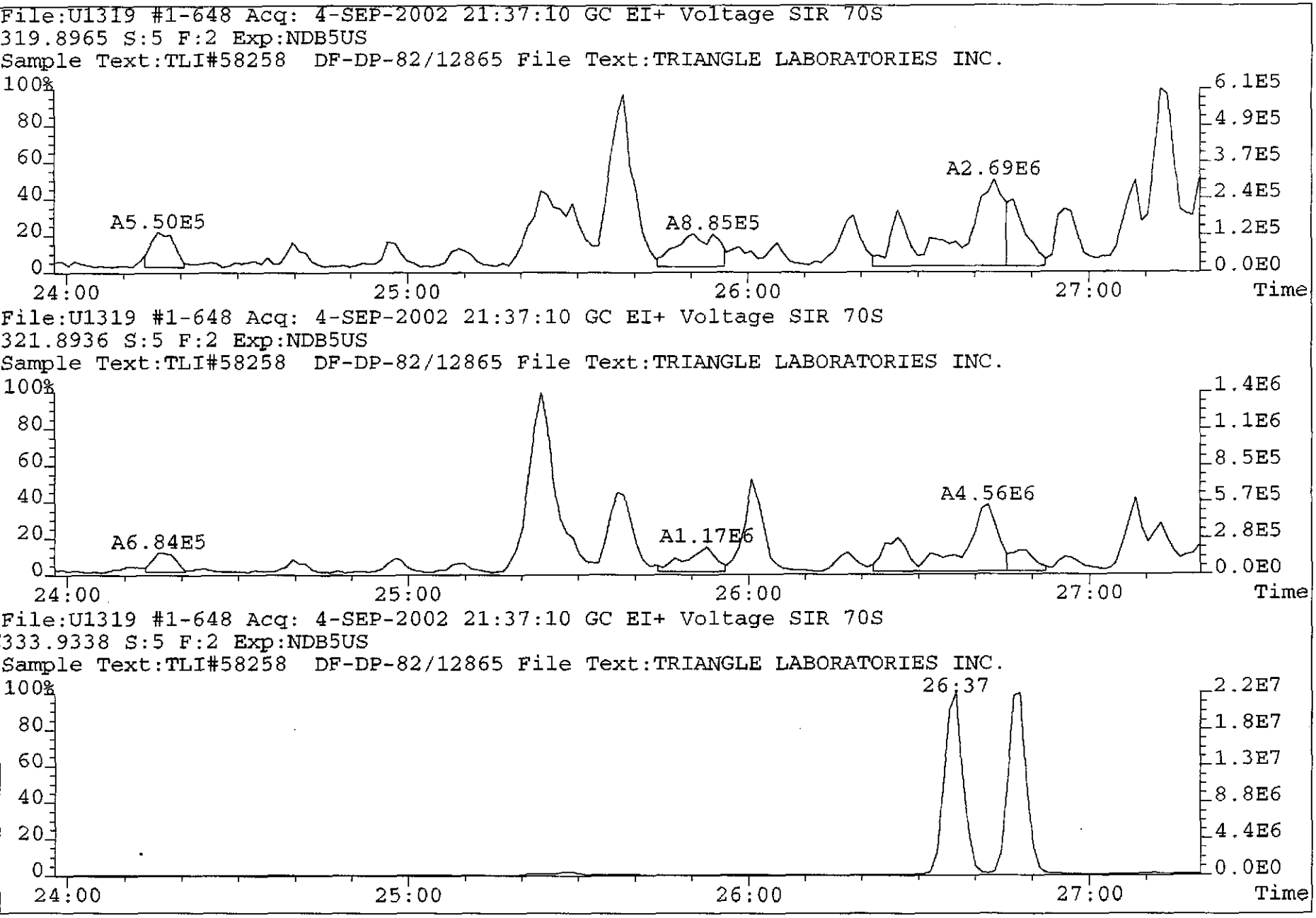
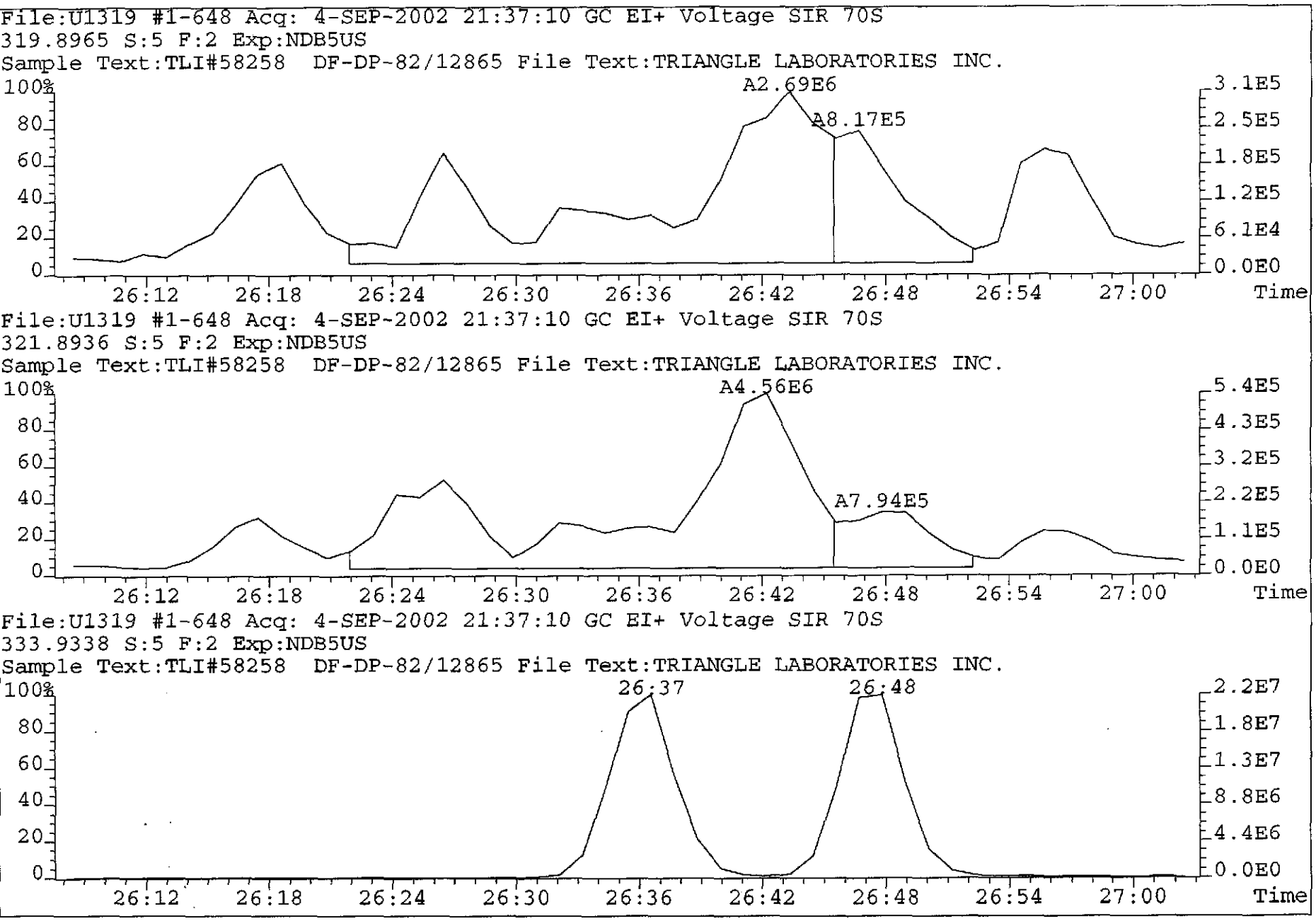
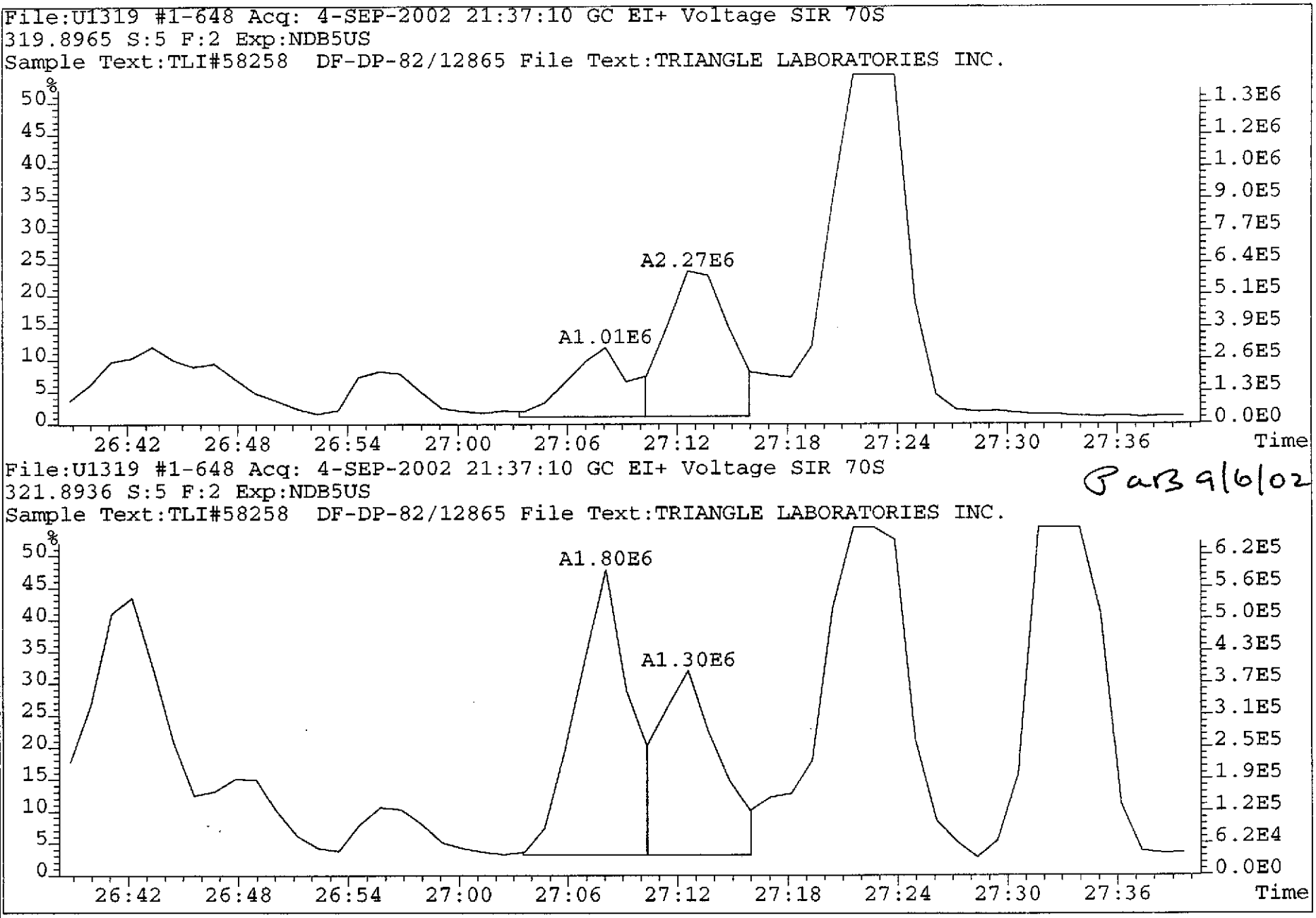

File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
319.8965 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A5.50E5
A8.85E5
A2.69E6
6.1E5
4.9E5
3.7E5
2.4E5
1.2E5
0.0E0
24:00
25:00
26:00
27:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
321.8936 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A6.84E5
A1.17E6
A4.56E6
1.4E6
1.1E6
8.5E5
5.7E5
2.8E5
0.0E0
24:00
25:00
26:00
27:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
333.9338 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
26:37
2.2E7
1.8E7
1.3E7
8.8E6
4.4E6
0.0E0
24:00
25:00
26:00
27:00
Time

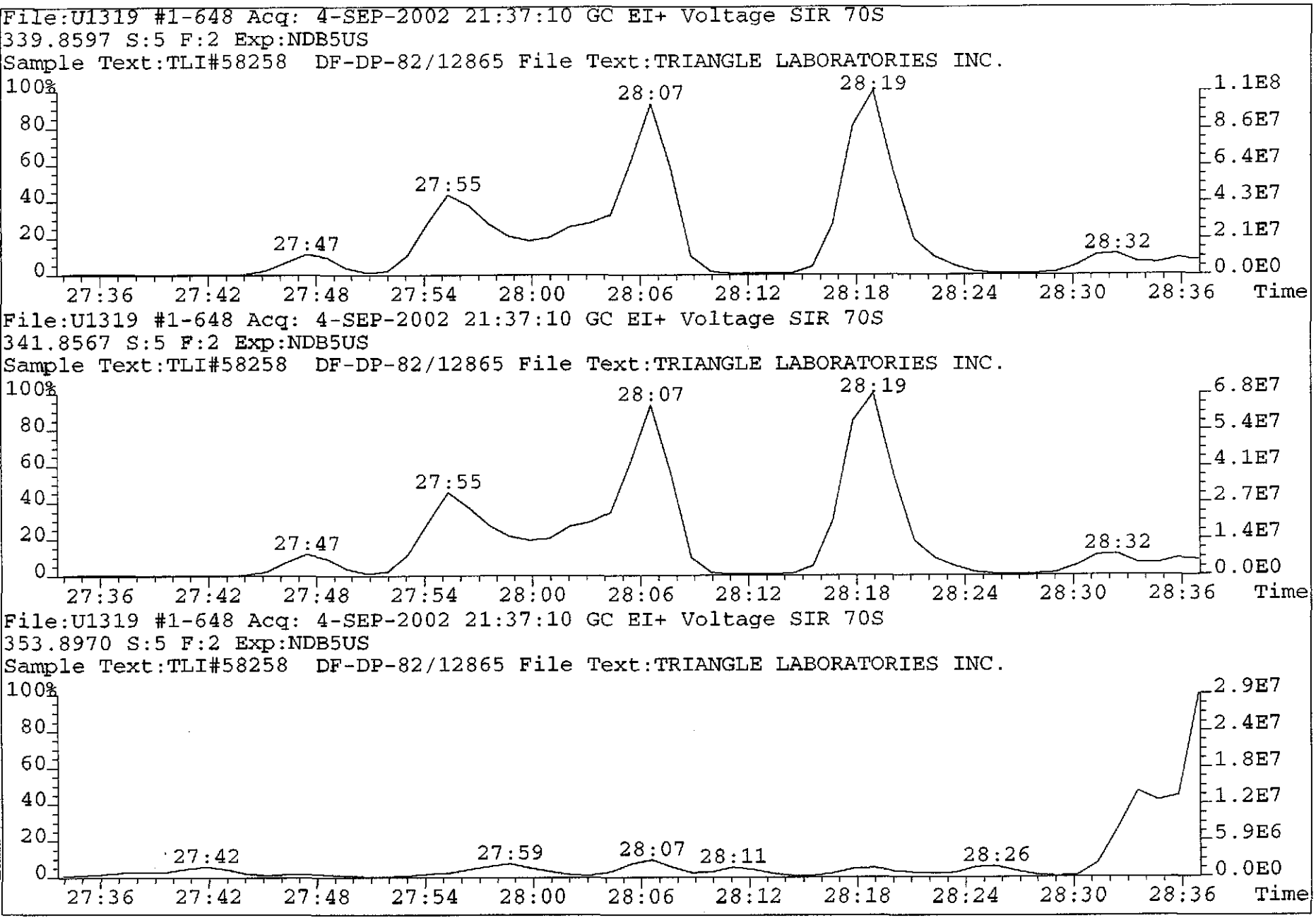
148


File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
319.8965 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A2.69E6
A8.17E5
100%
80
60
40
20
0
3.1E5
2.5E5
1.8E5
1.2E5
6.1E4
0.0E0
26:12
26:18
26:24
26:30
26:36
26:42
26:48
26:54
27:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
321.8936 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A4.56E6
A7.94E5
100%
80
60
40
20
0
5.4E5
4.3E5
3.2E5
2.2E5
1.1E5
0.0E0
26:12
26:18
26:24
26:30
26:36
26:42
26:48
26:54
27:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
333.9338 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
26:37
26:48
100%
80
60
40
20
0
2.2E7
1.8E7
1.3E7
8.8E6
4.4E6
0.0E0
26:12
26:18
26:24
26:30
26:36
26:42
26:48
26:54
27:00
Time

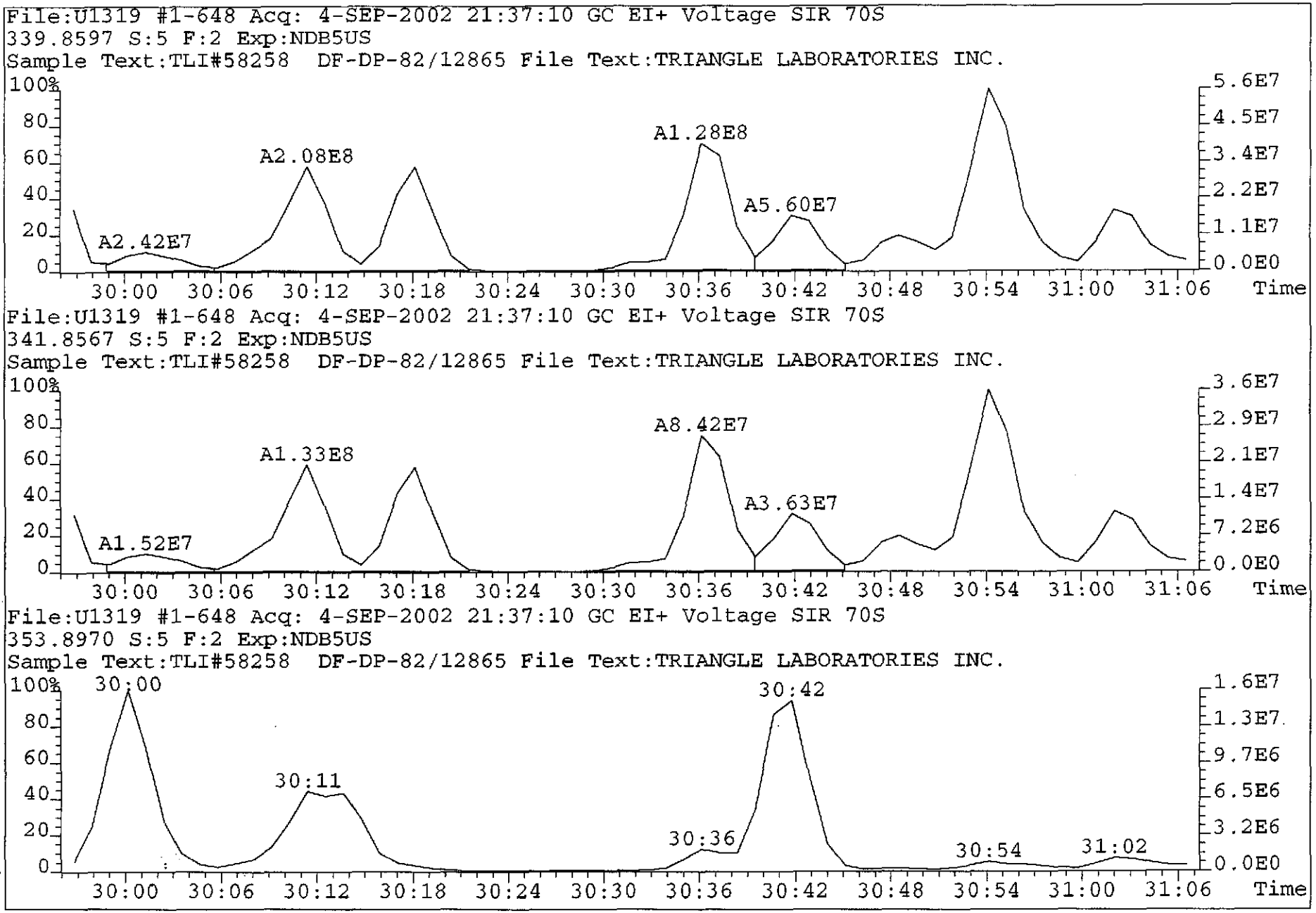

File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
319.8965 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
%
50
45
40
35
30
25
20
15
10
5
0
A2.27E6
A1.01E6
1.3E6
1.2E6
1.0E6
9.0E5
7.7E5
6.4E5
5.1E5
3.9E5
2.6E5
1.3E5
0.0E0
26:42
26:48
26:54
27:00
27:06
27:12
27:18
27:24
27:30
27:36
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
321.8936 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
%
50
45
40
35
30
25
20
15
10
5
0
A1.80E6
A1.30E6
6.2E5
5.6E5
5.0E5
4.3E5
3.7E5
3.1E5
2.5E5
1.9E5
1.2E5
6.2E4
0.0E0
26:42
26:48
26:54
27:00
27:06
27:12
27:18
27:24
27:30
27:36
Time

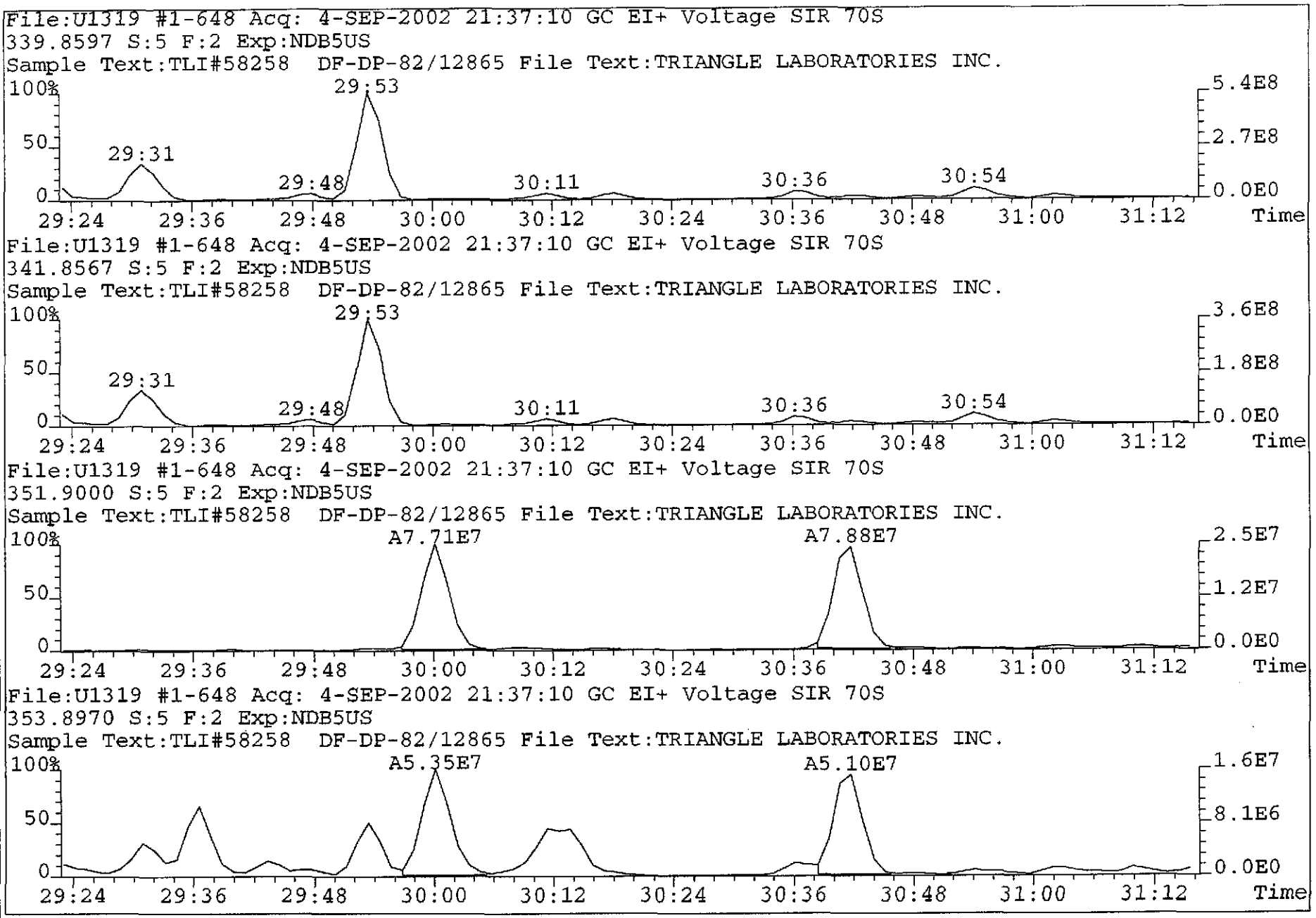
JAB 9/6/02

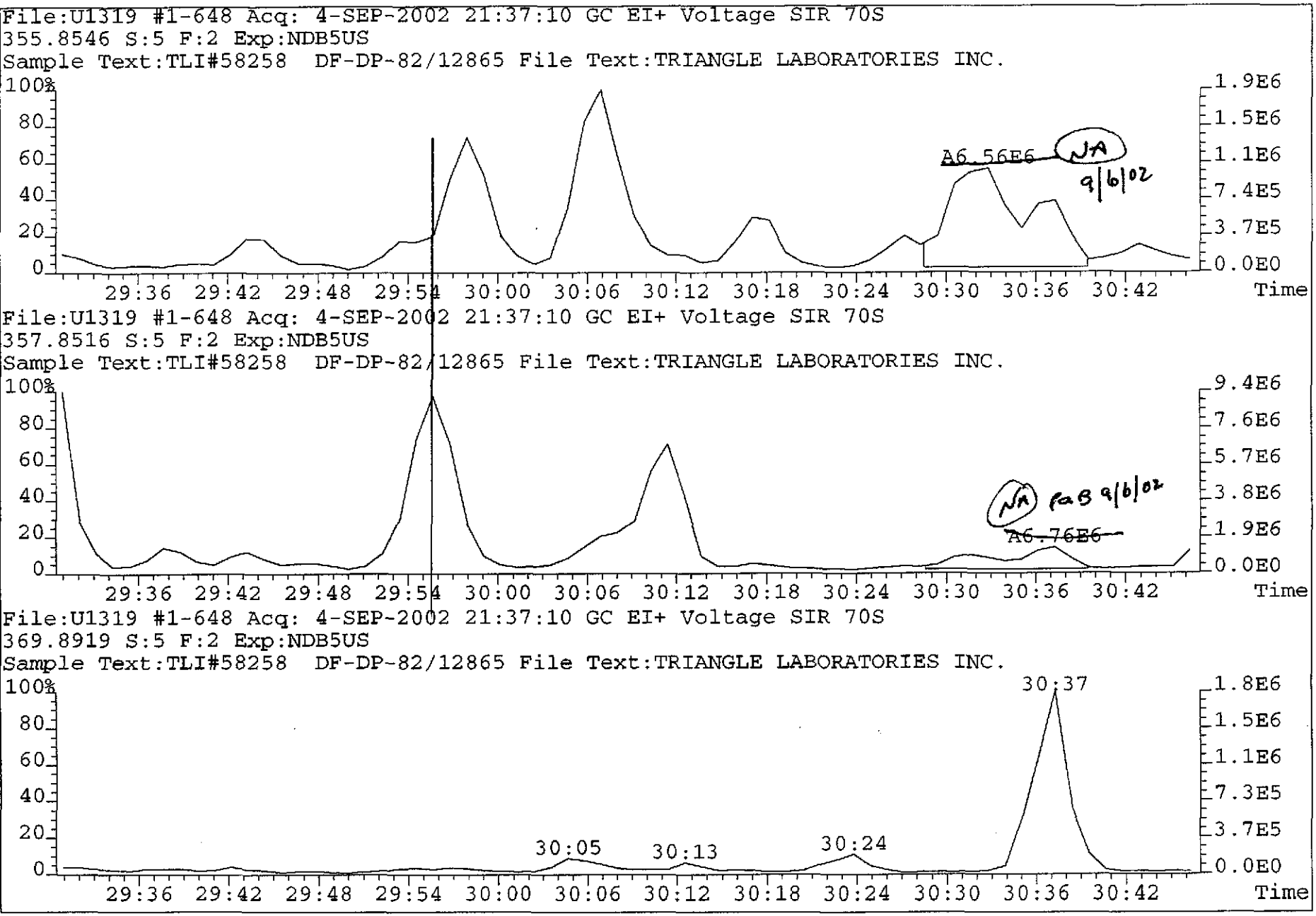
150


File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
339.8597 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
27:47
27:55
28:07
28:19
28:32
1.1E8
8.6E7
6.4E7
4.3E7
2.1E7
0.0E0
27:36 27:42 27:48 27:54 28:00 28:06 28:12 28:18 28:24 28:30 28:36 Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
341.8567 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
27:47
27:55
28:07
28:19
28:32
6.8E7
5.4E7
4.1E7
2.7E7
1.4E7
0.0E0
27:36 27:42 27:48 27:54 28:00 28:06 28:12 28:18 28:24 28:30 28:36 Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
353.8970 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
27:42
27:59
28:07
28:11
28:26
2.9E7
2.4E7
1.8E7
1.2E7
5.9E6
0.0E0
27:36 27:42 27:48 27:54 28:00 28:06 28:12 28:18 28:24 28:30 28:36 Time

151


File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
339.8597 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A2.42E7
A2.08E8
A1.28E8
A5.60E7
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
341.8567 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A1.52E7
A1.33E8
A8.42E7
A3.63E7
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
353.8970 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
30:00
30:11
30:36
30:42
30:54
31:02
Time


File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
339.8597 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
29:31
29:48
29:53
30:11
30:36
30:54
5.4E8
2.7E8
0.0E0
29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
341.8567 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
29:31
29:48
29:53
30:11
30:36
30:54
3.6E8
1.8E8
0.0E0
29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
351.9000 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A7.71E7
A7.88E7
2.5E7
1.2E7
0.0E0
29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
353.8970 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A5.35E7
A5.10E7
1.6E7
8.1E6
0.0E0
29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 Time


File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
355.8546 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
1.9E6
1.5E6
1.1E6
7.4E5
3.7E5
0.0E0
A6.56E6
NA
9/6/02
29:36 29:42 29:48 29:54 30:00 30:06 30:12 30:18 30:24 30:30 30:36 30:42
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
357.8516 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
9.4E6
7.6E6
5.7E6
3.8E6
1.9E6
0.0E0
NA
FAB 9/6/02
A6.76E6
29:36 29:42 29:48 29:54 30:00 30:06 30:12 30:18 30:24 30:30 30:36 30:42
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
369.8919 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
1.8E6
1.5E6
1.1E6
7.3E5
3.7E5
0.0E0
30:37
30:05
30:13
30:24
29:36 29:42 29:48 29:54 30:00 30:06 30:12 30:18 30:24 30:30 30:36 30:42
Time

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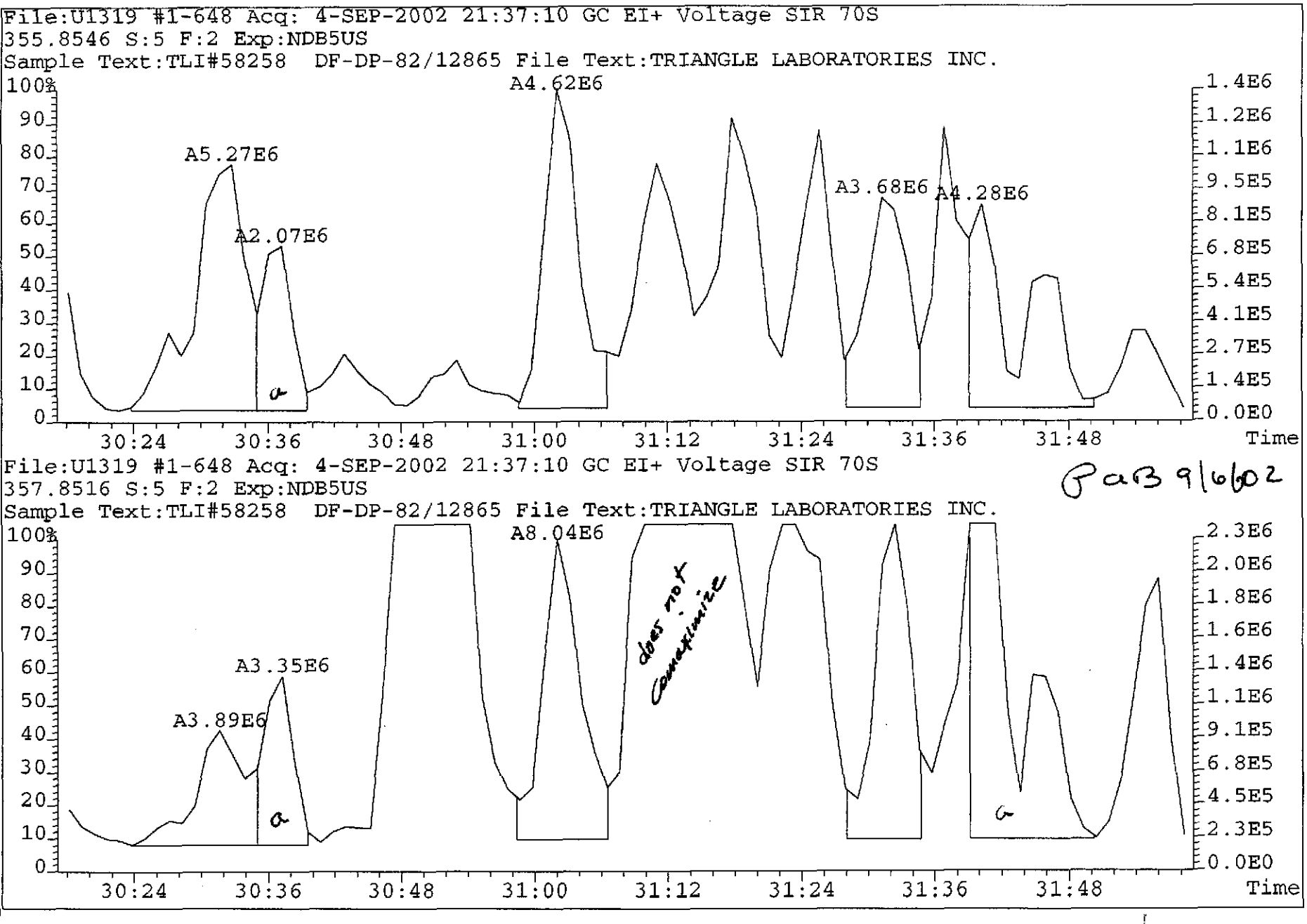
9/6/02


File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
355.8546 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A4.62E6
A5.27E6
A3.68E6
A4.28E6
A2.07E6
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
357.8516 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A8.04E6
A3.35E6
A3.89E6
does not contain
Time

Pab 9/6/02

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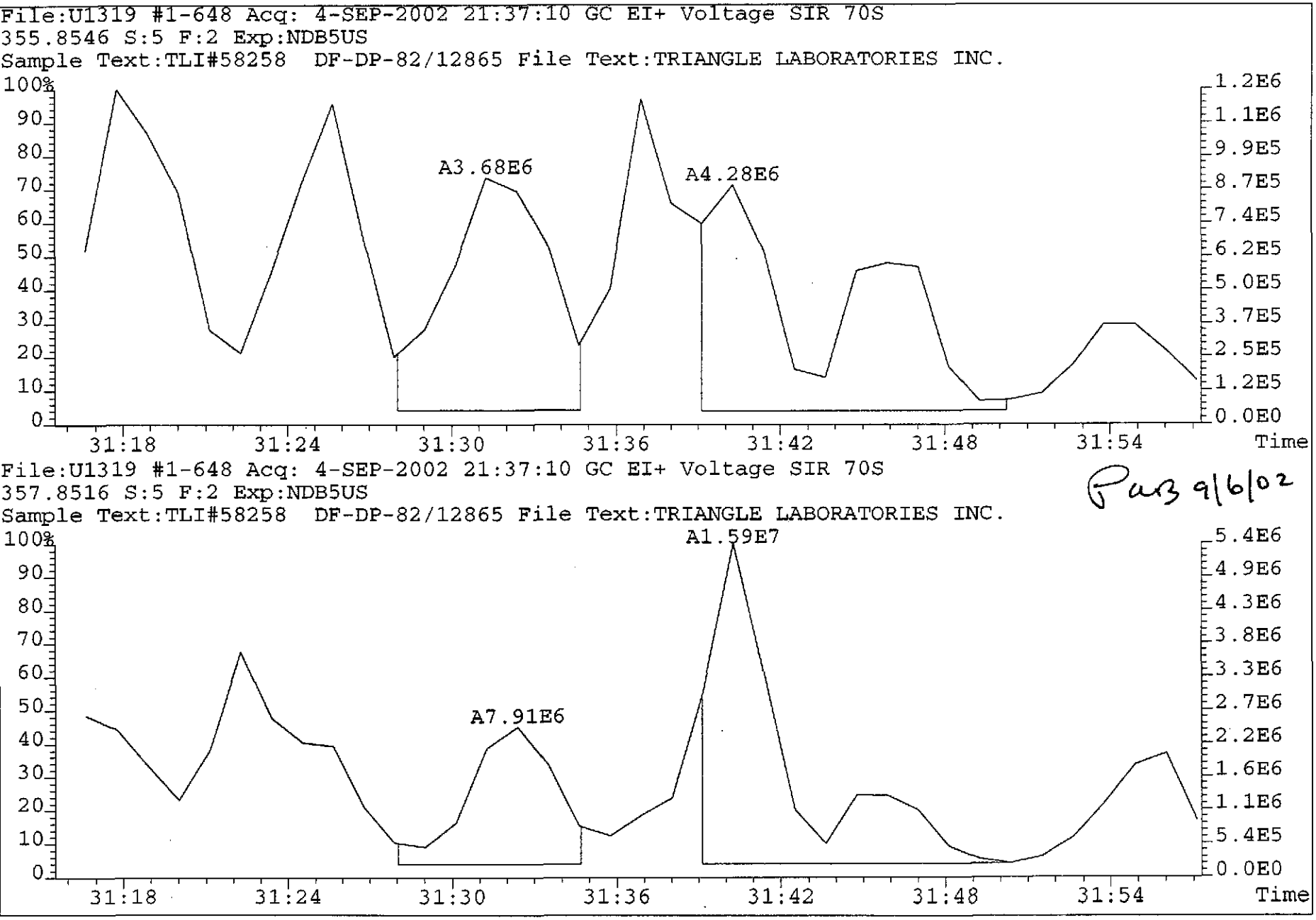
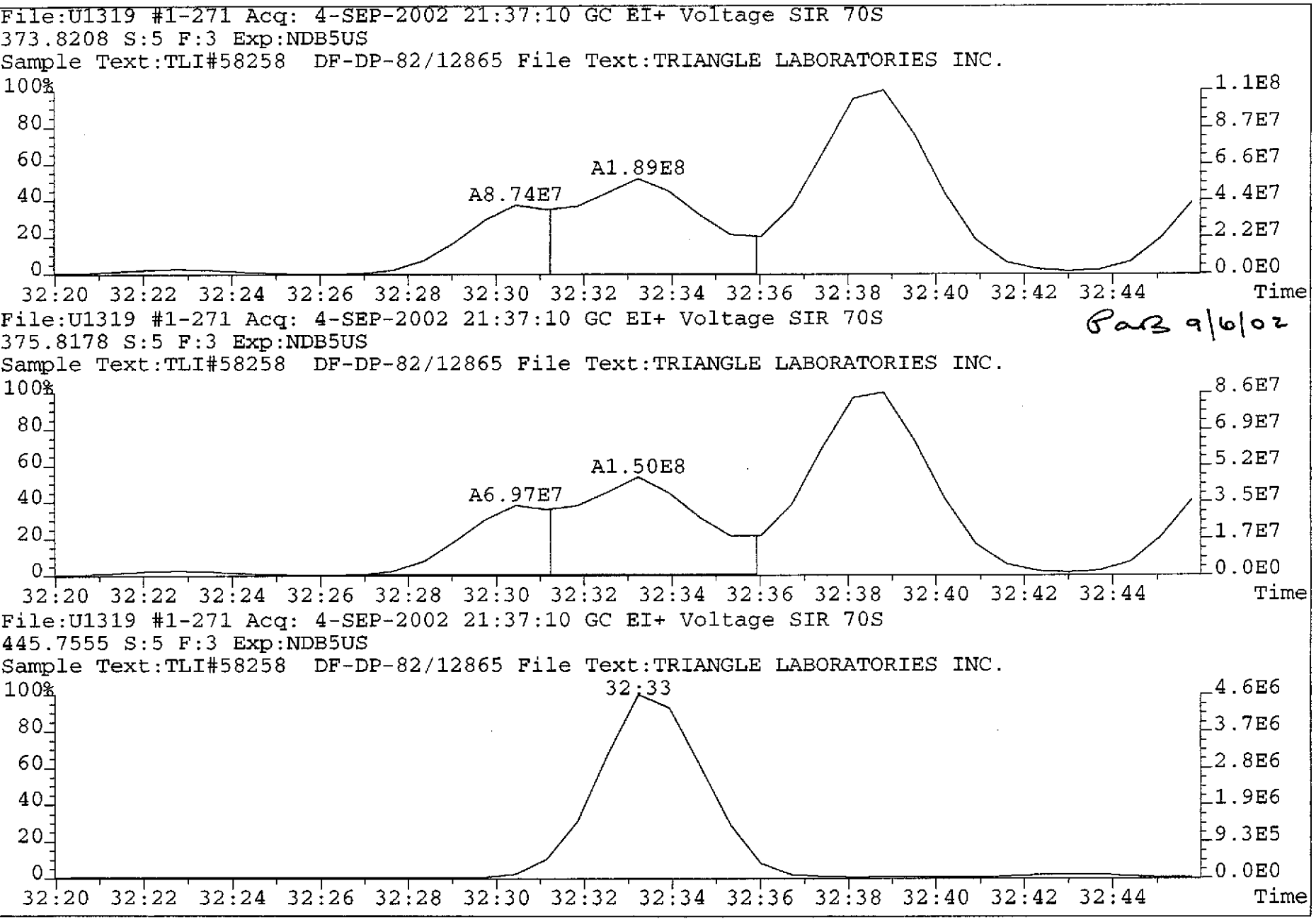
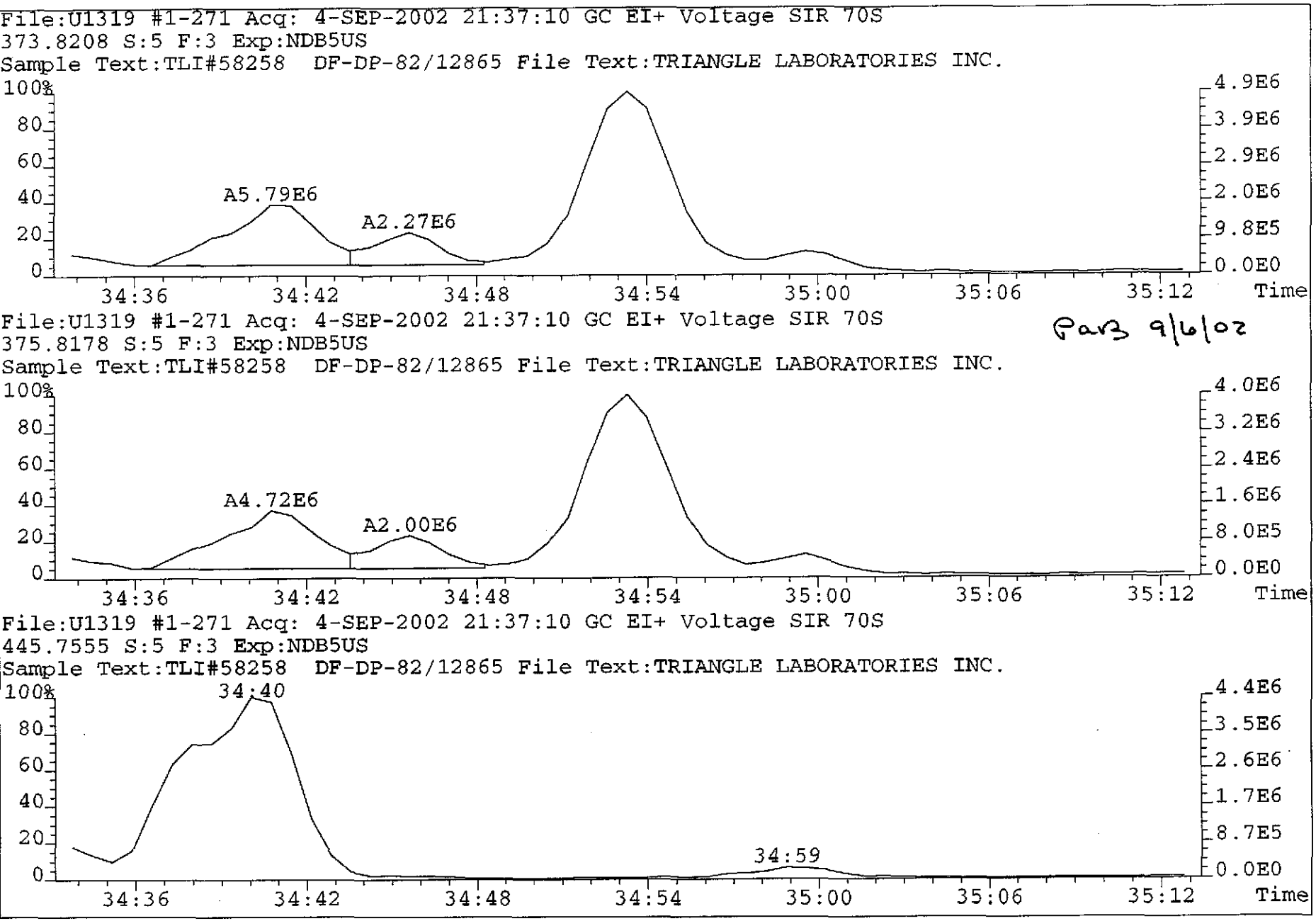

File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
355.8546 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
90
80
70
60
50
40
30
20
10
0
A3.68E6
A4.28E6
1.2E6
1.1E6
9.9E5
8.7E5
7.4E5
6.2E5
5.0E5
3.7E5
2.5E5
1.2E5
0.0E0
31:18
31:24
31:30
31:36
31:42
31:48
31:54
Time
File:U1319 #1-648 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
357.8516 S:5 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
90
80
70
60
50
40
30
20
10
0
A1.59E7
A7.91E6
5.4E6
4.9E6
4.3E6
3.8E6
3.3E6
2.7E6
2.2E6
1.6E6
1.1E6
5.4E5
0.0E0
31:18
31:24
31:30
31:36
31:42
31:48
31:54
Time

PAB 9/6/02


File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
373.8208 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A8.74E7
A1.89E8
1.1E8
8.7E7
6.6E7
4.4E7
2.2E7
0.0E0
32:20 32:22 32:24 32:26 32:28 32:30 32:32 32:34 32:36 32:38 32:40 32:42 32:44
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
375.8178 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A6.97E7
A1.50E8
8.6E7
6.9E7
5.2E7
3.5E7
1.7E7
0.0E0
32:20 32:22 32:24 32:26 32:28 32:30 32:32 32:34 32:36 32:38 32:40 32:42 32:44
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
445.7555 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
32:33
4.6E6
3.7E6
2.8E6
1.9E6
9.3E5
0.0E0
32:20 32:22 32:24 32:26 32:28 32:30 32:32 32:34 32:36 32:38 32:40 32:42 32:44
Time

Barb 9/6/02


File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
373.8208 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A5.79E6
A2.27E6
4.9E6
3.9E6
2.9E6
2.0E6
9.8E5
0.0E0
34:36
34:42
34:48
34:54
35:00
35:06
35:12
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
375.8178 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A4.72E6
A2.00E6
4.0E6
3.2E6
2.4E6
1.6E6
8.0E5
0.0E0
34:36
34:42
34:48
34:54
35:00
35:06
35:12
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
445.7555 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
34:40
34:59
4.4E6
3.5E6
2.6E6
1.7E6
8.7E5
0.0E0
34:36
34:42
34:48
34:54
35:00
35:06
35:12
Time

PaB 9/6/02

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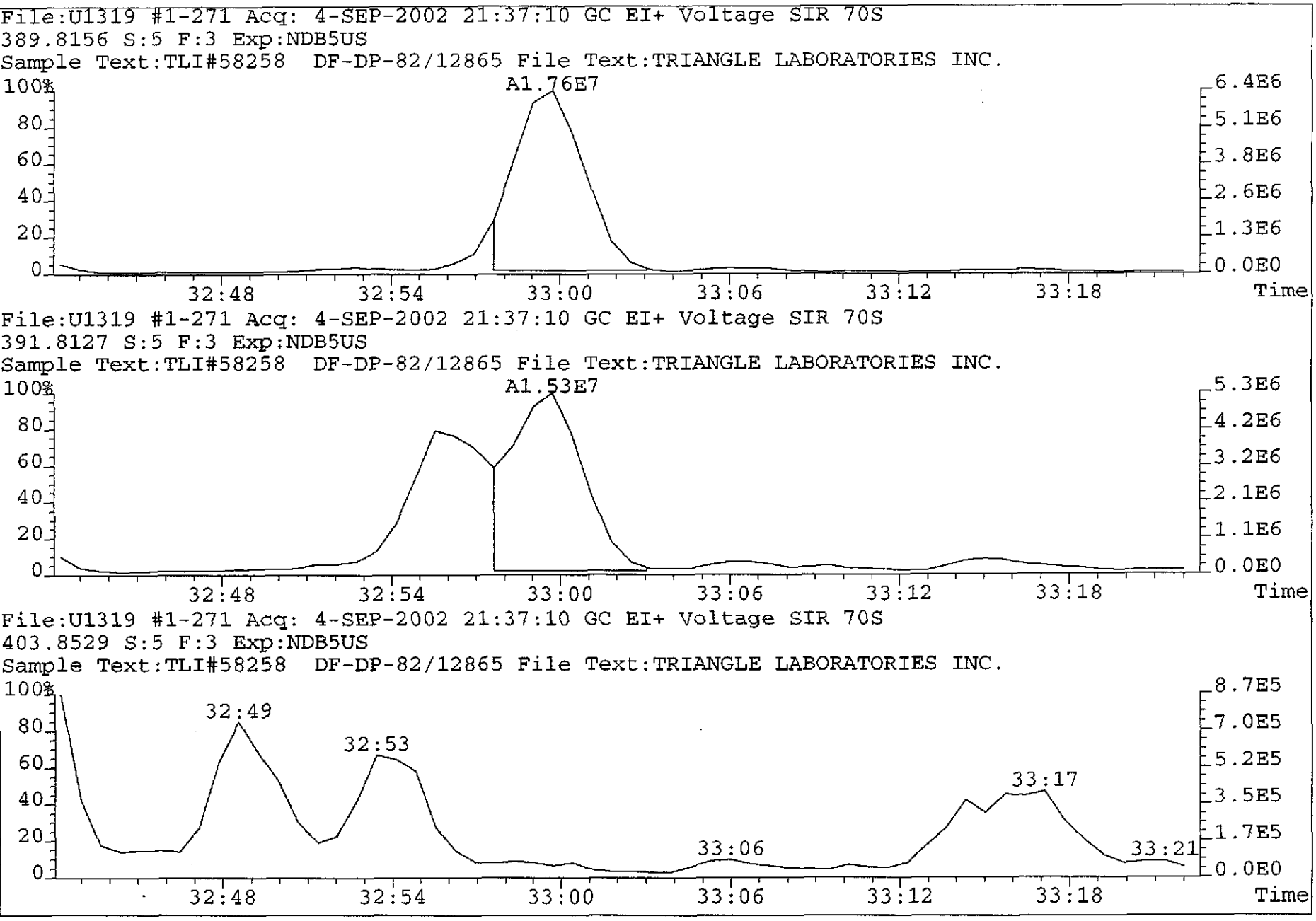
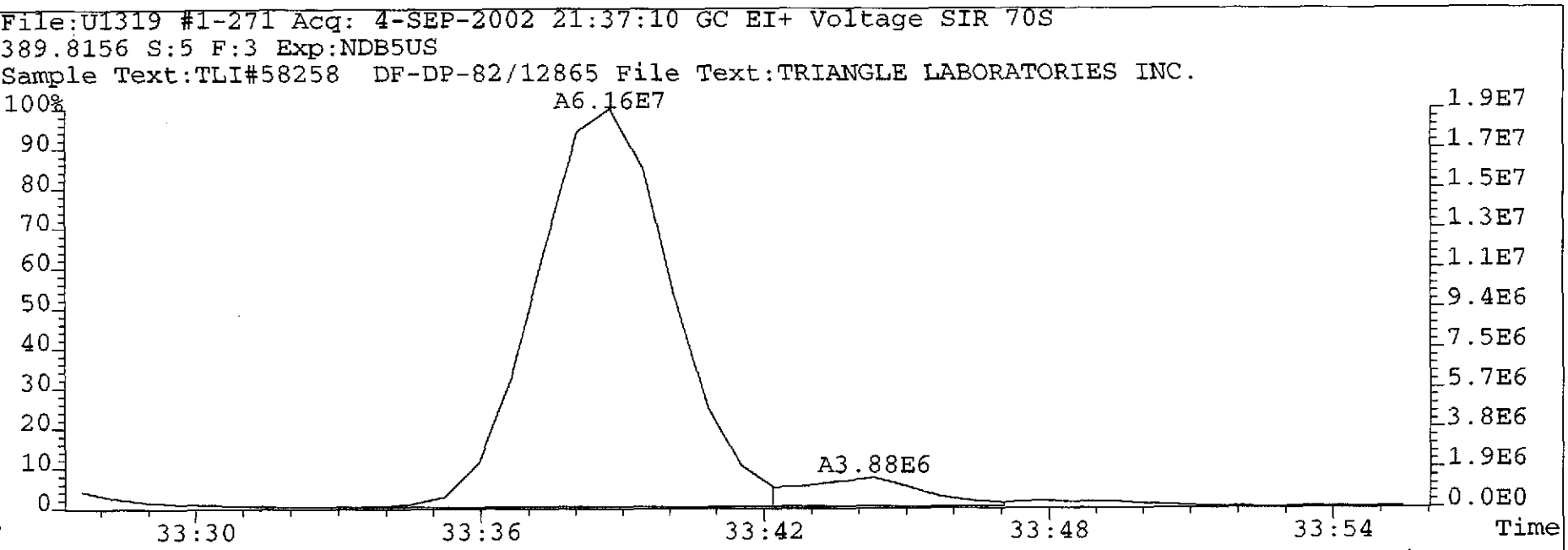
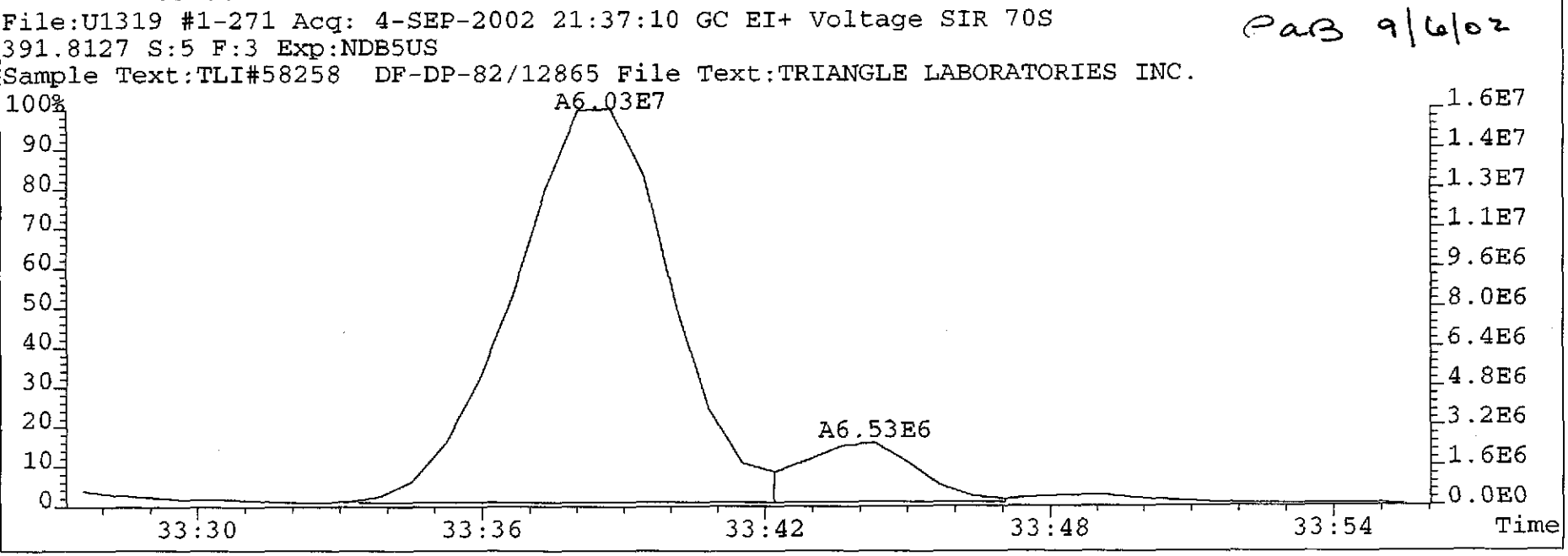

File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
389.8156 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A1.76E7
100%
80
60
40
20
0
6.4E6
5.1E6
3.8E6
2.6E6
1.3E6
0.0E0
32:48
32:54
33:00
33:06
33:12
33:18
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
391.8127 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A1.53E7
100%
80
60
40
20
0
5.3E6
4.2E6
3.2E6
2.1E6
1.1E6
0.0E0
32:48
32:54
33:00
33:06
33:12
33:18
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
403.8529 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
100%
32:49
32:53
33:06
33:17
33:21
80
60
40
20
0
8.7E5
7.0E5
5.2E5
3.5E5
1.7E5
0.0E0
32:48
32:54
33:00
33:06
33:12
33:18
Time

159


File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
389.8156 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A6.16E7
A3.88E6
100%
90
80
70
60
50
40
30
20
10
0
1.9E7
1.7E7
1.5E7
1.3E7
1.1E7
9.4E6
7.5E6
5.7E6
3.8E6
1.9E6
0.0E0
33:30
33:36
33:42
33:48
33:54
Time


File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
391.8127 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A6.03E7
A6.53E6
100%
90
80
70
60
50
40
30
20
10
0
1.6E7
1.4E7
1.3E7
1.1E7
9.6E6
8.0E6
6.4E6
4.8E6
3.2E6
1.6E6
0.0E0
33:30
33:36
33:42
33:48
33:54
Time

PaB 9/6/02

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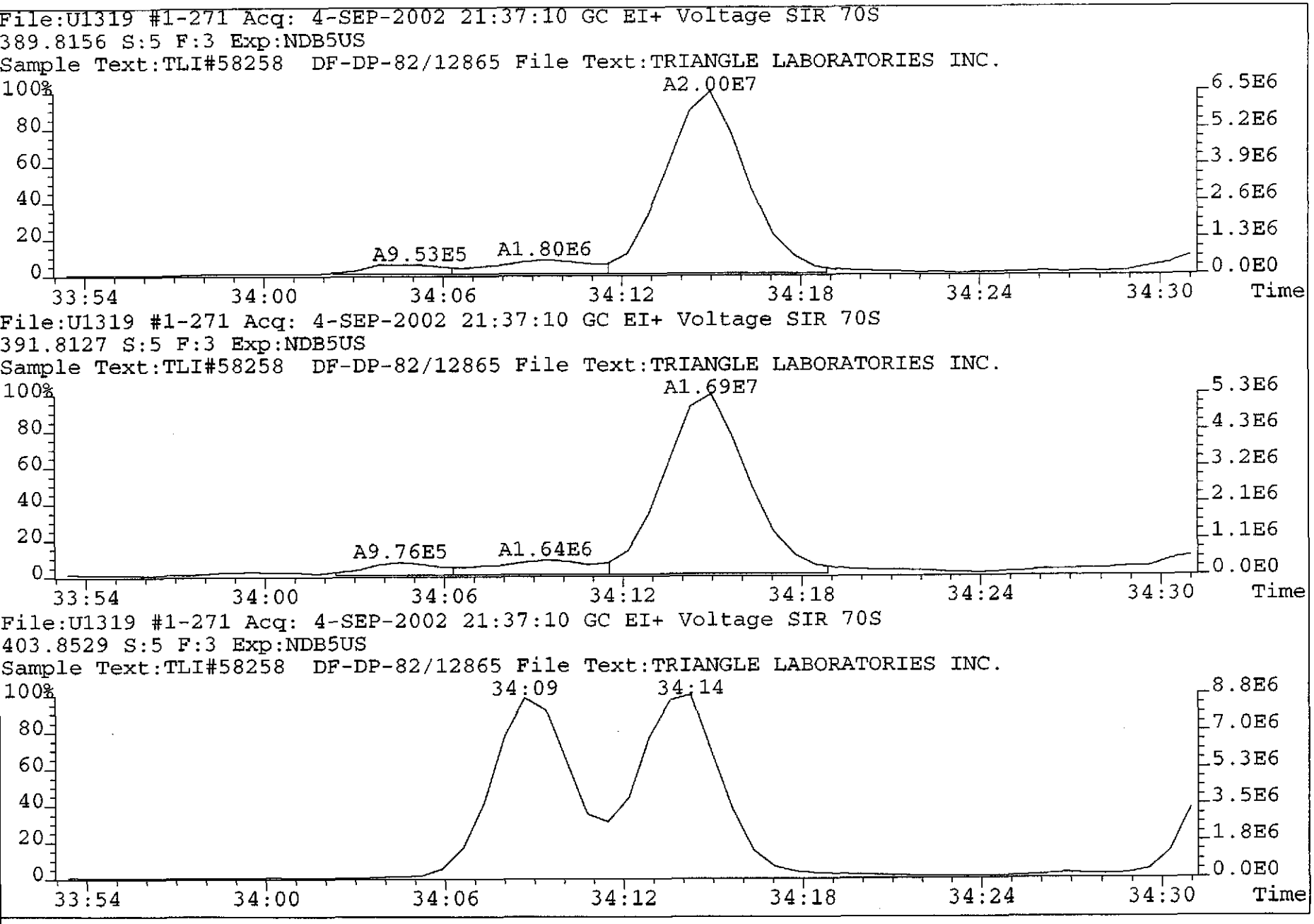
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
389.8156 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A2.00E7
A9.53E5
A1.80E6
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
391.8127 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A1.69E7
A9.76E5
A1.64E6
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
403.8529 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
34:09
34:14
Time

Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **DF-DP-82/12865** Analysis File: **U131905**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/2002**	Spike File:	**SPMIT32S**
TLI ID:	**334-48-3**	Date Extracted:	**08/28/2002**	ICal:	**UF57092**
		Date Analyzed:	**09/04/2002**	ConCal:	**U021317**
Sample Size:	**11.500 g**	Dilution Factor:	**n/a**	% Moisture:	**12.6**
Dry Weight:	**10.051 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JWL**	% Solids:	**87.4**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	EMPC		0.19			J__
1,2,3,7,8-PeCDD	EMPC		14.3			__
1,2,3,4,7,8-HxCDD	9.9			1.10	34:09	__
1,2,3,6,7,8-HxCDD	104			1.18	34:15	__
1,2,3,7,8,9-HxCDD	38.2			1.06	34:34	__
1,2,3,4,6,7,8-HpCDD	433			1.01	37:31	__
1,2,3,4,6,7,8,9-OCDD	3440			0.89	41:08	__
2,3,7,8-TCDF	197			0.78	26:05	__
1,2,3,7,8-PeCDF	47.8			1.59	30:01	__
2,3,4,7,8-PeCDF	114			1.54	30:42	__
1,2,3,4,7,8-HxCDF	1500			1.25	33:26	__
1,2,3,6,7,8-HxCDF	135			1.26	33:34	__
2,3,4,6,7,8-HxCDF	130			1.26	34:03	__
1,2,3,7,8,9-HxCDF	ND	0.3				__
1,2,3,4,6,7,8-HpCDF	4720			1.05	36:29	E__
1,2,3,4,7,8,9-HpCDF	176			1.04	38:01	__
1,2,3,4,6,7,8,9-OCDF	1750			0.89	41:20	__

Totals	Conc. (pg/g)	Number	DL	EMPC	Flags
Total TCDD	21.6	6		60.0	Q__
Total PeCDD	17.2	1		66.2	__
Total HxCDD	270	5		614	__
Total HpCDD	749	2			__
Total TCDF	4400	17			E__
Total PeCDF	13590	15		13990	E__
Total HxCDF	6900	14		7720	XE_
Total HpCDF	8200	3			E__

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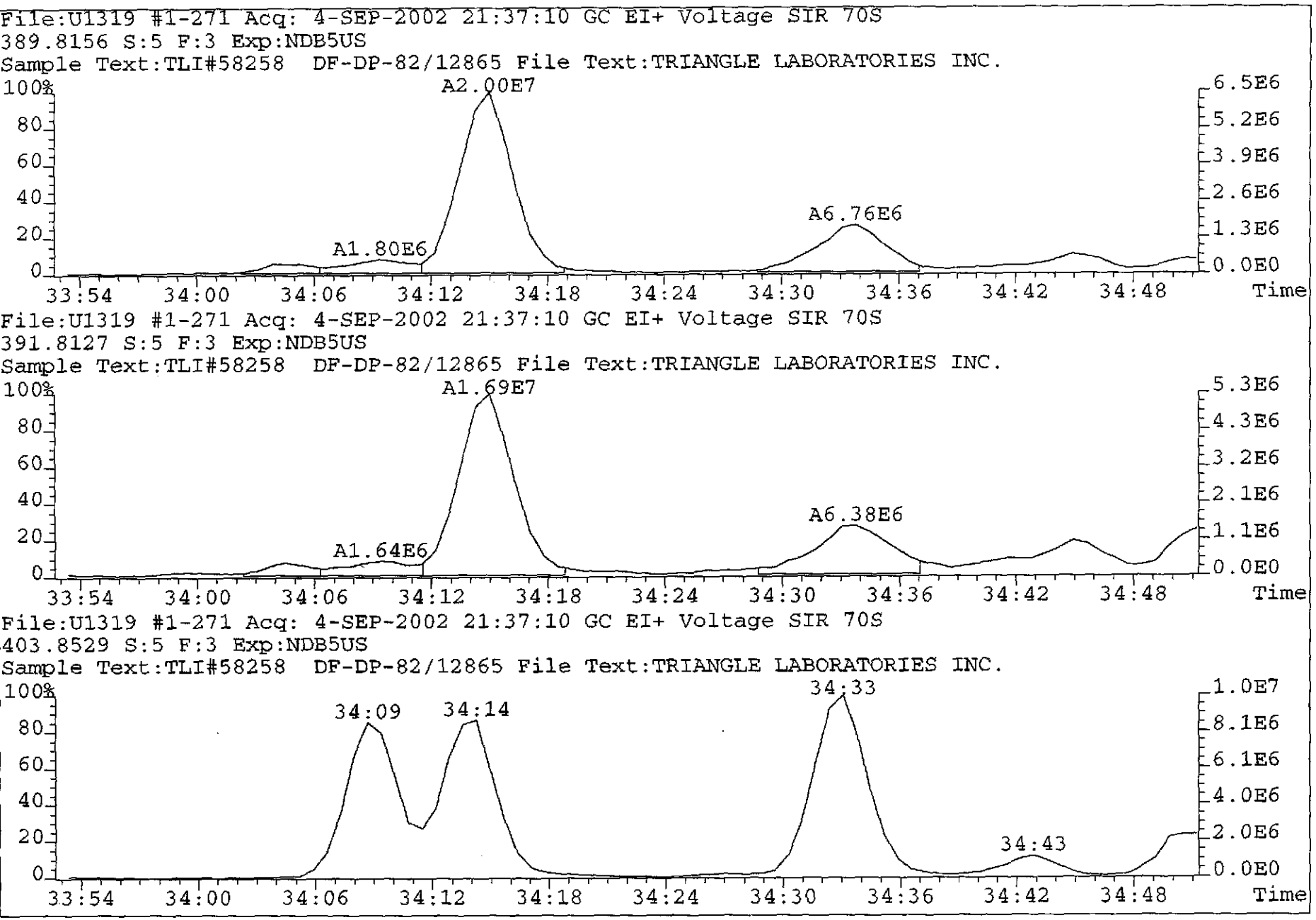
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
389.8156 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A2.00E7
A6.76E6
A1.80E6
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
391.8127 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
A1.69E7
A6.38E6
A1.64E6
Time
File:U1319 #1-271 Acq: 4-SEP-2002 21:37:10 GC EI+ Voltage SIR 70S
403.8529 S:5 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-82/12865 File Text:TRIANGLE LABORATORIES INC.
34:33
34:09
34:14
34:43
Time

Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 TCDD/TCDF Analysis (DB-225)
Client Sample: **DF-DP-82/12865** Analysis File: **P023220**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/2002**	Spike File:	**SPC2NF2S**
TLI ID:	**334-48-3**	Date Extracted:	**08/28/2002**	ICal:	**PF56152**
		Date Analyzed:	**09/05/2002**	ConCal:	**P023216**
Sample Size:	**11.500 g**	Dilution Factor:	**n/a**	% Moisture:	**12.6**
Dry Weight:	**10.051 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-225**	Analyst:	**JMM**	% Solids:	**87.4**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDF	103			0.77	22:41	___

Internal Standard	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	183	92.2	40%-130%	0.78	22:40	___

Recovery Standard	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.83	21:34	___

Data Reviewer: PAB 09/06/2002

C2NF_PSR v2.03, LARS 6.25.05

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Printed: 02:50 09/06/2002

Initial ....Date...

Data Review By: PaB 9/6/02

Channel specific noise levels computed from 'NL' heights.

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of P023220B.dbf
09/06/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF						0.65-0.89				0.792-1.102			
304-306	DC	NL				Height	0.27	0.13	0.14				
N				18:26		0.80	29.87	13.32	16.55	0.999			
				18:45		0.76	34.83	15.02	19.81	1.016			
				18:51		0.76	279.30	120.45	158.85	1.022			
				18:57		0.78	1,810.45	791.17	1,019.28	1.027			E
				19:11	RO	0.90	103.85	53.09	58.67	1.040			
				19:20		0.75	518.49	222.56	295.93	1.048			
				19:50		0.66	20.63	8.18	12.45	1.075			
				20:00		0.75	130.02	55.79	74.23	1.084			
				20:07		0.69	15.91	6.49	9.42	1.090			
				20:17		0.76	166.87	71.97	94.90	1.099			
	DC	WH		20:30		0.74	377.68			1.111			
	DC	WH		20:48	RO	0.64	39.97			1.127			
	DC	WH		20:58		0.75	1,095.82			1.136			
	DC	WH		21:10		0.77	2,235.33			1.147			
	DC	WH		21:30		0.66	88.91			1.165			
	DC	WH		21:36		0.77	211.19			1.171			
	DC	WH		21:40		0.74	362.68			1.174			
	DC	WH		21:52		0.74	180.41			1.185			
	DC	WH		22:08		0.66	43.78			1.200			
	DC	WH		22:18		0.74	136.48			1.209			
	DC	WH		22:24		0.65	63.03			1.214			
	DC	WH		22:34		0.77	283.31			1.223			
KNM				22:41		0.77	420.00	183.00	237.00	1.229	2378-TCDF	AN	
	DC	WH		22:53		0.69	111.68			1.240			
	DC	WH		23:05		0.70	336.61			1.251			
	DC	WH		23:21		0.75	5,278.09			1.266			
	DC	WH		23:31	RO	0.07	9.82			1.275			
	DC	WH		23:41	RO	0.50	147.51			1.284			
	DC	WH		23:49		0.72	43.91			1.291			
	DC	WH		24:06		0.80	136.10			1.306			
	DC	WH		24:23		0.73	260.12			1.322			
	DC	WH		24:33		0.78	473.54			1.331			
	DC	WH		25:05		0.78	245.86			1.360			
	DC	WH		25:15	RO	0.92	29.79			1.369			
304-306			11 Peaks				3,530.22						
13C12-TCDF						0.65-0.89				0.956-1.044			
316-318	DC	NL				Height	0.42	0.18	0.24				
				17:56		0.78	16.36	7.19	9.17	0.972			
N				18:27		0.77	5,157.05	2,243.85	2,913.20	1.000			
				19:13	RO	0.63	27.58	12.00	19.12	1.042			
	DC	WH		19:55	RO	1.27	5.61			1.079			

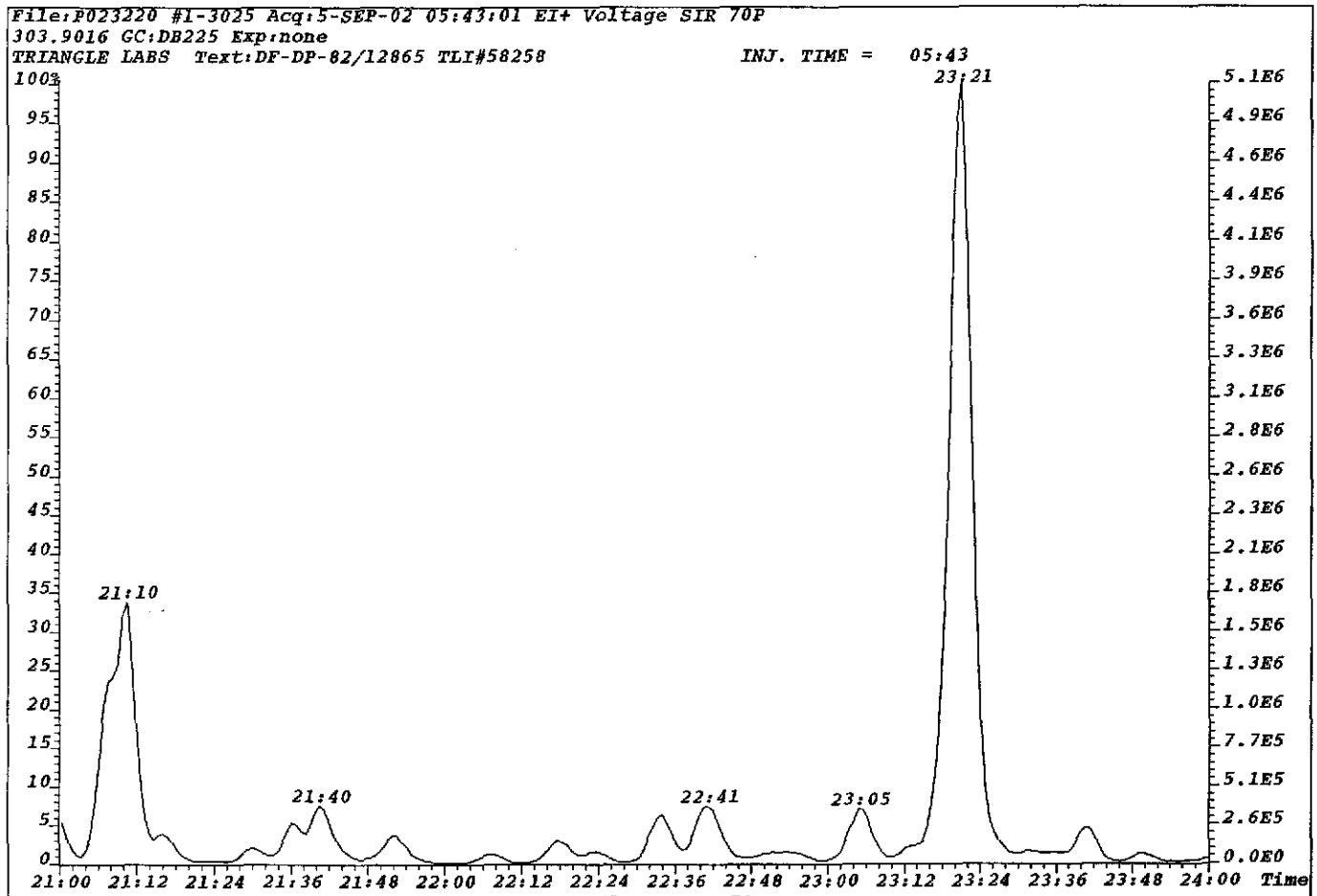
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
		DC	WH	20:06	RO	0.33	9.88			1.089			
		DC	WH	20:17	RO	0.29	7.38			1.099			
		DC	WH	20:33	RO	0.51	43.08			1.114			
		DC	WH	20:48		0.67	5.80			1.127			
		DC	WH	21:03	RO	0.43	11.38			1.141			
		DC	WH	21:08	RO	1.52	1.43			1.145			
		DC	WH	21:14	RO	0.51	2.92			1.151			
		DC	WH	21:28	RO	0.33	3.01			1.164			
		DC	WH	21:30	RO	1.21	1.19			1.165			
		DC	WH	22:05		0.88	5.24			1.197			
		DC	WH	22:21	RO	1.12	14.58			1.211			
		DC	WH	22:28	RO	1.06	16.89			1.218			
	KNM			22:40		0.78	727.00	319.00	408.00	1.229	13C12-2378-TCDF	IS0	
						Height	160.51	68.94	91.57				
		DC	WH	22:55	RO	0.39	75.19			1.242			
		DC	WH	23:21		0.68	1,162.74			1.266			
316-318			4	Peaks			5,927.99						

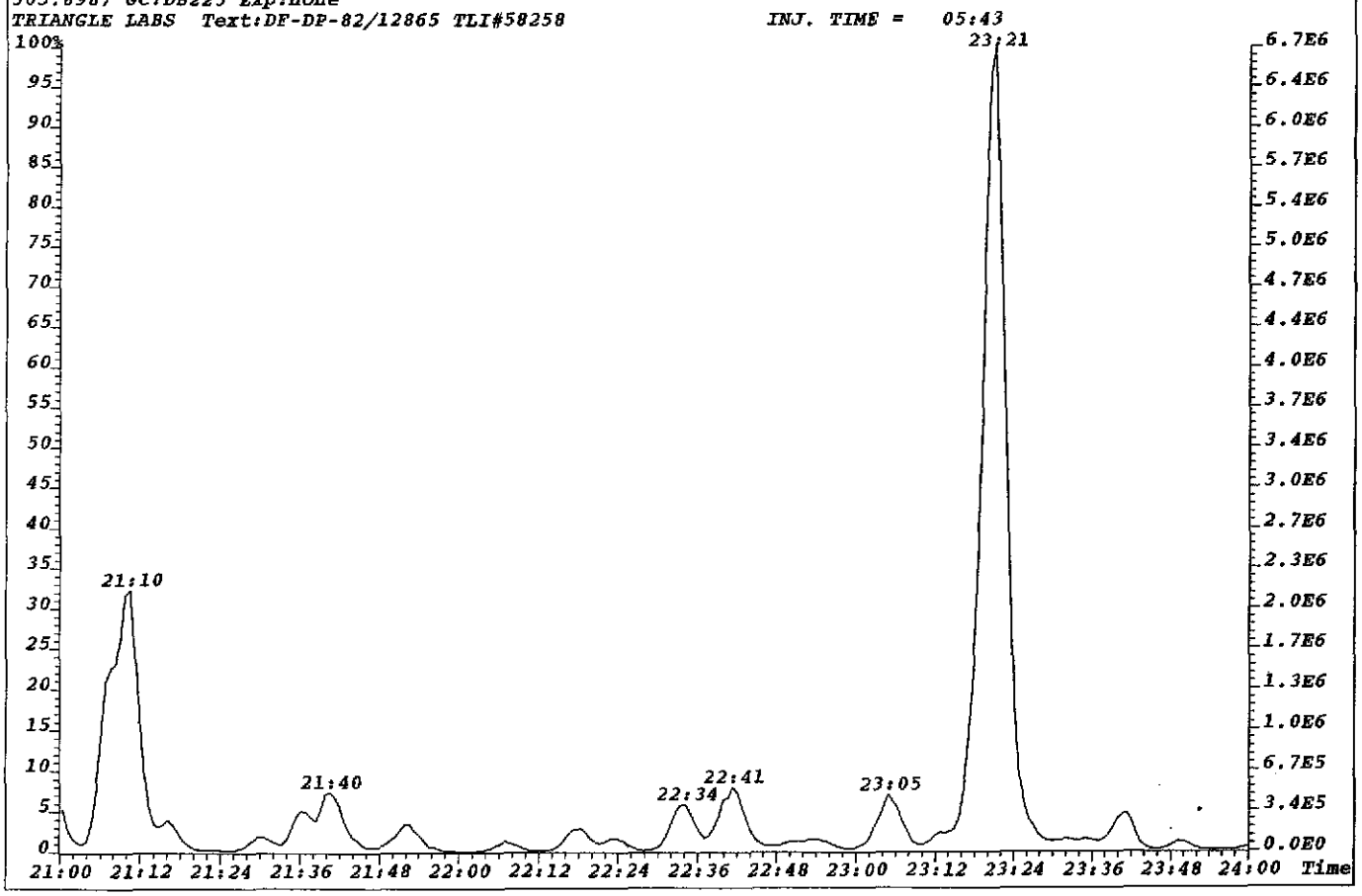
---------- Above: TCDF / TCDD Follows ----------

13C12-TCDD						0.65-0.89				0.906-1.094			
332-334		DC	NL			Height	0.49	0.34	0.15				
		DC	WL	18:49		0.68	0.32			0.872			
		DC	WL	18:56	RO	1.48	1.17			0.878			
		DC	WL	19:07	RO	2.26	2.85			0.886			
		DC	SN	19:34	RO	1.87	1.12			0.907			
	N			21:16		0.80	493.01	219.66	273.35	0.986	13C12-2378-TCDD	IS1	
						Height	119.13	52.97	66.16				
	N			21:34		0.83	519.29	235.41	283.88	1.000	13C12-1234-TCDD	RS1	
		DC	SN	21:44	RO	3.14	0.25			1.008			
		DC	SN	21:58	RO	1.79	0.25			1.019			
		DC	SN	22:03	RO	1.00	0.87			1.022			
				23:19		0.71	1.16	0.48	0.68	1.081			
		DC	SN	23:23	RO	0.22	0.21			1.084			
				23:29	RO	1.76	1.58	1.57	0.89	1.089			
		DC	WH	23:40	RO	2.46	0.50			1.097			
332-334			4	Peaks			1,015.04						

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

*** End of Report ***


File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
23:21
21:10
21:40
22:41
23:05
Time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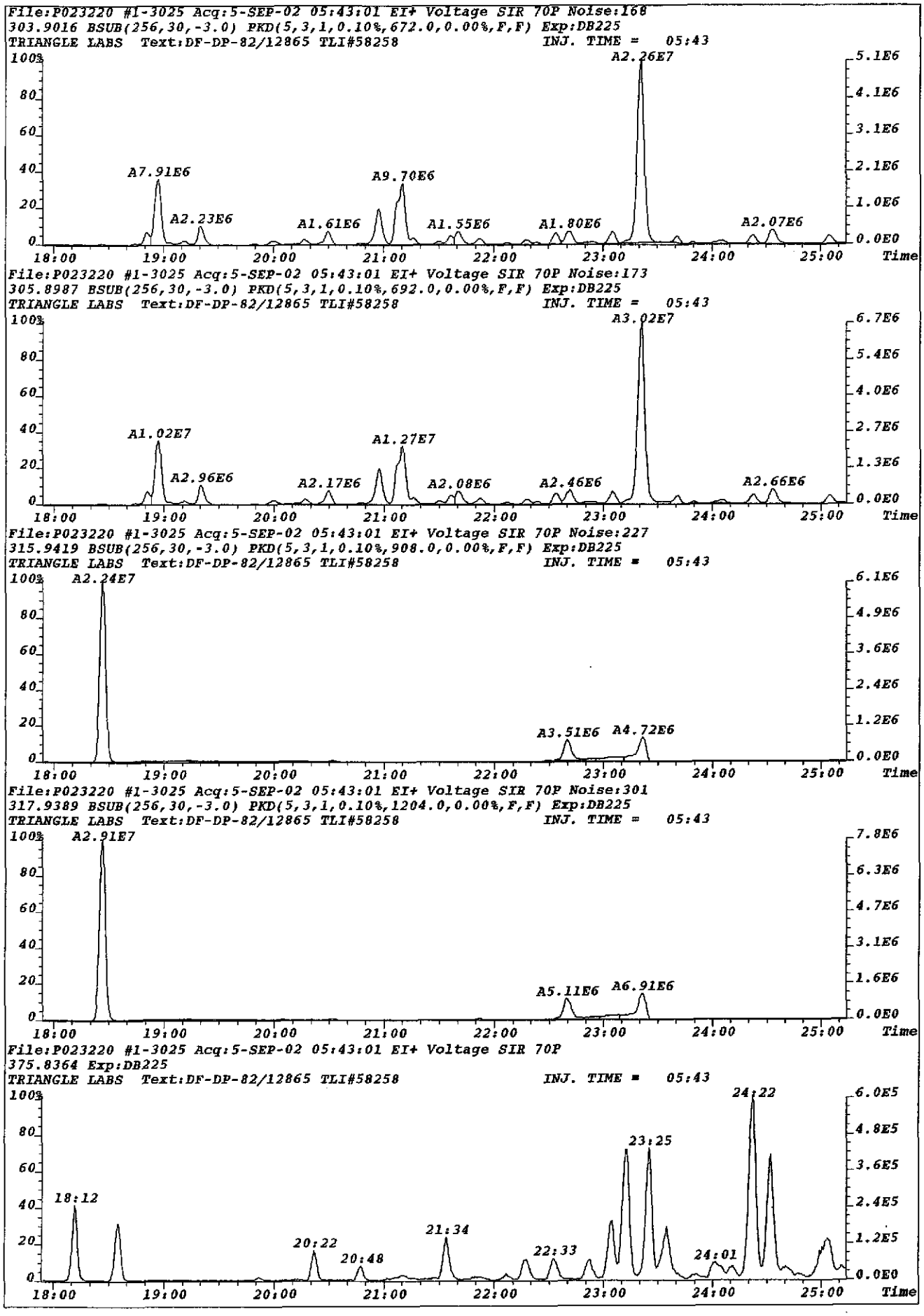
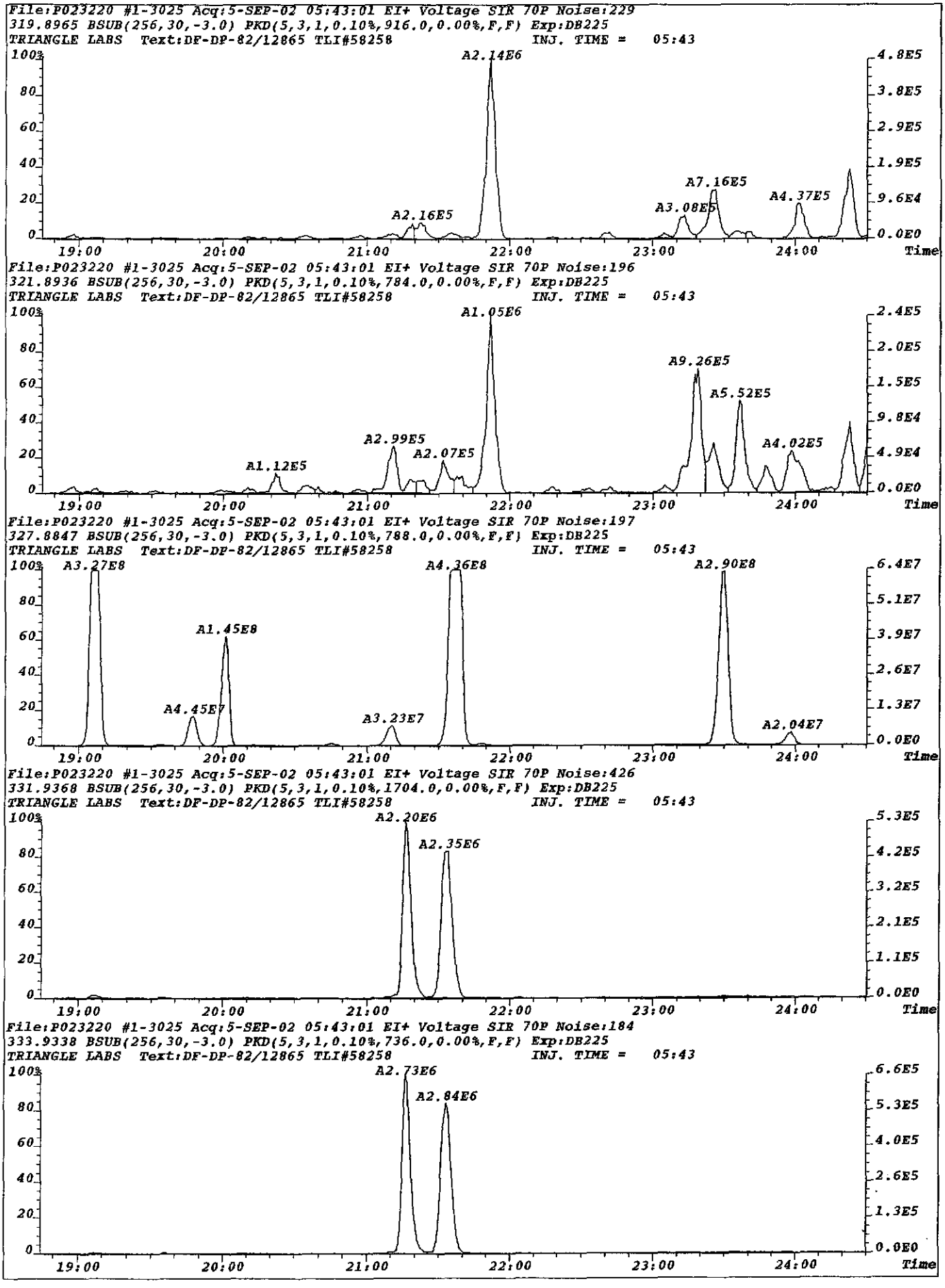
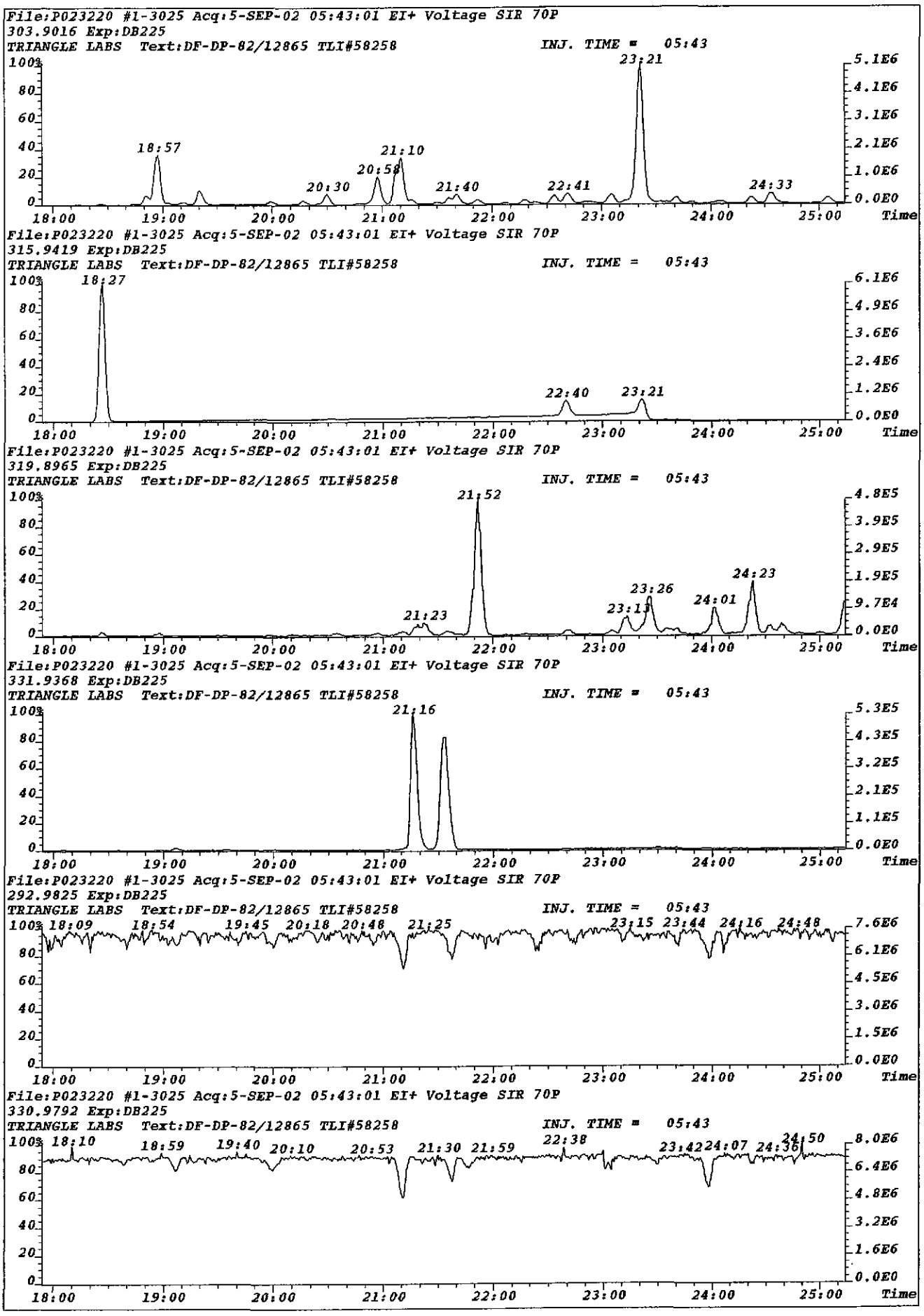
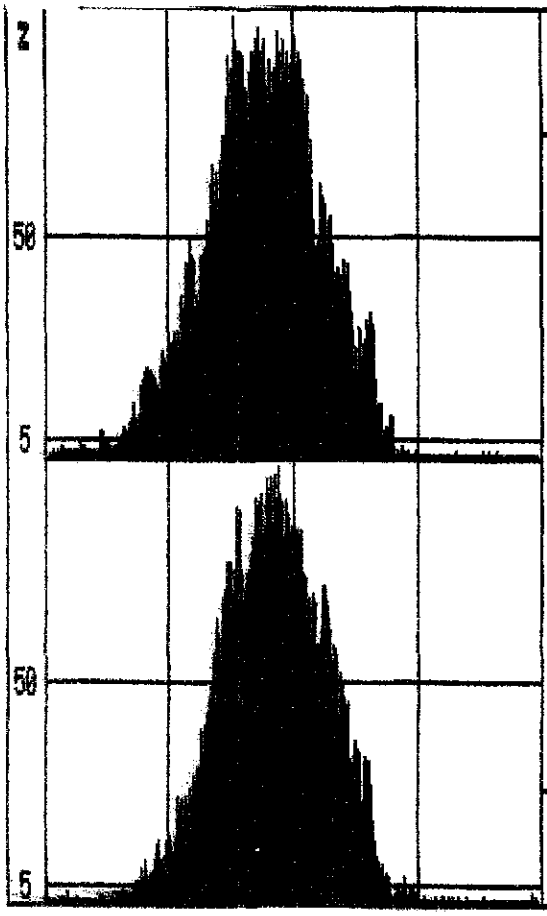
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
23:21
21:10
21:40
22:34
22:41
23:05
Time


File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P Noise:168
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,672.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
A2.26E7
A7.91E6
A9.70E6
A2.23E6
A1.61E6
A1.55E6
A1.80E6
A2.07E6
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P Noise:173
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,692.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
A3.02E7
A1.02E7
A1.27E7
A2.96E6
A2.17E6
A2.08E6
A2.46E6
A2.66E6
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P Noise:227
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,908.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
A2.24E7
A3.51E6
A4.72E6
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P Noise:301
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1204.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
A2.91E7
A5.11E6
A6.91E6
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
24:22
23:25
18:12
21:34
20:22
20:48
22:33
24:01
Time


File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P Noise:229
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,916.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258 INJ. TIME = 05:43
A2.14E6
A2.16E5
A3.08E5
A7.16E5
A4.37E5
Time
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P Noise:196
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,784.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258 INJ. TIME = 05:43
A1.05E6
A1.12E5
A2.99E5
A2.07E5
A9.26E5
A5.52E5
A4.02E5
Time
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P Noise:197
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,788.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258 INJ. TIME = 05:43
A3.27E8
A1.45E8
A4.45E7
A3.23E7
A4.36E8
A2.90E8
A2.04E7
Time
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P Noise:426
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1704.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258 INJ. TIME = 05:43
A2.20E6
A2.35E6
Time
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P Noise:184
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,736.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258 INJ. TIME = 05:43
A2.73E6
A2.84E6
Time


File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
303.9016 Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
18:57
20:30
20:58
21:10
21:40
22:41
23:21
24:33
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
315.9419 Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
18:27
22:40
23:21
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
319.8965 Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
21:23
21:52
23:13
23:26
24:01
24:23
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
331.9368 Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
21:16
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
292.9825 Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
18:09
18:54
19:45
20:18
20:48
21:25
23:15
23:44
24:16
24:48
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
330.9792 Exp:DB225
TRIANGLE LABS Text:DF-DP-82/12865 TLI#58258
INJ. TIME = 05:43
18:10
18:59
19:40
20:10
20:53
21:30
21:59
22:38
23:42
24:07
24:36
24:50
18:00
19:00
20:00
21:00
22:00
23:00
24:00
25:00
Time

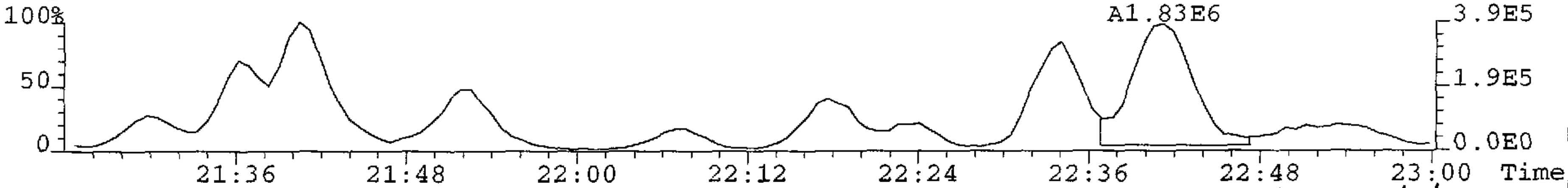


Ref. mass	292.9825	Peak top	
Height	.70 volts	Span	200 ppm

System file name		D0225	
Data file name		A:P905021	
Resolution		10000	
Group number		1	
Ionization mode		EI+	
Switching		VOLTAGE	
Ref. masses	292.9825,	380.9761	
A	292.9825	J	330.9792
B	303.9016	K	331.9368
C	305.8987	L	333.9338
D	315.9419	M	375.8364
E	317.9389		
F	319.8965		
G	321.8936		
H	327.8847		
I	330.9792		

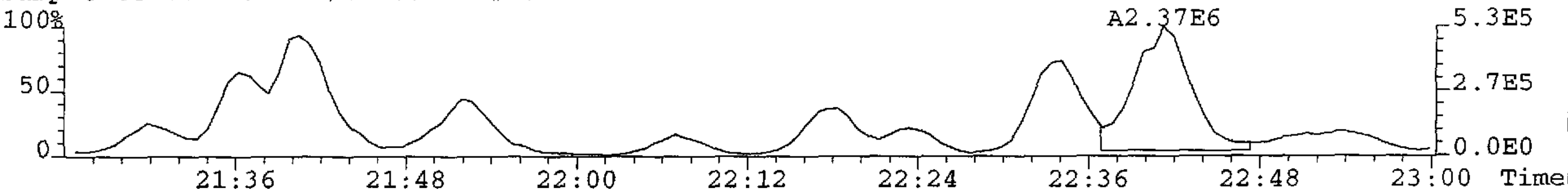
Channel	I	330.9792		Peak top	
Height	.54 volts		Span	200 ppm	

File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
303.9016 Exp:DB225
Sample Text:DF-DP-82/12865 TLI#58258 INJ. TIME = 05:43 File Text:DF-DP-82/1286»

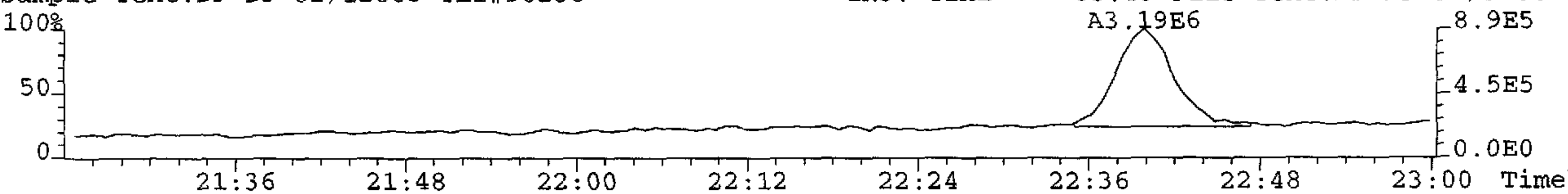


PouB 9/6/02

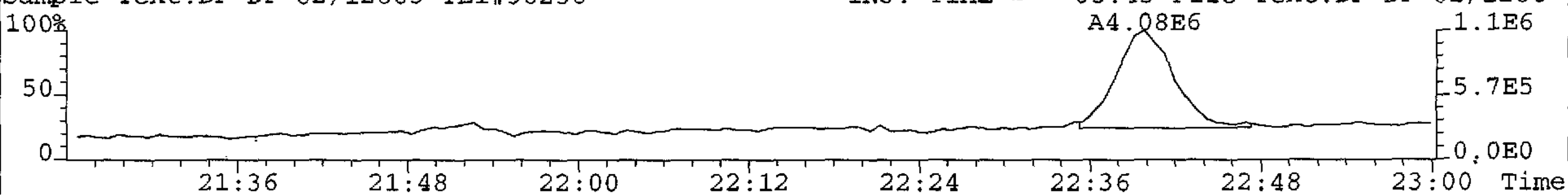
File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
305.8987 Exp:DB225
Sample Text:DF-DP-82/12865 TLI#58258 INJ. TIME = 05:43 File Text:DF-DP-82/1286»



File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
315.9419 Exp:DB225
Sample Text:DF-DP-82/12865 TLI#58258 INJ. TIME = 05:43 File Text:DF-DP-82/1286»



File:P023220 #1-3025 Acq:5-SEP-02 05:43:01 EI+ Voltage SIR 70P
317.9389 Exp:DB225
Sample Text:DF-DP-82/12865 TLI#58258 INJ. TIME = 05:43 File Text:DF-DP-82/1286»



Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **DF-DP-642/12872** Analysis File: **U131906**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/2002**	Spike File:	**SPMIT32S**
TLI ID:	**334-48-4**	Date Extracted:	**08/28/2002**	ICal:	**UF57092**
		Date Analyzed:	**09/04/2002**	ConCal:	**U021317**
Sample Size:	**11.600 g**	Dilution Factor:	**n/a**	% Moisture:	**13.3**
Dry Weight:	**10.057 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JWL**	% Solids:	**86.7**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	1.5				___
1,2,3,7,8-PeCDD	ND	1.8				___
1,2,3,4,7,8-HxCDD	EMPC		2.9			J__
1,2,3,6,7,8-HxCDD	EMPC		7.2			___
1,2,3,7,8,9-HxCDD	EMPC		4.6			J__
1,2,3,4,6,7,8-HpCDD	53.8			1.05	37:36	___
1,2,3,4,6,7,8,9-OCDD	2380			0.88	41:12	___
2,3,7,8-TCDF	600			0.74	26:41	E__
1,2,3,7,8-PeCDF	184			1.62	30:19	X__
2,3,4,7,8-PeCDF	527			1.56	30:59	___
1,2,3,4,7,8-HxCDF	1460			1.24	33:38	___
1,2,3,6,7,8-HxCDF	195			1.27	33:44	___
2,3,4,6,7,8-HxCDF	226			1.26	34:12	___
1,2,3,7,8,9-HxCDF	7.9			1.19	34:57	___
1,2,3,4,6,7,8-HpCDF	1780			1.05	36:35	___
1,2,3,4,7,8,9-HpCDF	513			1.05	38:07	___
1,2,3,4,6,7,8,9-OCDF	3580			0.87	41:25	___

Totals	Conc. (pg/g)	Number	DL	EMPC	Flags
Total TCDD	EMPC			26.7	Q__
Total PeCDD	EMPC			109	Q__
Total HxCDD	19.4	1		44.0	___
Total HpCDD	120	2			___
Total TCDF	2440	16		2510	E__
Total PeCDF	3720	13		3820	___
Total HxCDF	3890	12		3910	___
Total HpCDF	4150	4			___

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Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **DF-DP-642/12872** Analysis File: **U131906**

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	171	86.2	40%-135%	0.82	26:40	
$^{13}C_{12}$-2,3,7,8-TCDD	184	92.7	40%-135%	0.82	27:18	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	214	108	40%-135%	1.52	30:19	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	267	134	40%-135%	1.63	31:17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	166	83.5	40%-135%	0.55	33:43	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	165	83.0	40%-135%	1.28	34:22	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	142	71.5	40%-135%	0.51	36:34	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	153	76.9	40%-135%	1.13	37:35	
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	309	77.6	40%-135%	0.94	41:12	

Surrogate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	246	124	40%-135%	1.66	30:59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	166	83.6	40%-135%	0.55	33:37	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	175	87.9	40%-135%	1.28	34:18	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	164	82.5	40%-135%	0.50	38:06	

Other Standard	Conc. (pg/g)	% Recovery	QC Limits		RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	26.4	133	40%-135%		27:19	

Alternate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	159	79.8	40%-135%	0.54	34:57	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	176	88.4	40%-135%	0.53	34:11	

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	27:07	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.26	34:41	

Data Reviewer: PAB 09/06/2002

MIT3_PSR v1.00, LARS 6.25.05

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Mississippi Dept. of Env. Quality

TLI Project: **58258** — Toxicity Equivalents Report
Client Sample: **DF-DP-642/12872** — Analysis File: **U131906**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/02**	Spike File:	**SPMIT32S**
TLI ID:	**334-48-4**	Date Extracted:	**08/28/02**	ICal:	**UF57092**
		Date Analyzed:	**09/04/02**	ConCal:	**U021317**
Sample Size:	**11.600 g**	Dilution Factor:	**1**	% Moisture:	**13.3**
Dry Weight:	**10.057 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JWL**	% Solids:	**86.7**

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{1.5}	x	1.	=	1.5
1,2,3,7,8-PeCDD	{1.8}	x	0.5	=	0.90
1,2,3,4,7,8-HxCDD	[2.9]	x	0.1	=	0.29
1,2,3,6,7,8-HxCDD	[7.2]	x	0.1	=	0.72
1,2,3,7,8,9-HxCDD	[4.6]	x	0.1	=	0.46
1,2,3,4,6,7,8-HpCDD	53.8	x	0.01	=	0.538
1,2,3,4,6,7,8,9-OCDD	2380	x	0.001	=	2.380
TOTAL PCDD					6.8
2,3,7,8-TCDF	440	x	0.1	=	44.0
1,2,3,7,8-PeCDF	184	x	0.05	=	9.20
2,3,4,7,8-PeCDF	527	x	0.5	=	264
1,2,3,4,7,8-HxCDF	1460	x	0.1	=	146.0
1,2,3,6,7,8-HxCDF	195	x	0.1	=	19.5
2,3,4,6,7,8-HxCDF	226	x	0.1	=	22.6
1,2,3,7,8,9-HxCDF	7.9	x	0.1	=	0.79
1,2,3,4,6,7,8-HpCDF	1780	x	0.01	=	17.80
1,2,3,4,7,8,9-HpCDF	513	x	0.01	=	5.13
1,2,3,4,6,7,8,9-OCDF	3580	x	0.001	=	3.580
TOTAL PCDF					533

Total EPA TEFs, 1989a: 539 pg/g

[...] indicates that the value is that of an EMPC.
{...} indicates that the value is that of a Detection Limit.

GRY_TEF v1.08, MILES 4.22.16

Triangle Laboratories, Inc.®
2445 S. Alston Ave. • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

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Initial ....Date...

Data Review By: PAB 9/6/02

Calculated Noise Height: 5.40

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of U131906B.dbf
09/06/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF				0.65-0.89						0.874-1.072			
304-306	DC	NL		Height			10.79	6.20	4.59				
	DC	WL		22:53	RO	3.94	26.57			0.858			
K				23:16		0.77	1,190.36	519.36	671.00	0.873			
				23:27		0.80	1,350.82	601.78	749.04	0.879			
				23:58		0.76	370.65	160.34	210.31	0.899			
				24:17		0.74	1,874.83	794.36	1,080.47	0.911			
				24:31		0.74	1,284.89	548.45	736.44	0.919			
				24:51		0.76	3,827.93	1,651.68	2,176.25	0.932			
				25:08		0.76	7,695.12	3,315.61	4,379.51	0.943			
				25:28		0.75	10,844.32	4,631.67	6,212.65	0.955			
				25:46		0.77	4,922.47	2,138.62	2,783.85	0.966			
				25:57		0.77	5,906.22	2,571.14	3,335.08	0.973			
				26:19		0.76	7,797.55	3,354.68	4,442.87	0.987			
				26:30		0.75	3,662.74	1,568.49	2,094.25	0.994			
				26:41		0.74	21,097.50	8,985.10	12,112.40	1.001	2378-TCDF	AN	E
				27:04		0.74	8,627.20	3,659.54	4,967.66	1.015			
X		X		27:16	RO	0.74	2,513.57	1,071.62	1,441.95	1.023			
				27:40		0.74	4,679.08	1,993.37	2,685.71	1.038			
				28:16		0.78	812.04	356.70	455.34	1.060			
304-306			17	Peaks			88,457.29						
13C12-TCDF				0.65-0.89						0.962-1.038			
316-318	DC	NL		Height			12.86	6.34	6.52				
	DC	WL		23:15		0.75	556.24			0.872			
	DC	WL		25:27	RO	1.00	79.97			0.954			
				25:54	RO	1.15	406.00	264.36	229.38	0.971			
	DC	SN		26:18	RO	1.82	57.67			0.986			
				26:40		0.82	6,201.79	2,795.05	3,406.74	1.000	13C12-2378-TCDF	ISO	
				Height			1,699.21	749.01	950.20				
	DC	SN		27:09	RO	1.30	65.08			1.018			
	DC	WH		27:53	RO	1.62	70.78			1.046			
	DC	WH		28:02	RO	2.79	58.73			1.051			
316-318			2	Peaks			6,607.79						
---------- Above: TCDF / TCDD Follows ----------													
TCDD				0.65-0.89						0.900-1.043			
320-322	DC	NL		Height			6.01	3.07	2.94				
	DC	SN		24:16	RO	0.45	60.13			0.889			
	DC	SN		24:52	RO	0.22	54.62			0.911			
	DC	SN		25:12	RO	0.12	6.74			0.923	1379-TCDD	AN	
				25:54	RO	0.15	525.46	228.59	1,524.69	0.949			Q
D	D	SN		26:13	RO	0.53	47.58			0.960			

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	SN		26:27	RO	0.01	11.59			0.969			
				27:05	RO	0.17	74.00	32.19	187.87	0.992			
A				27:37	RO	0.55	145.51	63.30	115.00	1.012			
AD	D		WH	28:29	RO	0.15	531.00			1.043			
320-322			3 Peaks				744.97						
37Cl-TCDD										0.925-1.075			
328	DC	NL			Height		103.70	103.70					
	DC	WL		24:17			7,977.34			0.889			
	DC	WL		24:27			46,285.40			0.896			
	DC	WL		24:55			1,596.32			0.913			
	DC	WL		25:11			3,661.67			0.922			
				26:00			652,887.00	652,887.00		0.952			
				26:20			1,710.06	1,710.06		0.965			
				26:50			545.76	545.76		0.983			
				27:06			7,122.02	7,122.02		0.993			
				27:19			714.07	714.07		1.001	37Cl-TCDD	CLS	
				27:38			634,282.00	634,282.00		1.012			
				27:59			1,749.98	1,749.98		1.025			
328			7 Peaks				1,299,010.89						
13C12-TCDD					0.65-0.89					0.925-1.075			
332-334	DC	NL			Height		8.75	5.66	3.09				
				25:58	RO	1.29	374.27	273.81	211.45	0.951			
				27:07		0.82	4,486.48	2,019.90	2,466.58	0.993	13C12-1234-TCDD	RS1	
				27:18		0.82	4,694.45	2,114.28	2,580.17	1.000	13C12-2378-TCDD	IS1	
					Height		1,498.14	682.14	816.00				
				27:37	RO	2.03	137.99	158.12	77.96	1.012			
				28:05	RO	2.64	61.01	90.90	34.47	1.029			
332-334			5 Peaks				9,754.20						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF					1.32-1.78					0.928-1.061			
340-342	DC	NL			Height		6.67	3.96	2.71				
	DC	WL		27:54		1.50	79.68			0.920			
				28:14		1.52	2,419.02	1,458.47	960.55	0.931			
X		X		28:23	RO	1.57	2,699.20	1,650.80	1,048.40	0.936			
				28:31		1.51	6,038.49	3,633.29	2,405.20	0.941			Q
				29:02		1.46	3,020.38	1,790.72	1,229.66	0.958			
				29:19		1.54	2,450.90	1,484.34	966.56	0.967			
				29:32		1.55	48,727.60	29,595.00	19,132.60	0.974			
				29:46		1.57	5,061.95	3,095.26	1,966.69	0.982			
				30:07		1.52	8,609.99	5,193.27	3,416.72	0.993			
M				30:15		1.58	8,890.00	5,450.00	3,440.00	0.998			
AN		X		30:19		1.62	6,270.00	3,880.00	2,390.00	1.000	12378-PeCDF	AN	
				30:35		1.49	8,027.96	4,808.20	3,219.76	1.009			
				30:49		1.50	1,002.86	601.09	401.77	1.016			
				30:59		1.56	17,644.10	10,744.80	6,899.30	1.022	23478-PeCDF	AN	
				31:07		1.51	7,279.21	4,378.02	2,901.19	1.026			
X		X		31:28	RO	0.71	683.60	415.52	587.40	1.038			
340-342			15 Peaks				128,825.26						

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-PeCDF				1.32-1.78						0.867-1.133			
352-354	DC	NL		Height			5.68	2.49	3.19				
				28:08		1.62	689.73	426.44	263.29	0.928			
				28:29	RO	0.57	148.77	90.43	159.65	0.940			
				29:17	RO	0.30	57.22	34.78	116.44	0.966			
				30:19		1.52	5,396.83	3,254.61	2,142.22	1.000	13C12-PeCDF 123	IS2	
					Height		1,629.50	983.74	645.76				
				30:59		1.66	6,219.90	3,881.64	2,338.26	1.022	13C12-PeCDF 234	SUR1	
				31:37	RO	2.01	181.56	143.13	71.20	1.043			
				31:47	RO	0.83	446.09	271.15	328.29	1.048			
352-354			7	Peaks			13,140.10						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD				1.32-1.78						0.938-1.021			
356-358	DC	NL		Height			4.65	2.13	2.52				
K				29:15	RO	0.01	95.91	58.30	3,918.02	0.935			J
				29:28	RO	0.00	160.95	97.83	211,831.00	0.942			
				29:43	RO	0.00	129.56	78.75	36,970.10	0.950			
				30:10	RO	0.02	79.18	48.13	2,600.76	0.964			J
M				31:04	RO	0.00	85.22	51.80	209,000.00	0.993			J
M				31:25	RO	0.02	556.06	338.00	20,900.00	1.004			Q
				31:43	RO	0.50	713.23	433.53	861.87	1.014			
				31:56	RO	0.51	669.37	406.87	799.75	1.021			
356-358			8	Peaks			2,489.48						
13C12-PeCDD				1.32-1.78						0.871-1.129			
368-370	DC	NL		Height			4.21	2.13	2.08				
				29:30	RO	2.05	161.03	129.38	63.15	0.943			
				29:44	RO	2.15	64.03	54.07	25.11	0.950			
				30:25	RO	0.32	14.02	8.52	26.52	0.972			
				30:56	RO	1.01	64.06	25.36	25.12	0.989			
				31:04	RO	1.12	218.13	95.62	85.54	0.993			
				31:17		1.63	4,010.06	2,485.47	1,524.59	1.000	13C12-PeCDD 123	IS3	
					Height		1,345.68	839.48	506.20				
368-370			6	Peaks			4,531.33						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF				1.05-1.43						0.964-1.045			
374-376	DC	NL		Height			21.26	14.81	6.45				
	DC	SN		32:31		1.40	72.46			0.967			
				32:42		1.24	6,954.25	3,847.38	3,106.87	0.973			
				32:51		1.24	28,391.30	15,724.90	12,666.40	0.977			
				33:07		1.28	755.11	423.23	331.88	0.985			
				33:16		1.29	9,816.22	5,530.37	4,285.85	0.990			
				33:25	RO	1.92	321.46	276.14	143.51	0.994			
MN				33:38		1.24	39,200.00	21,700.00	17,500.00	1.000	123478-HxCDF	AN	
N				33:44		1.27	5,505.99	3,076.78	2,429.21	1.003	123678-HxCDF	AN	
				33:50		1.28	590.27	331.10	259.17	1.006			
				34:00		1.27	1,904.40	1,066.63	837.77	1.011			
N				34:12		1.26	5,556.18	3,096.56	2,459.62	1.017	234678-HxCDF	AN	

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				34:40	RO	1.82	131.47	106.86	58.69	1.031			
				34:46	RO	1.64	67.27	49.28	30.03	1.034			J
	N			34:53		1.17	91.91	49.52	42.39	1.038			J
	AN			34:57		1.19	160.40	87.20	73.20	1.040	123789-HxCDF	AN	
	M			35:02		1.23	1,626.00	897.00	729.00	1.042			
374-376			15	Peaks			101,072.23						
13C12-HxCDF						0.43-0.59				0.881-1.119			
384-386		DC	NL			Height	230.85	94.43	136.42				
				32:48		0.50	1,561.82	522.94	1,038.88	0.976			
	N			33:37		0.55	4,701.73	1,673.01	3,028.72	1.000	13C12-HxCDF 478	SUR2	
	N			33:43		0.55	4,678.09	1,668.77	3,009.32	1.003	13C12-HxCDF 678	IS4	
						Height	1,494.16	515.39	978.77				
		DC	SN	33:49	RO	1.65	700.97			1.006			
	MN			34:11		0.53	4,560.00	1,570.00	2,990.00	1.017	13C12-HxCDF 234	ALT2	
		DC	SN	34:25		0.44	215.57			1.024			
	MKTN			34:57		0.54	3,270.00	1,150.00	2,120.00	1.037	13C12-HxCDF 789	ALT1	
		DC	SN	35:05	RO	1.29	195.27			1.044			
		DC	SN	35:13	RO	1.29	346.74			1.048			
384-386			5	Peaks			18,771.64						

---------- Above: HxCDF / HxCDD Follows ----------

HxCDD						1.05-1.43				0.959-1.013			
390-392		DC	NL			Height	42.66	12.39	30.27				
		DC	SN	32:58	RO	0.52	60.19			0.961			
	A			33:10	RO	1.77	120.51	95.20	53.80	0.967			
		DC	SN	33:18		1.21	66.48			0.971			
	A			33:48		1.24	347.00	192.00	155.00	0.985			
	A			34:06	RO	1.81	56.45	45.70	25.20	0.994			J
	AN			34:18	RO	0.84	51.85	28.70	34.20	1.000	123478-HxCDD	AN	J
	MKN			34:23	RO	0.86	130.61	72.30	83.60	1.002	123678-HxCDD	AN	
	AN			34:41	RO	0.62	81.29	45.00	73.00	1.011	123789-HxCDD	AN	J
		DC	WH	34:53	RO	0.40	324.94			1.017			
390-392			6	Peaks			787.71						
13C12-HxCDD						1.05-1.43				0.971-1.029			
402-404		DC	NL			Height	33.22	19.74	13.48				
		DC	SN	34:04	RO	2.50	41.33			0.993			
	N			34:18		1.28	3,134.02	1,757.48	1,376.54	1.000	13C12-HxCDD 478	SUR3	
	N			34:22		1.28	3,270.60	1,839.17	1,431.43	1.002	13C12-HxCDD 678	IS5	
						Height	1,079.66	614.24	465.42				
	N			34:41		1.26	3,794.59	2,112.58	1,682.01	1.011	13C12-HxCDD 789	RS2	
		DC	SN	34:50	RO	0.39	68.84			1.016			
402-404			3	Peaks			10,199.21						

---------- Above: HxCDD / HpCDF Follows ----------

HpCDF						0.88-1.20				0.995-1.047			
408-410		DC	NL			Height	16.65	10.47	6.18				
	N			36:35		1.05	36,835.60	18,823.20	18,012.40	1.007	1234678-HpCDF	AN	
				36:51		1.04	1,711.63	873.99	837.64	1.014			

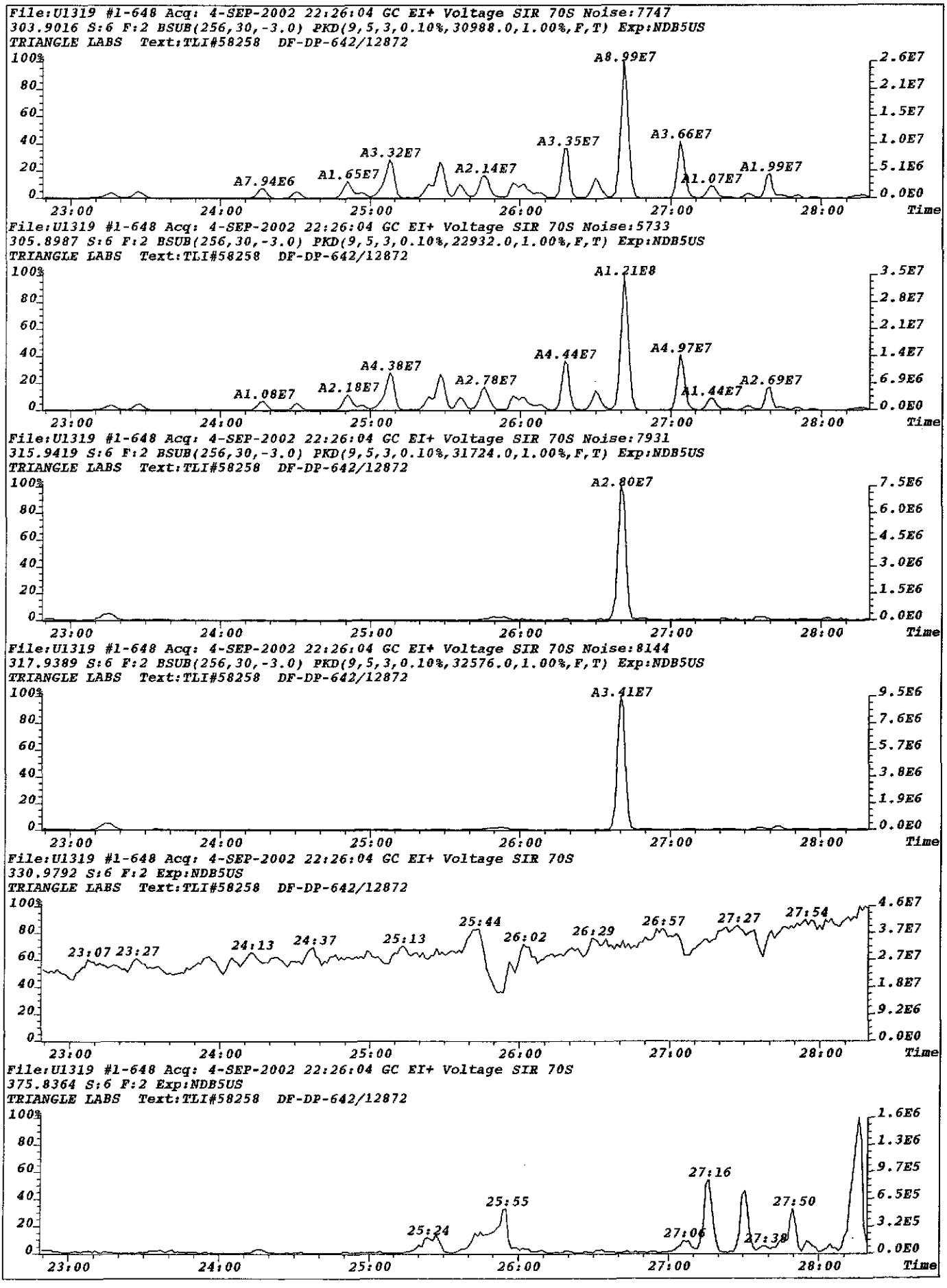
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				36:59		1.04	31,172.40	15,928.90	15,243.50	1.018			
	KN			38:07		1.05	7,536.18	3,864.84	3,671.34	1.049	1234789-HpCDF	AN	
408-410			4 Peaks				77,255.81						
13C12-HpCDF				0.37-0.51						0.945-1.110			
418-420		DC	NL		Height		50.06	17.02	33.04				
	N			36:20	RO	0.70	147.77	72.12	102.62	1.000			
	NM			36:34		0.51	2,849.00	959.00	1,890.00	1.006	13C12-HpCDF 678	IS6	
					Height		818.71	269.34	549.37				
				36:57	RO	0.84	744.51	434.25	517.02	1.017			
				37:05	RO	0.79	1,263.17	692.74	877.20	1.021			
				37:32	RO	1.25	738.03	638.20	512.52	1.033			
				37:47	RO	0.75	737.57	383.36	512.20	1.040			
	MN			38:06		0.50	2,311.00	771.00	1,540.00	1.049	13C12-HpCDF 789	SUR4	
				38:20	RO	0.81	785.56	443.42	545.53	1.055			
		DC	SN	38:27	RO	0.90	412.92			1.058			
418-420			8 Peaks				9,576.61						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20						0.976-1.005			
424-426		DC	NL		Height		14.52	6.88	7.64				
				36:51		1.01	796.18	399.40	396.78	0.980			
	D	D	NH	37:05	RO	1.33	*67.69*			*0.987*			
	M			37:36		1.05	645.00	330.00	315.00	1.000	1234678-HpCDD	AN	
424-426			2 Peaks				1,441.18						
13C12-HpCDD				0.88-1.20						0.973-1.027			
436-438		DC	NL		Height		46.32	29.42	16.90				
	M			37:35		1.13	2,360.00	1,250.00	1,110.00	1.000	13C12-HpCDD 678	IS7	
					Height		600.35	307.98	292.37				
436-438			1 Peak				2,360.00						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02						0.903-1.097			
442-444		DC	NL		Height		9.57	4.98	4.59				
				41:25		0.87	43,243.70	20,170.50	23,073.20	1.005	OCDF	AN	
				41:47	RO	1.33	70.72	49.92	37.42	1.014			
				43:17	RO	2.39	42.32	53.46	22.39	1.051			
442-444			3 Peaks				43,356.74						
OCDD				0.76-1.02						0.903-1.097			
458-460		DC	NL		Height		6.21	3.80	2.41				
				41:12		0.88	21,289.77	9,977.07	11,312.70	1.000	OCDD	AN	
458-460			1 Peak				21,289.77						
13C12-OCDD				0.76-1.02						0.996-1.004			
470-472		DC	NL		Height		43.10	30.84	12.26				
	M			41:12		0.94	3,220.00	1,560.00	1,660.00	1.000	13C12-OCDD	IS8	
					Height		654.78	319.04	335.74				
		DC	WH	41:32	RO	1.13	669.10			1.008			

Compound/
M_Z.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name.. ID.. Flags.

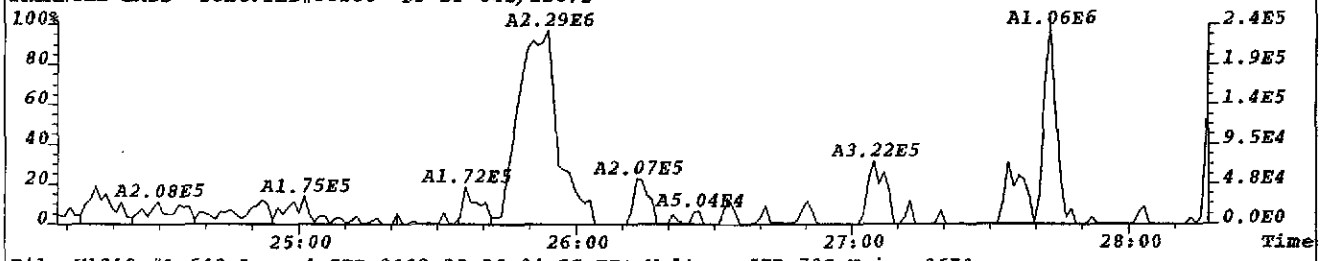
470-472 1 Peak 3,220.00

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

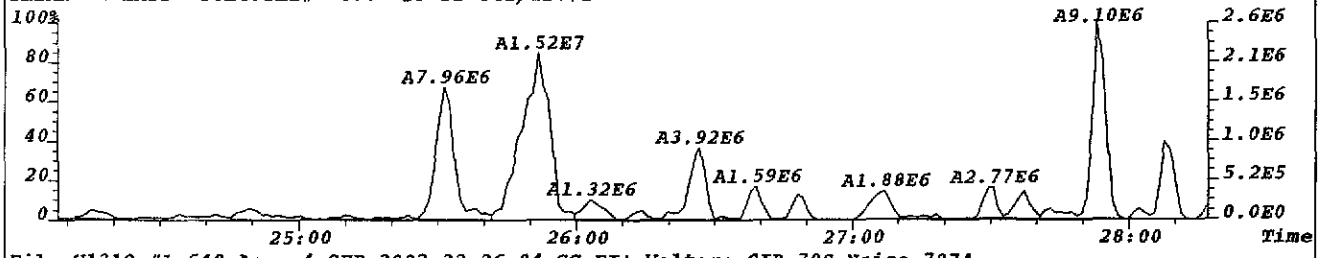
*** End of Report ***


File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:7747
303.9016 S:6 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,30988.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A8.99E7
A3.66E7
A3.35E7
A3.32E7
A2.14E7
A1.99E7
A1.65E7
A1.07E7
A7.94E6
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:5733
305.8987 S:6 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,22932.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.21E8
A4.97E7
A4.44E7
A4.38E7
A2.78E7
A2.69E7
A2.18E7
A1.44E7
A1.08E7
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:7931
315.9419 S:6 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,31724.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A2.80E7
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:8144
317.9389 S:6 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,32576.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A3.41E7
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
330.9792 S:6 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
23:07
23:27
24:13
24:37
25:13
25:44
26:02
26:29
26:57
27:27
27:54
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
375.8364 S:6 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
25:24
25:55
27:06
27:16
27:38
27:50
100%
80
60
40
20
0
23:00
24:00
25:00
26:00
27:00
28:00
Time
2.6E7
2.1E7
1.5E7
1.0E7
5.1E6
0.0E0
3.5E7
2.8E7
2.1E7
1.4E7
6.9E6
0.0E0
7.5E6
6.0E6
4.5E6
3.0E6
1.5E6
0.0E0
9.5E6
7.6E6
5.7E6
3.8E6
1.9E6
0.0E0
4.6E7
3.7E7
2.7E7
1.8E7
9.2E6
0.0E0
1.6E6
1.3E6
9.7E5
6.5E5
3.2E5
0.0E0

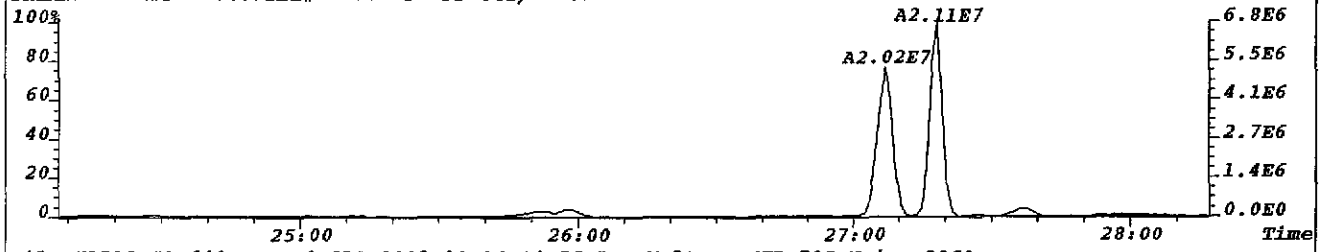
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:3840
319.8965 S:6 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,15360.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872



File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:3670
321.8936 S:6 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,14680.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872



File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:7074
331.9368 S:6 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,28296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872



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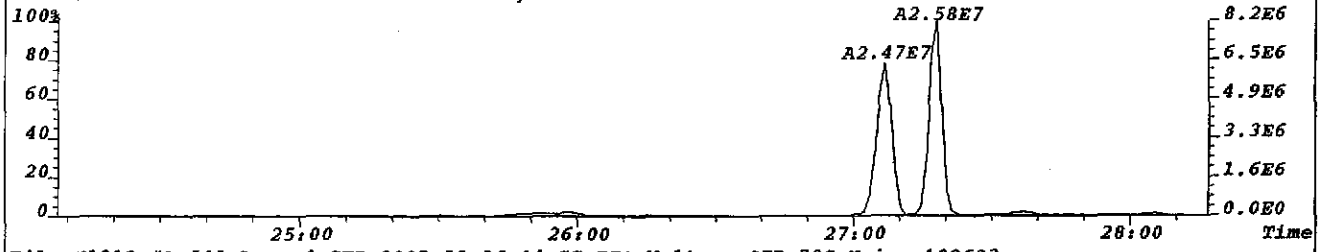
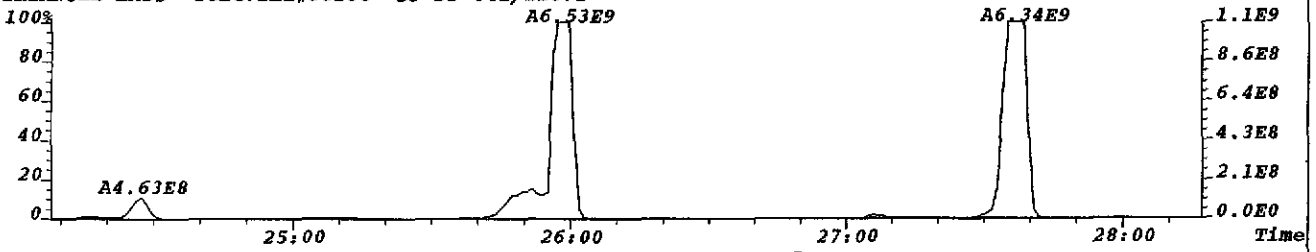
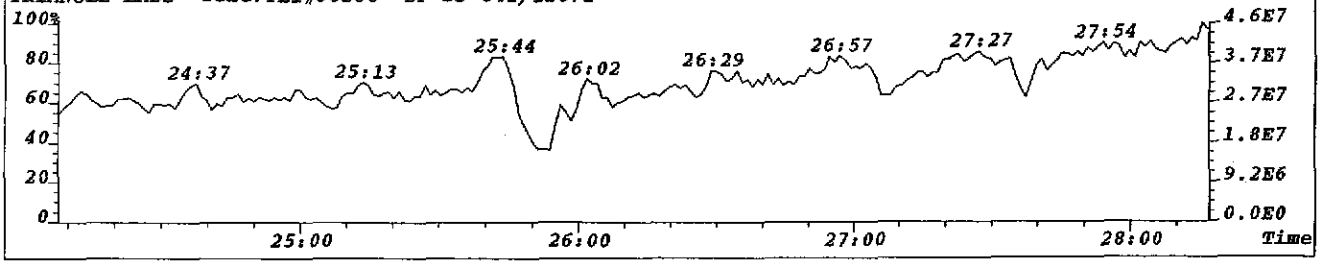
333.9338 S:6 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,15440.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872

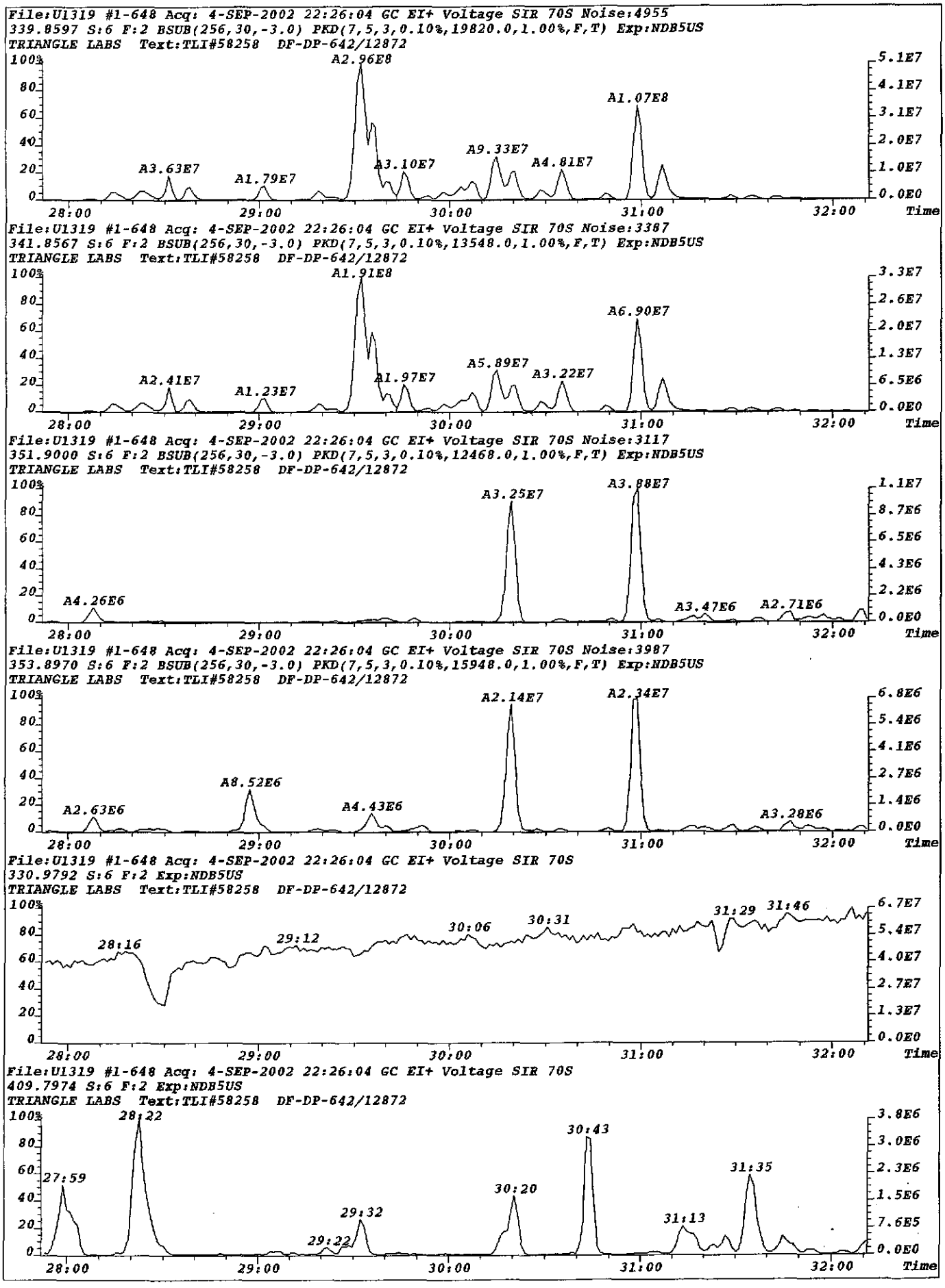


File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:129622
327.8847 S:6 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,518488.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872



File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
330.9792 S:6 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872

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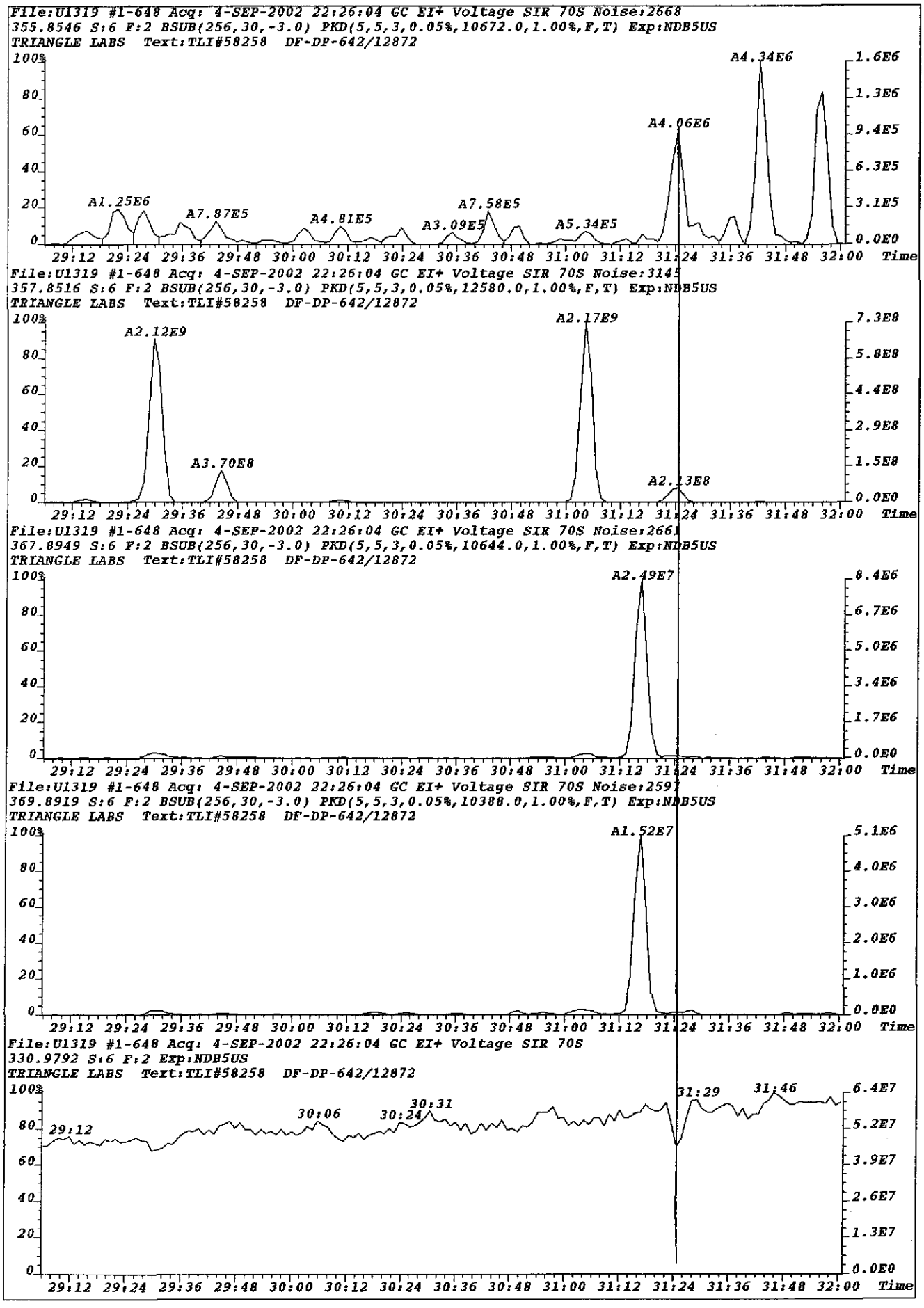
339.8597 S:6 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,19820.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A2.96E8
A1.07E8
A9.33E7
A4.81E7
A3.63E7
A3.10E7
A1.79E7
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:3387
341.8567 S:6 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13548.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.91E8
A6.90E7
A5.89E7
A3.22E7
A2.41E7
A1.97E7
A1.23E7
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:3117
351.9000 S:6 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12468.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A3.88E7
A3.25E7
A4.26E6
A3.47E6
A2.71E6
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:3987
353.8970 S:6 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,15948.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A2.14E7
A2.34E7
A8.52E6
A2.63E6
A4.43E6
A3.28E6
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
330.9792 S:6 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
28:16
29:12
30:06
30:31
31:29
31:46
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
409.7974 S:6 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
28:22
30:43
27:59
30:20
31:35
29:32
31:13
29:22
28:00
29:00
30:00
31:00
32:00
Time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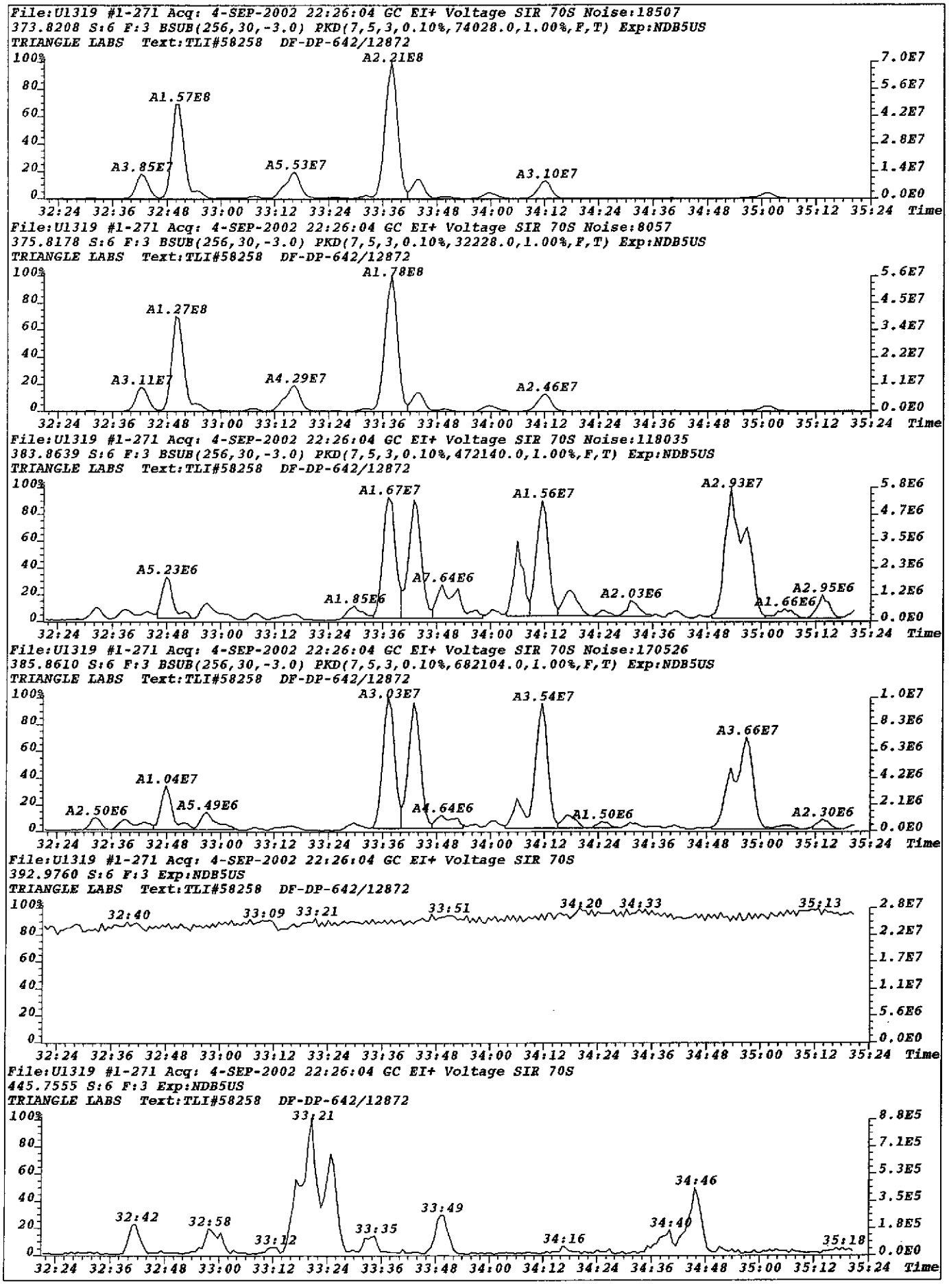
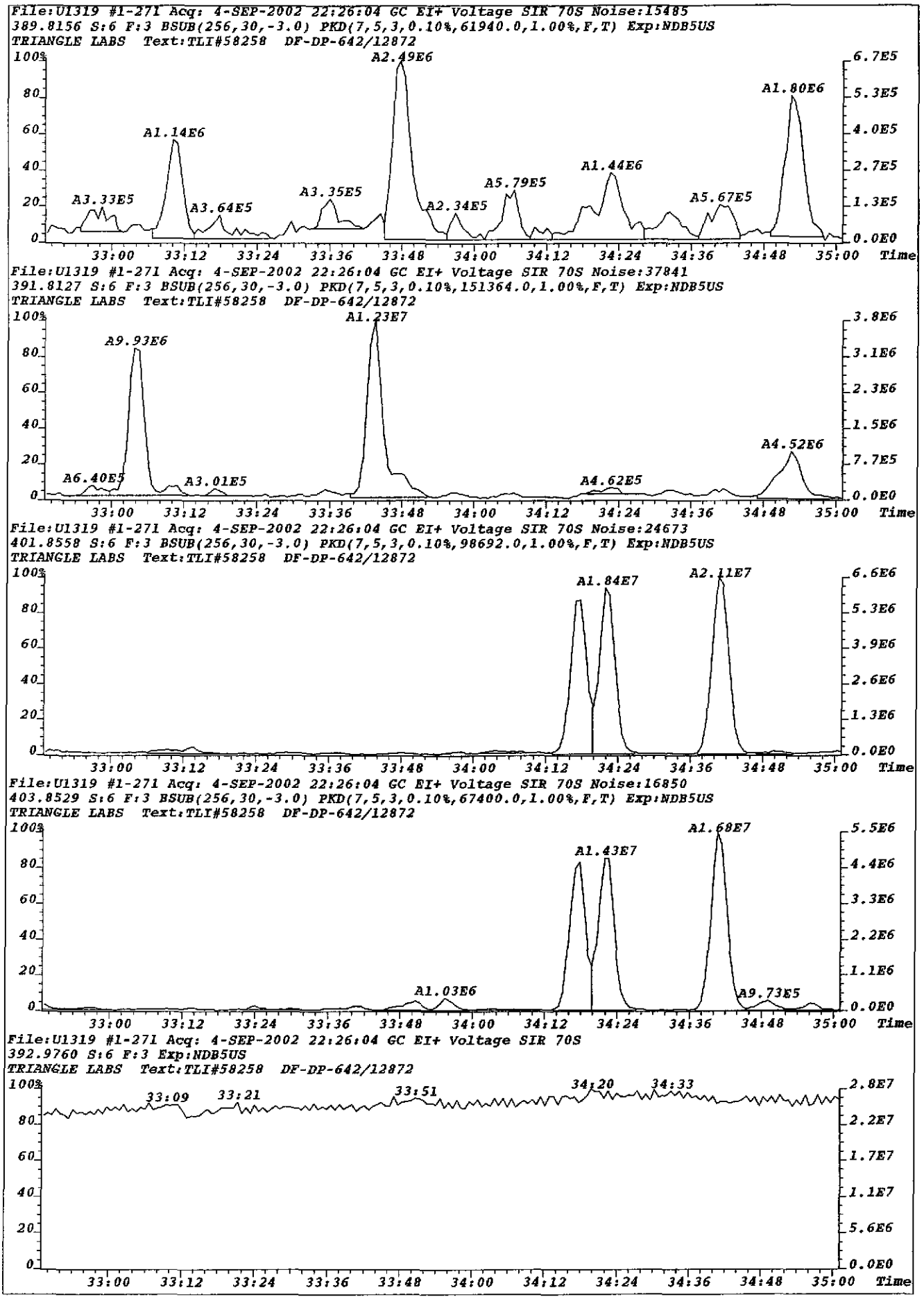
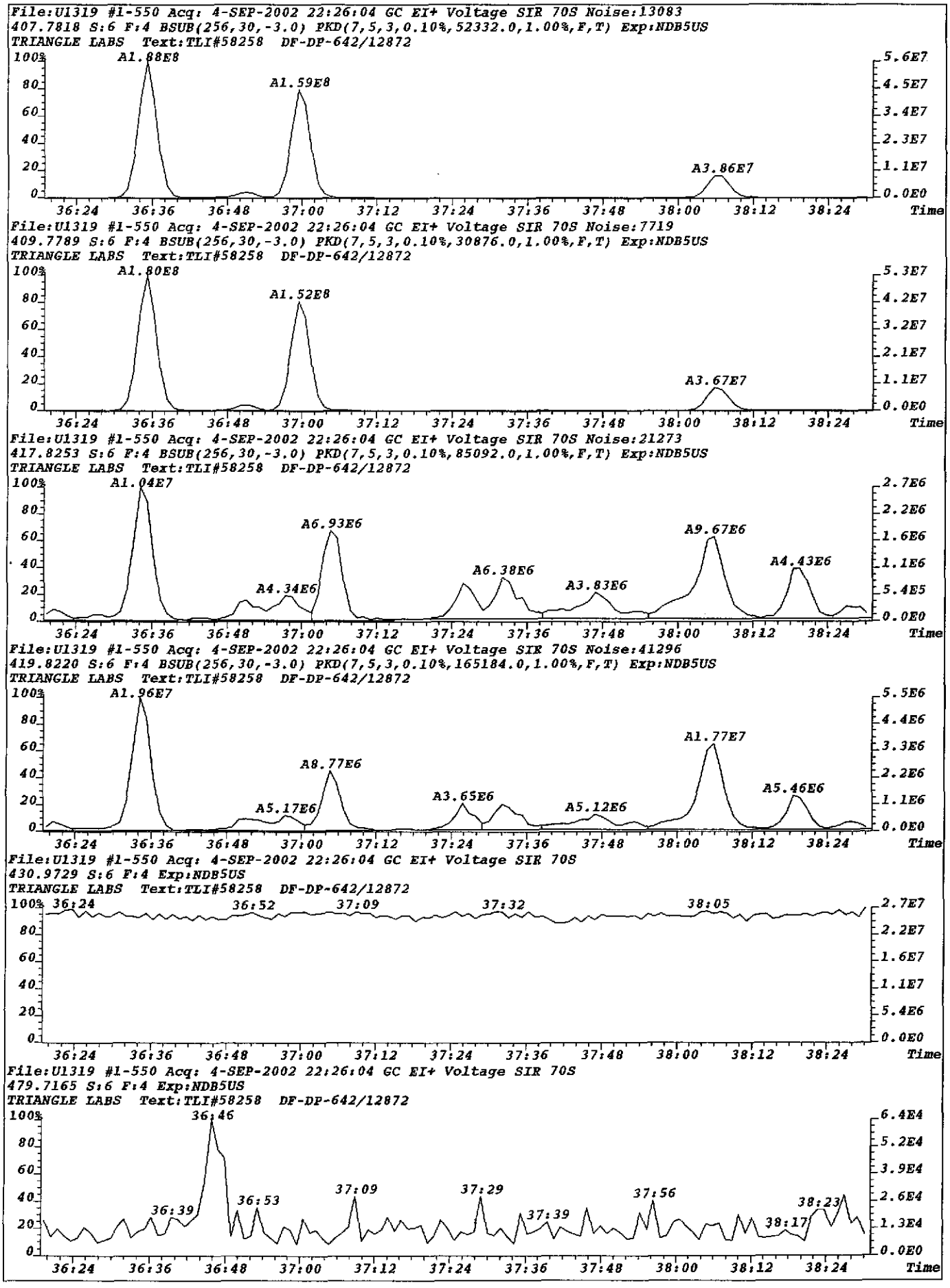
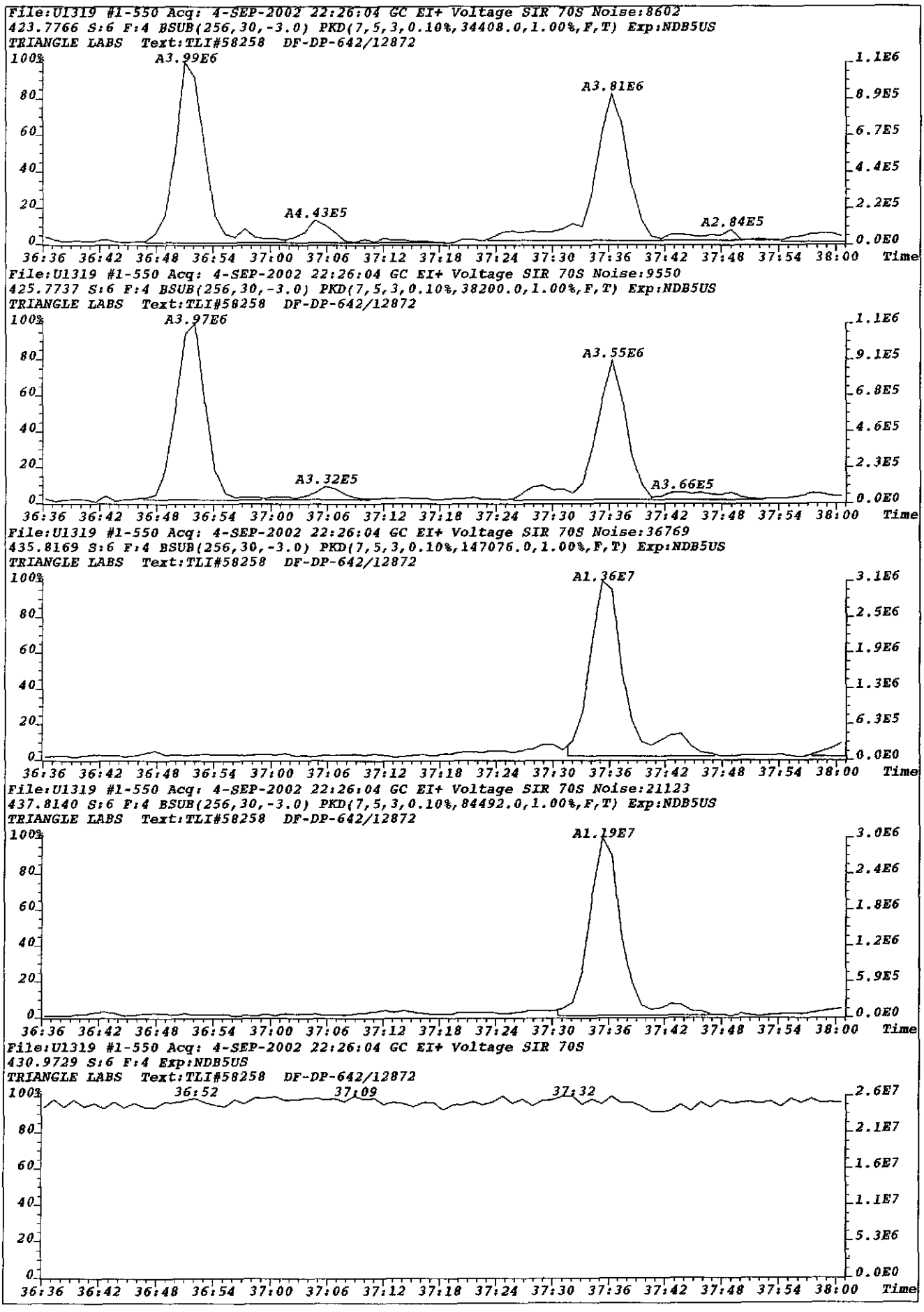
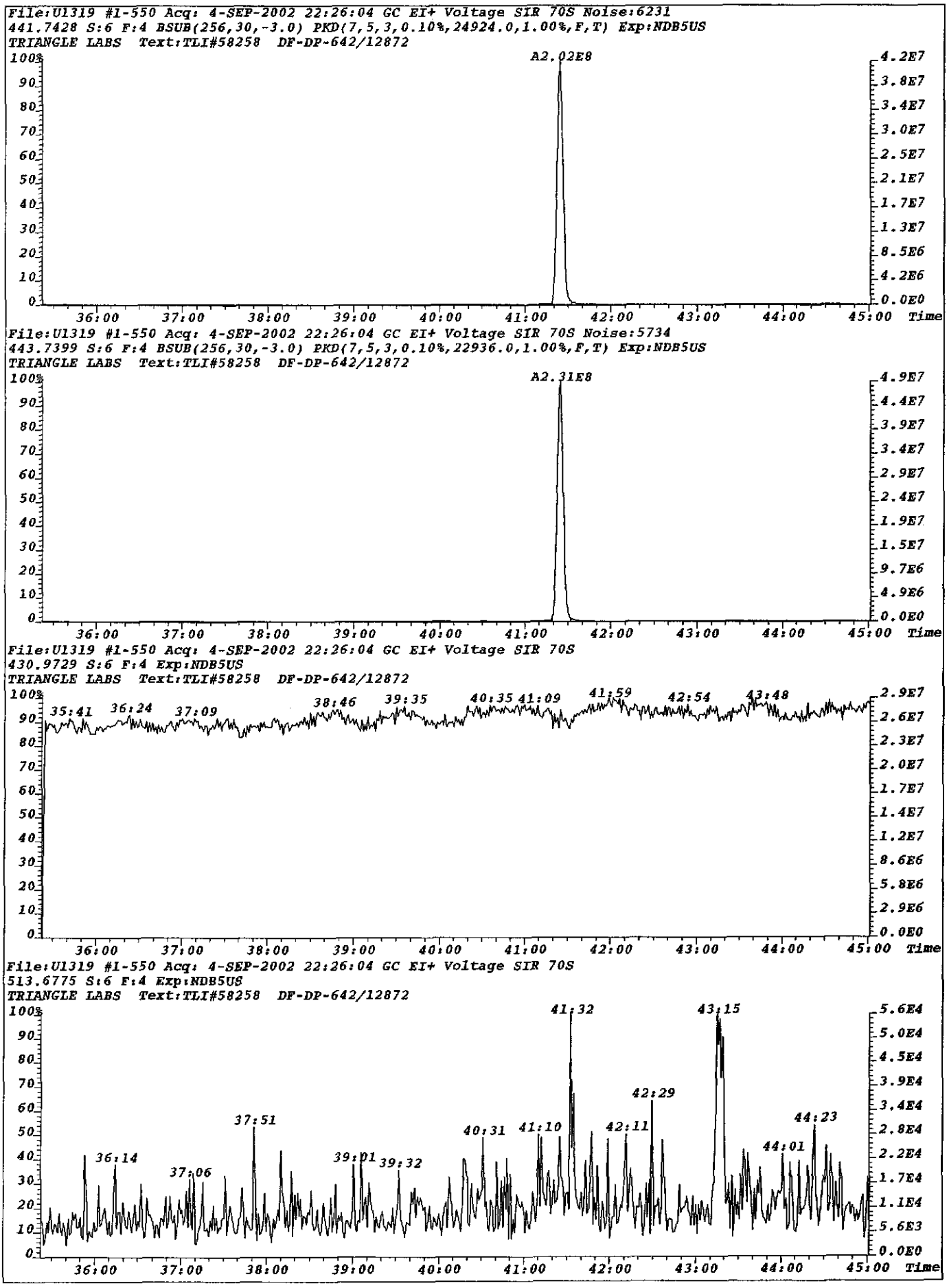
355.8546 S:6 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,10672.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.25E6
A7.87E5
A4.81E5
A3.09E5
A7.58E5
A5.34E5
A4.06E6
A4.34E6
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:3145
357.8516 S:6 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,12580.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A2.12E9
A3.70E8
A2.17E9
A2.13E8
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:2661
367.8949 S:6 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,10644.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A2.49E7
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:2597
369.8919 S:6 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,10388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.52E7
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
330.9792 S:6 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
29:12
30:06
30:24
30:31
31:29
31:46
29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48 32:00 Time

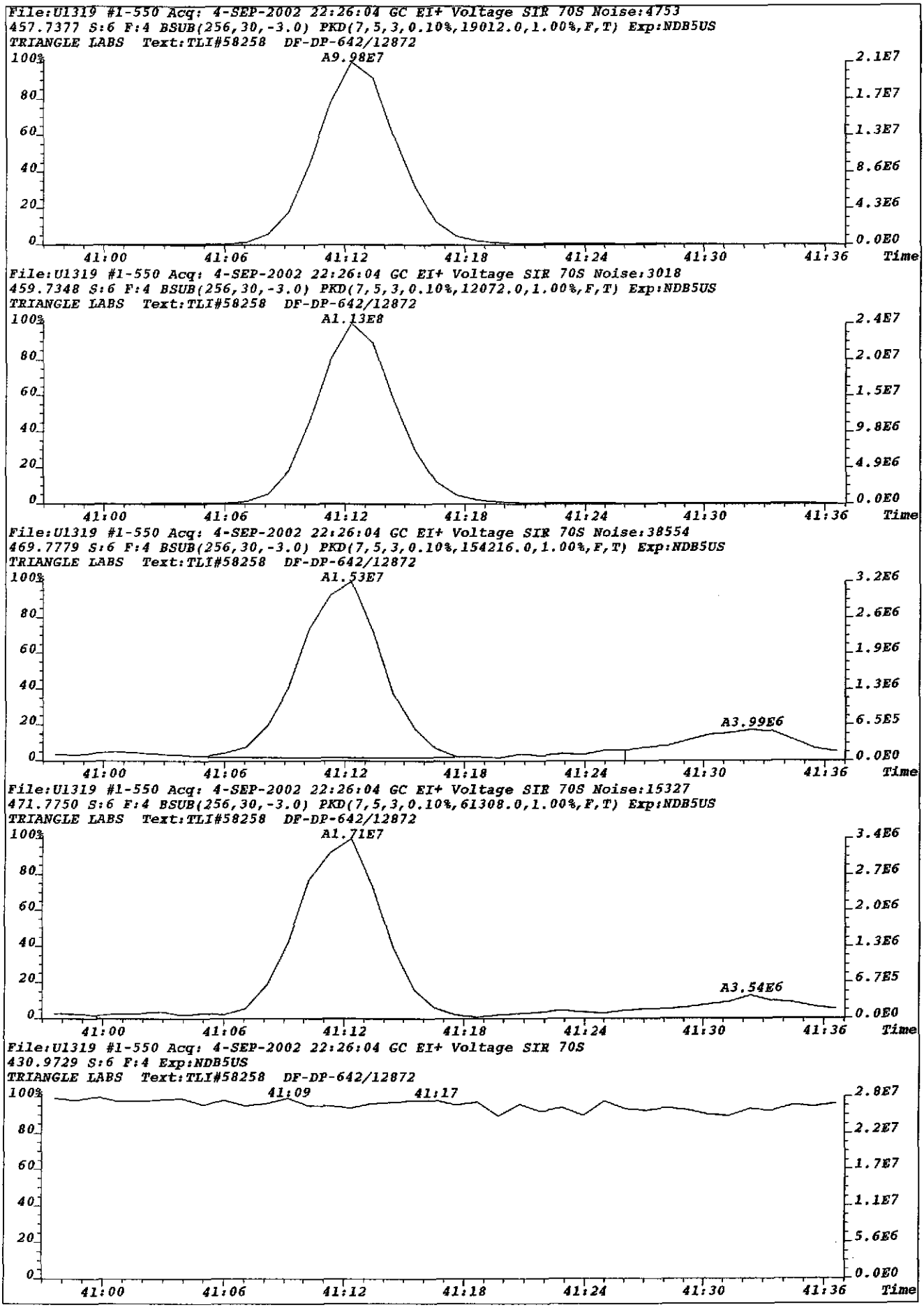

File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:18507
373.8208 S:6 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,74028.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A2.21E8
A1.57E8
A3.85E7
A5.53E7
A3.10E7
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:8057
375.8178 S:6 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,32228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.78E8
A1.27E8
A3.11E7
A4.29E7
A2.46E7
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:118035
383.8639 S:6 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,472140.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.67E7
A1.56E7
A2.93E7
A5.23E6
A7.64E6
A1.85E6
A2.03E6
A2.95E6
A1.66E6
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:170526
385.8610 S:6 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,682104.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A3.03E7
A3.54E7
A3.66E7
A1.04E7
A2.50E6
A5.49E6
A4.64E6
A1.50E6
A2.30E6
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
392.9760 S:6 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
32:40
33:09
33:21
33:51
34:20
34:33
35:13
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
445.7555 S:6 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
33:21
34:46
32:42
32:58
33:12
33:35
33:49
34:16
34:40
35:18
32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 Time

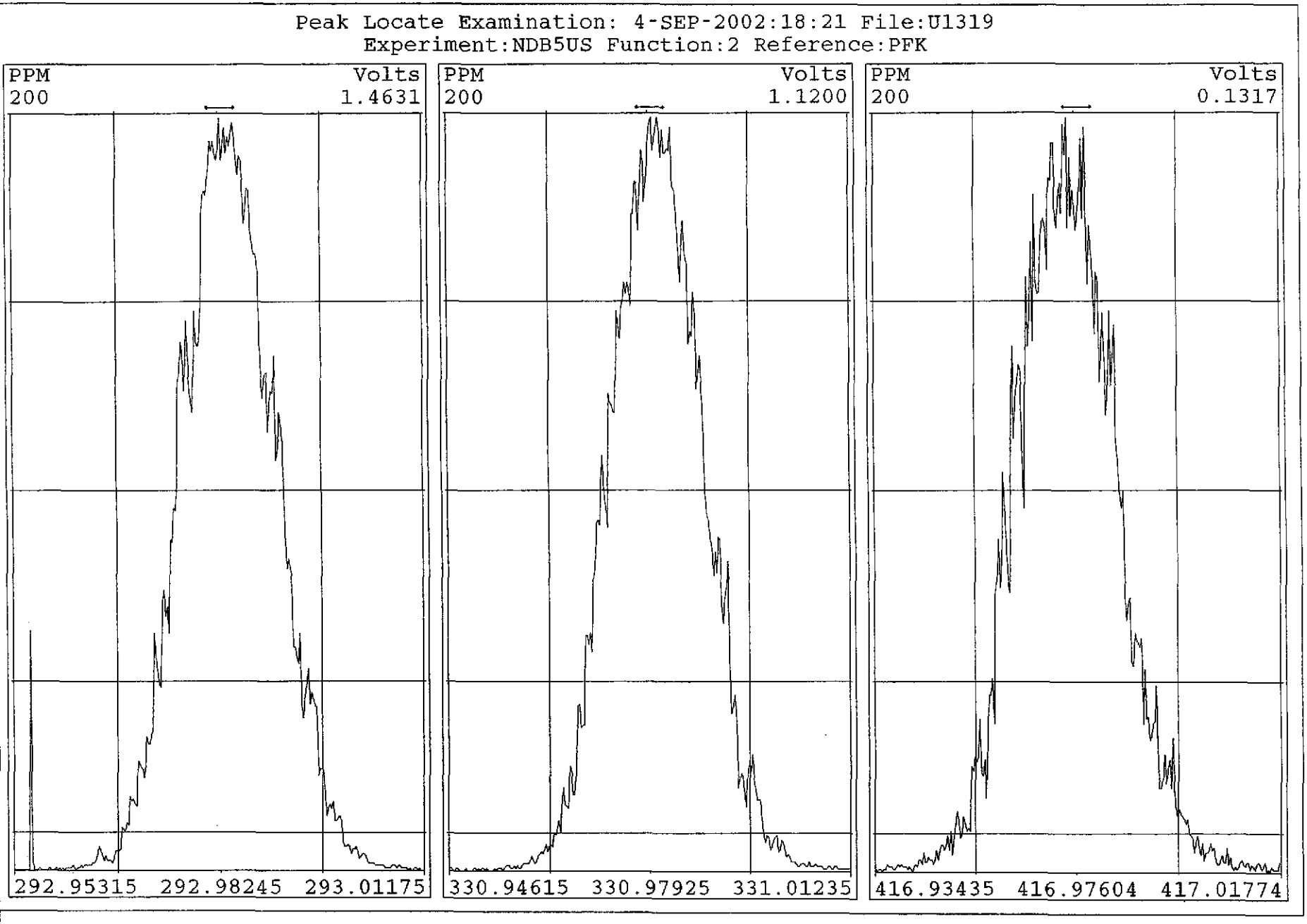

File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:15485
389.8156 S:6 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,61940.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A2.49E6
A1.80E6
A1.14E6
A1.44E6
A5.79E5
A3.33E5
A3.64E5
A3.35E5
A2.34E5
A5.67E5
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:37841
391.8127 S:6 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,151364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.23E7
A9.93E6
A4.52E6
A6.40E5
A3.01E5
A4.62E5
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:24673
401.8558 S:6 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,98692.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.84E7
A2.11E7
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:16850
403.8529 S:6 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,67400.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.68E7
A1.43E7
A1.03E6
A9.73E5
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
392.9760 S:6 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
33:09
33:21
33:51
34:20
34:33
Time

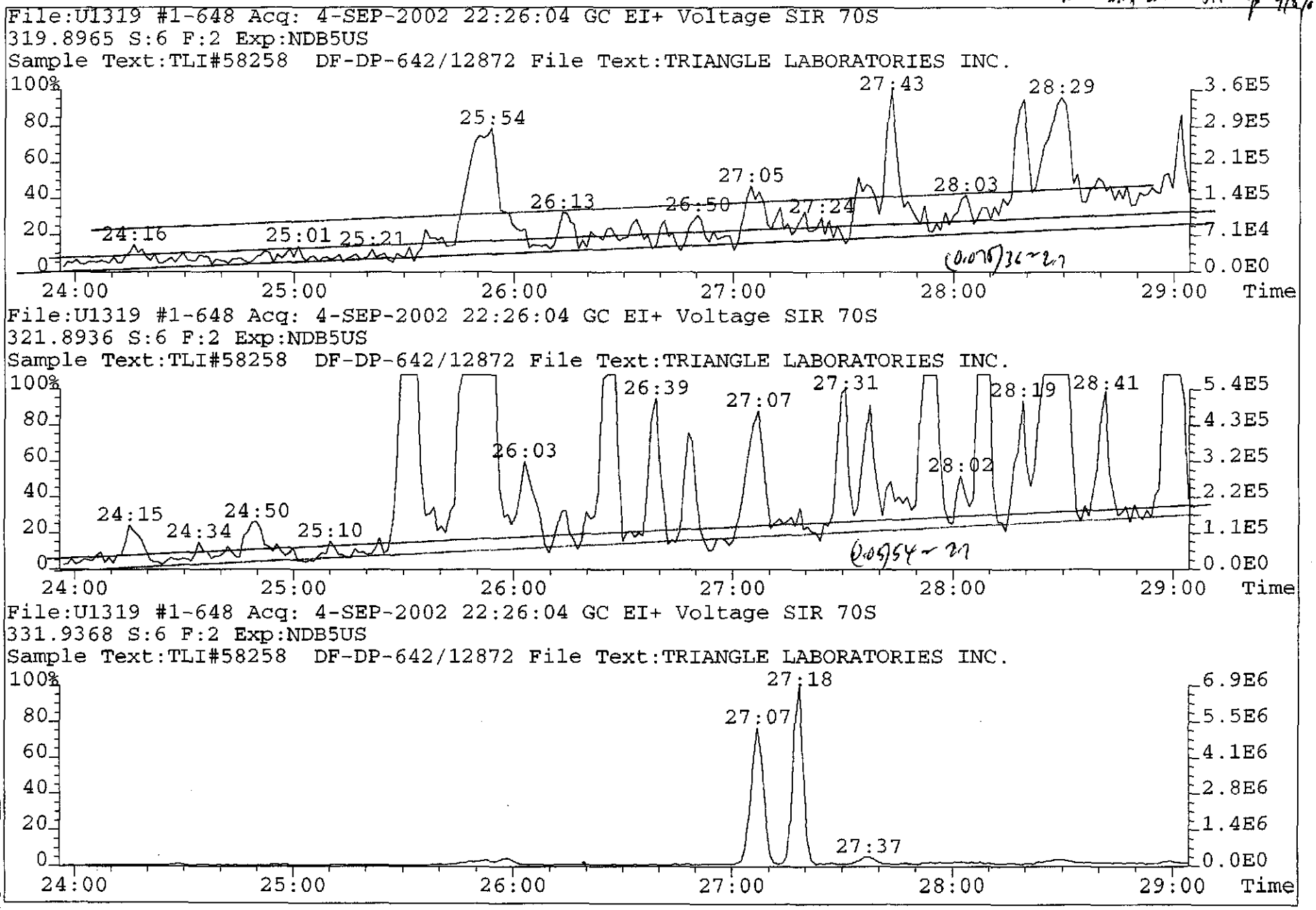

File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:13083
407.7818 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,52332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.88E8
A1.59E8
A3.86E7
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:7719
409.7789 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,30876.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.80E8
A1.52E8
A3.67E7
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:21273
417.8253 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,85092.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.04E7
A6.93E6
A4.34E6
A6.38E6
A3.83E6
A9.67E6
A4.43E6
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:41296
419.8220 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,165184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.96E7
A8.77E6
A5.17E6
A3.65E6
A5.12E6
A1.77E7
A5.46E6
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
430.9729 S:6 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
479.7165 S:6 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
36:46
36:39
36:53
37:09
37:29
37:39
37:56
38:17
38:23
Time

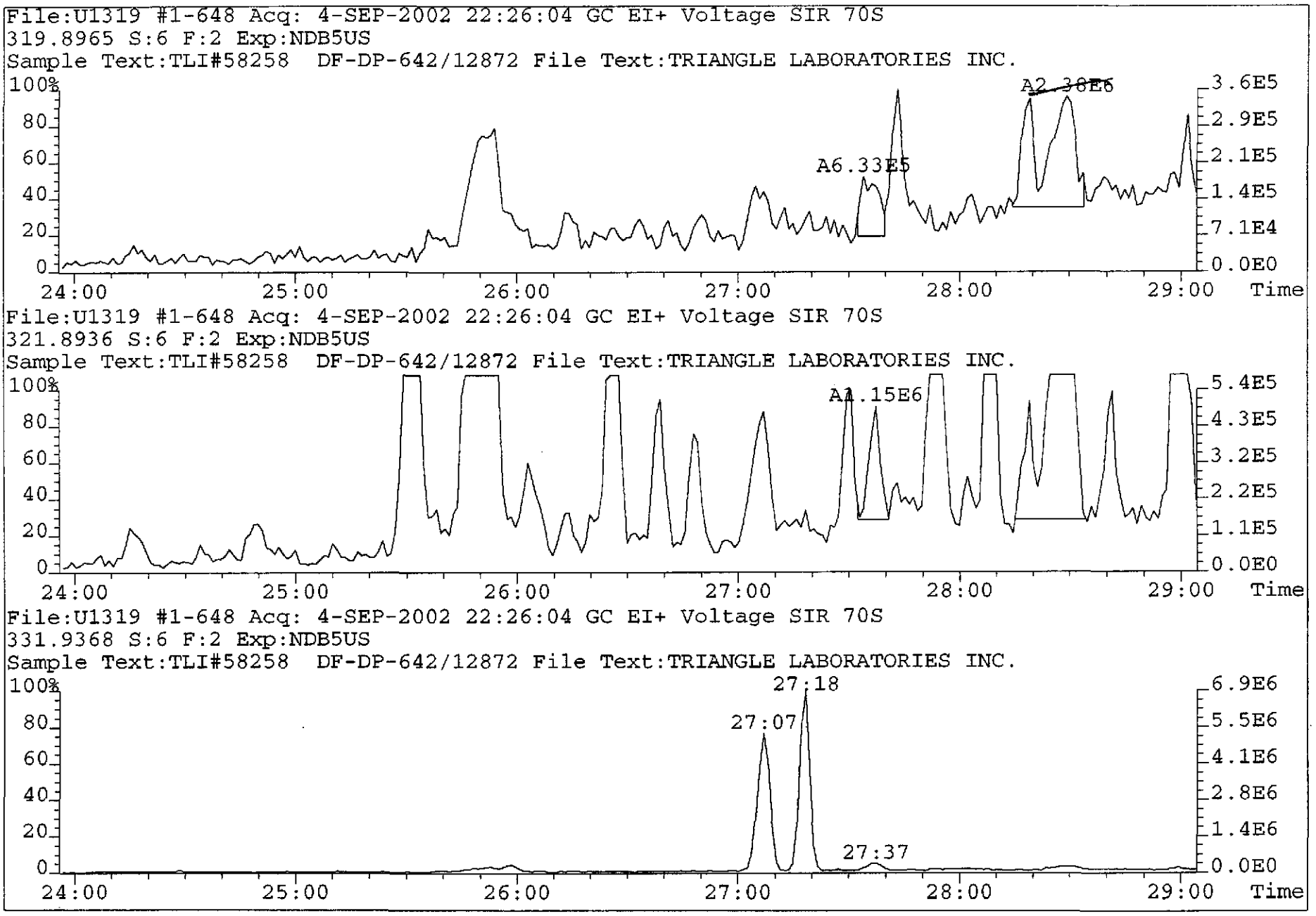

File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:8602
423.7766 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,34408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A3.99E6
A3.81E6
A4.43E5
A2.84E5
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:9550
425.7737 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,38200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A3.97E6
A3.55E6
A3.32E5
A3.66E5
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:36769
435.8169 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,147076.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.36E7
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:21123
437.8140 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,84492.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.19E7
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
430.9729 S:6 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
36:52
37:09
37:32
Time

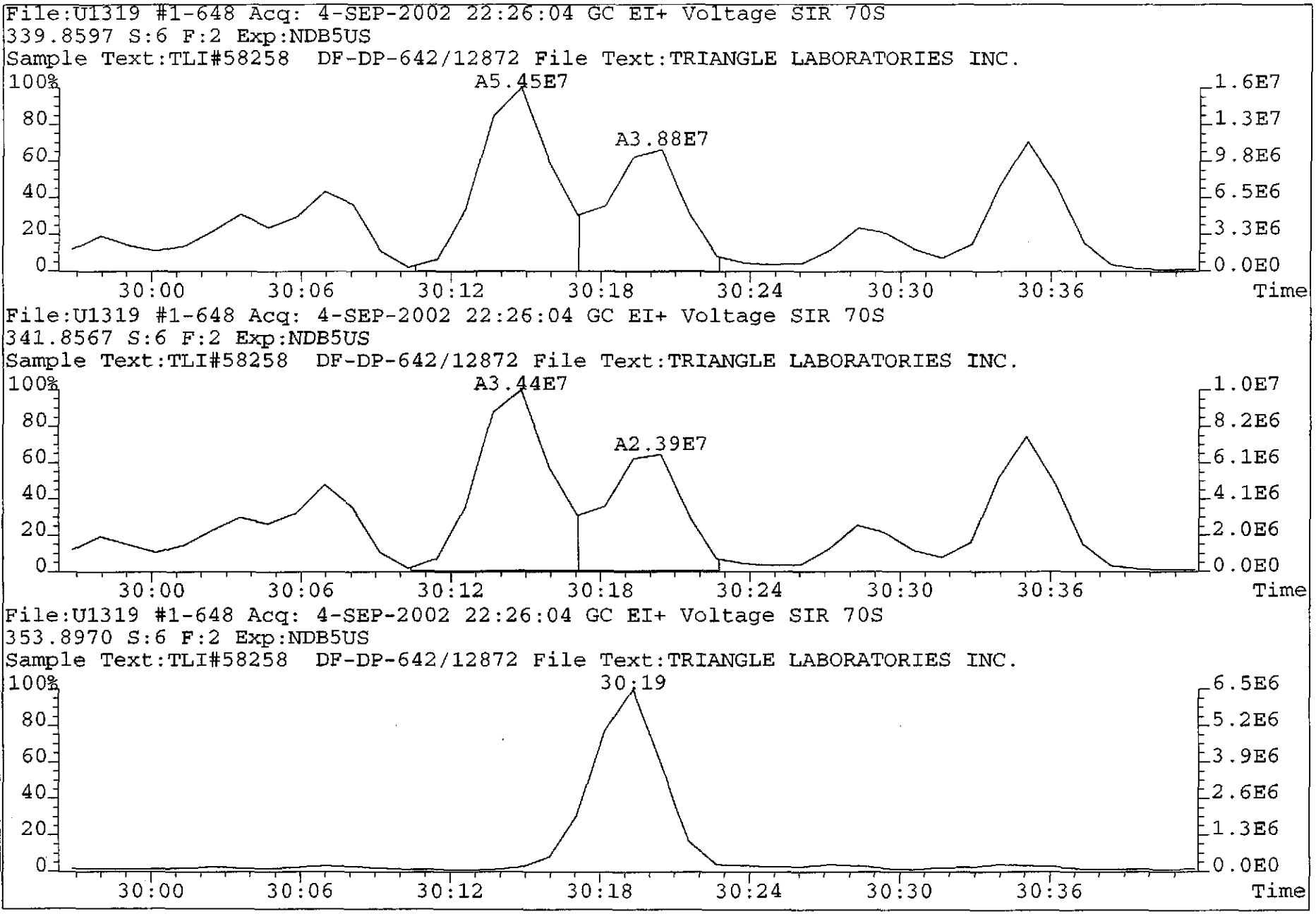

File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:6231
441.7428 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,24924.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A2.02E8
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:5734
443.7399 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,22936.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A2.31E8
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
430.9729 S:6 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
35:41
36:24
37:09
38:46
39:35
40:35
41:09
41:59
42:54
43:48
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
513.6775 S:6 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
36:14
37:06
37:51
39:01
39:32
40:31
41:10
41:32
42:11
42:29
43:15
44:01
44:23
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
Time

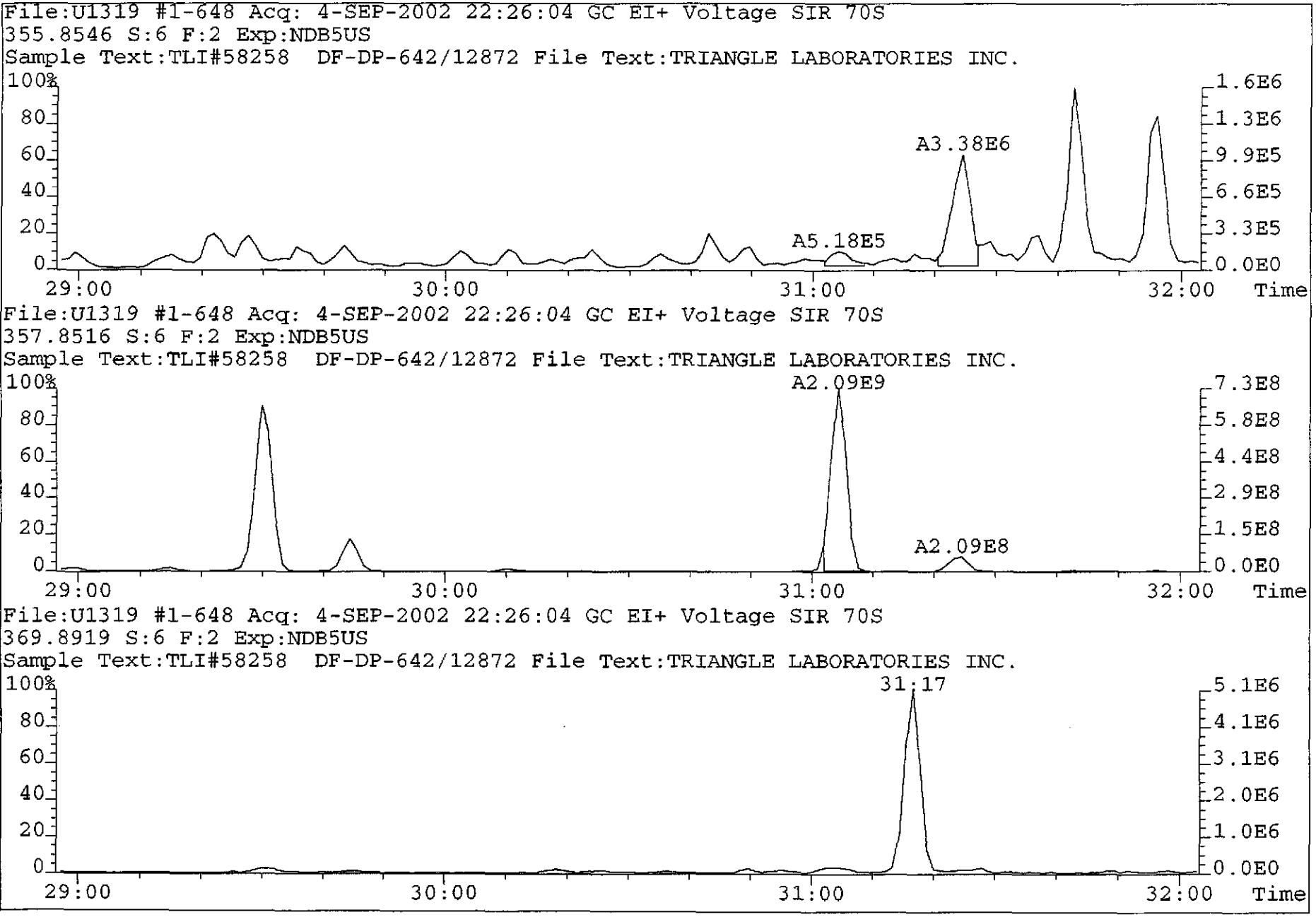

File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:4753
457.7377 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,19012.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A9.98E7
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:3018
459.7348 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12072.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.13E8
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:38554
469.7779 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,154216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.53E7
A3.99E6
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S Noise:15327
471.7750 S:6 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,61308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
A1.71E7
A3.54E6
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
430.9729 S:6 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#58258 DF-DP-642/12872
41:09
41:17
Time

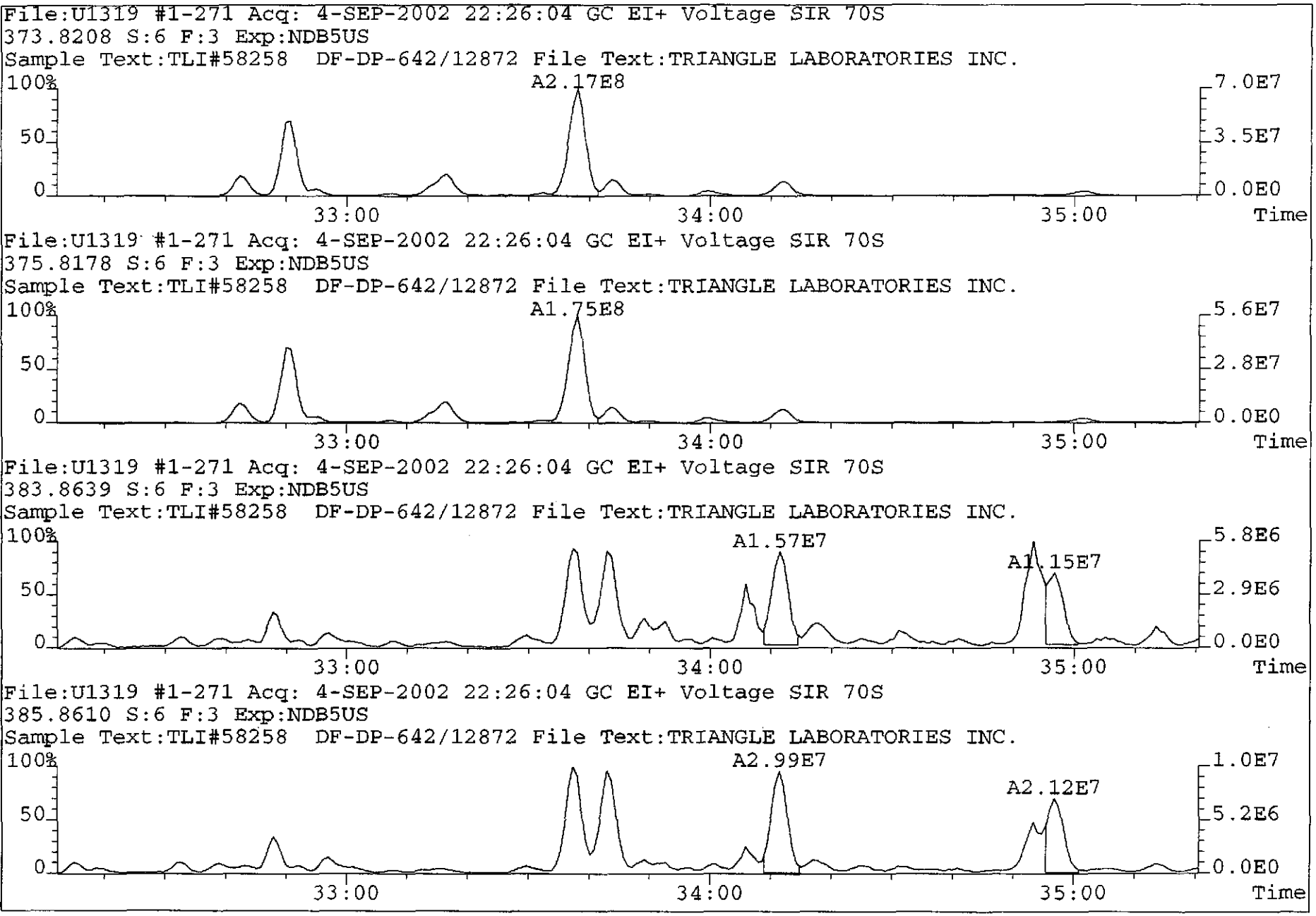

Peak Locate Examination: 4-SEP-2002:18:21 File:U1319
Experiment:NDB5US Function:2 Reference:PFK
PPM
200
Volts
1.4631
292.95315 292.98245 293.01175
PPM
200
Volts
1.1200
330.94615 330.97925 331.01235
PPM
200
Volts
0.1317
416.93435 416.97604 417.01774

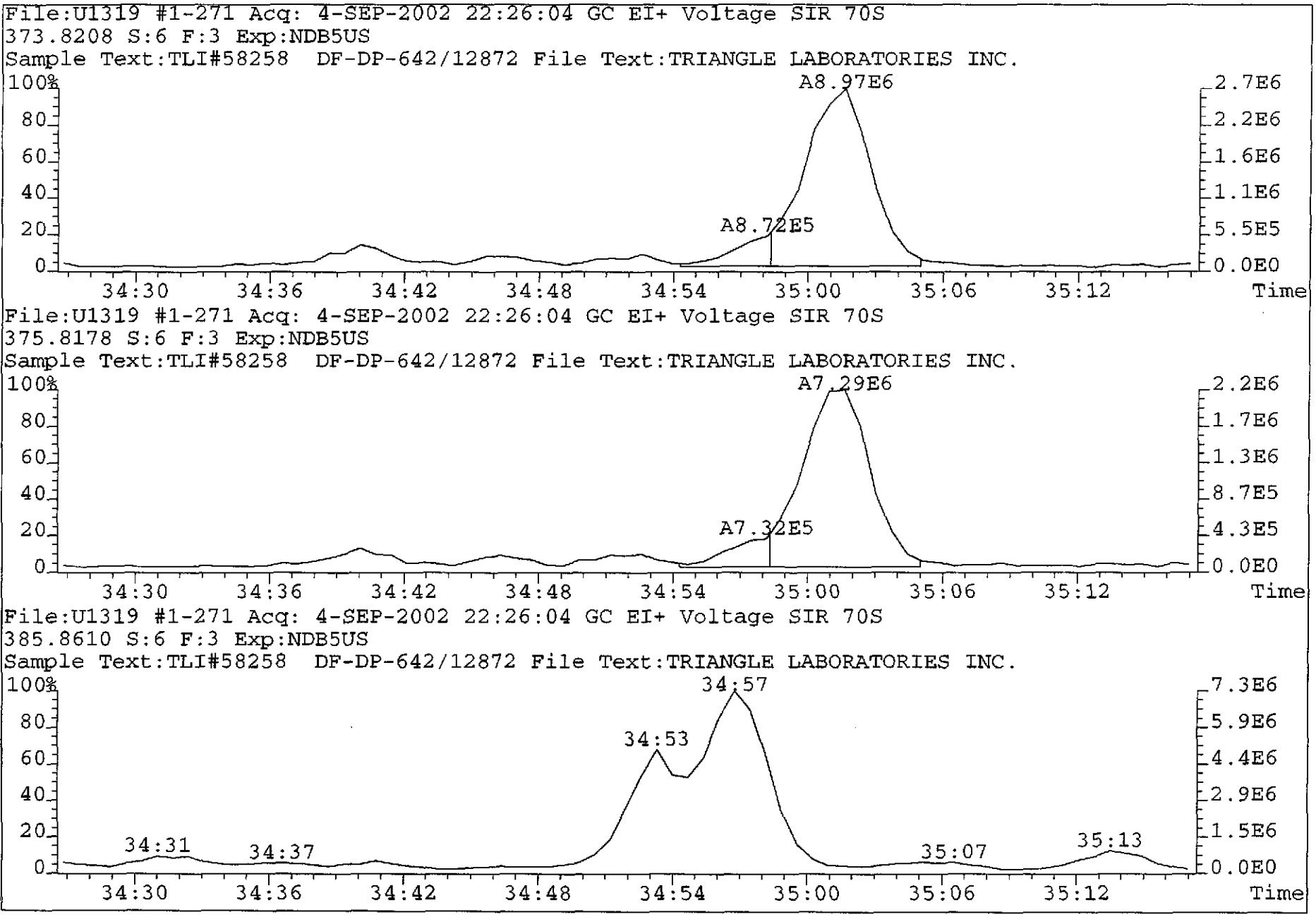

File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
319.8965 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
24:16
25:01
25:21
25:54
26:13
26:50
27:05
27:24
27:43
28:03
28:29
3.6E5
2.9E5
2.1E5
1.4E5
7.1E4
0.0E0
24:00
25:00
26:00
27:00
28:00
29:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
321.8936 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
24:15
24:34
24:50
25:10
26:03
26:39
27:07
27:31
28:02
28:19
28:41
5.4E5
4.3E5
3.2E5
2.2E5
1.1E5
0.0E0
24:00
25:00
26:00
27:00
28:00
29:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
331.9368 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
27:07
27:18
27:37
6.9E6
5.5E6
4.1E6
2.8E6
1.4E6
0.0E0
24:00
25:00
26:00
27:00
28:00
29:00
Time

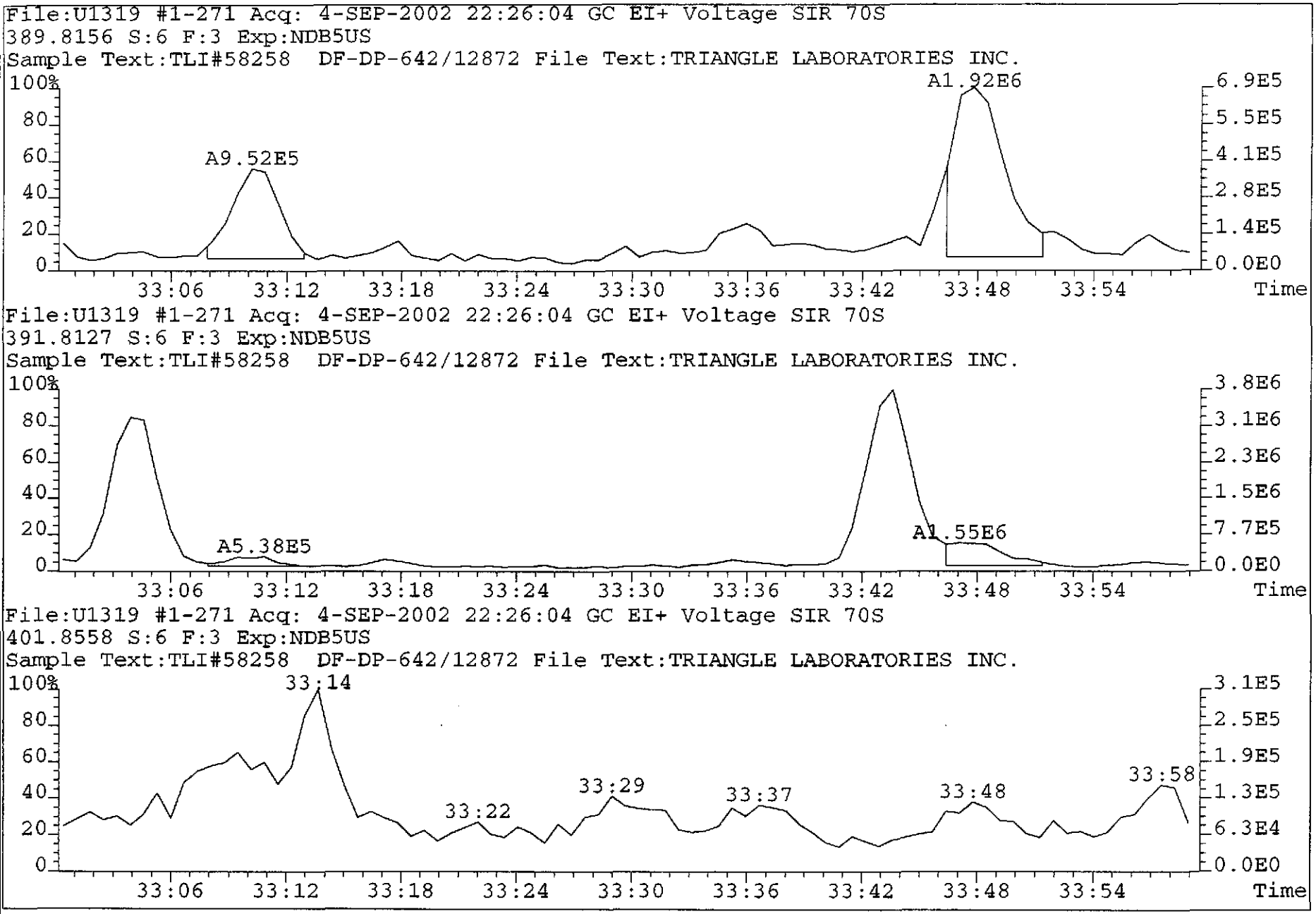

File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
319.8965 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A2.38E6
A6.33E5
3.6E5
2.9E5
2.1E5
1.4E5
7.1E4
0.0E0
24:00
25:00
26:00
27:00
28:00
29:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
321.8936 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A1.15E6
5.4E5
4.3E5
3.2E5
2.2E5
1.1E5
0.0E0
24:00
25:00
26:00
27:00
28:00
29:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
331.9368 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
27:18
27:07
27:37
6.9E6
5.5E6
4.1E6
2.8E6
1.4E6
0.0E0
24:00
25:00
26:00
27:00
28:00
29:00
Time


File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
339.8597 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A5.45E7
A3.88E7
1.6E7
1.3E7
9.8E6
6.5E6
3.3E6
0.0E0
30:00
30:06
30:12
30:18
30:24
30:30
30:36
Time
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
341.8567 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A3.44E7
A2.39E7
1.0E7
8.2E6
6.1E6
4.1E6
2.0E6
0.0E0
30:00
30:06
30:12
30:18
30:24
30:30
30:36
Time
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
353.8970 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
30:19
6.5E6
5.2E6
3.9E6
2.6E6
1.3E6
0.0E0
30:00
30:06
30:12
30:18
30:24
30:30
30:36
Time

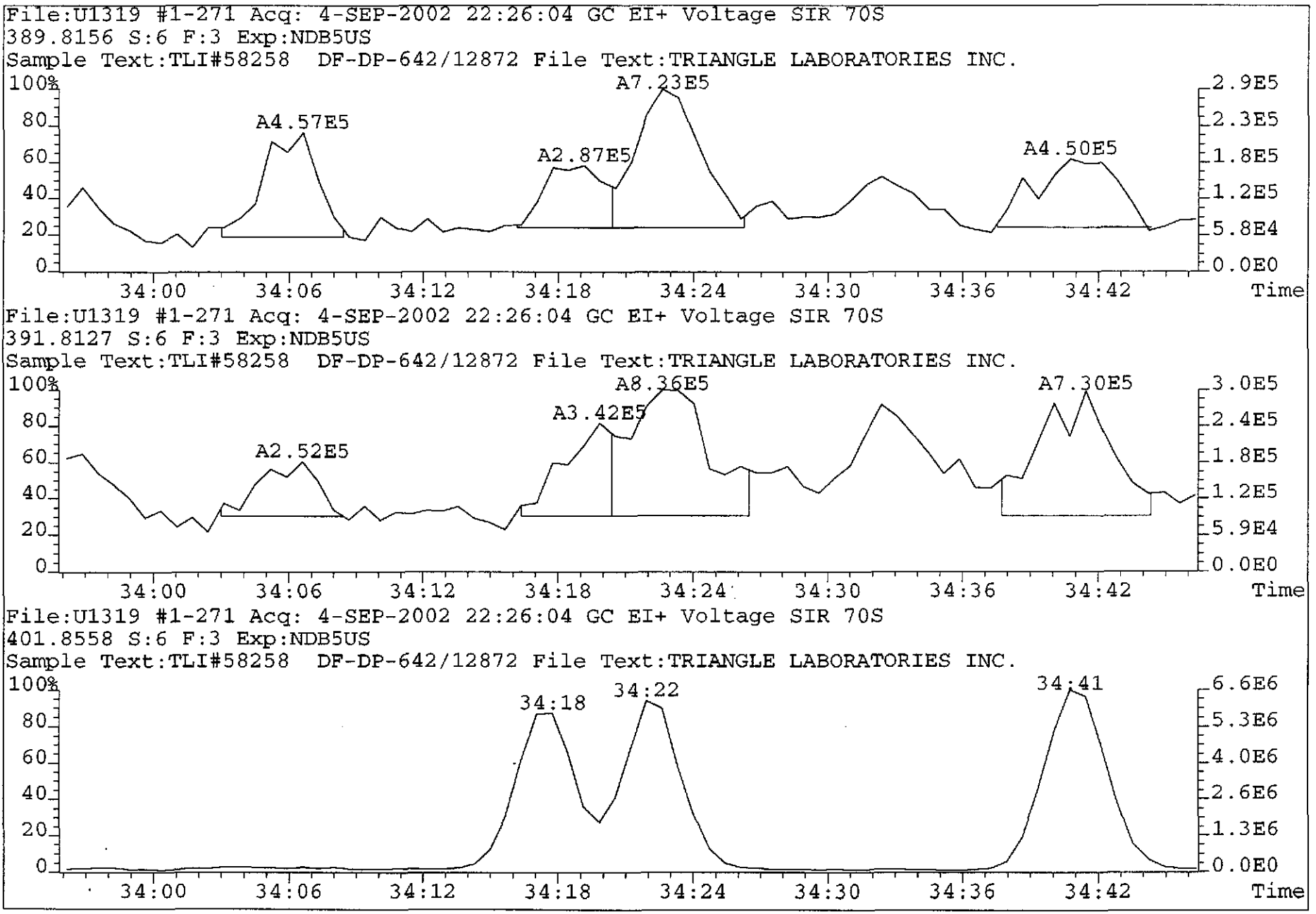

File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
355.8546 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A3.38E6
A5.18E5
1.6E6
1.3E6
9.9E5
6.6E5
3.3E5
0.0E0
29:00
30:00
31:00
32:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
357.8516 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A2.09E9
A2.09E8
7.3E8
5.8E8
4.4E8
2.9E8
1.5E8
0.0E0
29:00
30:00
31:00
32:00
Time
File:U1319 #1-648 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
369.8919 S:6 F:2 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
31:17
5.1E6
4.1E6
3.1E6
2.0E6
1.0E6
0.0E0
29:00
30:00
31:00
32:00
Time

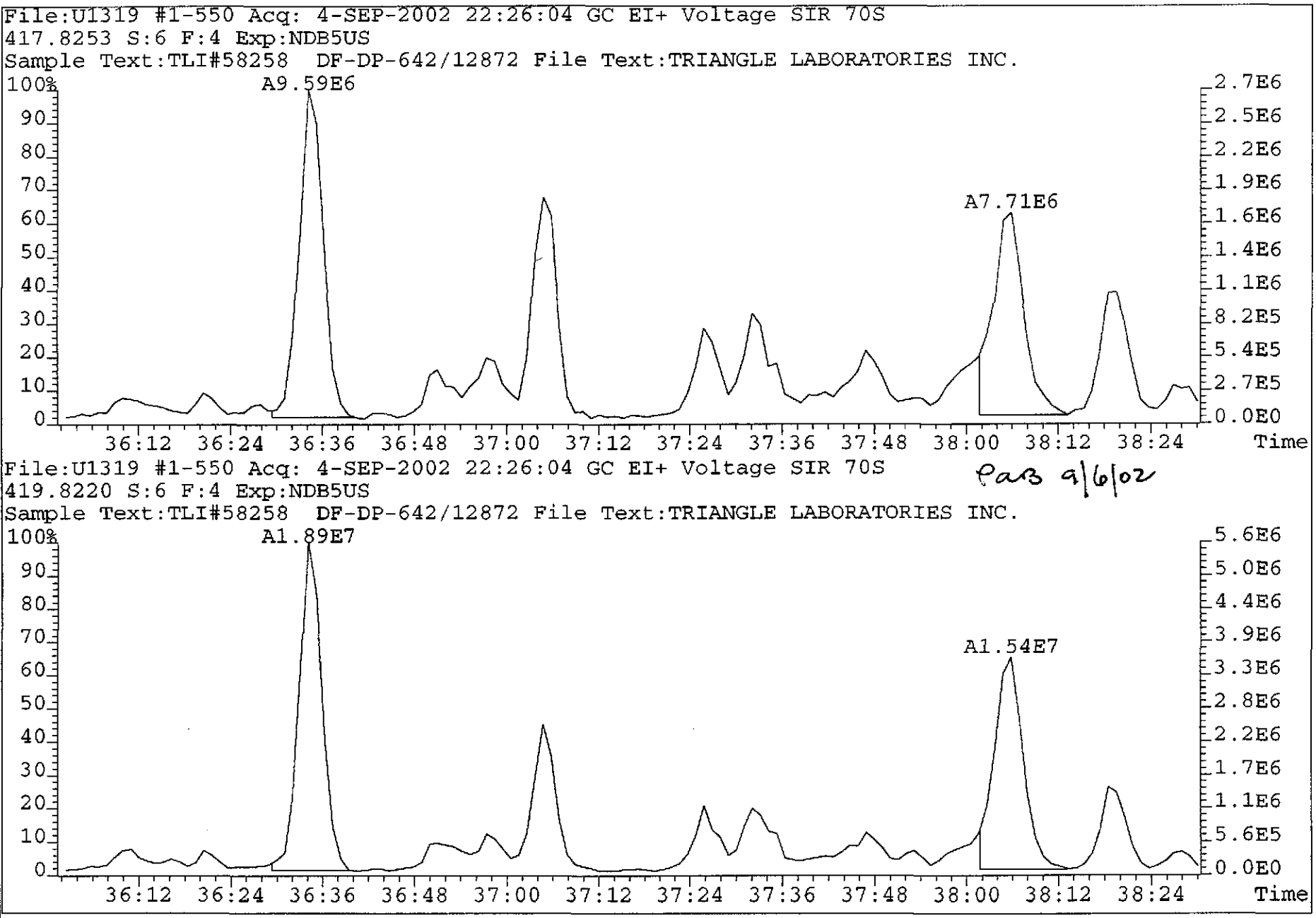

File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
373.8208 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A2.17E8
7.0E7
3.5E7
0.0E0
33:00
34:00
35:00
Time
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
375.8178 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A1.75E8
5.6E7
2.8E7
0.0E0
33:00
34:00
35:00
Time
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
383.8639 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A1.57E7
A1.15E7
5.8E6
2.9E6
0.0E0
33:00
34:00
35:00
Time
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
385.8610 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A2.99E7
A2.12E7
1.0E7
5.2E6
0.0E0
33:00
34:00
35:00
Time


File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
373.8208 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A8.97E6
A8.72E5
2.7E6
2.2E6
1.6E6
1.1E6
5.5E5
0.0E0
34:30
34:36
34:42
34:48
34:54
35:00
35:06
35:12
Time
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
375.8178 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A7.29E6
A7.32E5
2.2E6
1.7E6
1.3E6
8.7E5
4.3E5
0.0E0
34:30
34:36
34:42
34:48
34:54
35:00
35:06
35:12
Time
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
385.8610 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
34:57
34:53
34:31
34:37
35:07
35:13
7.3E6
5.9E6
4.4E6
2.9E6
1.5E6
0.0E0
34:30
34:36
34:42
34:48
34:54
35:00
35:06
35:12
Time


File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
389.8156 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A9.52E5
A1.92E6
6.9E5
5.5E5
4.1E5
2.8E5
1.4E5
0.0E0
33:06
33:12
33:18
33:24
33:30
33:36
33:42
33:48
33:54
Time
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
391.8127 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A5.38E5
A1.55E6
3.8E6
3.1E6
2.3E6
1.5E6
7.7E5
0.0E0
33:06
33:12
33:18
33:24
33:30
33:36
33:42
33:48
33:54
Time
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
401.8558 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
33:14
33:22
33:29
33:37
33:48
33:58
3.1E5
2.5E5
1.9E5
1.3E5
6.3E4
0.0E0
33:06
33:12
33:18
33:24
33:30
33:36
33:42
33:48
33:54
Time

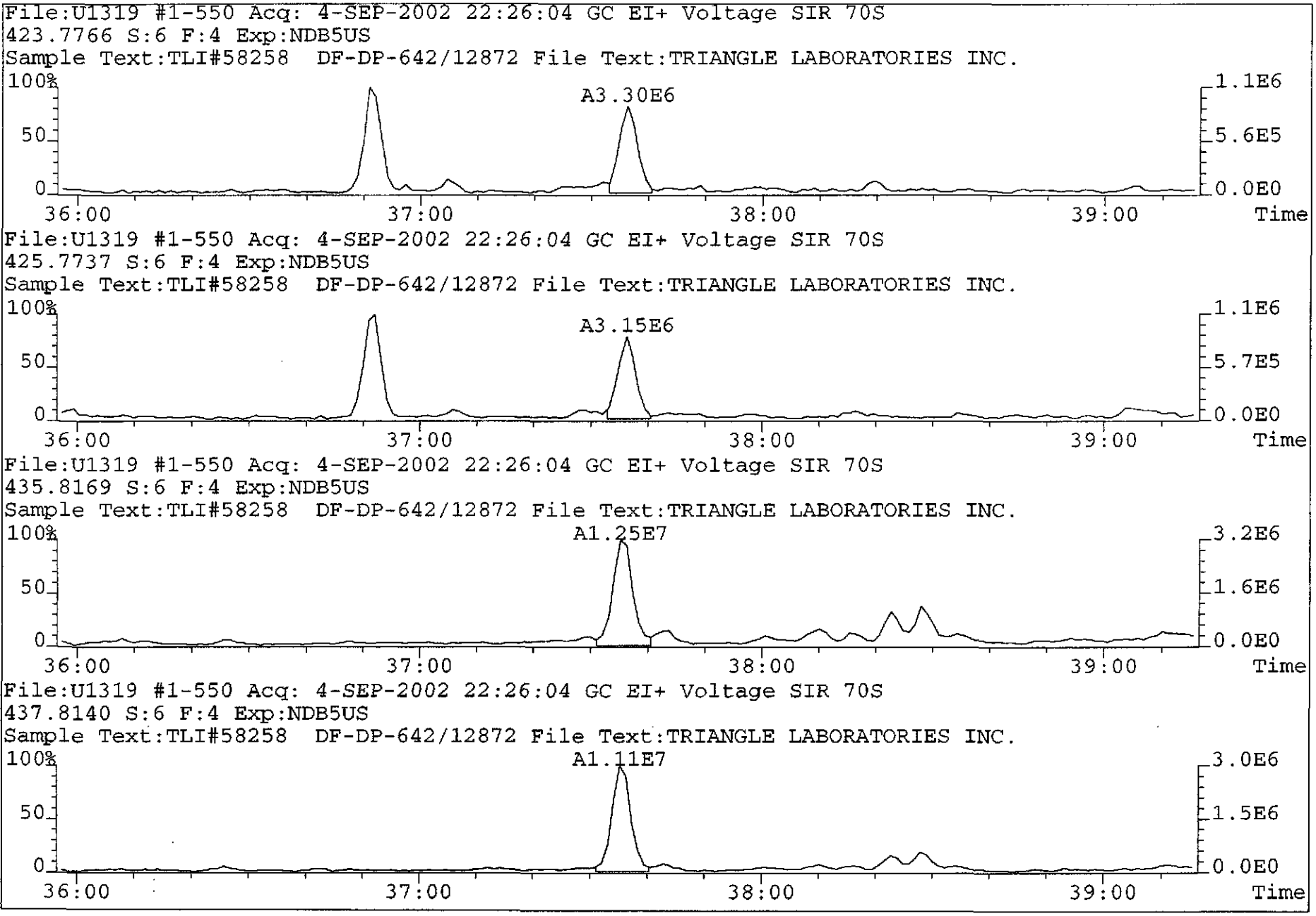
198


File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
389.8156 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A4.57E5
A2.87E5
A7.23E5
A4.50E5
2.9E5
2.3E5
1.8E5
1.2E5
5.8E4
0.0E0
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
Time
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
391.8127 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
A2.52E5
A3.42E5
A8.36E5
A7.30E5
3.0E5
2.4E5
1.8E5
1.2E5
5.9E4
0.0E0
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
Time
File:U1319 #1-271 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
401.8558 S:6 F:3 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
80
60
40
20
0
34:18
34:22
34:41
6.6E6
5.3E6
4.0E6
2.6E6
1.3E6
0.0E0
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
Time

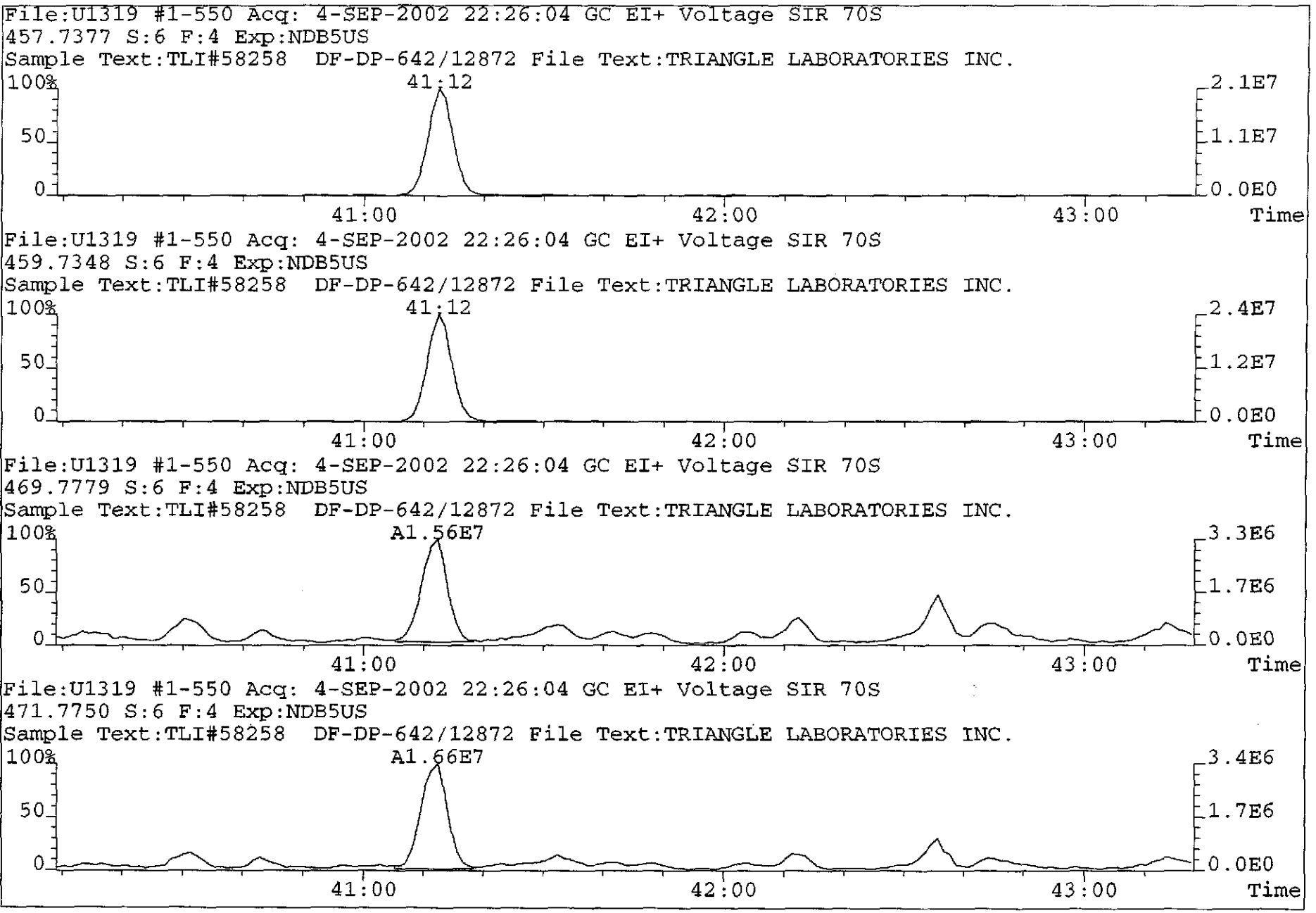

File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
417.8253 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
A9.59E6
A7.71E6
100%
90
80
70
60
50
40
30
20
10
0
2.7E6
2.5E6
2.2E6
1.9E6
1.6E6
1.4E6
1.1E6
8.2E5
5.4E5
2.7E5
0.0E0
36:12 36:24 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24
Time
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
419.8220 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
A1.89E7
A1.54E7
100%
90
80
70
60
50
40
30
20
10
0
5.6E6
5.0E6
4.4E6
3.9E6
3.3E6
2.8E6
2.2E6
1.7E6
1.1E6
5.6E5
0.0E0
36:12 36:24 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24
Time

PAB 9/6/02

200


File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
423.7766 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A3.30E6
1.1E6
5.6E5
0.0E0
36:00
37:00
38:00
39:00
Time
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
425.7737 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A3.15E6
1.1E6
5.7E5
0.0E0
36:00
37:00
38:00
39:00
Time
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
435.8169 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A1.25E7
3.2E6
1.6E6
0.0E0
36:00
37:00
38:00
39:00
Time
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
437.8140 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A1.11E7
3.0E6
1.5E6
0.0E0
36:00
37:00
38:00
39:00
Time

201


File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
457.7377 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
41:12
2.1E7
1.1E7
0.0E0
50
0
41:00
42:00
43:00
Time
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
459.7348 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
41:12
2.4E7
1.2E7
0.0E0
50
0
41:00
42:00
43:00
Time
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
469.7779 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
A1.56E7
3.3E6
1.7E6
0.0E0
50
0
41:00
42:00
43:00
Time
File:U1319 #1-550 Acq: 4-SEP-2002 22:26:04 GC EI+ Voltage SIR 70S
471.7750 S:6 F:4 Exp:NDB5US
Sample Text:TLI#58258 DF-DP-642/12872 File Text:TRIANGLE LABORATORIES INC.
100%
A1.66E7
3.4E6
1.7E6
0.0E0
50
0
41:00
42:00
43:00
Time

202

Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 TCDD/TCDF Analysis (DB-225)
Client Sample: **DF-DP-642/12872** Analysis File: **P023221**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SOIL**	Date Received:	**08/27/2002**	Spike File:	**SPC2NF2S**
TLI ID:	**334-48-4**	Date Extracted:	**08/28/2002**	ICal:	**PF56152**
		Date Analyzed:	**09/05/2002**	ConCal:	**P023216**
Sample Size:	**11.600 g**	Dilution Factor:	**n/a**	% Moisture:	**13.3**
Dry Weight:	**10.057 g**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-225**	Analyst:	**JMM**	% Solids:	**86.7**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDF	440			0.83	22:59	E__

Internal Standard	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	191	96.2	40%-130%	0.76	22:58	___

Recovery Standard	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.85	21:53	___

Data Reviewer: _____ 09/05/2002

C2NF_PSR v2.03, LARS 6.25.05

Triangle Laboratories, Inc.®
2445 S. Alston Ave. • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 18:23 09/05/2002

Initial ....Date...

Data Review By: CRM 9.5.02

Channel specific noise levels computed from 'NL' heights.

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of P023221B.dbf
09/05/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF				0.65-0.89					0.792-1.102				
304-306	DC	NL		Height			0.23	0.11	0.12				
	DC	WL		17:56	RO	8.50	0.14			0.781			
	DC	WL		18:04	RO	4.94	0.28			0.787			
				18:12	RO	2.73	0.65	1.01	0.37	0.792			J
				18:13	RO	0.38	0.23	0.10	0.26	0.793			J
				18:32	RO	18.39	0.58	6.07	0.33	0.807			J
				18:39	RO	5.94	10.18	34.17	5.75	0.812			
				18:47		0.78	3.32	1.45	1.87	0.818			
				18:51	RO	1.07	0.73	0.44	0.41	0.821			J
				18:58	RO	0.26	0.48	0.21	0.82	0.826			J
				19:08	RO	1.33	2.51	1.89	1.42	0.833			
				19:11		0.76	8.25	3.57	4.68	0.835			
				19:17		0.78	53.33	23.44	29.89	0.840			
				19:32	RO	0.98	4.71	2.62	2.66	0.851			
				19:39		0.69	29.99	12.25	17.74	0.856			
				19:45	RO	0.59	10.30	4.48	7.54	0.860			
				19:52		0.77	84.56	36.79	47.77	0.865			
				20:03	RO	0.54	3.63	1.58	2.95	0.873			
				20:17		0.85	29.38	13.52	15.86	0.883			
				20:26		0.80	160.40	71.06	89.34	0.890			
				20:33		0.87	16.88	7.85	9.03	0.895			
				20:42		0.80	226.87	101.06	125.81	0.901			
				20:49		0.66	16.41	6.54	9.87	0.906			
				21:11		0.76	167.89	72.30	95.59	0.922			
				21:24		0.79	28.65	12.61	16.04	0.932			
				21:37		0.78	241.50	105.93	135.57	0.941			
				21:51		0.80	133.03	59.07	73.96	0.951			
				22:04		0.77	63.11	27.49	35.62	0.961			
				22:26		0.81	31.94	14.26	17.68	0.977			
				22:32	RO	0.56	7.84	3.41	6.09	0.981			
	M			22:59		0.83	562.00	255.00	307.00	1.001	2378-TCDF	AN	E
				23:11		0.80	120.95	53.94	67.01	1.009			
				23:33		0.79	447.53	197.68	249.85	1.025			
				24:19	RO	1.09	14.46	8.94	8.17	1.059			
				24:33	RO	0.53	6.25	2.72	5.10	1.069			
				24:45		0.85	18.14	8.32	9.82	1.078			
				25:00	RO	0.47	1.40	0.61	1.30	1.089			
				25:14		0.76	33.65	14.52	19.13	1.099			
304-306			35	Peaks			2,541.73						
13C12-TCDF				0.65-0.89					0.956-1.044				
316-318	DC	NL		Height			0.27	0.11	0.16				
	DC	WL		18:25	RO	2.21	0.60			0.802			

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	WL		18:27	RO	1.11	0.97			0.803			
	DC	WL		18:49		0.78	84.62			0.819			
	DC	WL		18:57	RO	0.36	0.28			0.825			
	DC	WL		19:07	RO	0.06	0.14			0.832			
	DC	WL		19:34	RO	0.95	10.21			0.852			
	DC	WL		19:47	RO	1.66	0.83			0.861			
	DC	WL		19:54	RO	0.60	5.82			0.866			
	DC	WL		20:39	RO	0.26	0.46			0.899			
	DC	WL		20:50	RO	0.28	0.28			0.907			
	DC	WL		20:54	RO	1.12	0.30			0.910			
	DC	WL		20:58		0.80	0.45			0.913			
	DC	WL		21:15	RO	0.04	0.32			0.925			
	DC	WL		21:28	RO	1.93	1.89			0.935			
	DC	WL		21:35	RO	0.48	3.13			0.940			
	DC	WL		21:48	RO	1.38	1.98			0.949			
	DC	WL		21:54	RO	1.50	0.35			0.954			
				22:05		0.65	2.83	1.12	1.71	0.962			
	DC	SN		22:23	RO	12.09	0.19			0.975			
				22:28	RO	5.18	1.20	3.52	0.68	0.978			
	DC	SN		22:37	RO	1.92	0.21			0.985			
				22:42		0.67	0.50	0.20	0.30	0.988			
				22:58		0.76	226.93	97.83	129.10	1.000	13C12-2378-TCDF	ISO	
					Height		45.96	19.93	26.03				
				23:08	RO	1.95	1.12	1.23	0.63	1.007			
				23:19	RO	1.61	0.64	0.58	0.36	1.015			
				23:30	RO	0.19	0.62	0.27	1.42	1.023			
				23:48	RO	0.06	0.99	0.43	7.02	1.036			
	DC	WH		24:04	RO	1.65	0.46			1.048			
	DC	WH		24:11	RO	1.07	5.08			1.053			
	DC	WH		24:22		0.67	2.00			1.061			
	DC	WH		24:42	RO	2.04	2.18			1.075			
	DC	WH		24:49	RO	0.60	0.21			1.081			
	DC	WH		24:56	RO	2.00	0.42			1.086			
	DC	WH		25:01	RO	7.69	0.23			1.089			
316-318		8	Peaks				234.83						

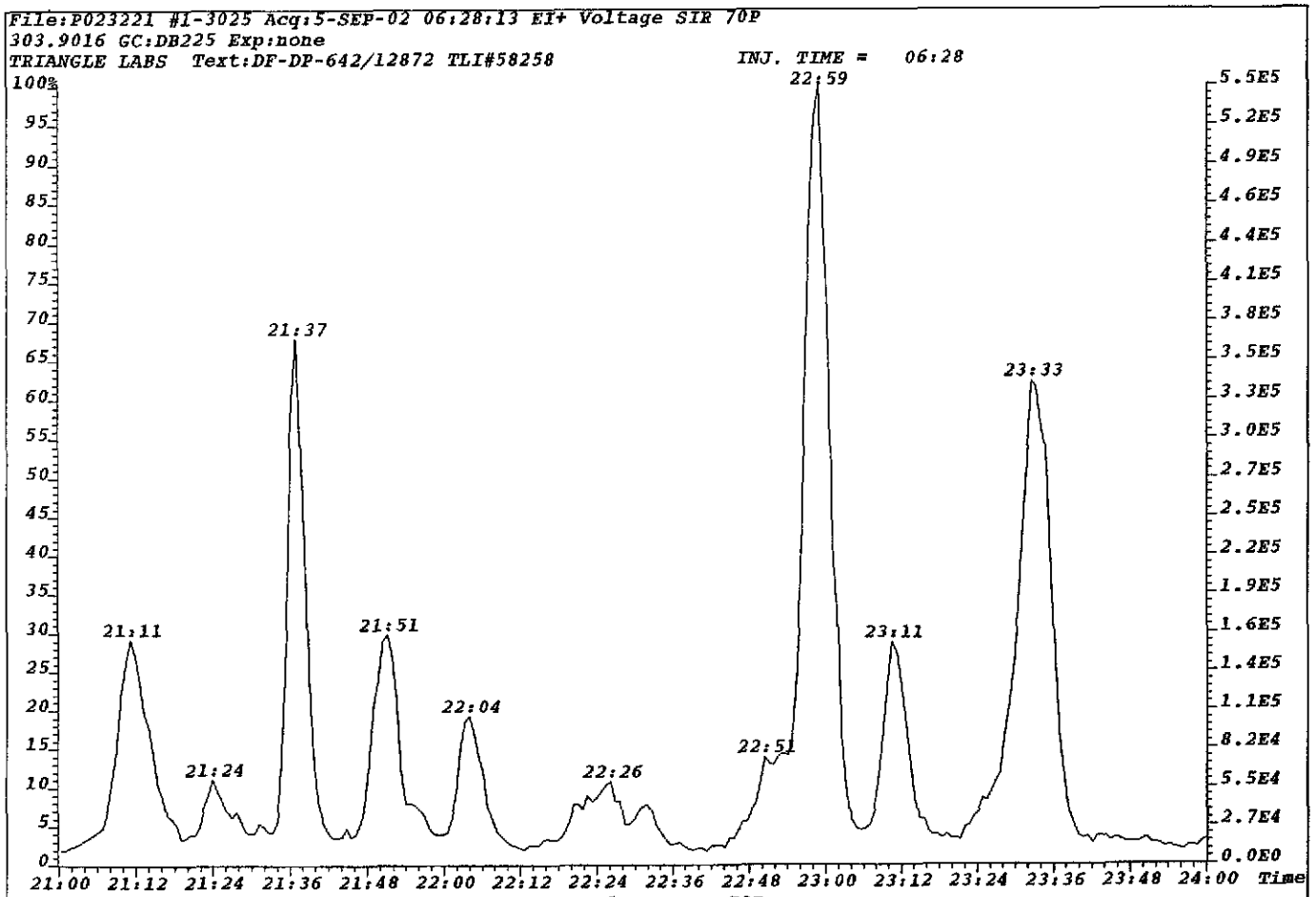
---------- Above: TCDF / TCDD Follows ----------

13C12-TCDD				0.65-0.89						0.906-1.094			
332-334	DC	NL			Height		0.30	0.22	0.08				
	DC	WL		18:49		0.77	0.78			0.870			
	DC	WL		18:56	RO	2.92	0.44			0.875			
	DC	WL		19:05	RO	0.43	0.60			0.882			
	DC	WL		19:15	RO	1.40	0.53			0.890			
	DC	WL		19:24	RO	2.00	0.81			0.897			
	DC	WL		19:28	RO	2.88	2.16			0.900			
	DC	WL		19:35	RO	1.45	0.67			0.905			
	DC	SN		19:43	RO	0.58	0.34			0.911			
				19:54	RO	6.21	0.50	1.74	0.28	0.920			
	DC	SN		20:03	RO	2.41	0.30			0.927			
				20:05	RO	0.97	0.60	0.33	0.34	0.928			
				20:15	RO	5.50	0.25	0.77	0.14	0.936			

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				20:19	RO	4.18	0.30	0.71	0.17	0.939			
	DC	SN		20:47	RO	0.36	0.51			0.961			
	DC	SN		20:55		0.86	0.80			0.967			
	DC	SN		20:58	RO	1.19	0.65			0.969			
	DC	SN		21:03	RO	1.00	0.48			0.973			
				21:38		0.86	135.23	62.67	72.56	1.000	13C12-2378-TCDD	IS1	
						Height	29.16	13.02	16.14				
				21:53		0.85	155.28	71.16	84.12	1.012	13C12-1234-TCDD	RS1	
				22:02	RO	3.04	0.41	0.70	0.23	1.018			
				22:23	RO	1.39	0.78	0.61	0.44	1.035			
				22:31	RO	1.09	0.76	0.47	0.43	1.041			
				23:10	RO	1.18	0.78	0.52	0.44	1.071			
				23:20	RO	3.97	0.58	1.31	0.33	1.079			
				23:31	RO	10.96	0.81	5.04	0.46	1.087			
	DC	WH		23:42	RO	1.93	4.25			1.096			
	DC	WH		23:51	RO	1.40	0.18			1.102			
	DC	WH		23:59		0.87	0.86			1.109			
	DC	WH		24:03		0.65	0.71			1.112			
	DC	WH		24:11	RO	0.29	0.92			1.118			
332-334			12	Peaks			296.28						

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

*** End of Report ***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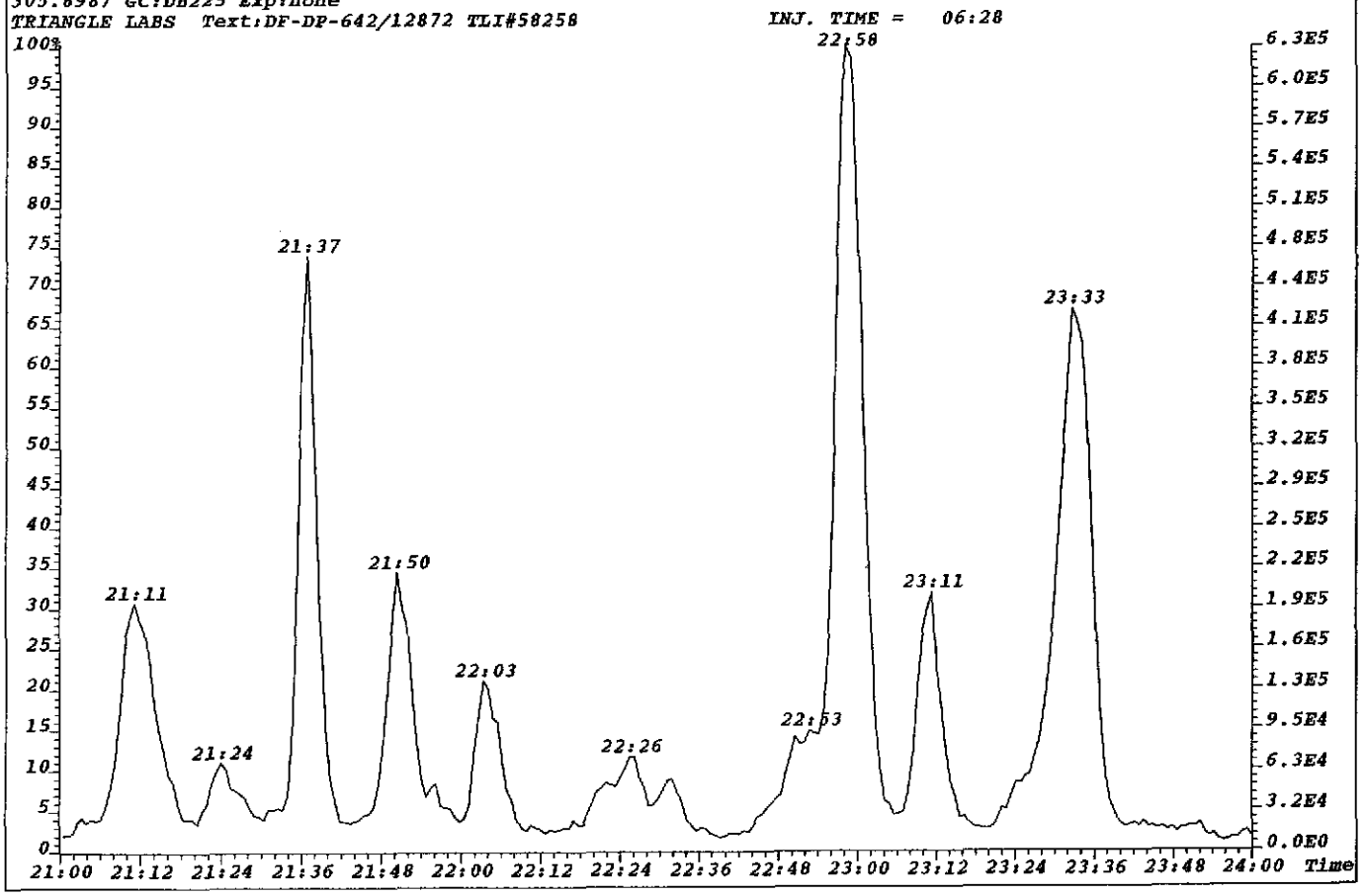
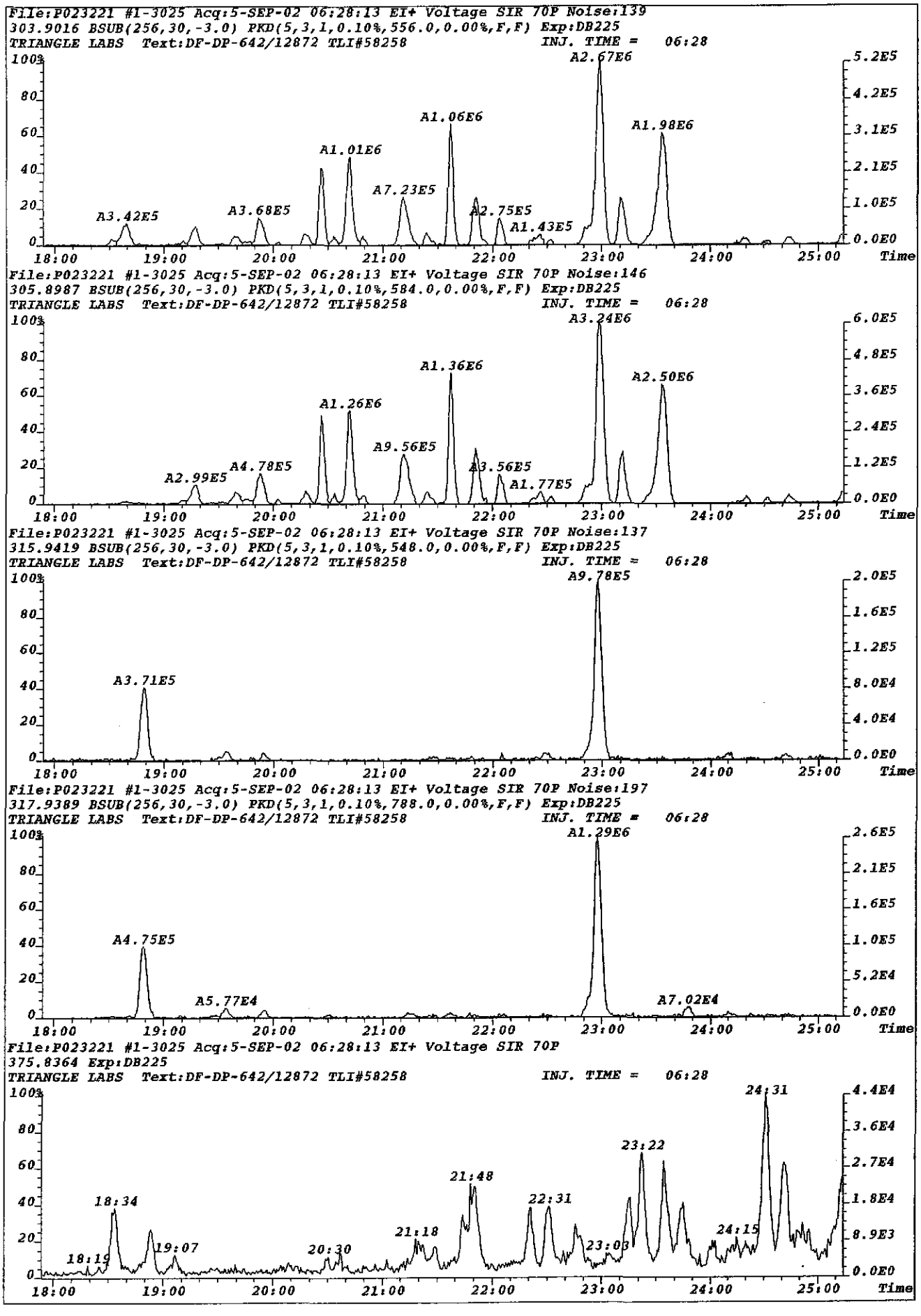
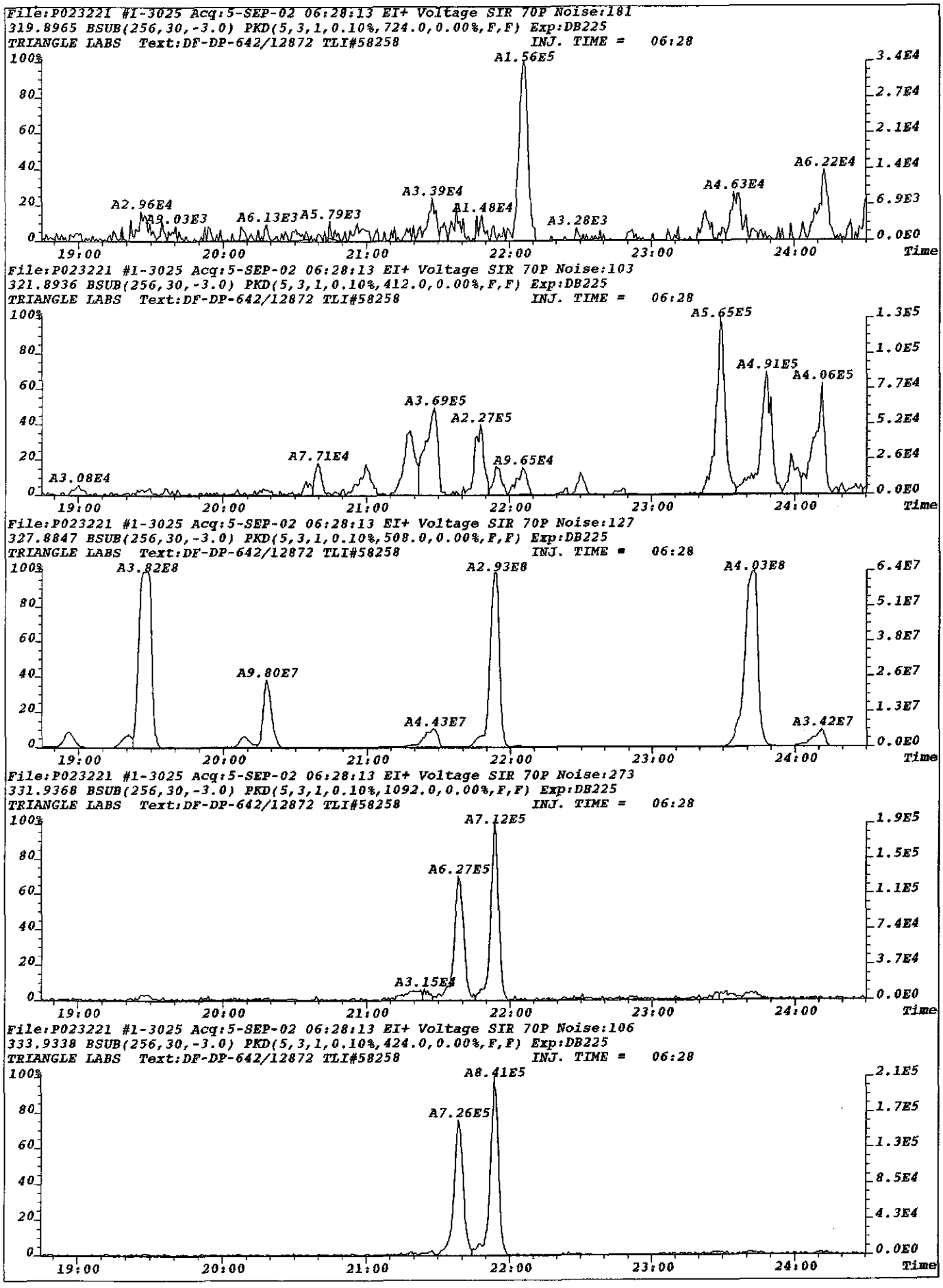
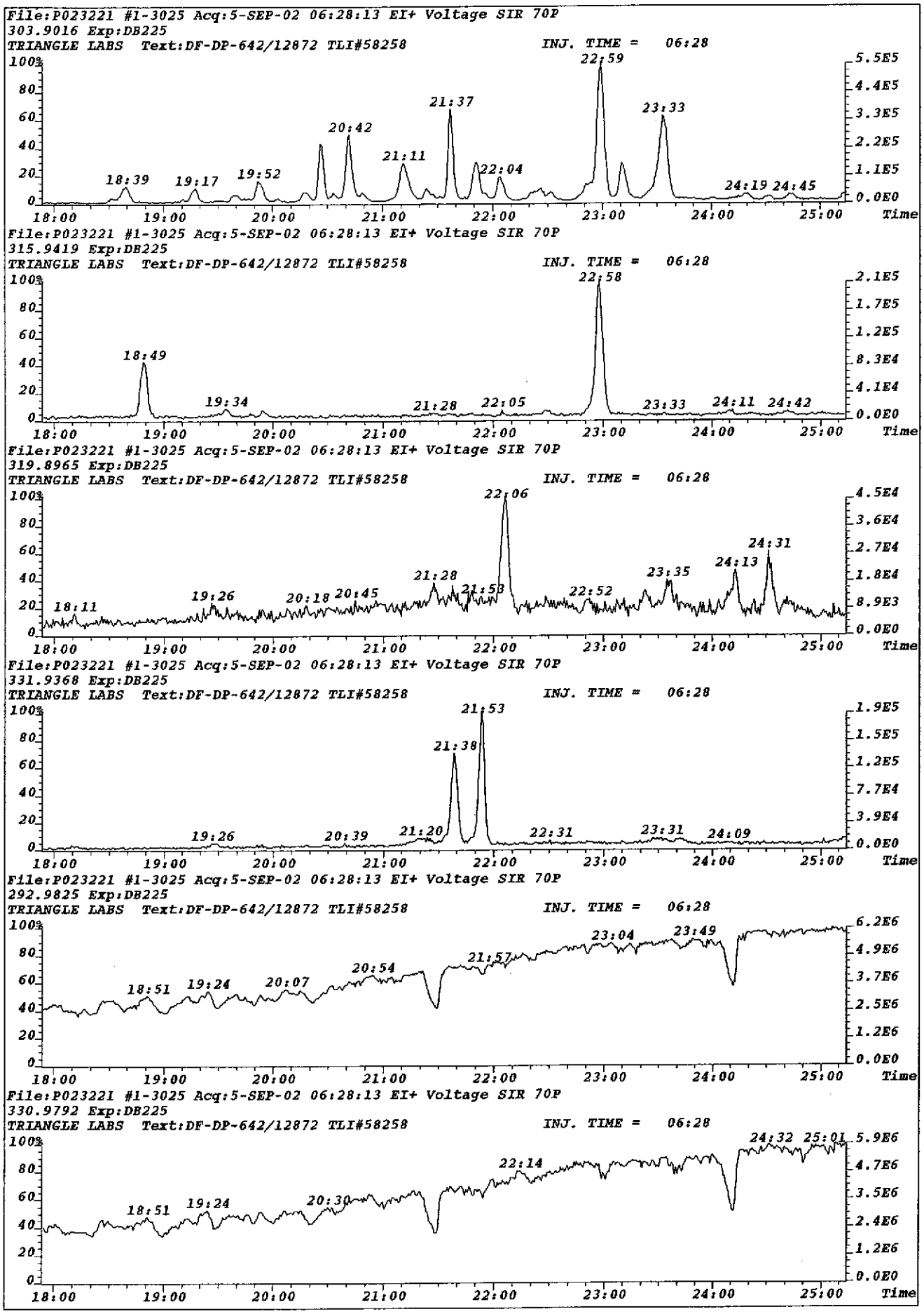
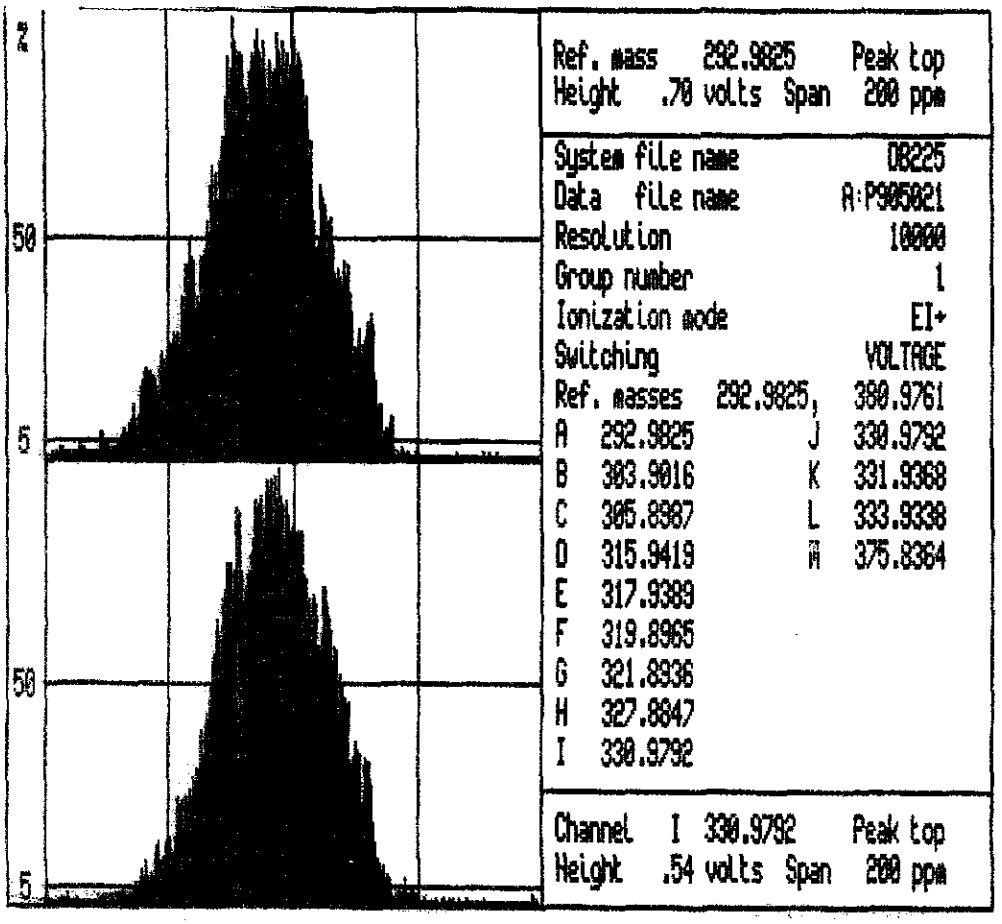
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
21:11
21:24
21:37
21:51
22:04
22:26
22:51
22:59
23:11
23:33
Time


File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
21:11
21:24
21:37
21:50
22:03
22:26
22:53
22:58
23:11
23:33
Time


File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P Noise:139
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,556.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
A2.67E6
A1.06E6
A1.98E6
A1.01E6
A7.23E5
A3.42E5
A3.68E5
A2.75E5
A1.43E5
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P Noise:146
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,584.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
A3.24E6
A1.36E6
A2.50E6
A1.26E6
A9.56E5
A2.99E5
A4.78E5
A3.56E5
A1.77E5
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P Noise:137
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,548.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
A9.78E5
A3.71E5
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P Noise:197
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,788.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
A1.29E6
A4.75E5
A5.77E4
A7.02E4
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
24:31
23:22
21:48
18:34
22:31
21:18
24:15
18:19
19:07
20:30
23:03
18:00
19:00
20:00
21:00
22:00
23:00
24:00
25:00
Time


File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P Noise:181
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,724.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
A1.56E5
A2.96E4
A9.03E3
A6.13E3
A5.79E3
A3.39E4
A1.48E4
A3.28E3
A4.63E4
A6.22E4
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P Noise:103
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,412.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
A5.65E5
A4.91E5
A4.06E5
A3.69E5
A2.27E5
A7.71E4
A9.65E4
A3.08E4
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P Noise:127
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,508.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
A3.82E8
A2.93E8
A4.03E8
A9.80E7
A4.43E7
A3.42E7
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P Noise:273
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1092.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
A7.12E5
A6.27E5
A3.15E4
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P Noise:106
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,424.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
A8.41E5
A7.26E5
100%
80
60
40
20
0
19:00
20:00
21:00
22:00
23:00
24:00
Time
3.4E4
2.7E4
2.1E4
1.4E4
6.9E3
0.0E0
1.3E5
1.0E5
7.7E4
5.2E4
2.6E4
6.4E7
5.1E7
3.8E7
2.6E7
1.3E7
1.9E5
1.5E5
1.1E5
7.4E4
3.7E4
2.1E5
1.7E5
1.3E5
8.5E4
4.3E4


File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
303.9016 Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
18:39 19:17 19:52 20:42 21:11 21:37 22:04 22:59 23:33 24:19 24:45
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
315.9419 Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
18:49 19:34 21:28 22:05 22:58 23:33 24:11 24:42
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
319.8965 Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
18:11 19:26 20:18 20:45 21:28 21:53 22:06 22:52 23:35 24:13 24:31
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
331.9368 Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
19:26 20:39 21:20 21:38 21:53 22:31 23:31 24:09
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
292.9825 Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
18:51 19:24 20:07 20:54 21:57 23:04 23:49
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
330.9792 Exp:DB225
TRIANGLE LABS Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28
18:51 19:24 20:30 22:14 24:32 25:01
Time



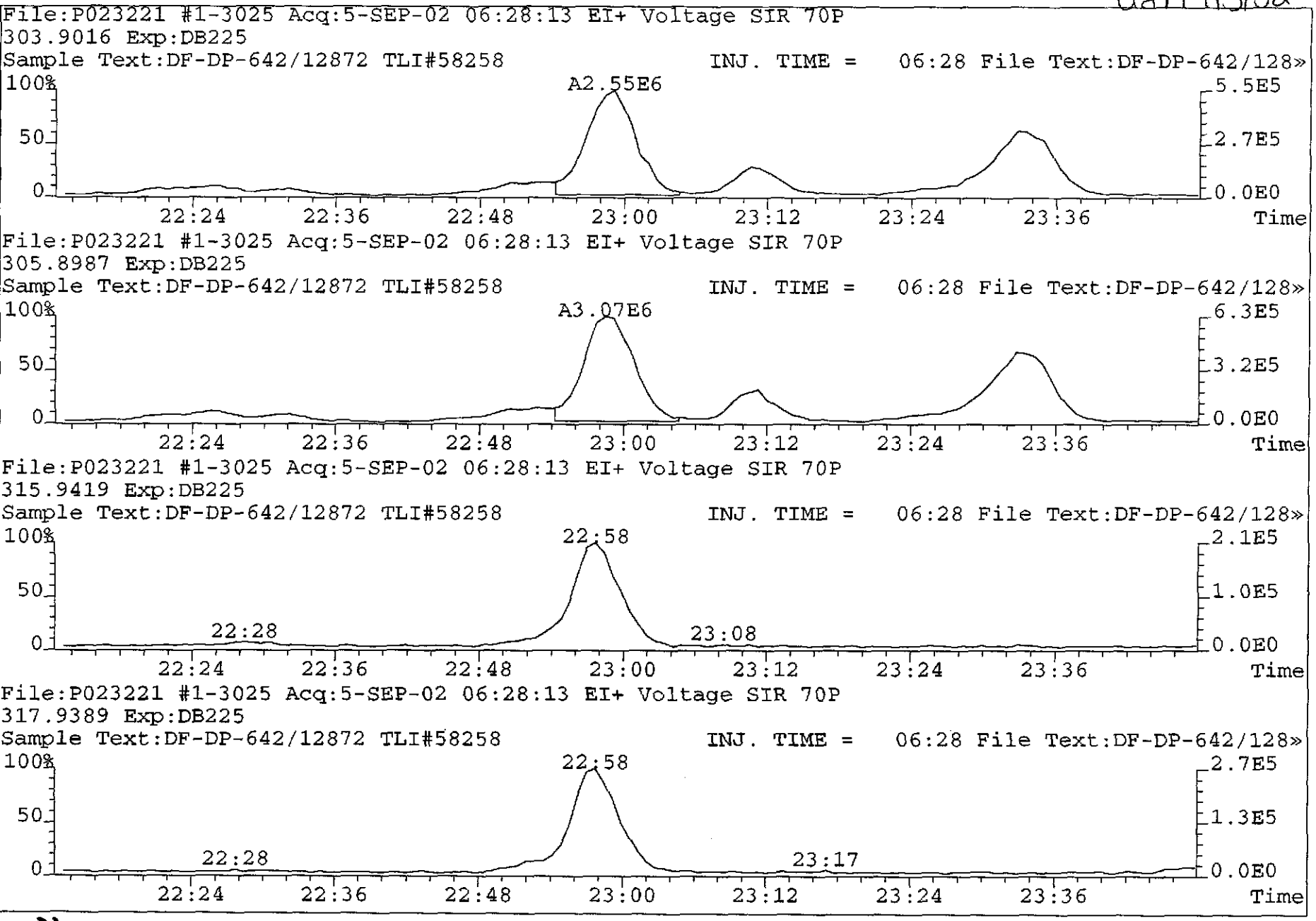
Ref. mass	292.9825	Peak top	
Height	.70 volts	Span	200 ppm

System file name	08225
Data file name	A:P905021
Resolution	10000
Group number	1
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 380.9761

A	292.9825	J	330.9792
B	303.9016	K	331.9368
C	305.8987	L	333.9338
D	315.9419	M	375.8364
E	317.9389		
F	319.8965		
G	321.8936		
H	327.8847		
I	330.9792		

Channel	I	330.9792		Peak top	
Height	.54 volts		Span	200 ppm	

08m9/5/02


File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
303.9016 Exp:DB225
Sample Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28 File Text:DF-DP-642/128»
100%
50
0
A2.55E6
5.5E5
2.7E5
0.0E0
22:24
22:36
22:48
23:00
23:12
23:24
23:36
Time
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
305.8987 Exp:DB225
Sample Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28 File Text:DF-DP-642/128»
100%
50
0
A3.07E6
6.3E5
3.2E5
0.0E0
22:24
22:36
22:48
23:00
23:12
23:24
23:36
Time
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
315.9419 Exp:DB225
Sample Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28 File Text:DF-DP-642/128»
100%
50
0
22:58
22:28
23:08
2.1E5
1.0E5
0.0E0
22:24
22:36
22:48
23:00
23:12
23:24
23:36
Time
File:P023221 #1-3025 Acq:5-SEP-02 06:28:13 EI+ Voltage SIR 70P
317.9389 Exp:DB225
Sample Text:DF-DP-642/12872 TLI#58258
INJ. TIME = 06:28 File Text:DF-DP-642/128»
100%
50
0
22:58
22:28
23:17
2.7E5
1.3E5
0.0E0
22:24
22:36
22:48
23:00
23:12
23:24
23:36
Time

Mississippi Dept. of Env. Quality

TLI Project: **58258** — Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **TLI LCS** — Analysis File: **U131611**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SAND**	Date Received:	/ /	Spike File:	**SPMIT32S**
TLI ID:	**TLI LCS**	Date Extracted:	**08/28/2002**	ICal:	**UF57092**
		Date Analyzed:	**09/04/2002**	ConCal:	**U021315**
Sample Size:	**10.000 g**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	46.5			0.83	26:46	
1,2,3,7,8-PeCDD	226			1.58	31:00	
1,2,3,4,7,8-HxCDD	218			1.25	34:08	
1,2,3,6,7,8-HxCDD	211			1.25	34:13	
1,2,3,7,8,9-HxCDD	230			1.27	34:32	
1,2,3,4,6,7,8-HpCDD	200			1.00	37:28	
1,2,3,4,6,7,8,9-OCDD	319			0.90	41:05	
2,3,7,8-TCDF	46.6			0.74	26:04	
1,2,3,7,8-PeCDF	224			1.56	29:59	
2,3,4,7,8-PeCDF	213			1.56	30:40	
1,2,3,4,7,8-HxCDF	208			1.25	33:26	
1,2,3,6,7,8-HxCDF	210			1.25	33:33	
2,3,4,6,7,8-HxCDF	227			1.27	34:01	
1,2,3,7,8,9-HxCDF	213			1.28	34:48	
1,2,3,4,6,7,8-HpCDF	228			1.05	36:27	
1,2,3,4,7,8,9-HpCDF	214			1.06	37:59	
1,2,3,4,6,7,8,9-OCDF	294			0.91	41:17	

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	130	64.9	40%-135%	0.80	26:03	
$^{13}C_{12}$-2,3,7,8-TCDD	131	65.7	40%-135%	0.87	26:45	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	178	88.9	40%-135%	1.60	29:58	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	194	96.9	40%-135%	1.69	31:00	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	176	87.9	40%-135%	0.51	33:32	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	159	79.7	40%-135%	1.37	34:12	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	143	71.4	40%-135%	0.47	36:26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	144	72.2	40%-135%	1.06	37:28	
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	341	85.3	40%-135%	0.91	41:04	

MIT3_PSR v1.00, LARS 6.25.05

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2445 S. Alston Ave. • Durham, North Carolina 27713
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Printed: 17:28 09/05/2002

Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **TLI LCS** Analysis File: **U131611**

Surrogate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	164	81.8	40%-135%	1.57	30:40	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	170	84.8	40%-135%	0.51	33:26	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	179	89.5	40%-135%	1.38	34:07	___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	143	71.5	40%-135%	0.45	37:58	___

Other Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	12.3	61.5	40%-135%	26:46	___

Alternate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	180	90.2	40%-135%	0.50	34:47	___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	192	96.2	40%-135%	0.52	34:00	___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.85	26:33	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.43	34:31	___

Data Reviewer: _____ 09/05/2002

MIT3_PSR v1.00, LARS 6.25.05

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Printed: 17:28 09/05/2002

Initial ....Date...

Data Review By: [signature] 9/8/02

Channel specific noise levels computed from 'NL' heights.

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of U131611B.dbf
09/05/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF						0.65-0.89				0.874-1.073			
304-306	DC	NL				Height	9.71	5.05	4.66				
				25:02		0.76	112.78	48.59	64.19	0.961			
				25:39	RO	0.62	69.81	30.37	49.32	0.985	1278-TCDF	AN	
				26:04		0.74	2,329.87	987.31	1,342.56	1.001	2378-TCDF	AN	
	DC	SN		27:07	RO	0.50	36.69			1.041			
				27:26	RO	0.95	54.07	23.52	24.83	1.053			
	DC	SN		27:39	RO	2.38	18.18			1.061			
	DC	SN		27:48	RO	1.71	23.45			1.067			
304-306			4	Peaks			2,566.53						
13C12-TCDF						0.65-0.89				0.962-1.038			
316-318	DC	NL				Height	8.09	4.96	3.13				
	DC	WL		25:00	RO	1.21	117.40			0.960			
	DC	SN		25:19		0.74	54.68			0.972			
				25:39	RO	0.96	127.42	55.43	57.94	0.985			
				26:03		0.80	8,857.86	3,927.01	4,930.85	1.000	13C12-2378-TCDF	ISO	
						Height	2,123.66	937.73	1,185.93				
	DC	WH		28:00	RO	2.35	158.73			1.075			
316-318			2	Peaks			8,985.28						
---------- Above: TCDF / TCDD Follows ----------													
TCDD						0.65-0.89				0.900-1.044			
320-322	DC	NL				Height	4.49	2.08	2.41				
	DC	SN		24:52		0.75	25.64			0.930			
				26:46		0.83	1,734.60	789.08	945.52	1.001	2378-TCDD	AN	
				27:06	RO	1.07	27.17	16.44	15.35	1.013			J
	DC	SN		27:17	RO	1.93	10.44			1.020			
	DC	SN		27:27	RO	2.47	4.48			1.026			
	DC	SN		27:52	RO	0.16	10.07			1.042			
320-322			2	Peaks			1,761.77						
37Cl-TCDD										0.925-1.075			
328	DC	NL				Height	3.22	3.22					
				25:24			27.62	27.62		0.950			
	DC	SN		26:36			12.04			0.994			
				26:46			629.16	629.16		1.001	37Cl-TCDD	CLS	
	DC	SN		27:17			14.76			1.020			
	DC	SN		27:25			13.04			1.025			
	DC	SN		27:39			10.85			1.034			
				28:04			103.25	103.25		1.049			
328			3	Peaks			760.03						

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-TCDD						0.65-0.89				0.925-1.075			
332-334	DC	NL				Height	19.26	14.28	4.98				
M				26:33		0.85	8,520.00	3,910.00	4,610.00	0.993	13C12-1234-TCDD	RS1	
M				26:45		0.87	6,320.00	2,940.00	3,380.00	1.000	13C12-2378-TCDD	IS1	
						Height	1,589.91	734.22	855.69				
332-334			2	Peaks			14,840.00						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78				0.928-1.062			
340-342	DC	NL				Height	3.91	2.04	1.87				
				29:07		1.33	158.55	90.61	67.94	0.972			J
				29:37		1.66	99.65	62.25	37.40	0.988			J
				29:59		1.56	11,907.24	7,261.86	4,645.38	1.001	12378-PeCDF	AN	
				30:16		1.60	155.48	95.63	59.85	1.010			J
				30:40		1.56	11,099.35	6,764.11	4,335.24	1.023	23478-PeCDF	AN	
				30:59		1.70	55.67	35.05	20.62	1.034			J
				31:11	RO	2.27	38.33	34.14	15.03	1.041			J
				31:38	RO	2.73	33.74	36.15	13.23	1.056			J
340-342			8	Peaks			23,548.01						
13C12-PeCDF						1.32-1.78				0.867-1.133			
352-354	DC	NL				Height	4.35	2.75	1.60				
				27:53	RO	2.98	21.98	25.70	8.62	0.930			
				29:06	RO	1.26	155.93	77.34	61.15	0.971			
				29:25		1.67	22.11	13.83	8.28	0.982			
				29:36	RO	1.19	99.04	46.35	38.84	0.988			
				29:58		1.60	8,450.55	5,200.19	3,250.36	1.000	13C12-PeCDF 123	IS2	
						Height	2,460.47	1,501.58	958.89				
				30:15	RO	1.02	168.35	67.33	66.02	1.009			
				30:40		1.57	7,803.74	4,765.26	3,038.48	1.023	13C12-PeCDF 234	SUR1	
				31:00	RO	1.10	94.32	40.66	36.99	1.034			
				31:38		1.57	126.86	77.54	49.32	1.056			
352-354			9	Peaks			16,942.88						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD						1.32-1.78				0.938-1.022			
356-358	DC	NL				Height	3.49	1.71	1.78				
	DC	SN		29:43	RO	0.70	8.65			0.959			
				30:05	RO	0.78	18.79	11.42	14.56	0.970			J
	DC	SN		30:39		1.33	20.64			0.989			
				31:00		1.58	6,987.37	4,283.21	2,704.16	1.000	12378-PeCDD	AN	
				31:28	RO	1.22	59.90	28.74	23.49	1.015			J
				31:37	RO	0.85	12.29	7.47	8.81	1.020			J
	DC	WH		31:54		1.51	9.85			1.029			
356-358			4	Peaks			7,078.35						
13C12-PeCDD						1.32-1.78				0.871-1.129			
368-370	DC	NL				Height	12.65	10.68	1.97				
				28:56	RO	11.17	59.54	260.76	23.35	0.933			
				29:24	RO	22.75	28.92	257.95	11.34	0.948			

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				29:46	RO	16.56	37.08	240.82	14.54	0.960			
				30:04	RO	7.66	128.21	385.24	50.28	0.970			
				30:35	RO	18.13	35.01	248.91	13.73	0.987			
				31:00		1.69	5,488.64	3,445.66	2,042.98	1.000	13C12-PeCDD 123	IS3	
						Height	1,516.61	937.56	579.05				
				31:34	RO	19.53	25.58	195.84	10.03	1.018			
368-370			7	Peaks			5,802.98						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.964-1.045			
374-376	DC	NL				Height	7.30	3.48	3.82				
				32:36		1.25	58.01	32.25	25.76	0.972			J
				33:26		1.25	7,348.59	4,078.40	3,270.19	0.997	123478-HxCDF	AN	
				33:33		1.25	7,773.23	4,312.70	3,460.53	1.000	123678-HxCDF	AN	
	DC	SN		33:49	RO	0.41	13.82			1.008			
				34:01		1.27	7,321.71	4,101.90	3,219.81	1.014	234678-HxCDF	AN	
				34:48		1.28	5,677.73	3,184.63	2,493.10	1.038	123789-HxCDF	AN	
374-376			5	Peaks			28,179.27						
13C12-HxCDF						0.43-0.59				0.881-1.119			
384-386	DC	NL				Height	14.43	8.07	6.36				
	DC	SN		32:36		0.54	43.01			0.972			
				33:26		0.51	5,974.82	2,024.91	3,949.91	0.997	13C12-HxCDF 478	SUR2	
				33:32		0.51	6,177.67	2,089.26	4,088.41	1.000	13C12-HxCDF 678	IS4	
						Height	1,962.84	658.70	1,304.14				
				34:00		0.52	6,219.23	2,135.62	4,083.61	1.014	13C12-HxCDF 234	ALT2	
				34:47		0.50	4,635.15	1,543.50	3,091.65	1.037	13C12-HxCDF 789	ALT1	
384-386			4	Peaks			23,006.87						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43				0.959-1.013			
390-392	DC	NL				Height	5.84	2.85	2.99				
				34:08		1.25	4,648.43	2,585.84	2,062.59	0.998	123478-HxCDD	AN	
				34:13		1.25	4,595.71	2,551.48	2,044.23	1.000	123678-HxCDD	AN	
				34:32		1.27	4,869.12	2,724.63	2,144.49	1.010	123789-HxCDD	AN	
390-392			3	Peaks			14,113.26						
13C12-HxCDD						1.05-1.43				0.971-1.029			
402-404	DC	NL				Height	62.88	56.02	6.86				
	DC	WL		32:47	RO	5.61	170.67			0.959			
	DC	SN		33:36	RO	3.73	127.32			0.982			
M				34:07		1.38	4,000.00	2,320.00	1,680.00	0.998	13C12-HxCDD 478	SUR3	
M				34:12		1.37	3,940.00	2,280.00	1,660.00	1.000	13C12-HxCDD 678	IS5	
						Height	1,170.02	662.93	507.09				
				34:31		1.43	4,757.29	2,795.88	1,961.41	1.009	13C12-HxCDD 789	RS2	
	DC	SN		34:42	RO	4.45	65.99			1.015			
				34:59	RO	5.94	178.48	473.22	79.68	1.023			
402-404			4	Peaks			12,875.77						

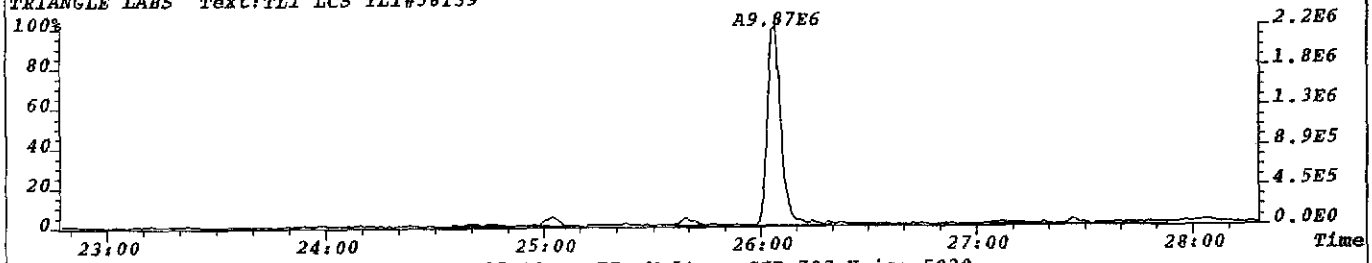
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.88-1.20				0.996-1.047			
408-410	DC	NL				Height	4.77	2.57	2.20				
				36:27		1.05	5,879.35	3,015.97	2,863.38	1.000	1234678-HpCDF	AN	
				36:52	RO	0.70	24.74	12.61	18.00	1.012			J
	DC	SN		37:06	RO	1.26	7.06			1.018			
				37:59		1.06	3,911.14	2,016.72	1,894.42	1.043	1234789-HpCDF	AN	
408-410			3	Peaks			9,815.23						
13C12-HpCDF						0.37-0.51				0.945-1.110			
418-420	DC	NL				Height	8.04	4.13	3.91				
				36:26		0.47	3,566.04	1,143.26	2,422.78	1.000	13C12-HpCDF 678	IS6	
						Height	1,020.66	326.97	693.69				
				37:58		0.45	2,512.30	779.59	1,732.71	1.042	13C12-HpCDF 789	SUR4	
418-420			2	Peaks			6,078.34						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.976-1.005			
424-426	DC	NL				Height	4.05	2.21	1.84				
	DC	SN		36:44		0.92	14.16			0.980			
				37:28		1.00	2,814.63	1,407.06	1,407.57	1.000	1234678-HpCDD	AN	
	DC	WH		37:46	RO	0.38	8.34			1.008			
424-426			1	Peak			2,814.63						
13C12-HpCDD						0.88-1.20				0.973-1.027			
436-438	DC	NL				Height	54.17	44.67	9.50				
M				37:28		1.06	2,780.00	1,430.00	1,350.00	1.000	13C12-HpCDD 678	IS7	
						Height	724.28	375.97	348.31				
436-438			1	Peak			2,780.00						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.903-1.097			
442-444	DC	NL				Height	4.53	2.18	2.35				
	DC	WL		36:39	RO	1.16	9.58			0.892			
				41:17		0.91	4,868.42	2,319.67	2,548.75	1.005	OCDF	AN	
	DC	SN		41:54	RO	0.60	8.39			1.020			
442-444			1	Peak			4,868.42						
OCDD						0.76-1.02				0.903-1.097			
458-460	DC	NL				Height	3.57	1.67	1.90				
				41:05		0.90	3,919.38	1,860.93	2,058.45	1.000	OCDD	AN	
458-460			1	Peak			3,919.38						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	110.93	76.61	34.32				
M				41:04		0.91	4,440.00	2,120.00	2,320.00	1.000	13C12-OCDD	IS8	
						Height	896.01	426.93	469.08				
470-472			1	Peak			4,440.00						

Compound/
M_Z.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name.. ID.. Flags.

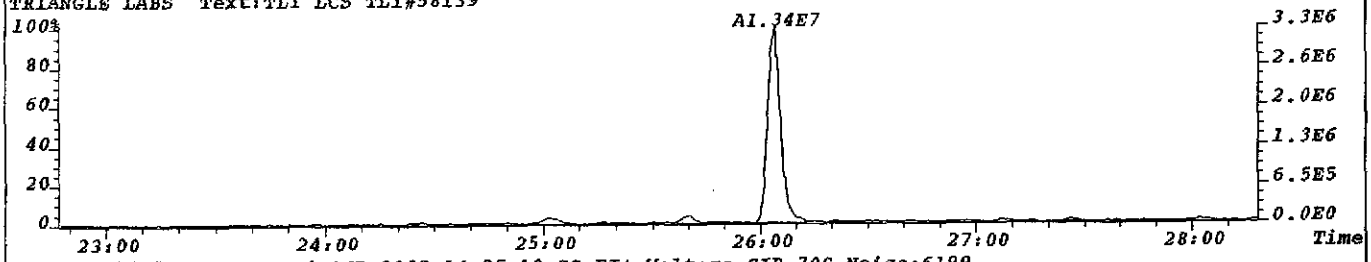
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

*** End of Report ***

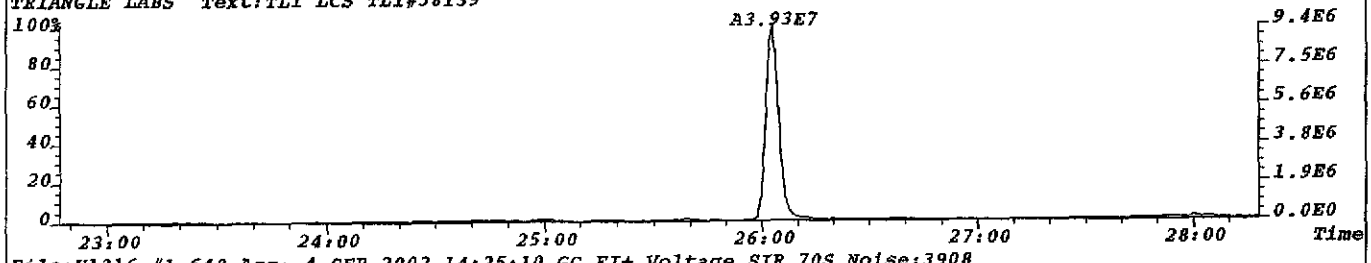
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:6309
303.9016 S:11 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,25236.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



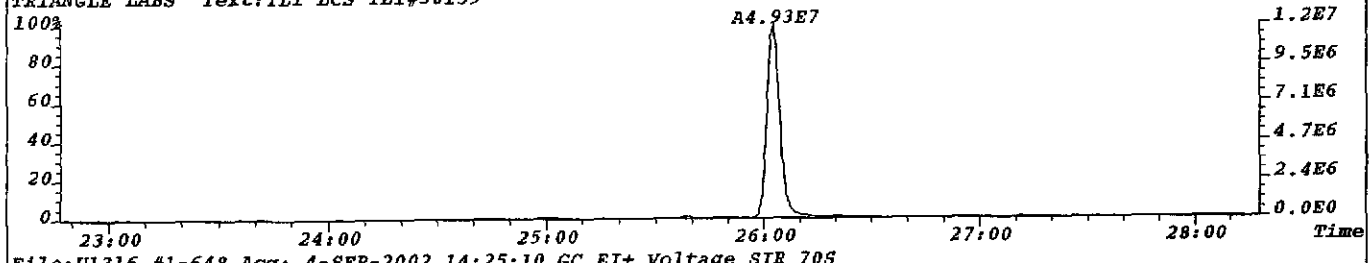
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:5820
305.8987 S:11 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,23280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



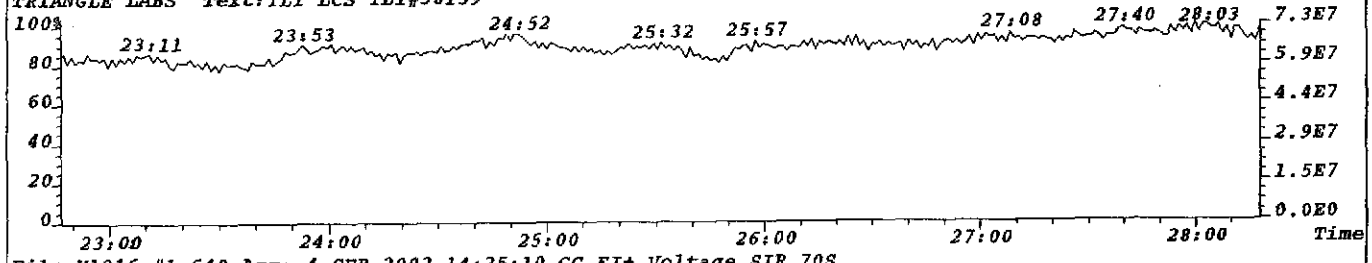
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:6199
315.9419 S:11 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,24796.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



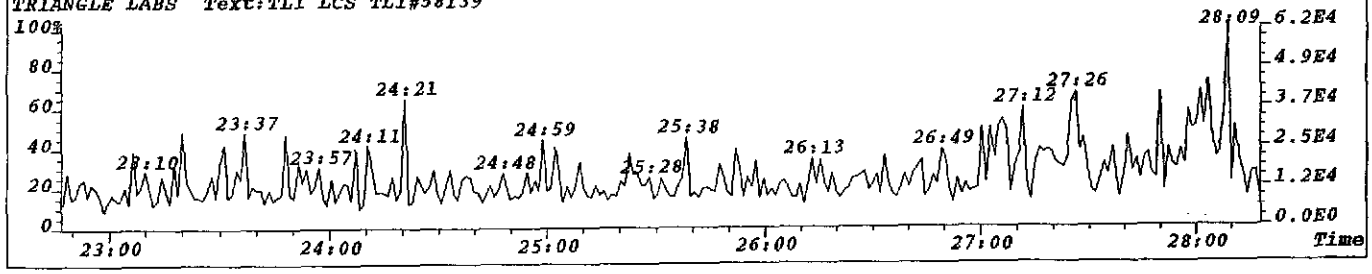
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:3908
317.9389 S:11 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,15632.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



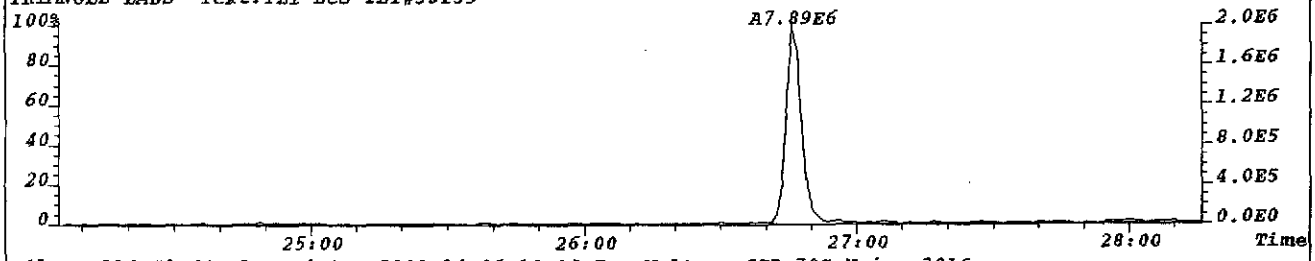
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
330.9792 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



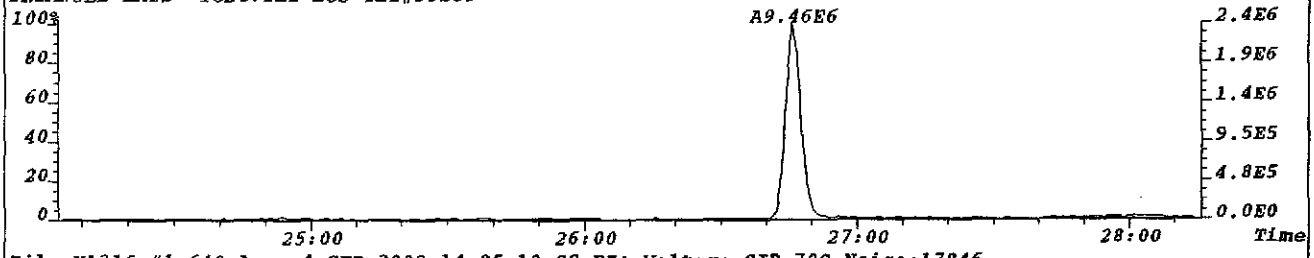
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
375.8364 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



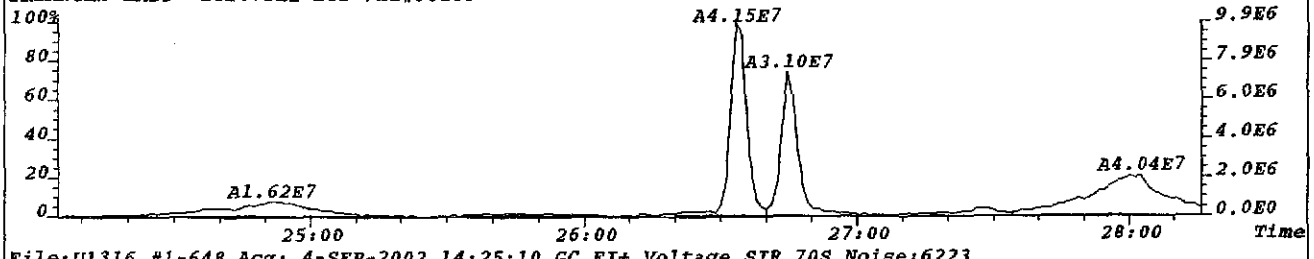
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2605
319.8965 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10420.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



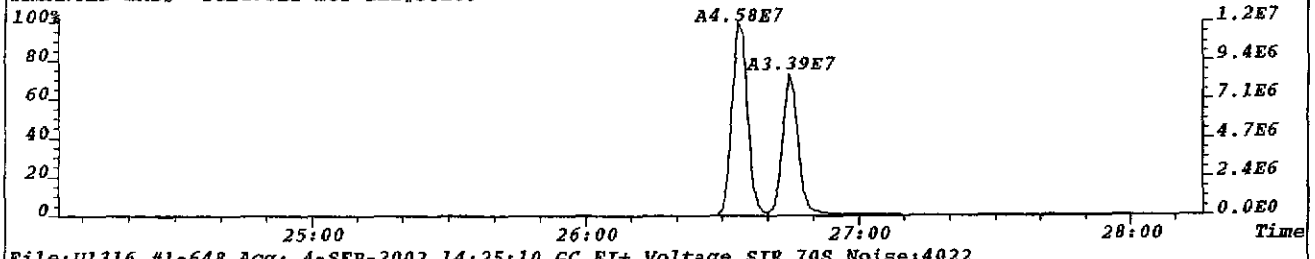
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:3016
321.8936 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12064.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



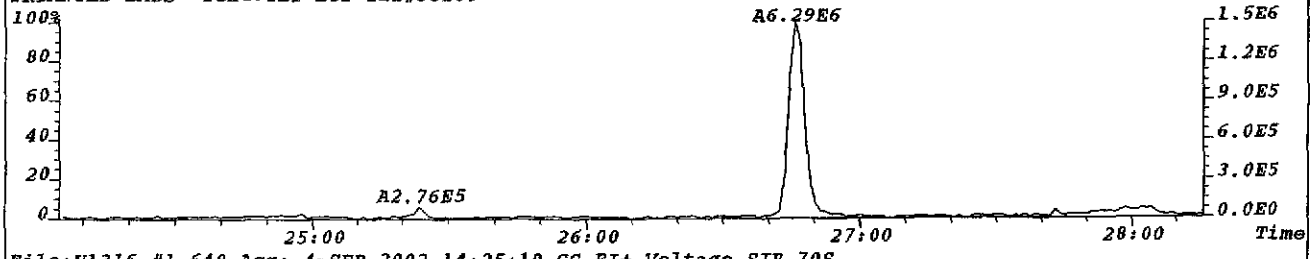
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:17846
331.9368 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,71384.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



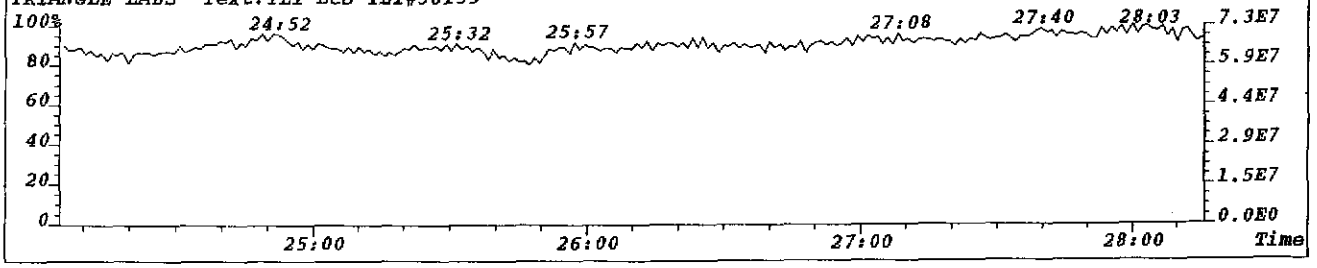
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:6223
333.9338 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,24892.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



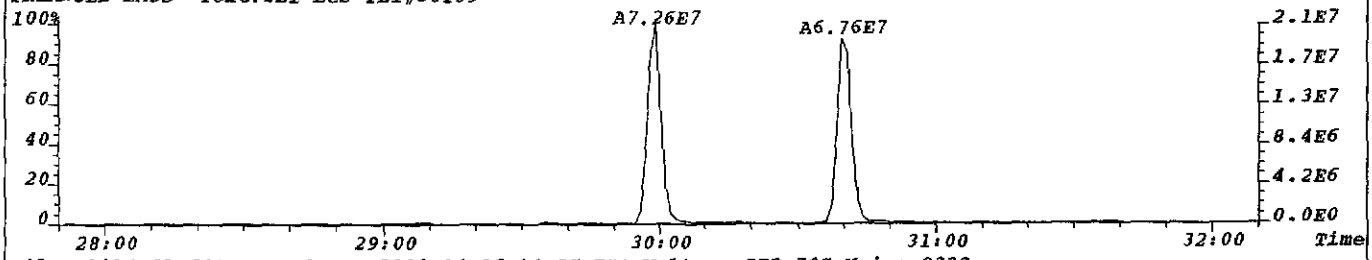
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:4022
327.8847 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,16088.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



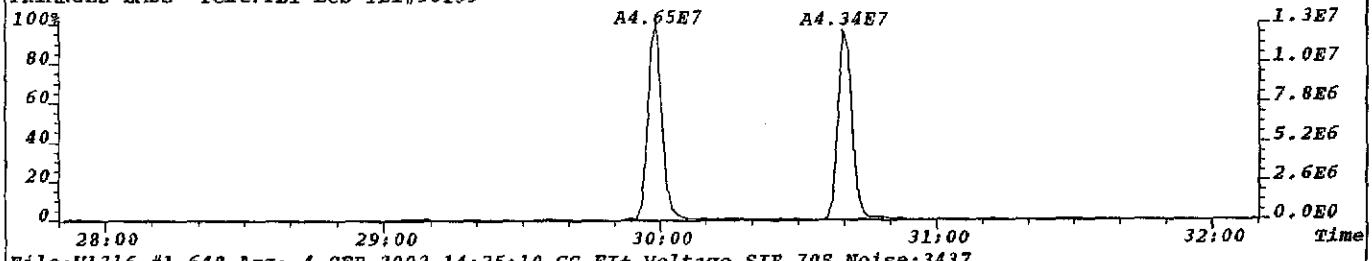
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
330.9792 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



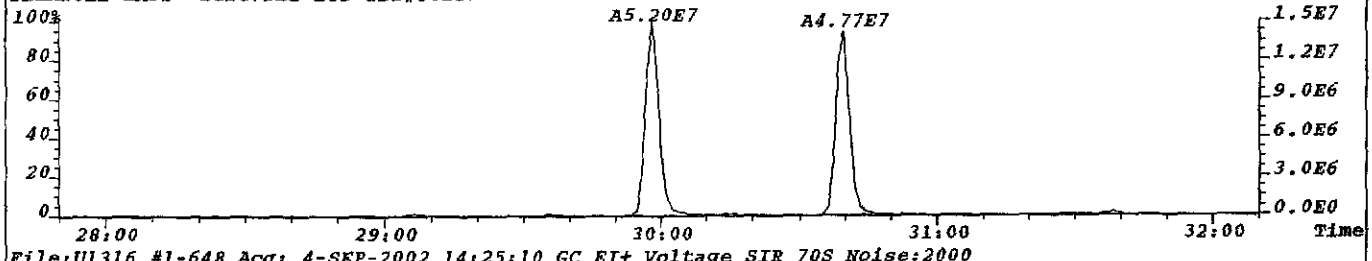
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2555
339.8597 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10220.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



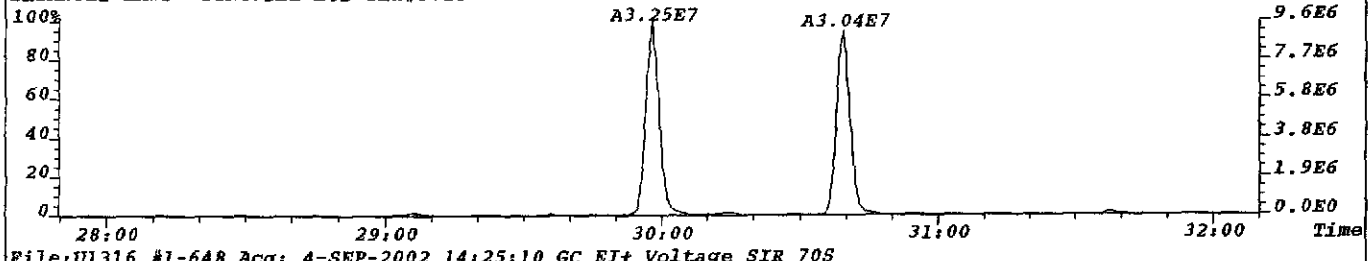
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2332
341.8567 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



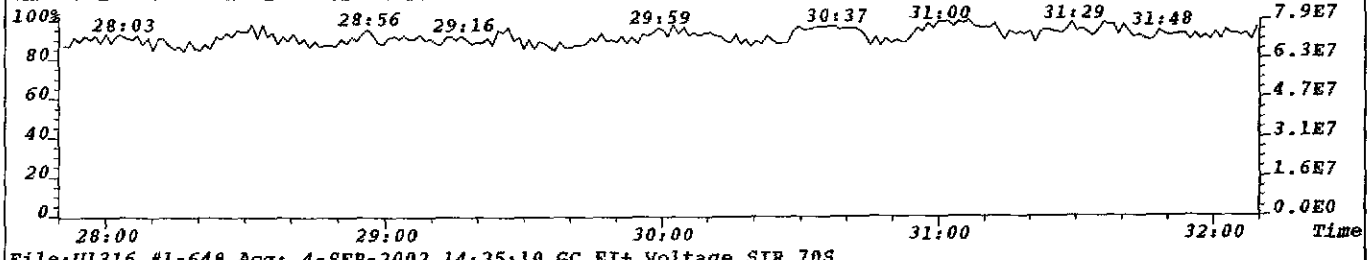
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:3437
351.9000 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13748.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



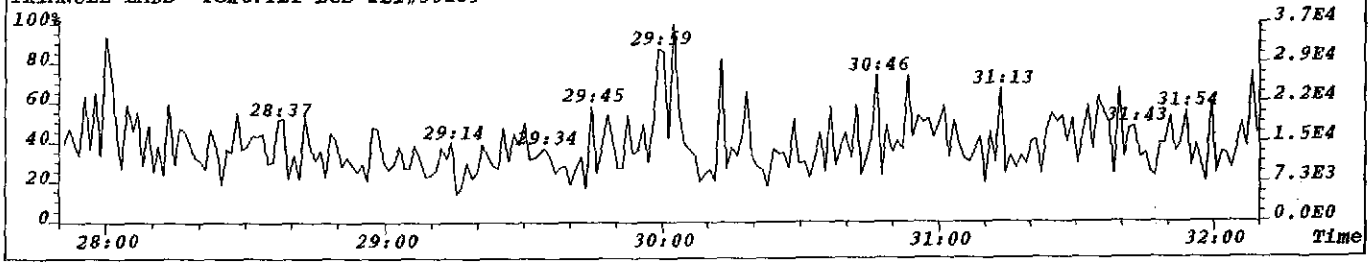
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2000
353.8970 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8000.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



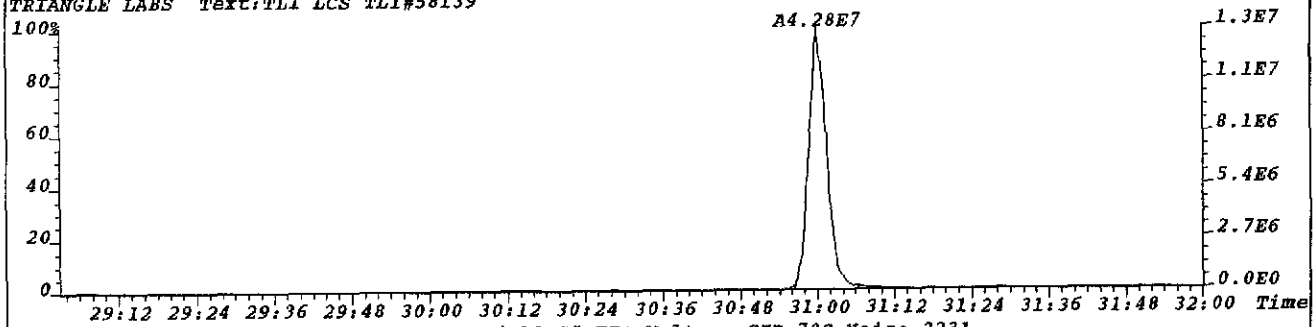
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
330.9792 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



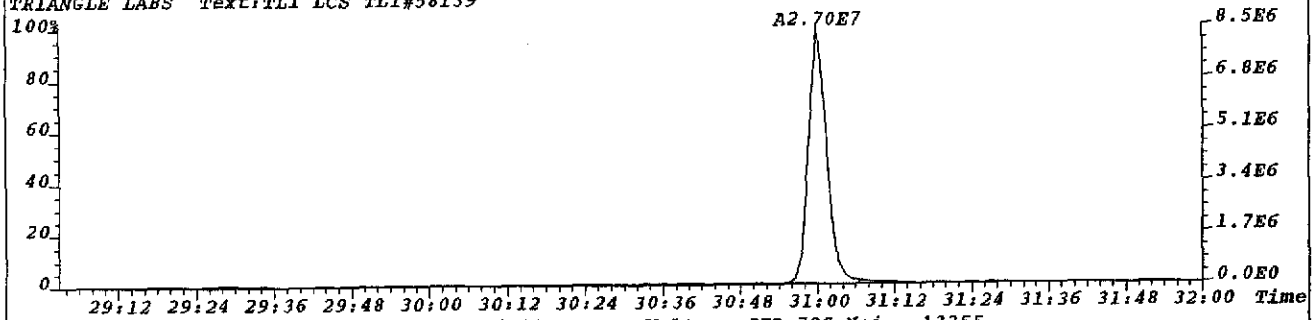
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
409.7974 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



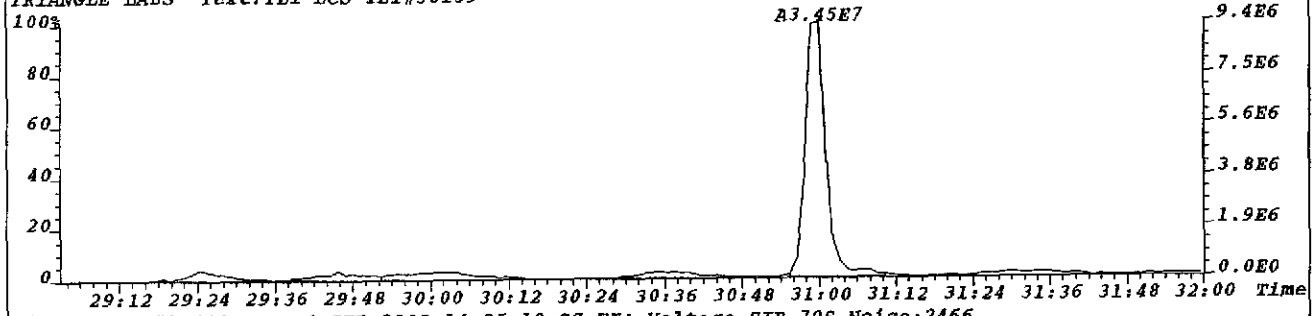
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2143
355.8546 S:11 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,8572.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



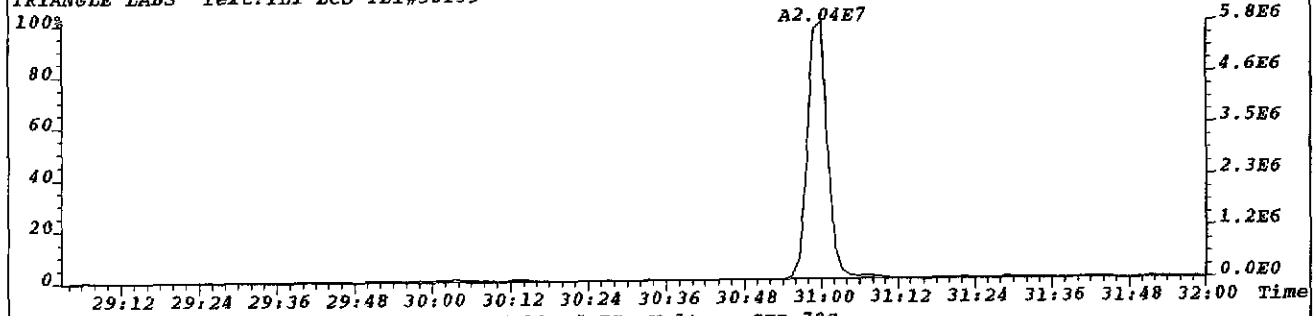
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2231
357.8516 S:11 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,8924.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



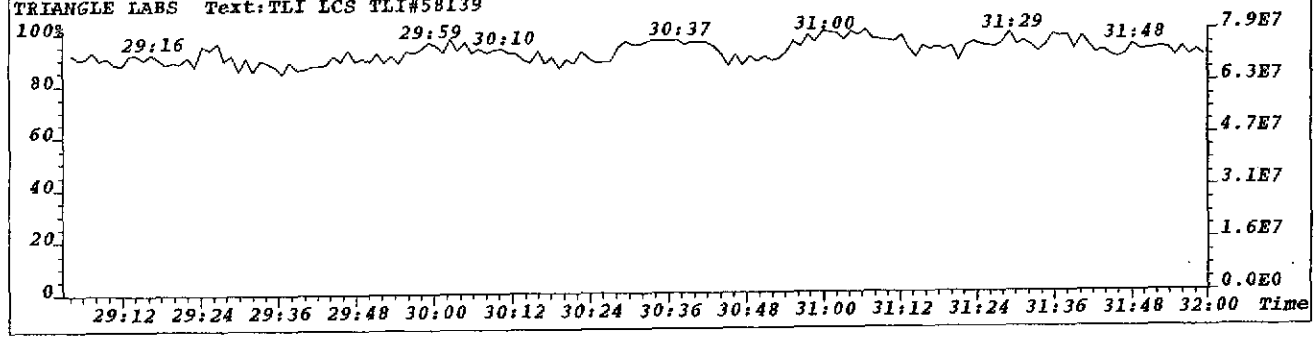
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:13355
367.8949 S:11 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,53420.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



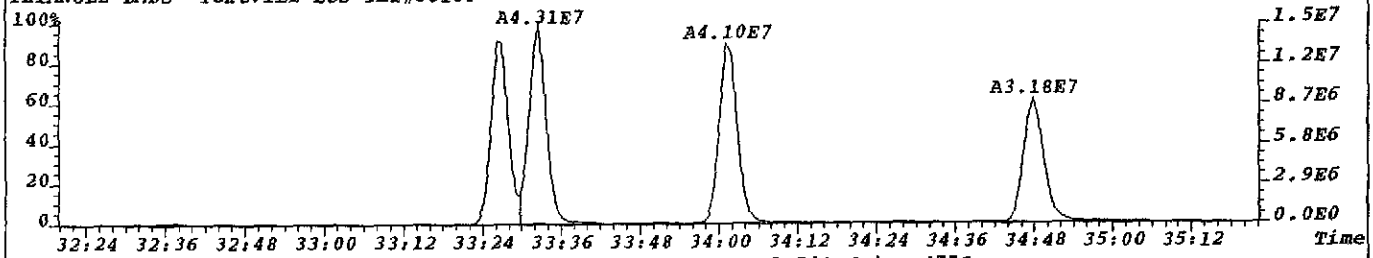
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2466
369.8919 S:11 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,9864.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



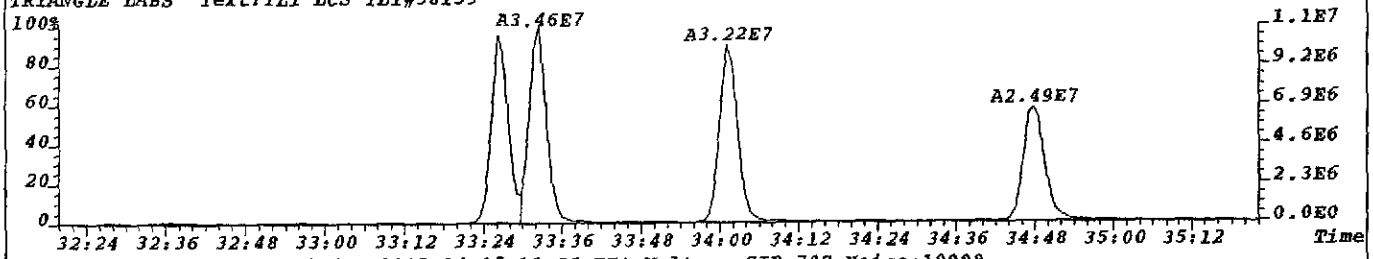
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
330.9792 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



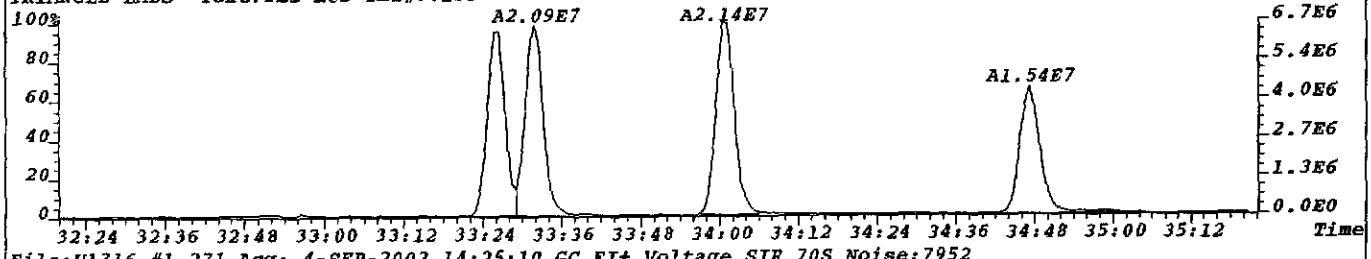
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:4353
373.8208 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,17412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



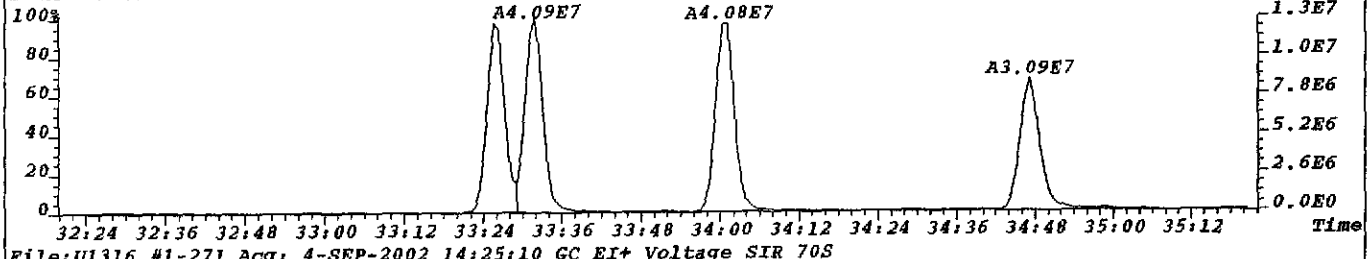
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:4776
375.8178 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,19104.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



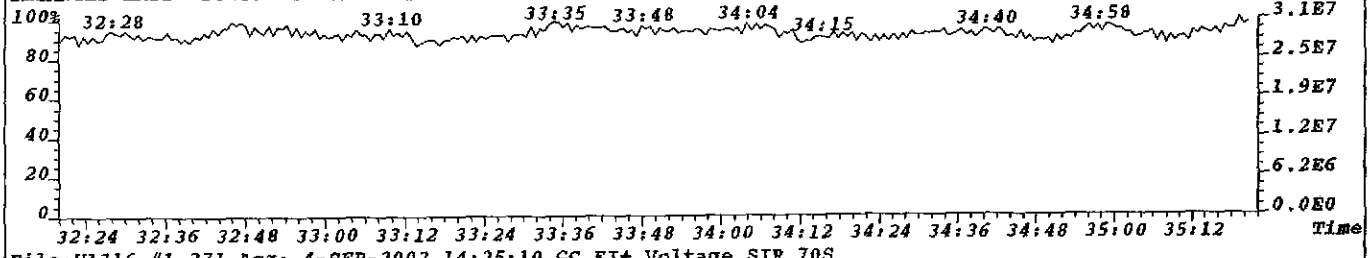
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:10088
383.8639 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,40352.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



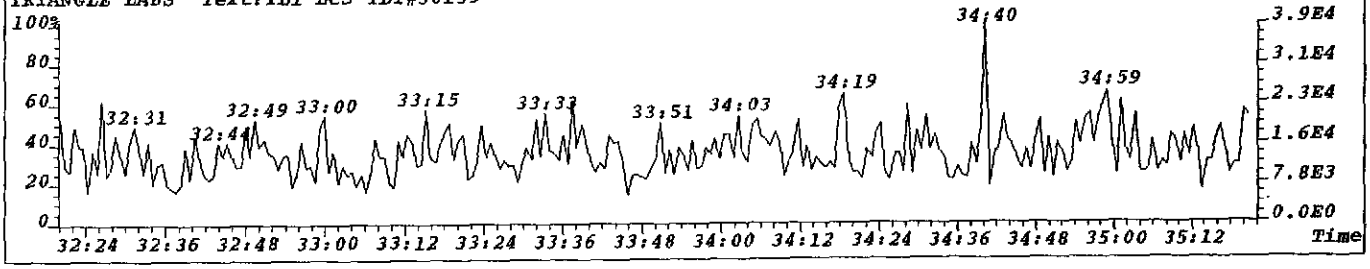
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:7952
385.8610 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,31808.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



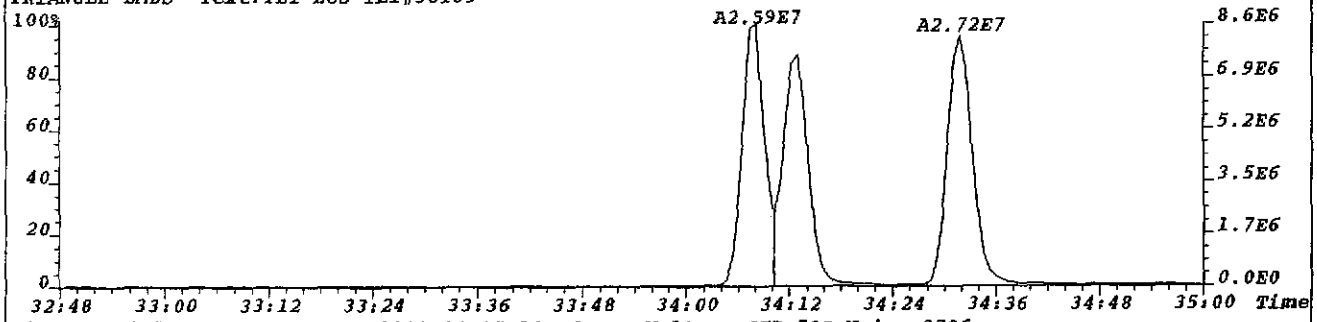
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
392.9760 S:11 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



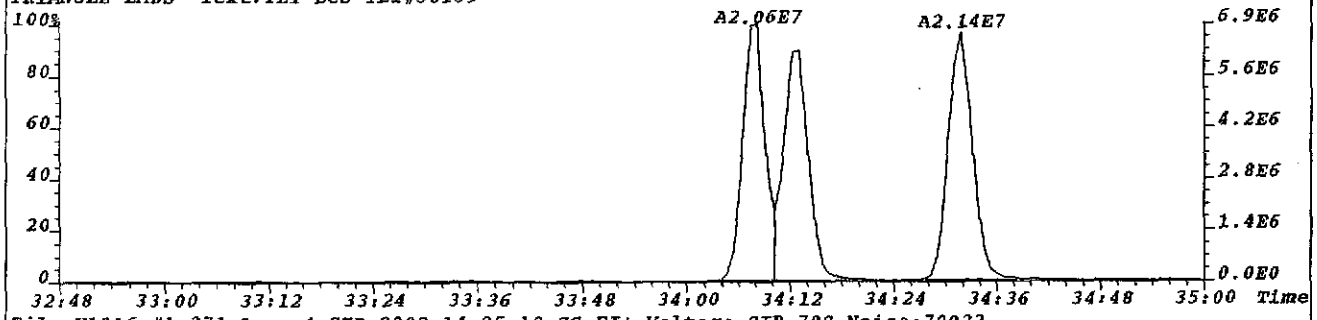
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
445.7555 S:11 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



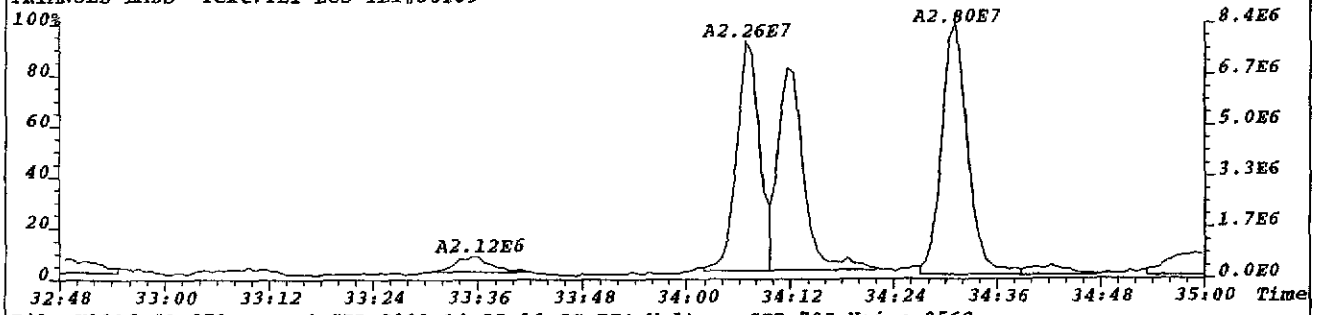
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:3564
389.8156 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,14256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



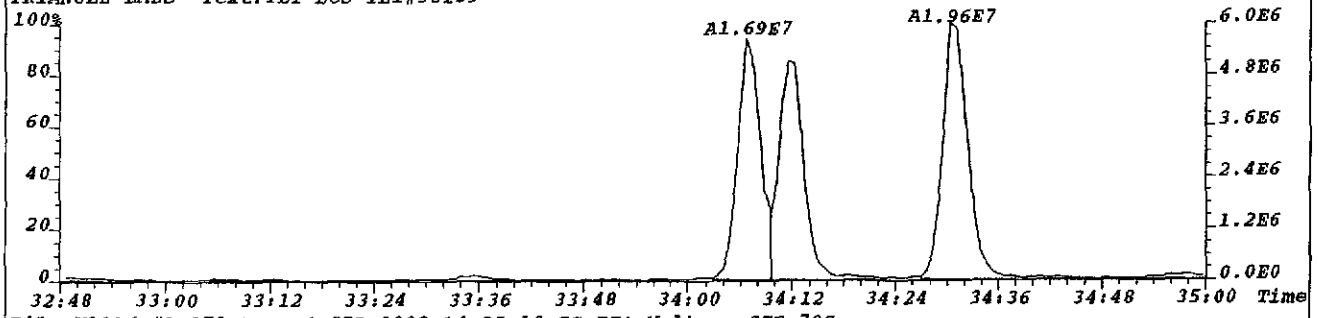
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:3736
391.8127 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,14944.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



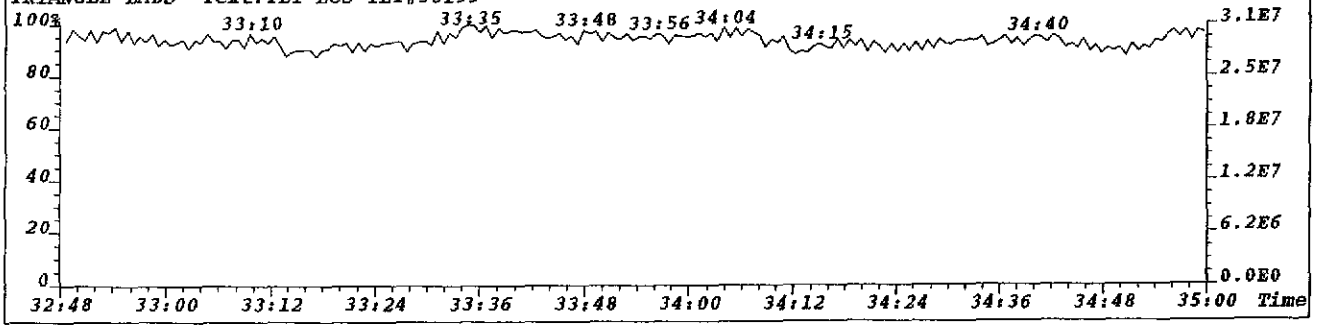
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:70022
401.8558 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,280088.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



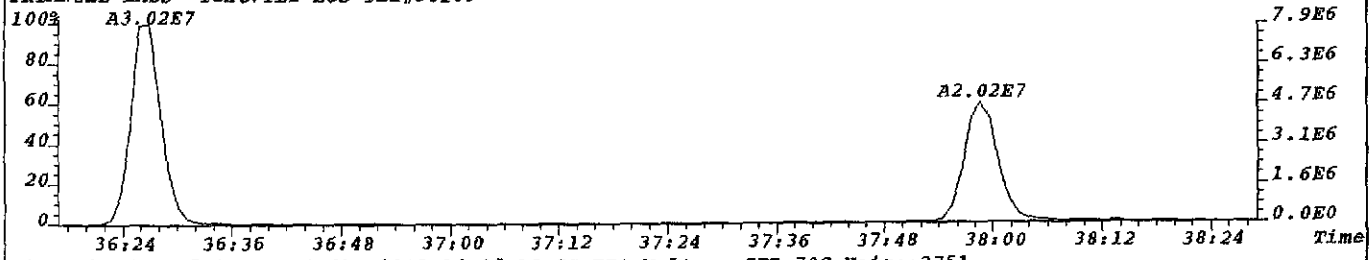
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:8569
403.8529 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,34276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



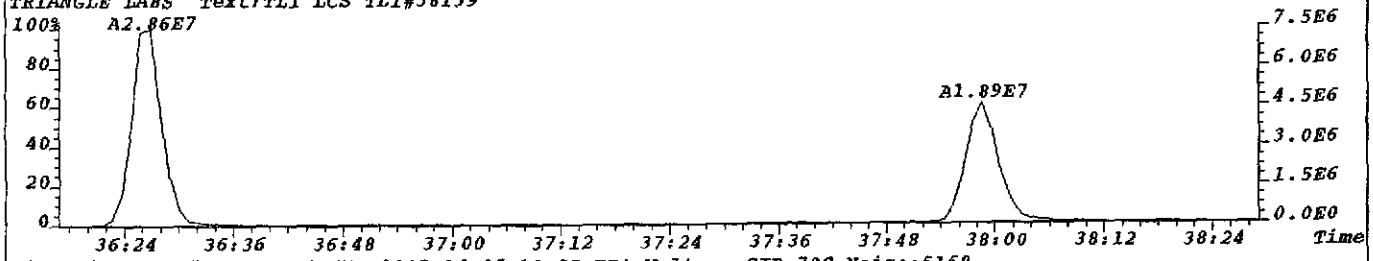
File:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
392.9760 S:11 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



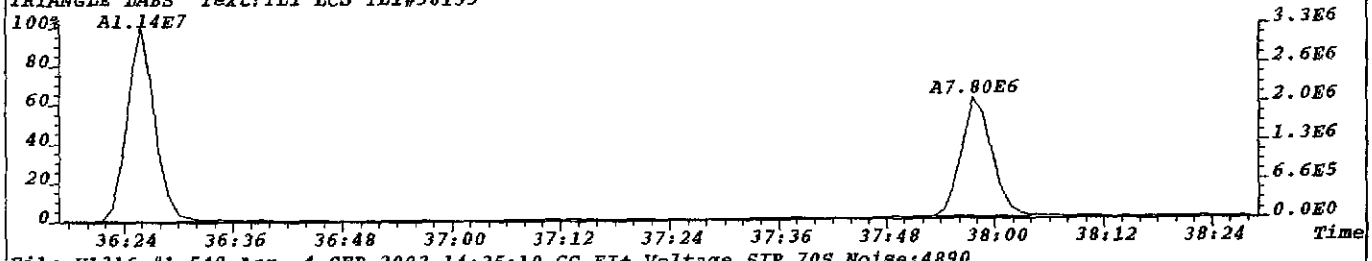
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:3218
407.7818 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12872.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



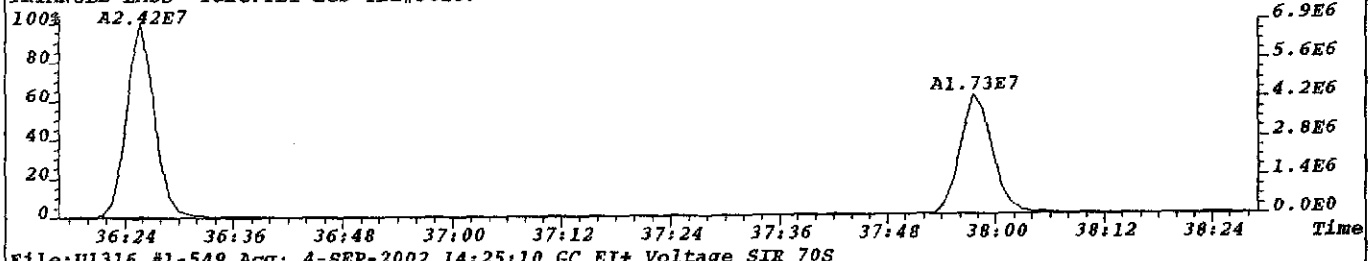
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2751
409.7789 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11004.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



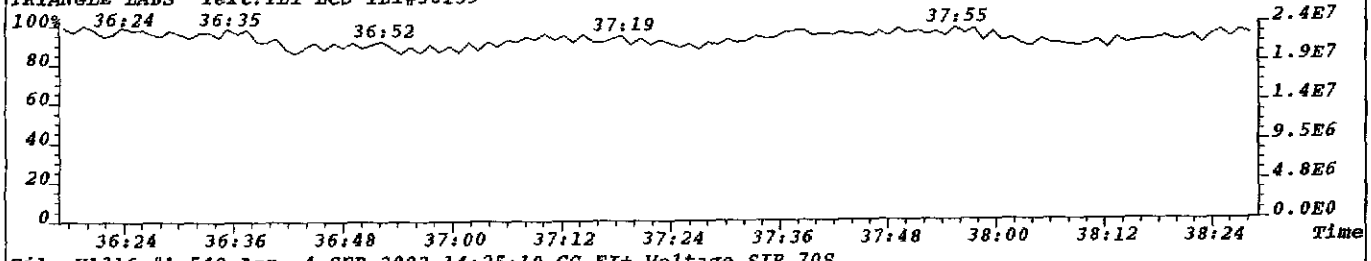
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:5168
417.8253 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,20672.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



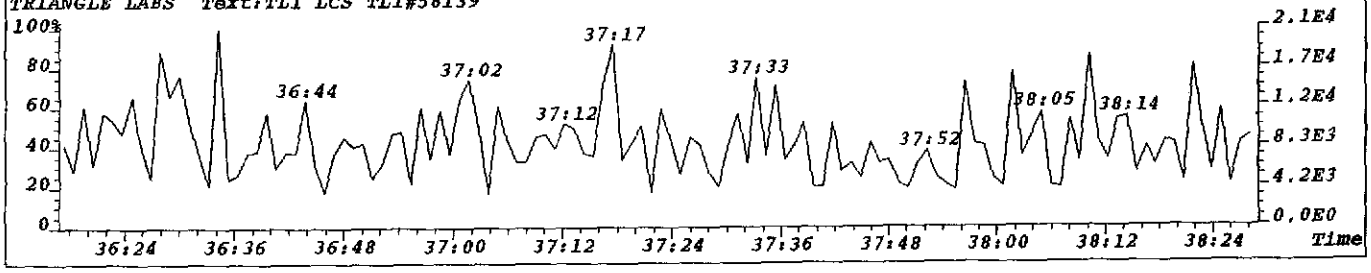
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:4890
419.8220 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,19560.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



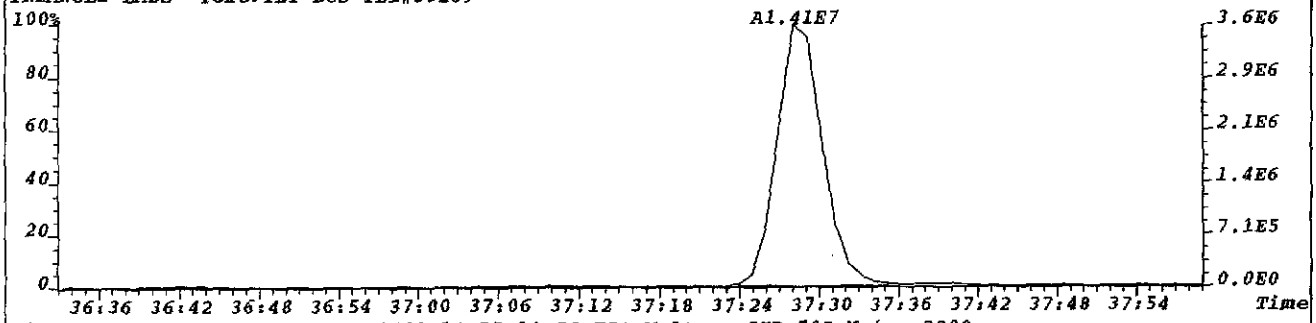
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
430.9729 S:11 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



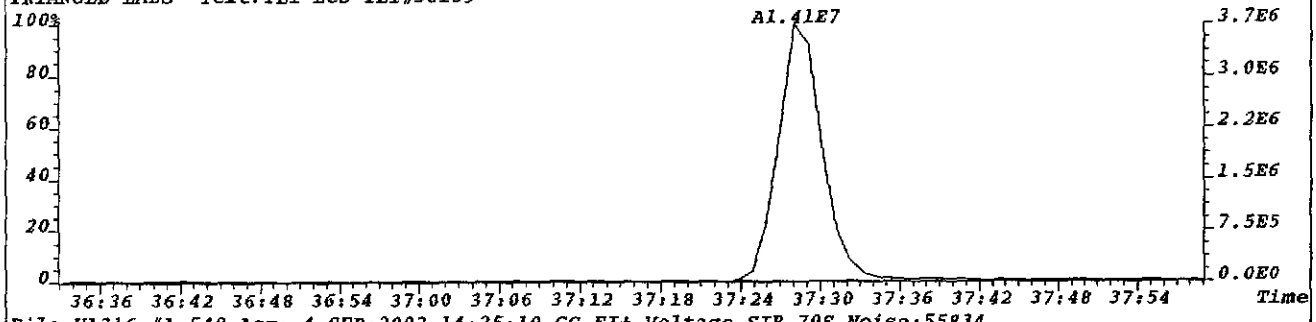
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
479.7165 S:11 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



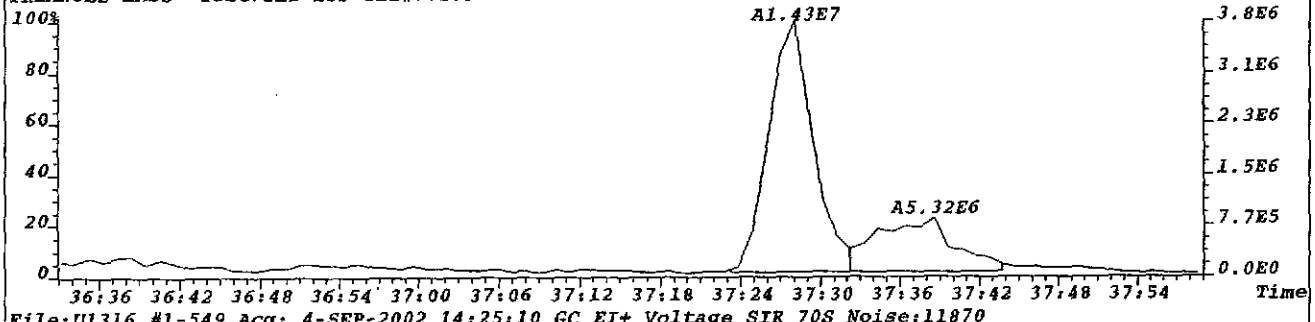
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2766
423.7766 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11064.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



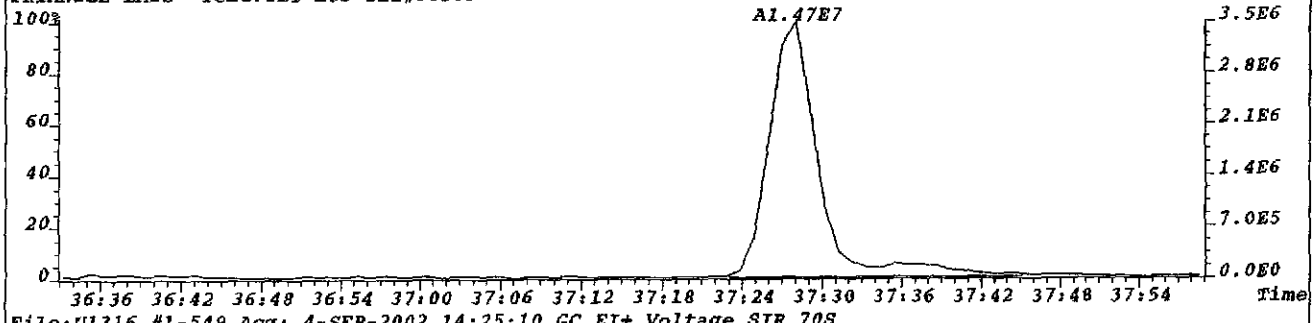
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2300
425.7737 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



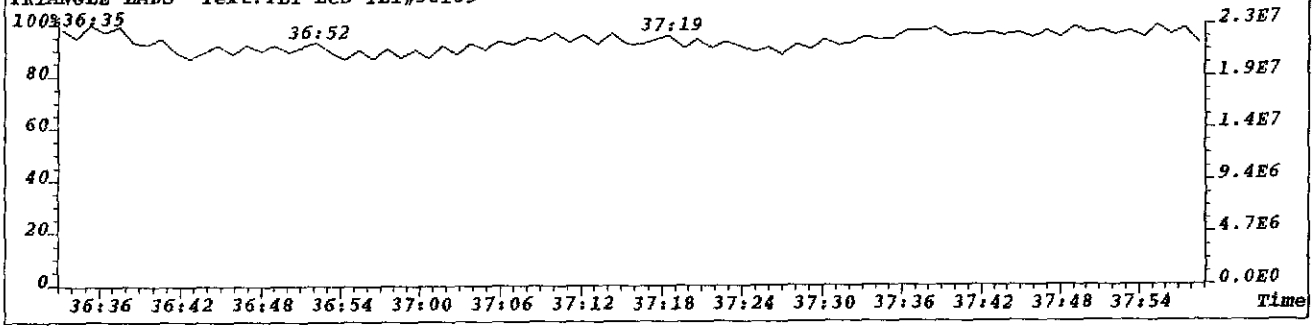
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:55834
435.8169 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,223336.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



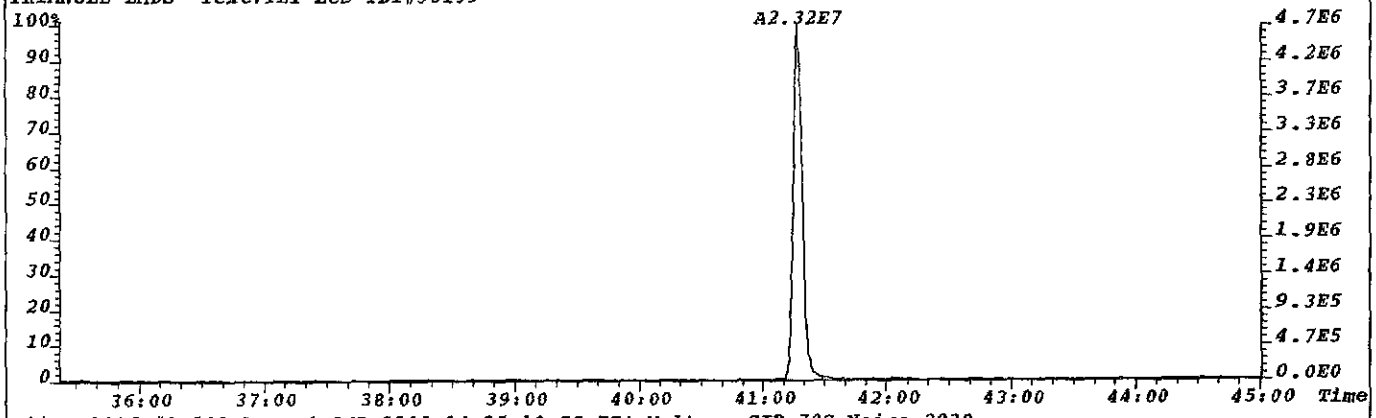
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:11870
437.8140 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,47480.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



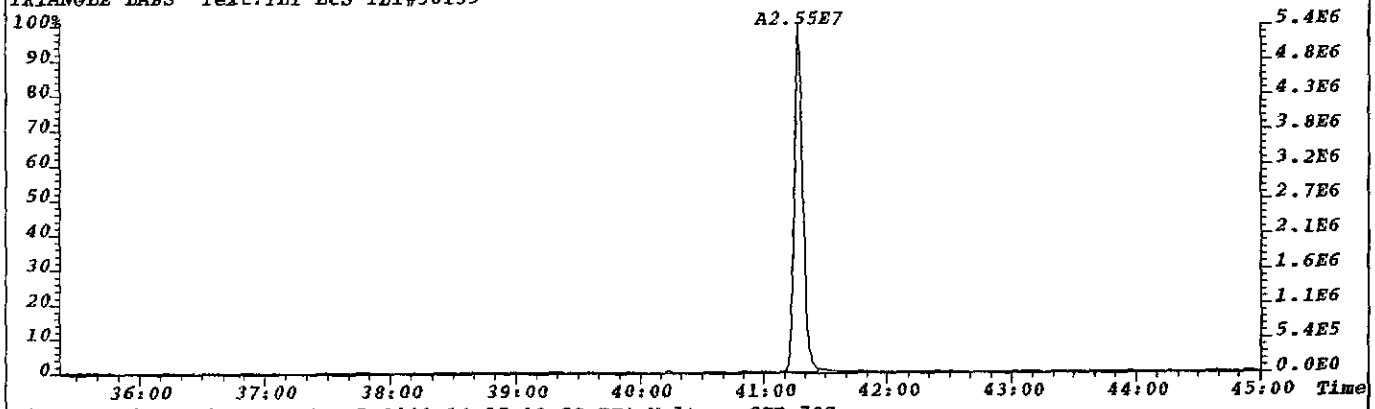
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
430.9729 S:11 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



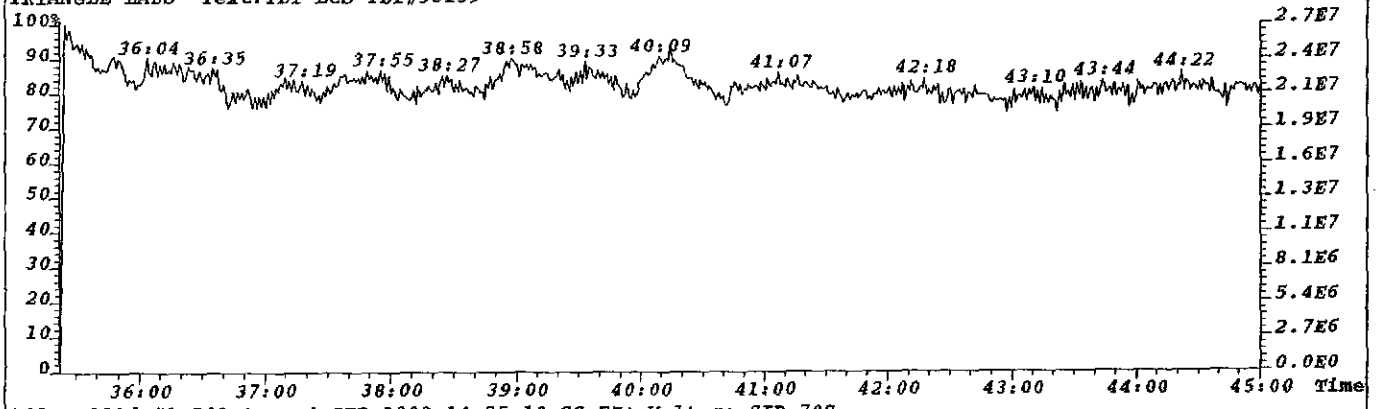
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2727
441.7428 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10908.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



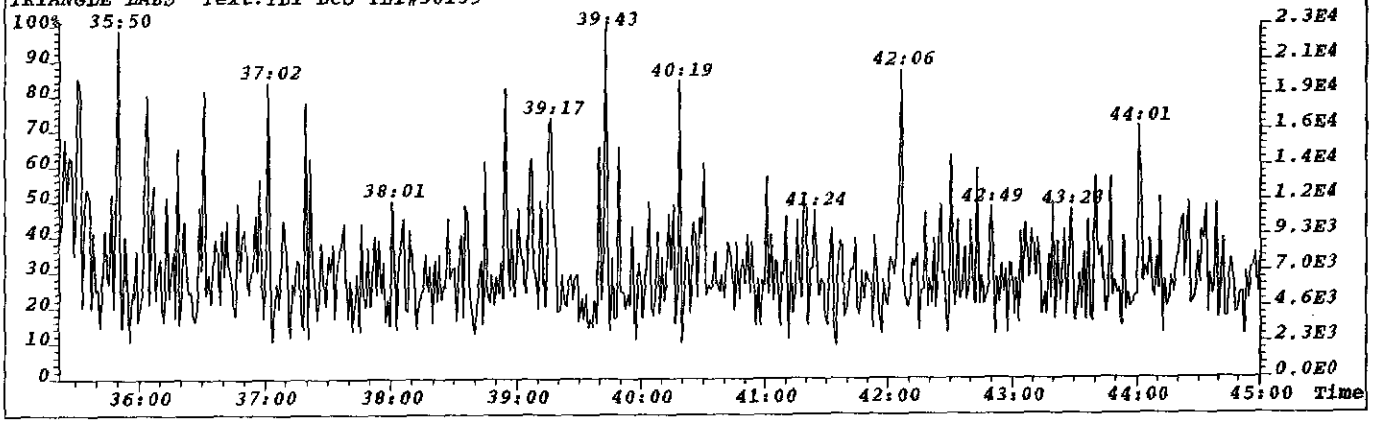
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2939
443.7399 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11756.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



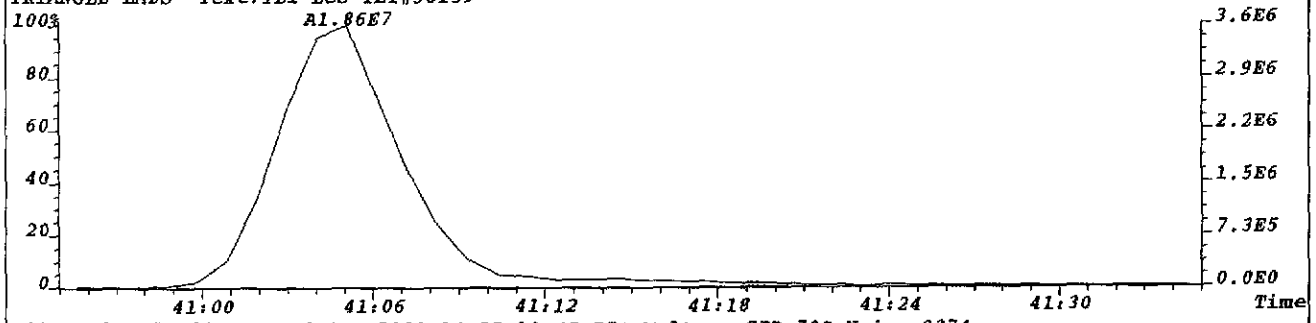
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
430.9729 S:11 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



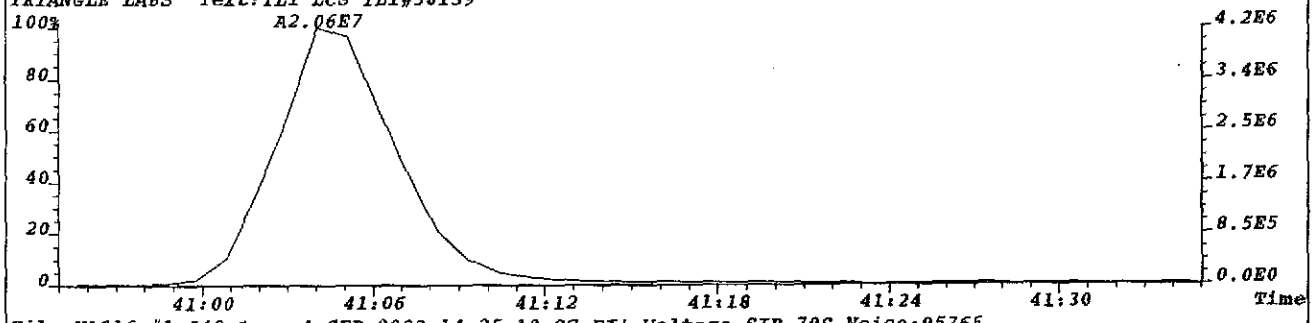
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
513.6775 S:11 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



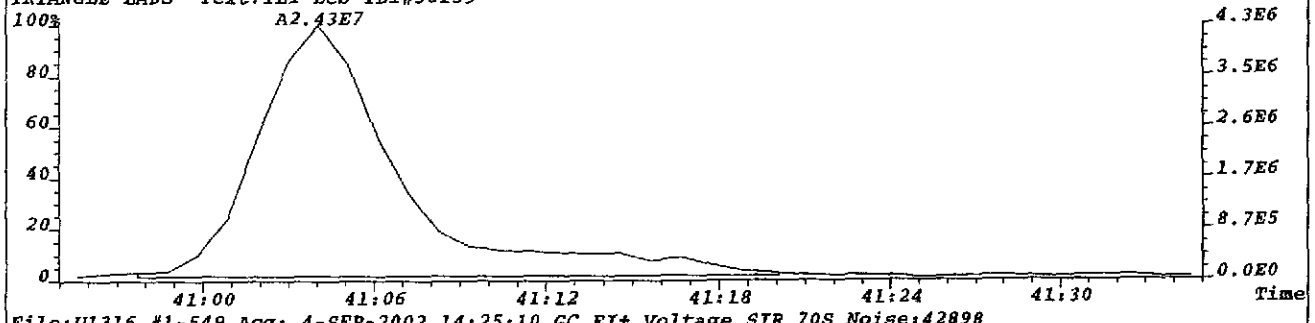
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2086
457.7377 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8344.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



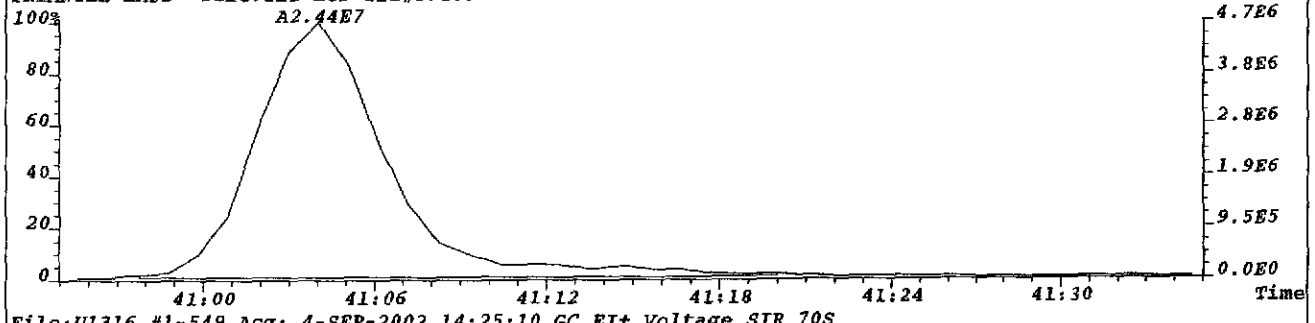
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:2374
459.7348 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9496.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139



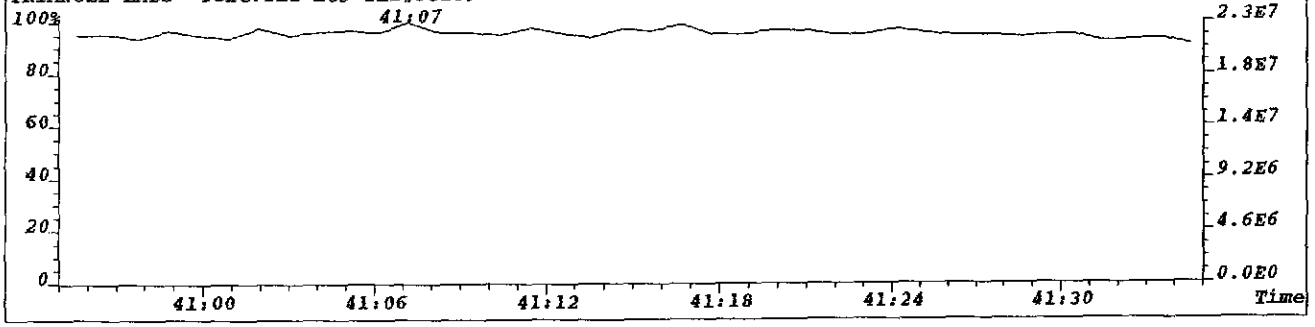
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:95765
469.7779 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,383060.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139

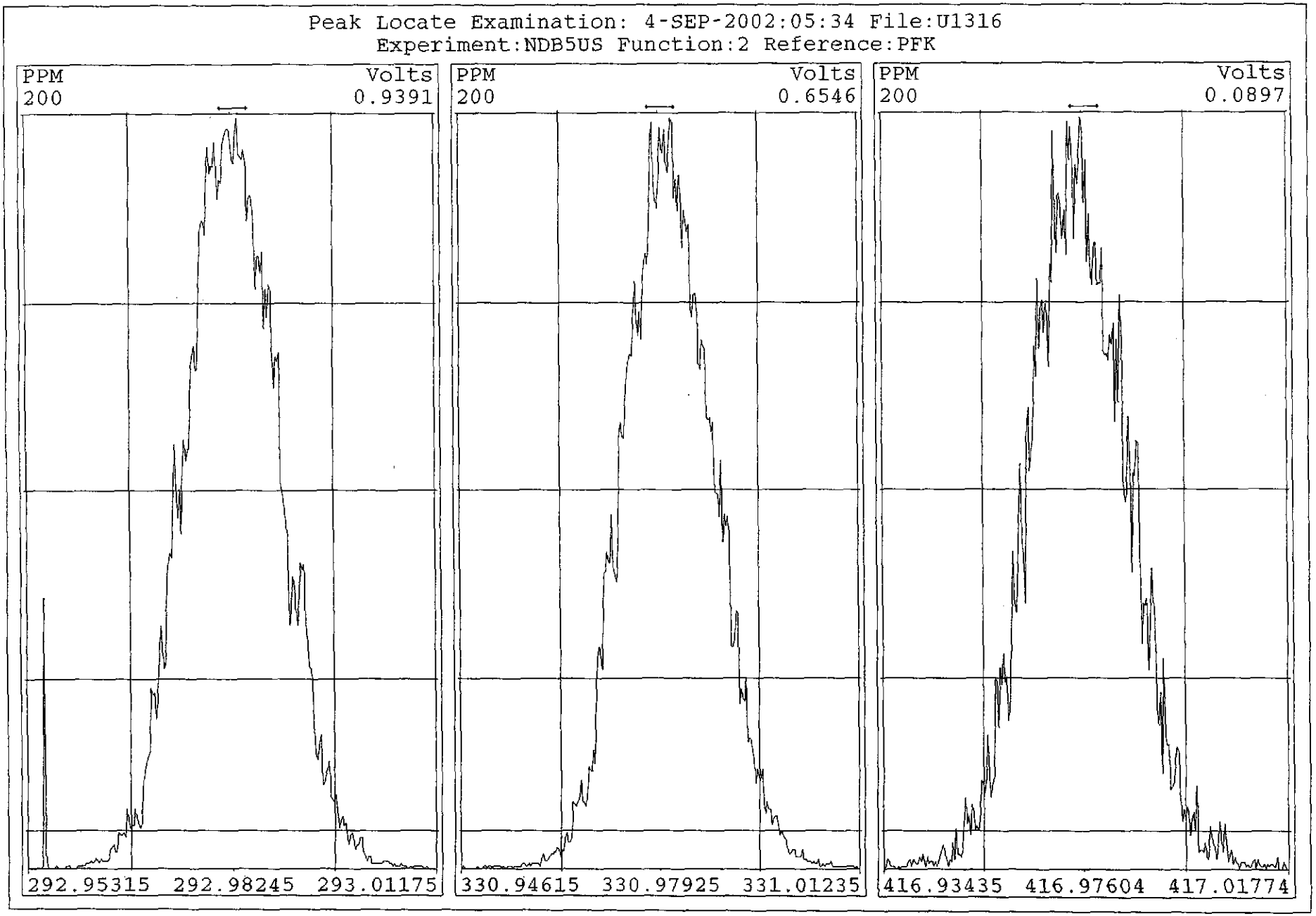


File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S Noise:42898
471.7750 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,171592.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139

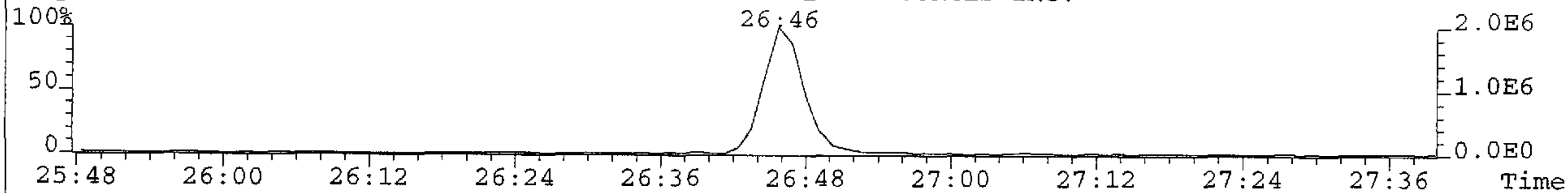


File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
430.9729 S:11 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#58139

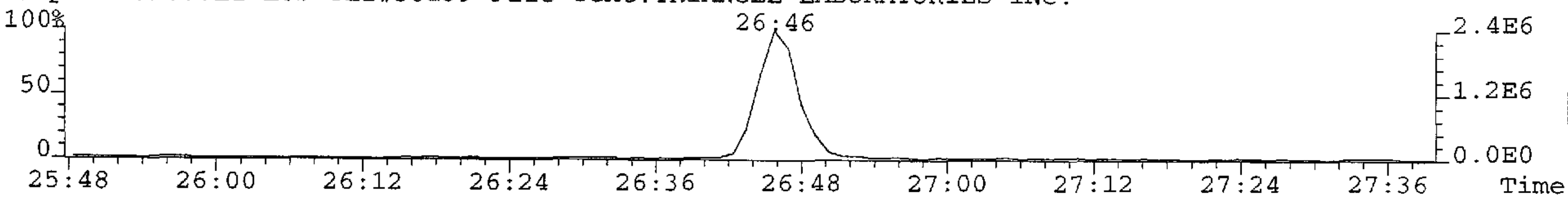



Peak Locate Examination: 4-SEP-2002:05:34 File:U1316
Experiment:NDB5US Function:2 Reference:PFK
PPM
200
Volts
0.9391
292.95315 292.98245 293.01175
PPM
200
Volts
0.6546
330.94615 330.97925 331.01235
PPM
200
Volts
0.0897
416.93435 416.97604 417.01774

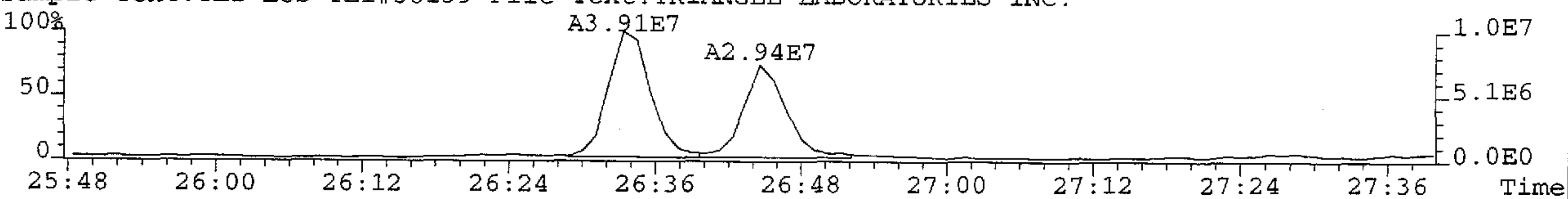
File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
319.8965 S:11 F:2 Exp:NDB5US
Sample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.



File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
321.8936 S:11 F:2 Exp:NDB5US
Sample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.



File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
331.9368 S:11 F:2 Exp:NDB5US
Sample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.



File:U1316 #1-648 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
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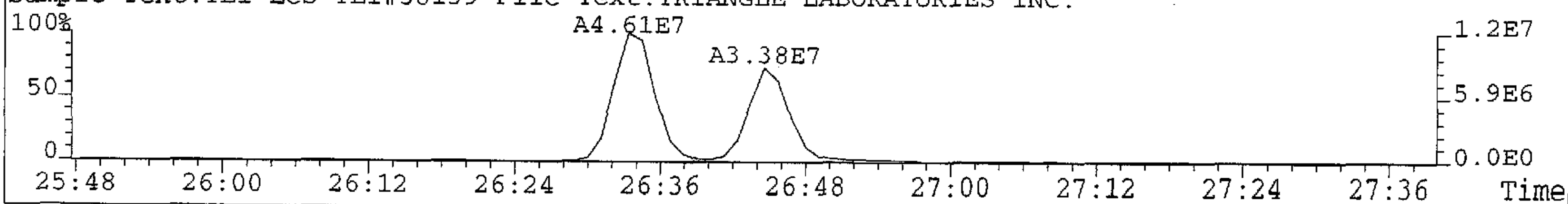
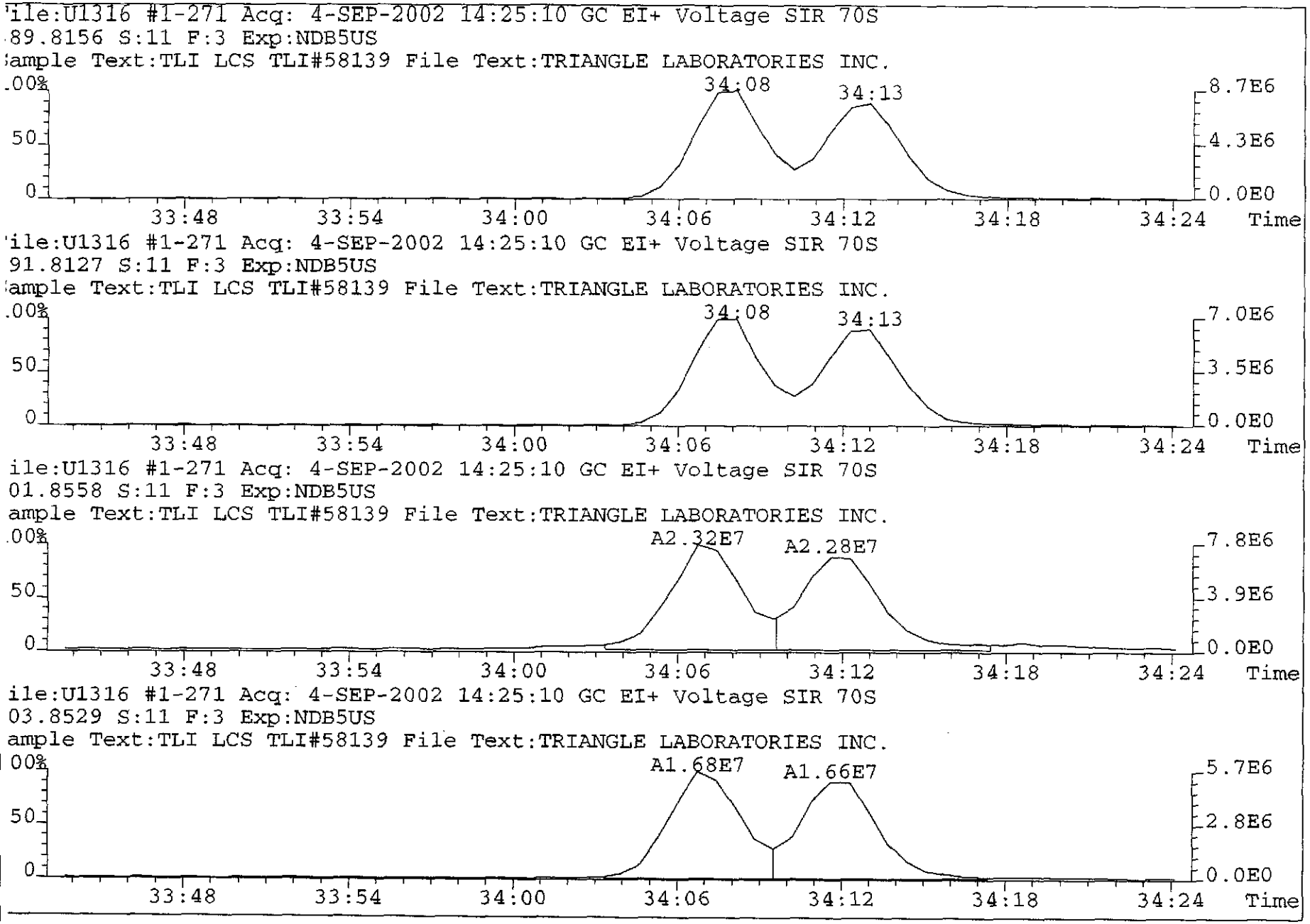
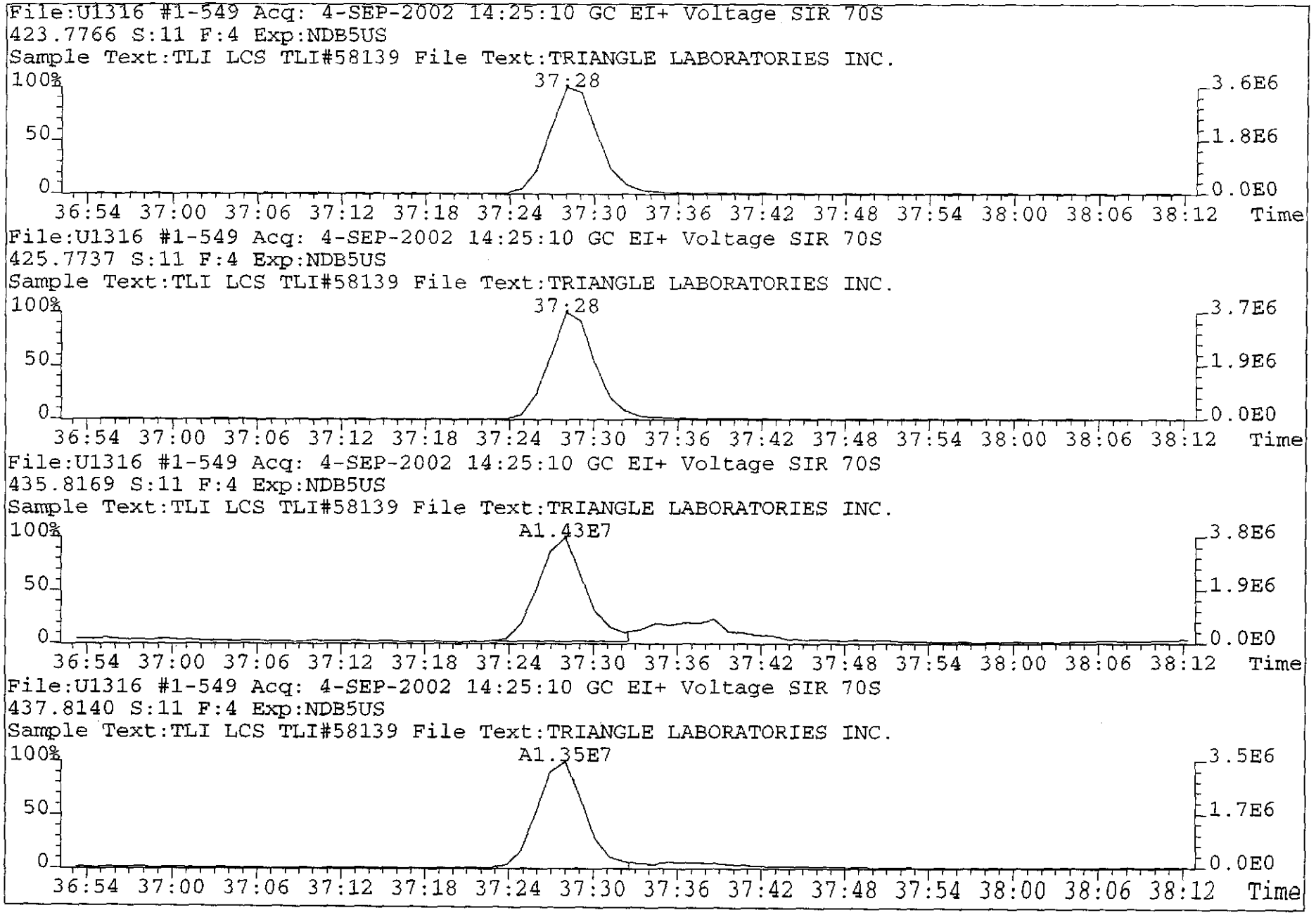
Sample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.



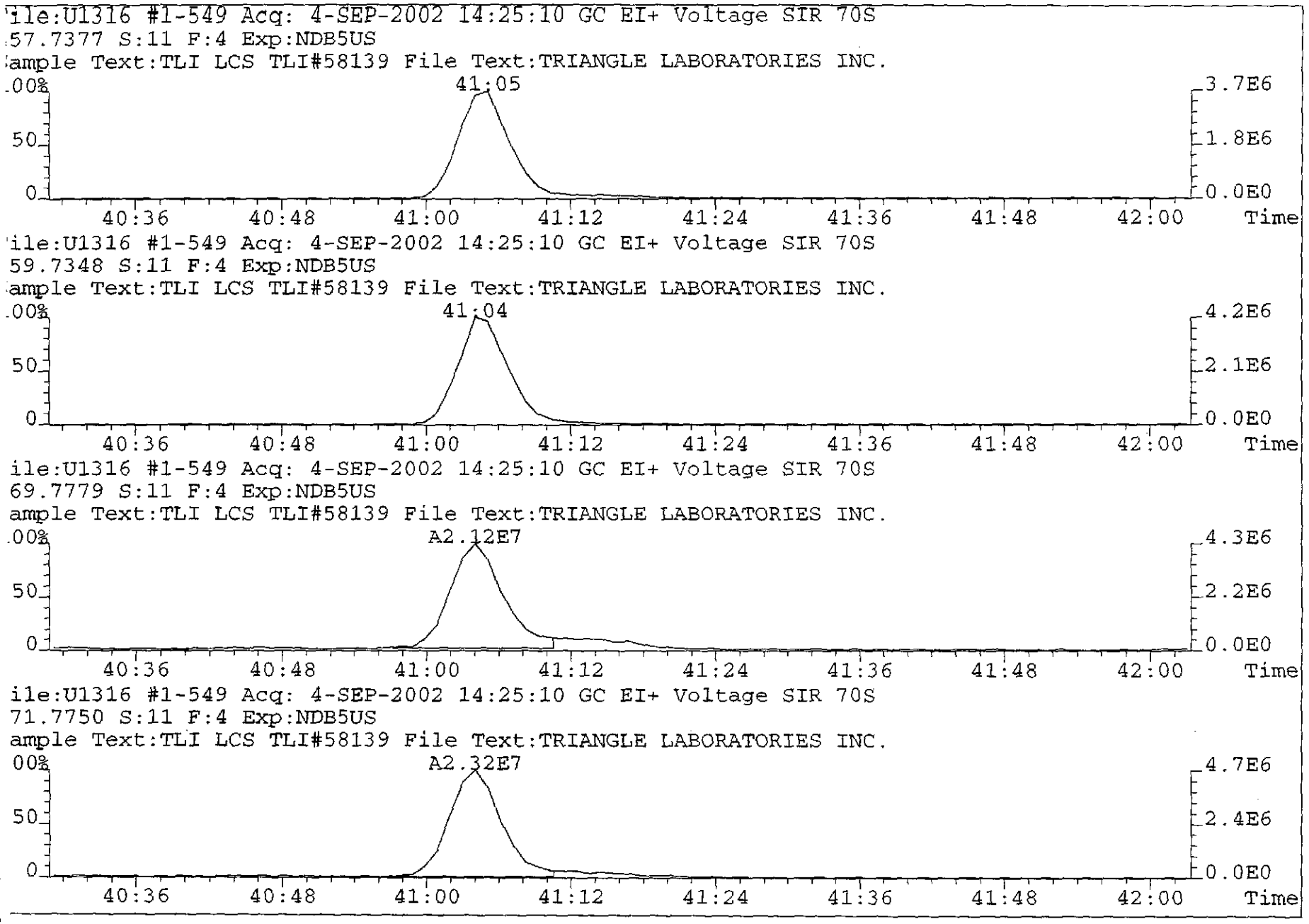
WHM 9/5/02


ile:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
89.8156 S:11 F:3 Exp:NDB5US
ample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
34:08
34:13
8.7E6
4.3E6
0.0E0
33:48
33:54
34:00
34:06
34:12
34:18
34:24
Time
ile:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
91.8127 S:11 F:3 Exp:NDB5US
ample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
34:08
34:13
7.0E6
3.5E6
0.0E0
ile:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
01.8558 S:11 F:3 Exp:NDB5US
ample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
A2.32E7
A2.28E7
7.8E6
3.9E6
0.0E0
ile:U1316 #1-271 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
03.8529 S:11 F:3 Exp:NDB5US
ample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
A1.68E7
A1.66E7
5.7E6
2.8E6
0.0E0

KHU 9/5/02


File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
423.7766 S:11 F:4 Exp:NDB5US
Sample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
37:28
3.6E6
1.8E6
0.0E0
36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00 38:06 38:12 Time
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
425.7737 S:11 F:4 Exp:NDB5US
Sample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
37:28
3.7E6
1.9E6
0.0E0
36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00 38:06 38:12 Time
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
435.8169 S:11 F:4 Exp:NDB5US
Sample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A1.43E7
3.8E6
1.9E6
0.0E0
36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00 38:06 38:12 Time
File:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
437.8140 S:11 F:4 Exp:NDB5US
Sample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
100%
50
0
A1.35E7
3.5E6
1.7E6
0.0E0
36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00 38:06 38:12 Time

WAMTI 9/5/02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57.7377 S:11 F:4 Exp:NDB5US
ample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
41:05
3.7E6
1.8E6
0.0E0
40:36 40:48 41:00 41:12 41:24 41:36 41:48 42:00 Time
ile:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
59.7348 S:11 F:4 Exp:NDB5US
ample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
41:04
4.2E6
2.1E6
0.0E0
40:36 40:48 41:00 41:12 41:24 41:36 41:48 42:00 Time
ile:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
69.7779 S:11 F:4 Exp:NDB5US
ample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
A2.12E7
4.3E6
2.2E6
0.0E0
40:36 40:48 41:00 41:12 41:24 41:36 41:48 42:00 Time
ile:U1316 #1-549 Acq: 4-SEP-2002 14:25:10 GC EI+ Voltage SIR 70S
71.7750 S:11 F:4 Exp:NDB5US
ample Text:TLI LCS TLI#58139 File Text:TRIANGLE LABORATORIES INC.
A2.32E7
4.7E6
2.4E6
0.0E0
40:36 40:48 41:00 41:12 41:24 41:36 41:48 42:00 Time

WAMTI 9/5/02

Mississippi Dept. of Env. Quality

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **TLI LCSD** Analysis File: **U131612**

Client Project:	**Crystal Springs Dioxin**				
Sample Matrix:	**SAND**	Date Received:	/ /	Spike File:	**SPMIT32S**
TLI ID:	**TLI LCSD**	Date Extracted:	**08/28/2002**	ICal:	**UF57092**
		Date Analyzed:	**09/04/2002**	ConCal:	**U021315**
Sample Size:	**10.000 g**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**U131602**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/g)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	47.0			0.82	26:46	
1,2,3,7,8-PeCDD	237			1.60	31:00	
1,2,3,4,7,8-HxCDD	222			1.26	34:08	
1,2,3,6,7,8-HxCDD	227			1.27	34:13	
1,2,3,7,8,9-HxCDD	241			1.28	34:32	
1,2,3,4,6,7,8-HpCDD	201			1.01	37:28	
1,2,3,4,6,7,8,9-OCDD	308			0.91	41:05	
2,3,7,8-TCDF	48.7			0.76	26:04	
1,2,3,7,8-PeCDF	227			1.54	29:59	
2,3,4,7,8-PeCDF	245			1.54	30:40	
1,2,3,4,7,8-HxCDF	217			1.26	33:27	
1,2,3,6,7,8-HxCDF	216			1.25	33:32	
2,3,4,6,7,8-HxCDF	221			1.24	34:01	
1,2,3,7,8,9-HxCDF	230			1.25	34:48	
1,2,3,4,6,7,8-HpCDF	233			1.08	36:27	
1,2,3,4,7,8,9-HpCDF	216			1.05	37:58	
1,2,3,4,6,7,8,9-OCDF	302			0.91	41:17	

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	134	66.8	40%-135%	0.80	26:03	
$^{13}C_{12}$-2,3,7,8-TCDD	128	64.0	40%-135%	0.82	26:44	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	144	72.0	40%-135%	1.57	29:58	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	162	81.0	40%-135%	1.60	30:59	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	196	98.1	40%-135%	0.52	33:32	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	171	85.7	40%-135%	1.27	34:12	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	176	88.0	40%-135%	0.48	36:26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	180	90.0	40%-135%	1.07	37:28	
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	390	97.4	40%-135%	0.91	41:04	

MIT3_PSR v1.00, LARS 6.25.05

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2445 S. Alston Ave. • Durham, North Carolina 27713
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Printed: 15:53 09/05/2002

TLI Project: **58258** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **TLI LCSD** Analysis File: **U131612**

Surrogate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	148	73.9	40%-135%	1.55	30:40	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	195	97.6	40%-135%	0.51	33:25	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	175	87.6	40%-135%	1.30	34:07	___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	177	88.4	40%-135%	0.46	37:57	___

Other Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	12.6	62.8	40%-135%	26:46	___

Alternate Standards (Type B)	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	212	106	40%-135%	0.51	34:47	___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	205	103	40%-135%	0.51	34:00	___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.80	26:34	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.32	34:31	___

Data Reviewer: _____ 09/05/2002

MIT3_PSR v1.00, LARS 6.25.05

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Printed: 15:53 09/05/2002

Initial ... Date...

Data Review By: WHMII 9/5/02

Channel specific noise levels computed from 'NL' heights.

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of U131612B.dbf
09/05/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF						0.65-0.89				0.874-1.073			
304-306	DC	NL				Height	7.22	3.85	3.37				
				25:03		0.65	111.94	44.06	67.88	0.962			
				25:21		0.77	43.48	18.89	24.59	0.973			
				25:39	RO	0.57	62.55	27.21	47.39	0.985	1278-TCDF		AN
				26:04		0.76	2,028.15	878.18	1,149.97	1.001	2378-TCDF		AN
	DC	SN		26:33	RO	0.93	26.16			1.019			
	DC	WH		28:16	RO	1.15	13.43			1.085			
304-306			4	Peaks			2,246.12						
13C12-TCDF						0.65-0.89				0.962-1.038			
316-318	DC	NL				Height	5.56	2.77	2.79				
	DC	WL		25:01	RO	0.61	73.93			0.960			
				25:20		0.86	49.08	22.71	26.37	0.972			
				25:39		0.69	95.71	39.19	56.52	0.985			
				26:03		0.80	7,383.96	3,275.33	4,108.63	1.000	13C12-2378-TCDF		ISO
						Height	1,755.12	788.99	966.13				
	DC	SN		26:57	RO	1.73	18.09			1.035			
	DC	WH		27:09	RO	0.48	16.92			1.042			
316-318			3	Peaks			7,528.75						
---------- Above: TCDF / TCDD Follows ----------													
TCDD						0.65-0.89				0.900-1.044			
320-322	DC	NL				Height	3.89	1.75	2.14				
	DC	SN		24:12	RO	1.63	10.25			0.905			
	DC	SN		24:40	RO	0.26	5.68			0.923	1379-TCDD		AN
	DC	SN		25:36	RO	1.43	16.50			0.958			
	DC	SN		25:50	RO	0.09	4.02			0.966			
	DC	SN		26:17	RO	1.21	14.53			0.983			
				26:46		0.82	1,382.31	621.66	760.65	1.001	2378-TCDD		AN
320-322			1	Peak			1,382.31						
37Cl-TCDD										0.925-1.075			
328	DC	NL				Height	1.80	1.80					
	DC	WL		24:08			11.49			0.903			
	DC	WL		24:25			6.48			0.913			
	DC	WL		24:36			9.61			0.920			
				25:22			15.11	15.11		0.949			
	DC	SN		25:36			4.13			0.958			
	DC	SN		25:44			6.92			0.963			
	DC	SN		25:56			2.70			0.970			
	DC	SN		26:04			5.56			0.975			
	DC	SN		26:16			3.08			0.983			

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
	DC	SN		26:23			2.42			0.987			
	DC	SN		26:33			2.33			0.993			
	DC	SN		26:37			2.80			0.996			
				26:46			519.48	519.48		1.001	37Cl-TCDD	CLS	
	DC	SN		26:59			6.72			1.009			
	DC	SN		27:24			6.39			1.025			
				27:40			11.61	11.61		1.035			
	DC	SN		27:55			4.75			1.044			
328			3	Peaks			546.20						
13C12-TCDD				0.65-0.89						0.925-1.075			
332-334	DC	NL					Height 11.83	7.77	4.06				
				26:34		0.80	6,893.57	3,069.97	3,823.60	0.994	13C12-1234-TCDD	RS1	
				26:44		0.82	4,980.11	2,239.86	2,740.25	1.000	13C12-2378-TCDD	IS1	
							Height 1,247.76	555.47	692.29				
332-334			2	Peaks			11,873.68						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF				1.32-1.78						0.928-1.062			
340-342	DC	NL					Height 3.86	1.85	2.01				
				29:07		1.37	135.66	78.53	57.13	0.972			J
				29:37		1.41	93.91	54.89	39.02	0.988			J
				29:59		1.54	7,880.67	4,782.31	3,098.36	1.001	12378-PeCDF	AN	
				30:16		1.52	152.68	92.11	60.57	1.010			J
				30:40		1.54	8,359.63	5,074.48	3,285.15	1.023	23478-PeCDF	AN	
	DC	SN		31:26	RO	0.91	9.57			1.049			
				31:38	RO	0.75	27.21	16.54	22.16	1.056			J
340-342			6	Peaks			16,649.76						
13C12-PeCDF				1.32-1.78						0.867-1.133			
352-354	DC	NL					Height 3.12	1.56	1.56				
				29:06		1.62	126.79	78.31	48.48	0.971			
				29:34	RO	2.00	59.03	46.39	23.15	0.987			
				29:58		1.57	5,535.28	3,379.29	2,155.99	1.000	13C12-PeCDF 123	IS2	
							Height 1,629.20	982.43	646.77				
				30:16		1.49	86.31	51.67	34.64	1.010			
				30:40		1.55	5,699.25	3,466.02	2,233.23	1.023	13C12-PeCDF 234	SUR1	
				31:38	RO	1.21	100.39	47.59	39.37	1.056			
	DC	SN		31:47		1.68	13.01			1.061			
352-354			6	Peaks			11,607.05						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD				1.32-1.78						0.938-1.022			
356-358	DC	NL					Height 2.89	1.48	1.41				
				30:16	RO	1.09	22.31	9.54	8.75	0.977			J
				30:41	RO	1.31	23.89	12.25	9.37	0.990			J
	DC	SN		30:49		1.45	7.46			0.995			
				31:00		1.60	4,961.69	3,054.28	1,907.41	1.001	12378-PeCDD	AN	
	DC	SN		31:17	RO	1.97	10.40			1.010			
				31:29	RO	2.20	12.55	10.82	4.92	1.016			J

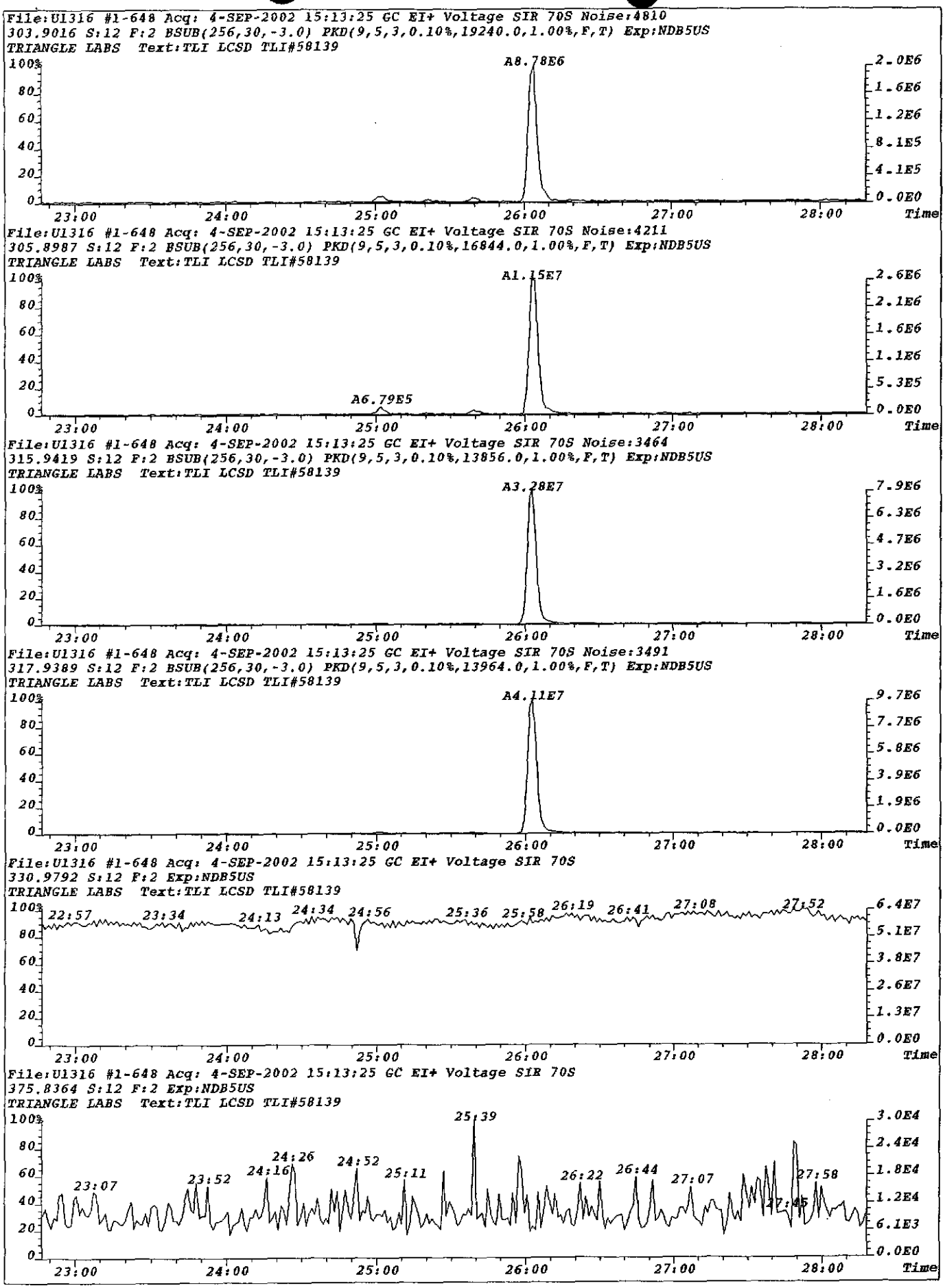
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
356-358			4 Peaks				5,020.44						
13C12-PeCDD				1.32-1.78						0.871-1.129			
368-370	DC	NL		Height			2.83	1.60	1.23				
	DC	SN	29:14			1.73	10.31			0.944			
	DC	SN	29:28	RO		2.22	9.95			0.951			
			29:56	RO		2.34	17.34	15.94	6.80	0.966			
			30:04	RO		1.25	34.45	16.88	13.51	0.970			
			30:15			1.32	14.03	7.99	6.04	0.976			
	DC	SN	30:24	RO		0.99	8.95			0.981			
			30:59			1.60	3,712.97	2,286.02	1,426.95	1.000	13C12-PeCDD 123	IS3	
				Height			1,047.68	638.53	409.15				
	DC	SN	31:40	RO		2.72	4.72			1.022			
	DC	SN	31:46	RO		1.90	4.41			1.025			
368-370			4 Peaks				3,778.79						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF				1.05-1.43						0.964-1.045			
374-376	DC	NL		Height			4.62	2.09	2.53				
			32:28			1.12	24.39	12.90	11.49	0.968			J
			32:36			1.22	58.42	32.06	26.36	0.972			J
			33:27			1.26	6,268.79	3,489.70	2,779.09	0.998	123478-HxCDF	AN	
			33:32			1.25	6,561.48	3,640.28	2,921.20	1.000	123678-HxCDF	AN	
			34:01			1.24	5,841.19	3,238.34	2,602.85	1.014	234678-HxCDF	AN	
			34:48			1.25	5,010.18	2,778.96	2,231.22	1.038	123789-HxCDF	AN	
374-376			6 Peaks				23,764.45						
13C12-HxCDF				0.43-0.59						0.881-1.119			
384-386	DC	NL		Height			6.70	2.67	4.03				
			32:36			0.47	41.39	13.29	28.10	0.972			
N			33:25			0.51	5,050.08	1,716.28	3,333.80	0.997	13C12-HxCDF 478	SUR2	
			33:32			0.52	5,062.02	1,724.92	3,337.10	1.000	13C12-HxCDF 678	IS4	
				Height			1,635.49	556.68	1,078.81				
	DC	SN	33:51	RO		1.27	8.79			1.009			
			34:00			0.51	4,871.02	1,646.15	3,224.87	1.014	13C12-HxCDF 234	ALT2	
			34:47			0.51	3,989.80	1,351.88	2,637.92	1.037	13C12-HxCDF 789	ALT1	
	DC	SN	35:12	RO		0.73	12.58			1.050			
384-386			5 Peaks				19,014.31						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD				1.05-1.43						0.959-1.013			
390-392	DC	NL		Height			4.29	2.00	2.29				
			34:08			1.26	3,731.07	2,078.99	1,652.08	0.998	123478-HxCDD	AN	
			34:13			1.27	3,896.96	2,178.92	1,718.04	1.000	123678-HxCDD	AN	
			34:32			1.28	4,025.33	2,259.53	1,765.80	1.010	123789-HxCDD	AN	
	DC	WH	34:44	RO		4.90	9.32			1.016			
	DC	WH	34:53	RO		0.66	6.83			1.020			
390-392			3 Peaks				11,653.36						

Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-HxCDD				1.05-1.43						0.971-1.029			
402-404	DC	NL		Height			6.17	3.45	2.72				
				33:36		1.37	30.13	17.40	12.73	0.982			
				34:07		1.30	2,874.68	1,625.42	1,249.26	0.998	13C12-HxCDD 478	SUR3	
				34:12		1.27	3,110.33	1,742.69	1,367.64	1.000	13C12-HxCDD 678	IS5	
				Height			951.24	532.86	418.38				
				34:31		1.32	3,492.35	1,984.91	1,507.44	1.009	13C12-HxCDD 789	RS2	
402-404			4	Peaks			9,507.49						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.88-1.20						0.996-1.047			
408-410	DC	NL		Height			2.82	1.47	1.35				
				36:27		1.08	5,440.36	2,821.42	2,618.94	1.000	1234678-HpCDF	AN	
				36:50	RO	0.74	36.90	18.81	25.29	1.011			J
				37:58		1.05	3,577.32	1,830.10	1,747.22	1.042	1234789-HpCDF	AN	
408-410			3	Peaks			9,054.58						
13C12-HpCDF				0.37-0.51						0.945-1.110			
418-420	DC	NL		Height			3.59	1.95	1.64				
				36:26		0.48	3,228.33	1,041.58	2,186.75	1.000	13C12-HpCDF 678	IS6	
				Height			927.52	289.69	637.83				
	DC	SN		37:39	RO	1.80	5.66			1.033			
				37:57		0.46	2,278.37	713.34	1,565.03	1.042	13C12-HpCDF 789	SUR4	
418-420			2	Peaks			5,506.70						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20						0.976-1.005			
424-426	DC	NL		Height			2.93	1.58	1.35				
	DC	SN		37:12	RO	1.68	4.14			0.993			
				37:28		1.01	2,586.73	1,296.89	1,289.84	1.000	1234678-HpCDD	AN	
	DC	WH		37:44		0.89	15.89			1.007			
424-426			1	Peak			2,586.73						
13C12-HpCDD				0.88-1.20						0.973-1.027			
436-438	DC	NL		Height			5.92	3.56	2.36				
	DC	SN		36:43	RO	2.11	11.85			0.980			
				37:28		1.07	2,542.71	1,314.48	1,228.23	1.000	13C12-HpCDD 678	IS7	
				Height			667.57	347.87	319.70				
	DC	SN		37:49	RO	4.37	14.18			1.009			
	DC	SN		37;54	RO	27.92	6.24			1.012			
436-438			1	Peak			2,542.71						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02						0.903-1.097			
442-444	DC	NL		Height			3.16	1.52	1.64				
	DC	WL		36:21	RO	1.34	7.50			0.885			
				41:17		0.91	4,187.65	1,995.36	2,192.29	1.005	OCDF	AN	
	DC	SN		41:45	RO	0.73	15.65			1.017			
	DC	SN		42:44	RO	0.47	4.99			1.041			

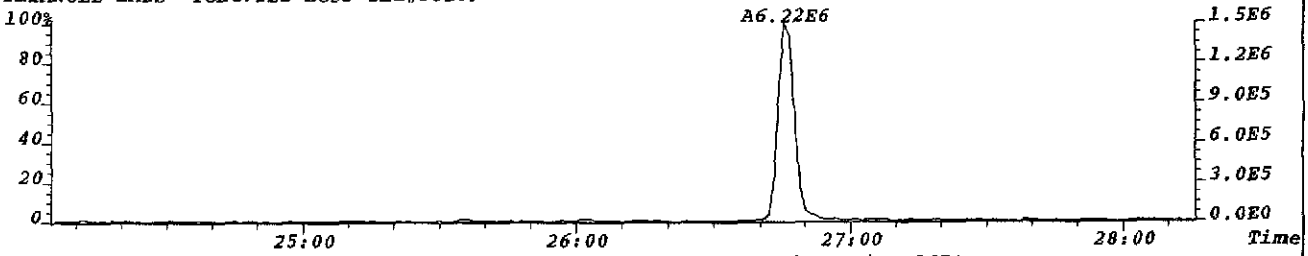
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
442-444			1 Peak				4,187.65						
OCDD				0.76-1.02						0.903-1.097			
458-460	DC	NL		Height			2.40	1.15	1.25				
				41:05		0.91	3,174.55	1,510.25	1,664.30	1.000	OCDD		AN
	DC	SN		41:27	RO	1.68	10.00			1.009			
458-460			1 Peak				3,174.55						
13C12-OCDD				0.76-1.02						0.996-1.004			
470-472	DC	NL		Height			3.74	2.26	1.48				
				41:04		0.91	3,722.08	1,777.15	1,944.93	1.000	13C12-OCDD		ISB
							729.94	356.86	373.08				
470-472			1 Peak				3,722.08						

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
		N-Name Changed
		X-Ether Interference

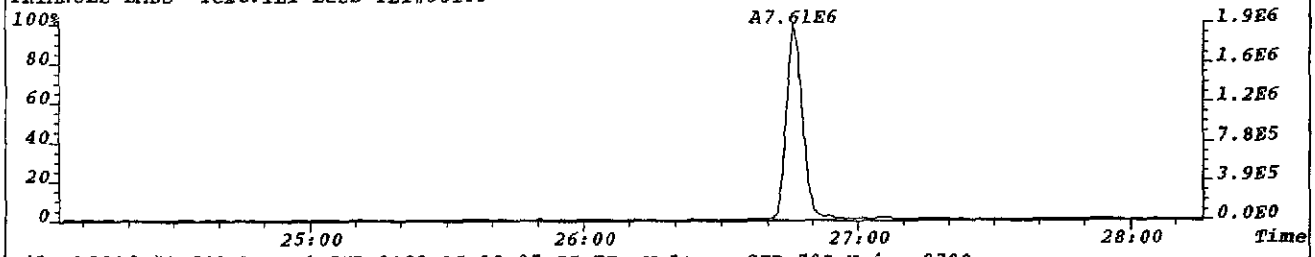
*** End of Report ***


File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:4810
303.9016 S:12 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,19240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A8.78E6
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:4211
305.8987 S:12 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,16844.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.15E7
A6.79E5
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:3464
315.9419 S:12 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,13856.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A3.28E7
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:3491
317.9389 S:12 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,13964.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A4.11E7
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
330.9792 S:12 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
22:57
23:34
24:13
24:34
24:56
25:36
25:58
26:19
26:41
27:08
27:52
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
375.8364 S:12 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
23:07
23:52
24:16
24:26
24:52
25:11
25:39
26:22
26:44
27:07
27:58
23:00
24:00
25:00
26:00
27:00
28:00
Time

File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2191
319.8965 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8764.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139



File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2671
321.8936 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10684.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139



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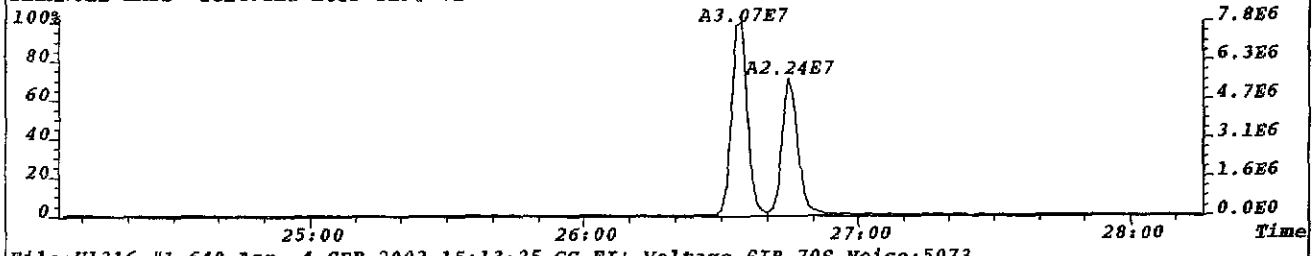
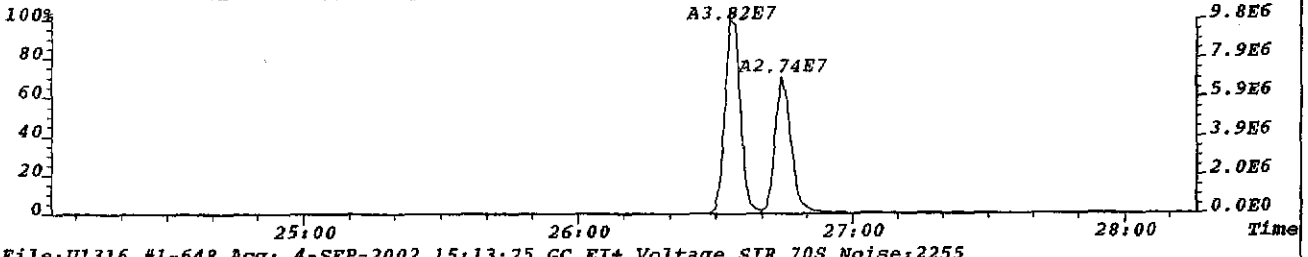
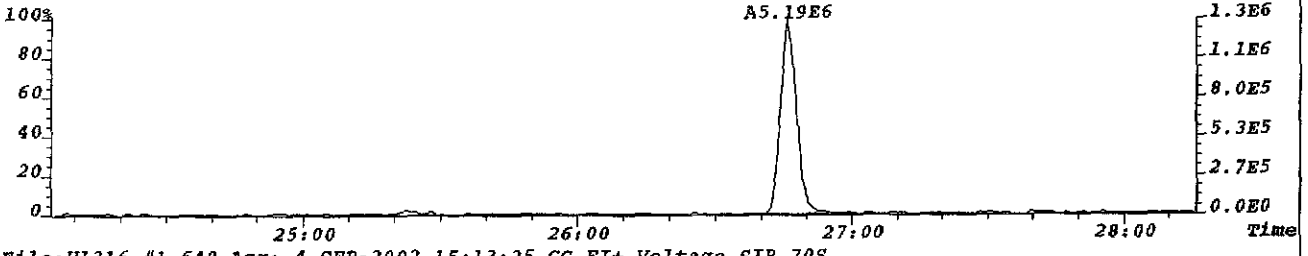
331.9368 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,38832.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139



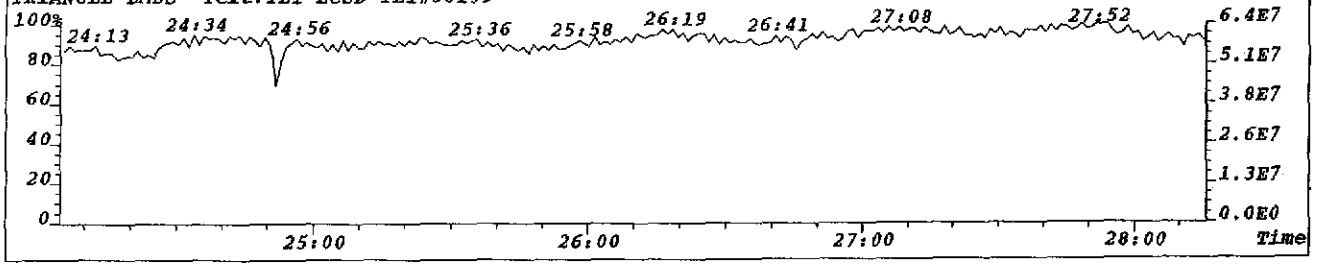
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:5073
333.9338 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,20292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139

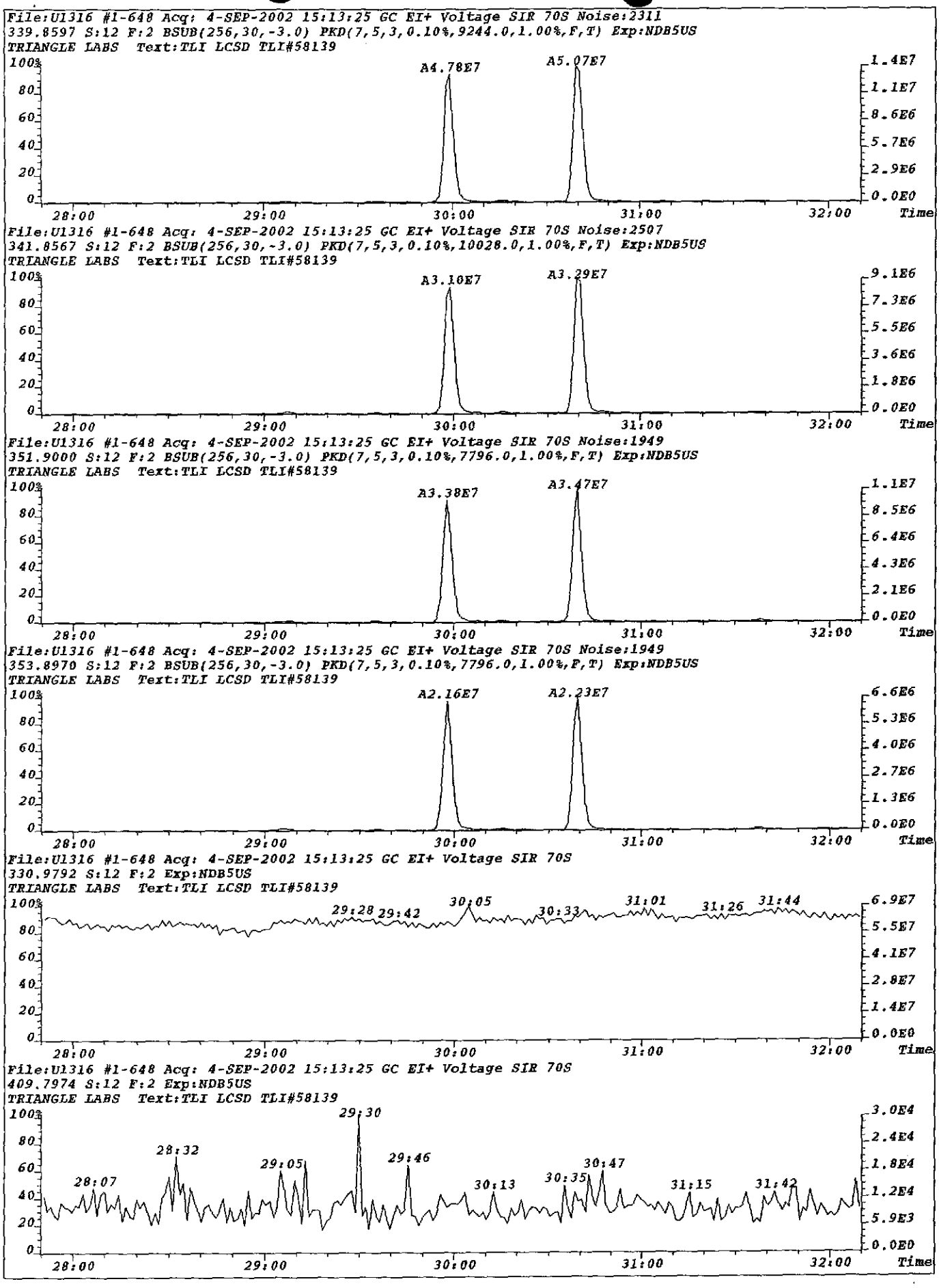


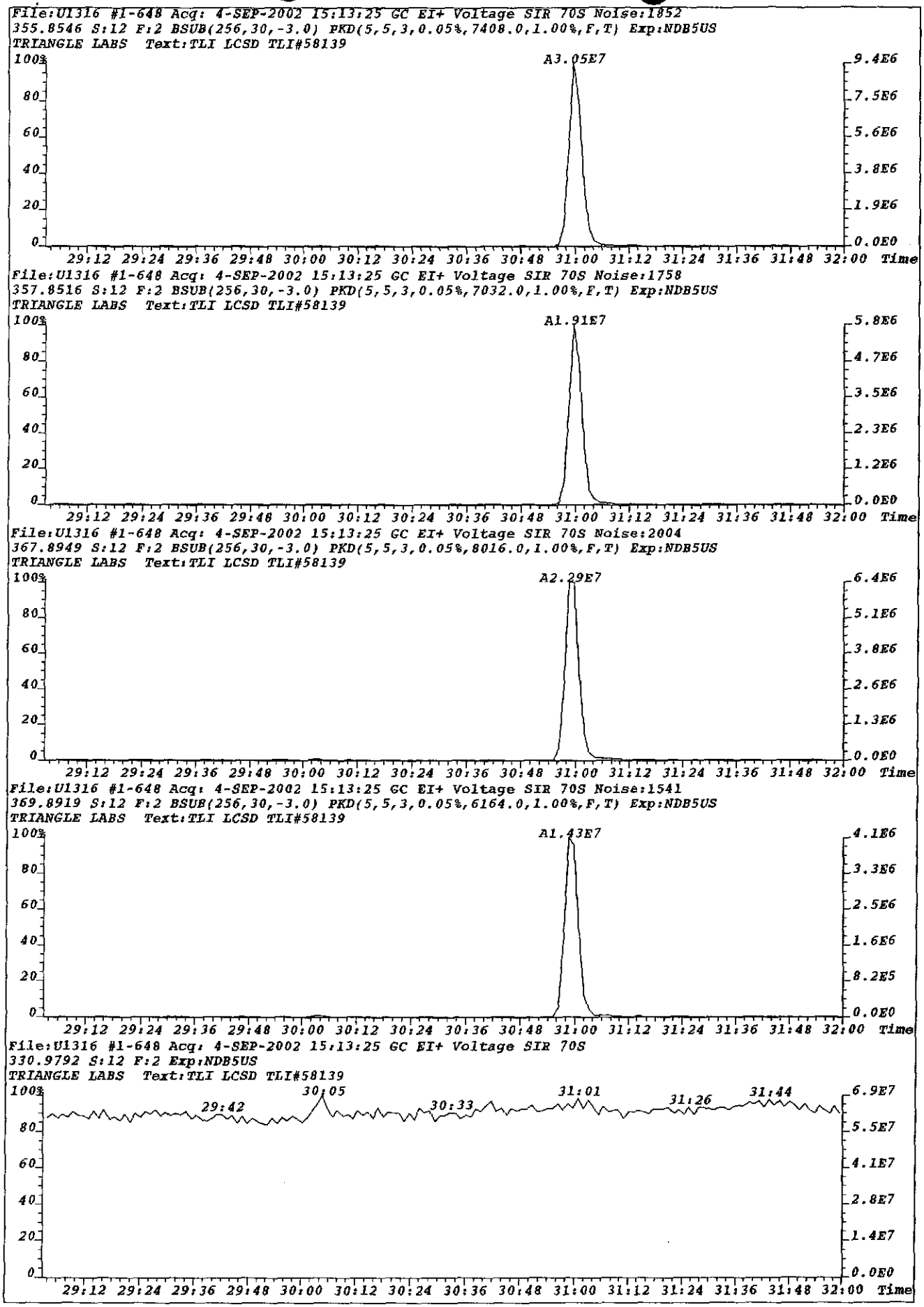
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2255
327.8847 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9020.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139

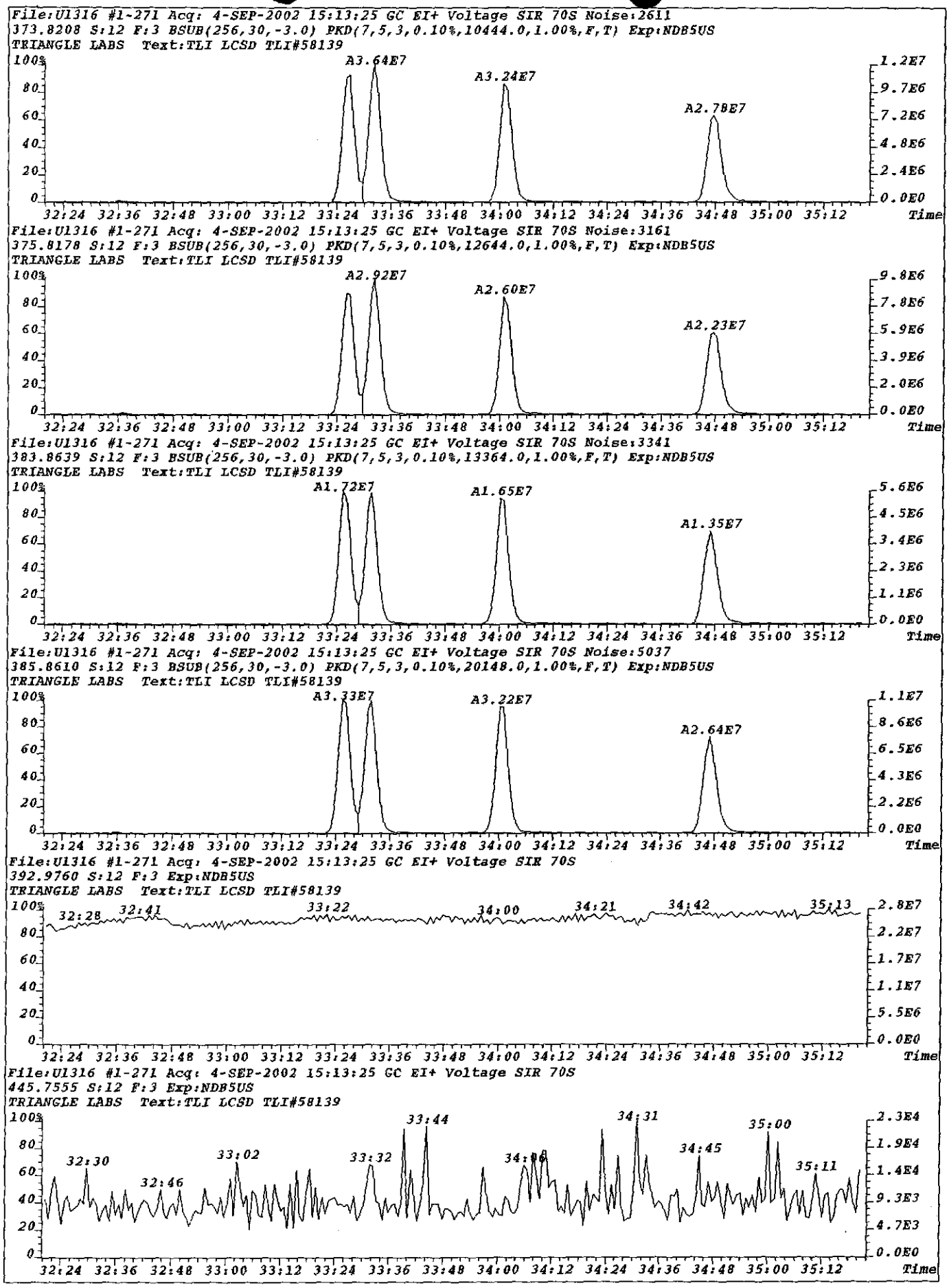


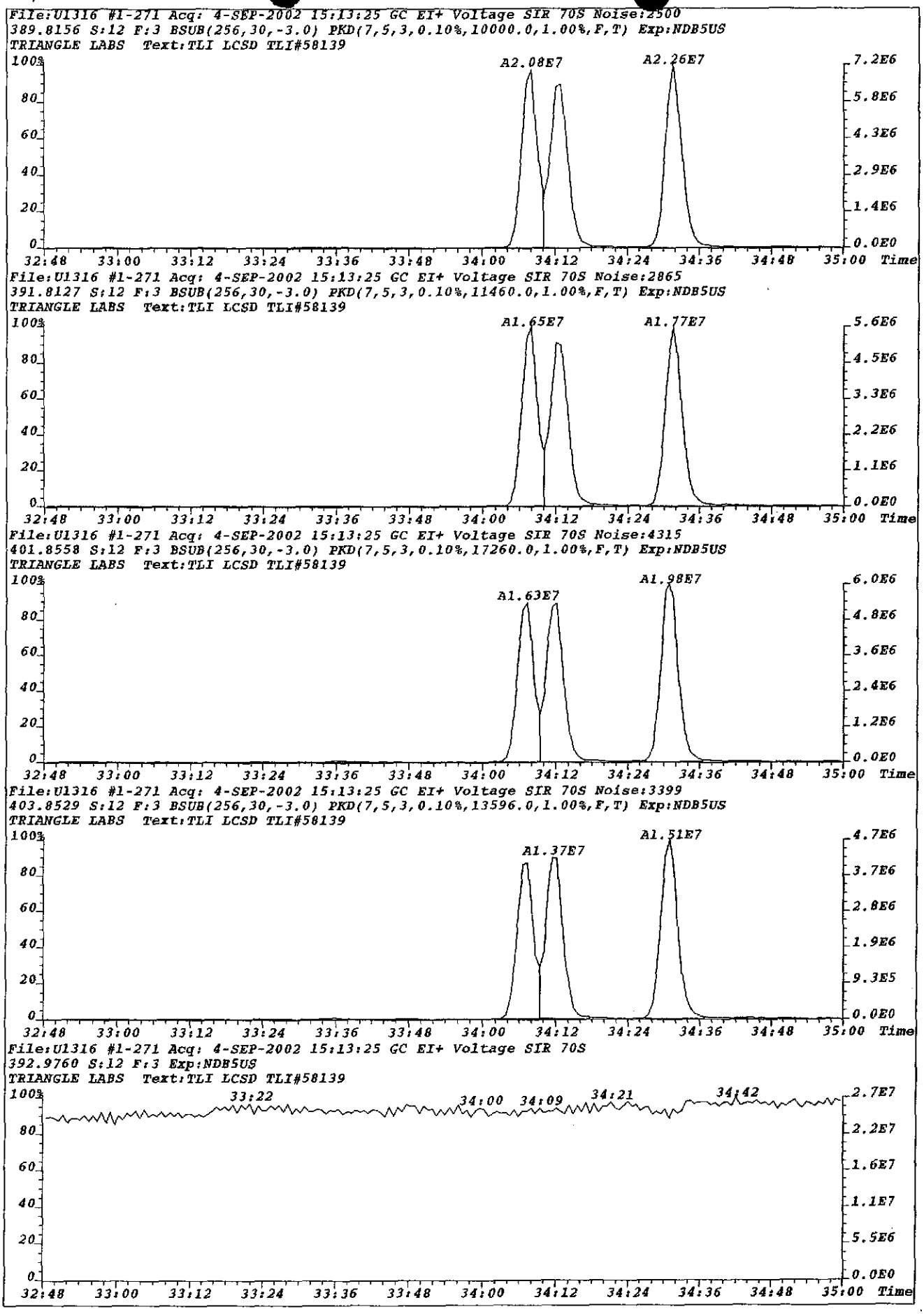
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
330.9792 S:12 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139




File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2311
339.8597 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9244.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A4.78E7
A5.07E7
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2507
341.8567 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10028.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A3.10E7
A3.29E7
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1949
351.9000 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7796.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A3.38E7
A3.47E7
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1949
353.8970 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7796.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A2.16E7
A2.23E7
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
330.9792 S:12 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
29:28
29:42
30:05
30:33
31:01
31:26
31:44
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
409.7974 S:12 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
28:07
28:32
29:05
29:30
29:46
30:13
30:35
30:47
31:15
31:42
28:00
29:00
30:00
31:00
32:00
Time


File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1852
355.8546 S:12 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,7408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A3.05E7
9.4E6
7.5E6
5.6E6
3.8E6
1.9E6
0.0E0
29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48 32:00 Time
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1758
357.8516 S:12 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,7032.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.91E7
5.8E6
4.7E6
3.5E6
2.3E6
1.2E6
0.0E0
29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48 32:00 Time
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2004
367.8949 S:12 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,8016.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A2.29E7
6.4E6
5.1E6
3.8E6
2.6E6
1.3E6
0.0E0
29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48 32:00 Time
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1541
369.8919 S:12 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,6164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.43E7
4.1E6
3.3E6
2.5E6
1.6E6
8.2E5
0.0E0
29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48 32:00 Time
File:U1316 #1-648 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
330.9792 S:12 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
29:42
30:05
30:33
31:01
31:26
31:44
6.9E7
5.5E7
4.1E7
2.8E7
1.4E7
0.0E0
29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48 32:00 Time


File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2611
373.8208 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A3.64E7
A3.24E7
A2.78E7
File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:3161
375.8178 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12644.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A2.92E7
A2.60E7
A2.23E7
File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:3341
383.8639 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.72E7
A1.65E7
A1.35E7
File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:5037
385.8610 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,20148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A3.33E7
A3.22E7
A2.64E7
File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
392.9760 S:12 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
445.7555 S:12 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
Time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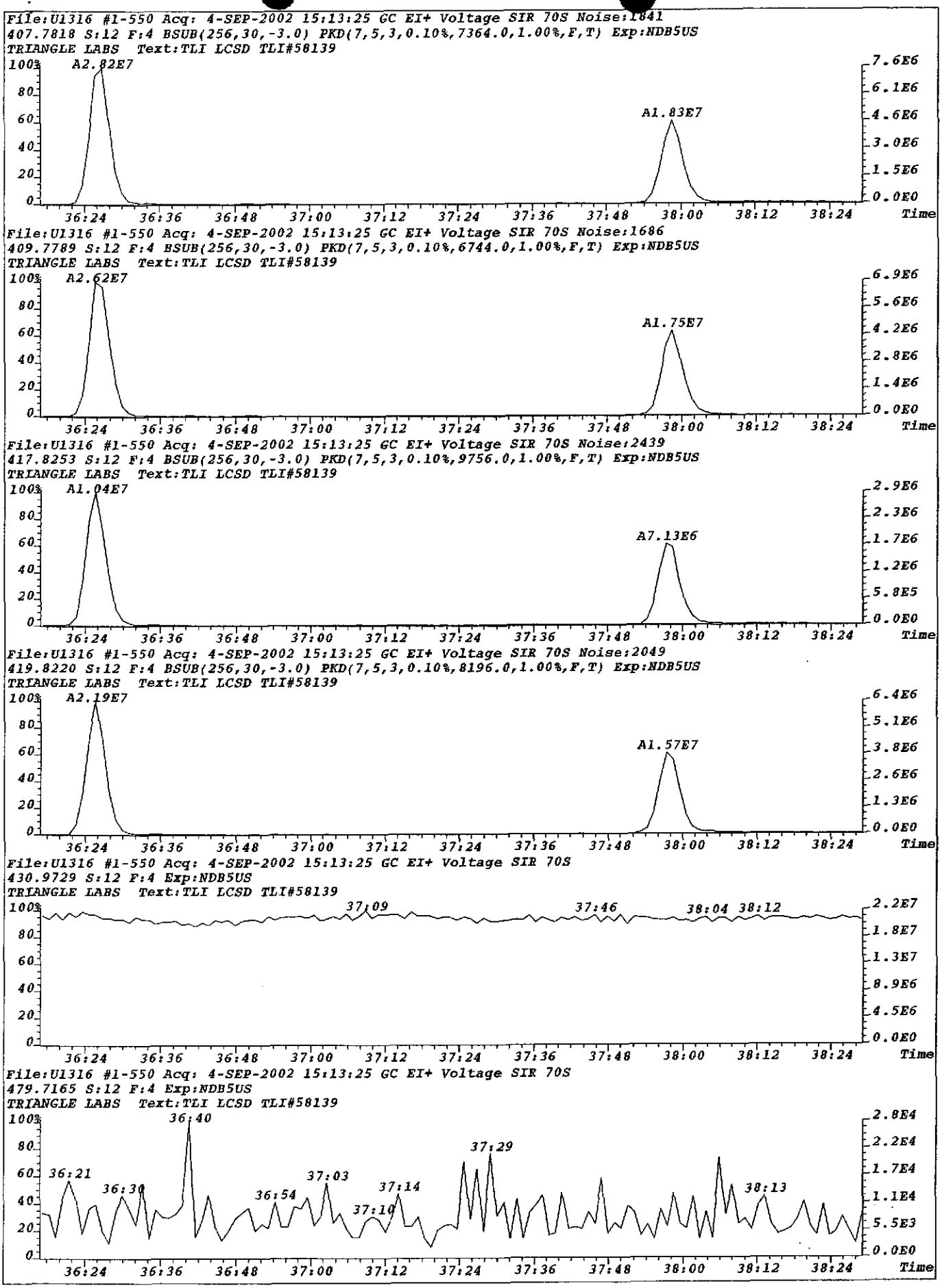
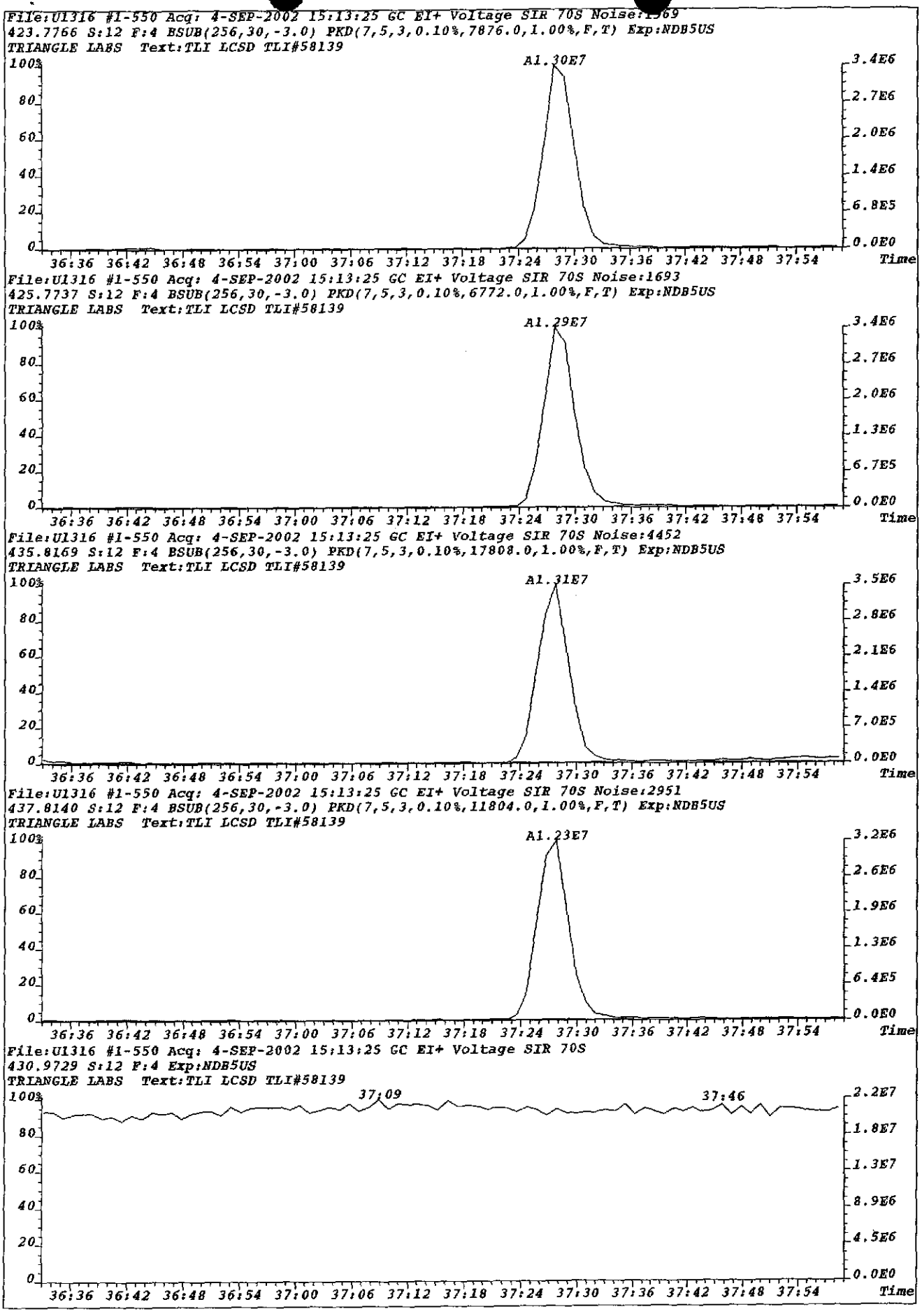
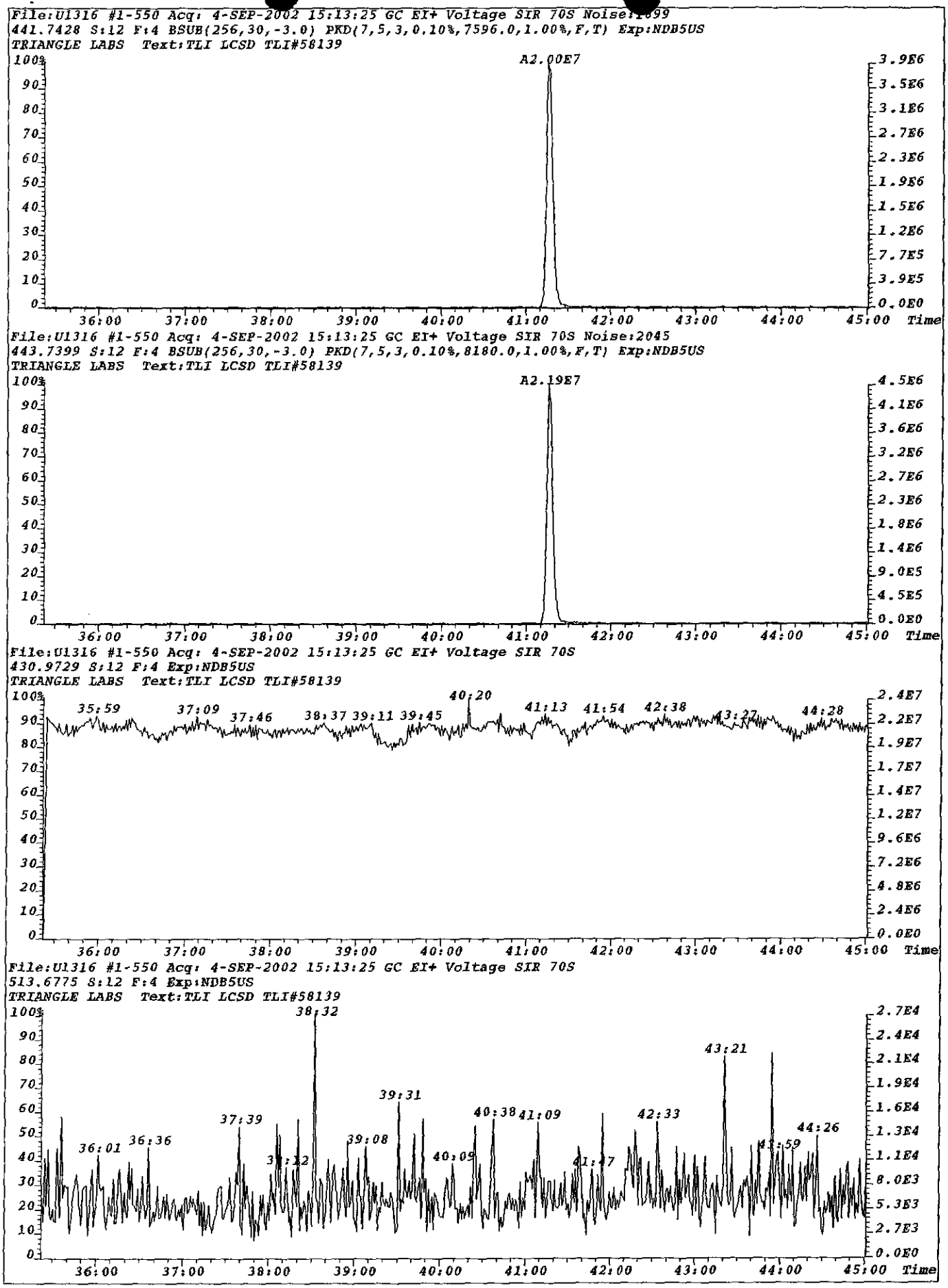
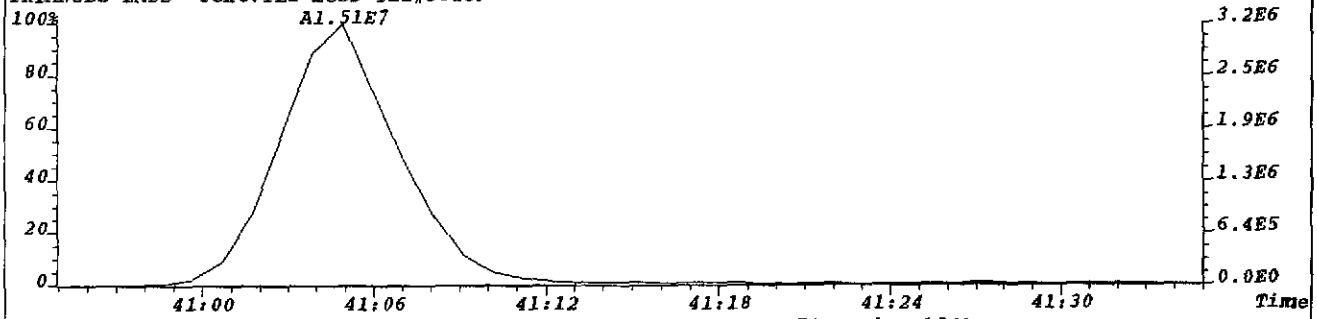
389.8156 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10000.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A2.08E7
A2.26E7
7.2E6
5.8E6
4.3E6
2.9E6
1.4E6
0.0E0
32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 Time
File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2865
391.8127 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11460.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.65E7
A1.77E7
5.6E6
4.5E6
3.3E6
2.2E6
1.1E6
0.0E0
32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 Time
File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:4315
401.8558 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,17260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.98E7
A1.63E7
6.0E6
4.8E6
3.6E6
2.4E6
1.2E6
0.0E0
32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 Time
File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:3399
403.8529 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13596.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.51E7
A1.37E7
4.7E6
3.7E6
2.8E6
1.9E6
9.3E5
0.0E0
32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 Time
File:U1316 #1-271 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
392.9760 S:12 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
33:22
34:00
34:09
34:21
34:42
2.7E7
2.2E7
1.6E7
1.1E7
5.5E6
0.0E0
32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 Time


File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1841
407.7818 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A2.82E7
A1.83E7
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1686
409.7789 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,6744.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A2.62E7
A1.75E7
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2439
417.8253 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9756.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.04E7
A7.13E6
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2049
419.8220 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A2.19E7
A1.57E7
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
430.9729 S:12 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
37:09
37:46
38:04
38:12
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
479.7165 S:12 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
36:40
36:21
36:30
36:54
37:03
37:10
37:14
37:29
38:13
36:24
36:36
36:48
37:00
37:12
37:24
37:36
37:48
38:00
38:12
38:24
Time

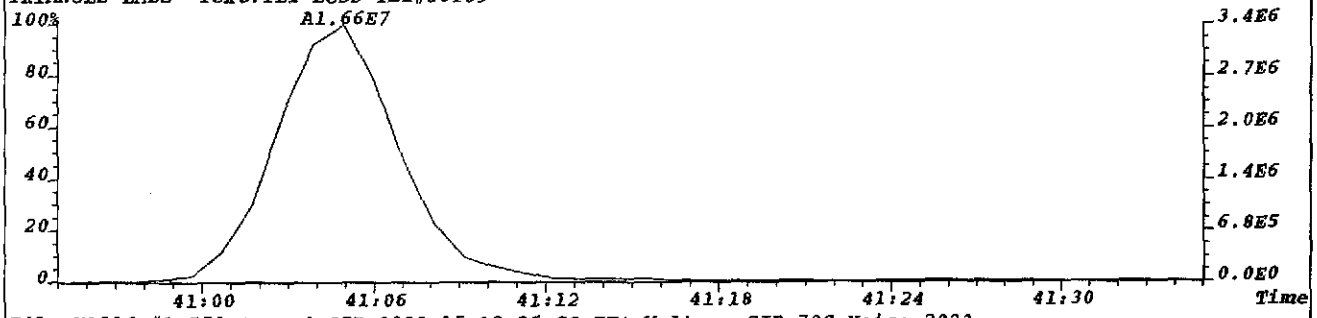

File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1969
423.7766 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7876.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.30E7
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1693
425.7737 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,6772.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.29E7
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:4452
435.8169 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,17808.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.31E7
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2951
437.8140 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11804.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A1.23E7
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
430.9729 S:12 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
37:09
37:46
Time


File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1099
441.7428 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7596.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A2.00E7
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2045
443.7399 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8180.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
A2.19E7
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
430.9729 S:12 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
35:59
37:09
37:46
38:37
39:11
39:45
40:20
41:13
41:54
42:38
43:27
44:28
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
513.6775 S:12 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139
36:01
36:36
37:39
38:32
39:08
39:31
40:09
40:38
41:09
41:47
42:33
43:21
43:59
44:26
Time

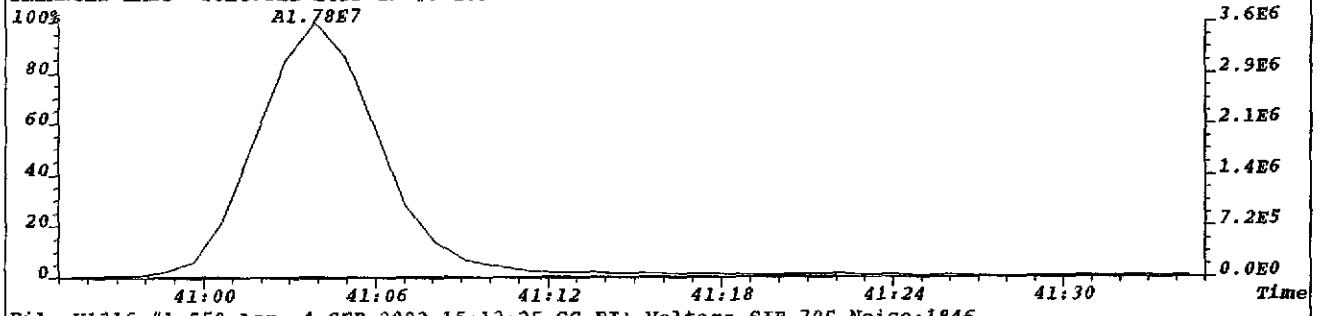
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:[illegible]33
457.7377 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,5732.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139



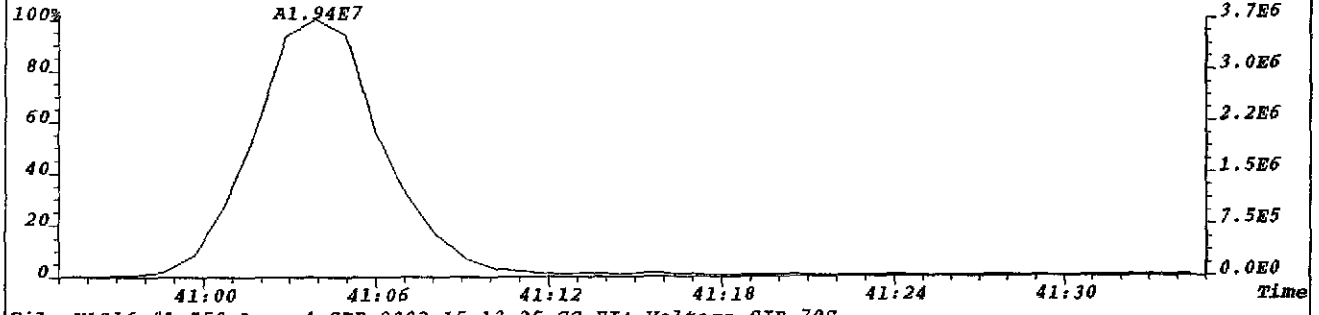
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1562
459.7348 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,6248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139



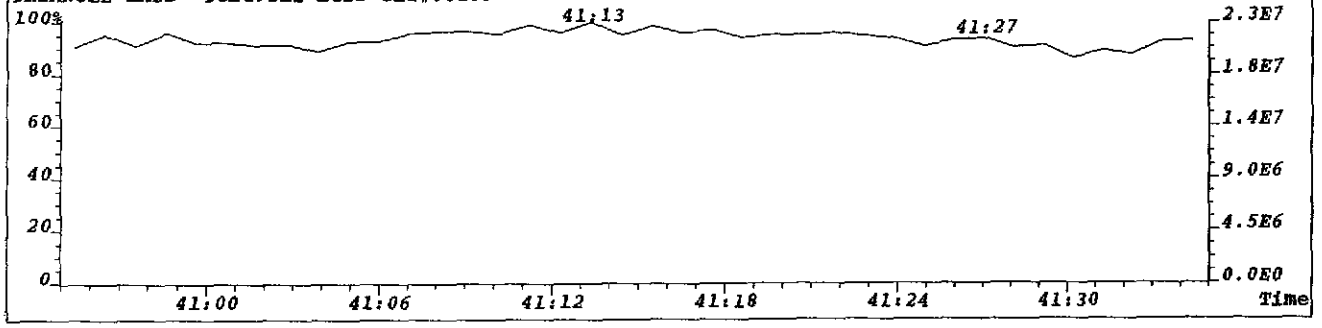
File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:2823
469.7779 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139

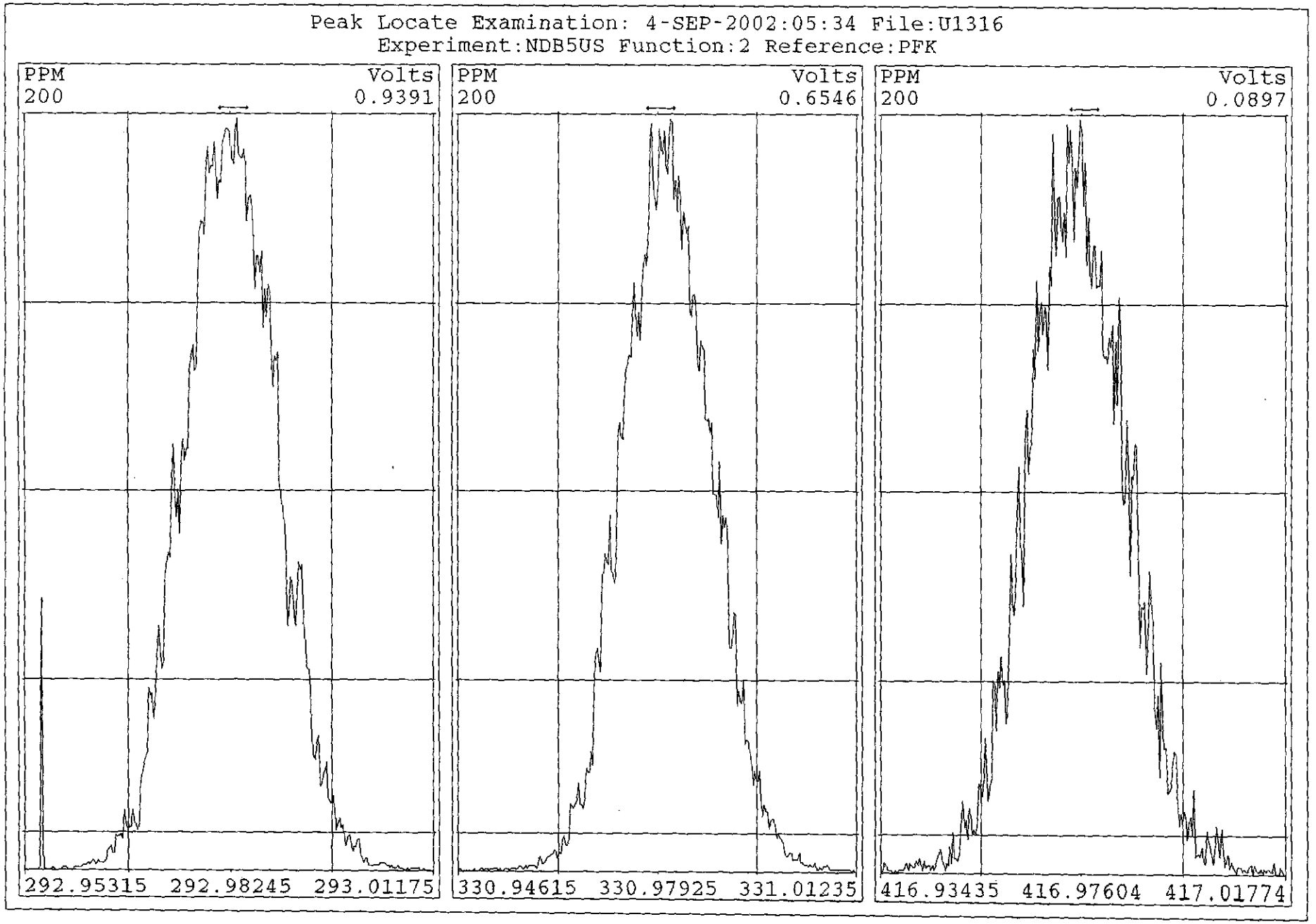


File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S Noise:1846
471.7750 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7384.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139



File:U1316 #1-550 Acq: 4-SEP-2002 15:13:25 GC EI+ Voltage SIR 70S
430.9729 S:12 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#58139




Peak Locate Examination: 4-SEP-2002:05:34 File:U1316
Experiment:NDB5US Function:2 Reference:PFK
PPM
200
Volts
0.9391
292.95315 292.98245 293.01175
PPM
200
Volts
0.6546
330.94615 330.97925 331.01235
PPM
200
Volts
0.0897
416.93435 416.97604 417.01774

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CALIBRATION DATA

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Analysis Date....: 07/09/2002 Method.....: MIT3
Instrument.....: U

Analytes	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
Total MCDF	0.000	0.000	100%		5:18	19:18			0
Total MCDD	0.000	0.000	100%		6:03	20:03			0
Total DCDF	0.000	0.000	100%		12:18	20:18			0
Total DCDD	0.000	0.000	100%		13:03	21:03			0
Total TriCDF	0.000	0.000	100%		16:18	23:18			0
Total TriCDD	0.000	0.000	100%		18:03	24:03			0
1368-TCDF	1.150	0.168	15%	22:02	24:18	31:18	0.769		6
1278-TCDF	1.156	0.067	6%	24:54			0.775		6
2378-TCDF	1.128	0.084	7%	25:19			0.787		6
TOTAL TCDF	1.128	0.084	7%				0.777		6
1368-TCDD	1.079	0.108	10%	23:26	25:03	32:03	0.788		6
1379-TCDD	1.037	0.205	20%	23:50			0.805		6
2378-TCDD	1.181	0.112	9%	26:04			0.791		6
TOTAL TCDD	1.181	0.112	9%				0.793		6
12378-PeCDF	1.257	0.098	8%	29:22	25:22	33:22	1.602		6
23478-PeCDF	1.233	0.121	10%	30:05			1.544		6
TOTAL PeCDF	1.245	0.109	9%				1.572		6
12378-PeCDD	1.128	0.106	9%	30:26	26:25	34:25	1.583		6
TOTAL PeCDD	1.128	0.106	9%				1.583		6
123478-HxCDF	1.142	0.077	7%	32:55	29:00	37:00	1.234		6
123678-HxCDF	1.200	0.079	7%	33:01			1.238		6
234678-HxCDF	1.046	0.114	11%	33:31			1.234		6
123789-HxCDF	0.862	0.073	8%	34:16			1.235		6
TOTAL HxCDF	1.063	0.080	8%				1.235		6
123478-HxCDD	1.083	0.083	8%	33:37	29:41	37:41	1.229		6
123678-HxCDD	1.106	0.091	8%	33:42			1.243		6
123789-HxCDD	1.073	0.081	8%	34:00			1.228		6
TOTAL HxCDD	1.087	0.079	7%				1.233		6
1234678-HpCDF	1.445	0.119	8%	35:52	31:52	39:52	1.053		6
1234789-HpCDF	1.026	0.095	9%	37:22			1.037		6
TOTAL HpCDF	1.235	0.095	8%				1.047		6
1234678-HpCDD	1.010	0.120	12%	36:53	32:52	40:52	1.060		6
TOTAL HpCDD	1.010	0.120	12%				1.060		6
OCDF	1.490	0.103	7%	40:34	36:22	44:22	0.911		6
OCDD	1.107	0.095	9%	40:23	36:22	44:22	0.900		6

Other Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
37Cl-TCDD	1.063	0.060	6%	26:04	24:03	28:03			6
13C12-PeCDF 234	1.003	0.027	3%	30:04	27:22	31:22	1.595		6
13C12-HxCDF 478	1.003	0.033	3%	32:55			0.518		6
13C12-HxCDF 234	0.920	0.040	4%	33:30			0.517		6
13C12-HxCDF 789	0.731	0.040	5%	34:15			0.519		6
13C12-HxCDD 478	0.904	0.024	3%	33:36			1.284		6
13C12-HpCDF 789	0.703	0.065	9%	37:21	33:52	39:52	0.466		6

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Internal Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-2378-TCDF	1.603	0.066	4%	25:18	24:18	26:18	0.795		6
13C12-2378-TCDD	1.129	0.021	2%	26:03	24:03	28:03	0.801		6
13C12-PeCDF 123	1.116	0.031	3%	29:22	25:22	33:22	1.589		6
13C12-PeCDD 123	0.665	0.048	7%	30:25	26:25	34:25	1.602		6
13C12-HxCDF 678	1.477	0.043	3%	33:00	29:00	37:00	0.523		6
13C12-HxCDD 678	1.039	0.038	4%	33:41	32:41	34:41	1.267		6
13C12-HpCDF 678	1.050	0.046	4%	35:52	33:52	39:52	0.469		6
13C12-HpCDD 678	0.809	0.020	2%	36:52	35:52	37:52	1.071		6
13C12-OCDD	0.547	0.048	9%	40:22	38:22	42:22	0.896		6

Recovery Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-1234-TCDD	1.000	0.000	0%	25:51			0.819		6
13C12-HxCDD 789	1.000	0.000	0%	34:00			1.275		6

*** End of Report ***

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TRIANGLE LABORATORIES, INC. Date 06/15/2002

Initial Calibration Summary for PF56152

Analysis Date....: 06/15/2002 Method.....: C2NF

Instrument.....: P GC Column...: DB-225

Analytes	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
2378-TCDF	1.120	0.033	3%	22:41	15:41	26:41	0.778		6
TOTAL TCDF	1.120	0.033	3%				0.778		6
2378-TCDD	1.131	0.028	2%	21:18	17:17	25:17	0.780		6
TOTAL TCDD	1.131	0.028	2%				0.780		6

Other Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
37Cl-TCDD	1.037	0.029	3%	21:18	19:17	23:17			6

Internal Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-2378-TCDF	1.519	0.052	3%	22:41	21:41	23:41	0.802		6
13C12-2378-TCDD	1.075	0.057	5%	21:17	19:17	23:17	0.788		6

Recovery Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-1234-TCDD	1.000	0.000	0%	21:33			0.813		6

*** End of Report ***

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Date: 09/04/2002 TRIANGLE LABORATORIES, INC.

Continuing Calibration for U021315

Analysis Date....: 09/04/2002 Method.....: MIT3
Operator.....: JMM Instrument..: U
Init Calibration.: UF57092 Std.Conc....: 10.00
ICal Date.....: 07/09/2002

Analyte Summary Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
Total MCDF	0.000		6:04 20:04			0.000	0.000	100.0%
Total MCDD	0.000		6:45 20:45			0.000	0.000	100.0%
Total DCDF	0.000		13:04 21:04			0.000	0.000	100.0%
Total DCDD	0.000		13:45 21:45			0.000	0.000	100.0%
Total TriCDF	0.000		17:04 24:04			0.000	0.000	100.0%
Total TriCDD	0.000		18:45 24:45			0.000	0.000	100.0%
1368-TCDF	1.155	0.74	22:47 27:58	22:57	0.8803	1.150	0.005	0.4%
1278-TCDF	1.258	0.75		25:40	0.9847	1.156	0.102	8.8%
2378-TCDF	1.142	0.77		26:05	1.0004	1.128	0.014	1.2%
TOTAL TCDF	1.142	0.75				1.128	0.014	1.2%
1368-TCDD	1.064	0.80	24:05 27:56	24:16	0.9073	1.079	-0.015	-1.4%
1379-TCDD	0.920	0.79		24:39	0.9215	1.037	-0.117	-11.3%
2378-TCDD	1.126	0.83		26:46	1.0007	1.181	-0.055	-4.6%
TOTAL TCDD	1.126	0.81				1.181	-0.055	-4.6%
12378-PeCDF	1.183	1.59	27:50 31:50	30:00	1.0007	1.257	-0.074	-5.9%
23478-PeCDF	1.076	1.59		30:40	1.0230	1.233	-0.157	-12.8%
TOTAL PeCDF	1.129	1.59				1.245	-0.116	-9.3%
12378-PeCDD	1.074	1.56	29:03 31:40	31:01	1.0013	1.128	-0.054	-4.8%
TOTAL PeCDD	1.074	1.56				1.128	-0.054	-4.8%
123478-HxCDF	1.183	1.24	32:20 35:02	33:27	0.9976	1.142	0.041	3.6%
123678-HxCDF	1.208	1.25		33:33	1.0006	1.200	0.008	0.7%
234678-HxCDF	1.077	1.22		34:02	1.0149	1.046	0.031	2.9%

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123789-HxCDF	0.896	1.23		34:48	1.0379	0.862	0.034	3.9%
TOTAL HxCDF	1.091	1.24				1.063	0.028	2.6%
123478-HxCDD	1.014	1.25	32:48 34:40	34:08	0.9974	1.083	-0.069	-6.3%
123678-HxCDD	1.084	1.26		34:13	1.0000	1.106	-0.022	-1.9%
123789-HxCDD	1.071	1.26		34:32	1.0091	1.073	-0.002	-0.2%
TOTAL HxCDD	1.056	1.25				1.087	-0.031	-2.8%
1234678-HpCDF	1.244	1.02	36:17 38:09	36:26	1.0000	1.445	-0.201	-13.9%
1234789-HpCDF	0.922	1.02		37:59	1.0425	1.026	-0.104	-10.1%
TOTAL HpCDF	1.083	1.02				1.235	-0.152	-12.3%
1234678-HpCDD	0.958	1.00	36:33 37:39	37:29	1.0003	1.010	-0.052	-5.2%
TOTAL HpCDD	0.958	1.00				1.010	-0.052	-5.2%
OCDF	1.335	0.92	37:05 45:05	41:17	1.0049	1.490	-0.155	-10.4%
OCDD	1.062	0.90	37:05 45:05	41:05	1.0000	1.107	-0.045	-4.1%

Other Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
37Cl-TCDD	1.031		24:45 28:45	26:46	1.0007	1.063	-0.032	-3.0%
13C12-PeCDF 234	0.963	1.59	25:59 33:59	30:40	1.0230	1.003	-0.040	-4.0%
13C12-HxCDF 478	1.005	0.53	29:32 37:32	33:27	0.9976	1.003	0.002	0.2%
13C12-HxCDF 234	0.945	0.53		34:01	1.0146	0.920	0.025	2.7%
13C12-HxCDF 789	0.738	0.53		34:47	1.0373	0.731	0.007	1.0%
13C12-HxCDD 478	0.919	1.25	33:13 35:13	34:08	0.9974	0.904	0.015	1.7%
13C12-HpCDF 789	0.756	0.47	34:26 40:26	37:58	1.0423	0.703	0.053	7.6%

Internal Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-2378-TCDF	1.486	0.81	25:04 27:04	26:04	1.0000	1.603	-0.117	-7.3%
13C12-2378-TCDD	1.099	0.81	24:45 28:45	26:45	1.0000	1.129	-0.030	-2.7%

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Continuing Calibration for U021315

13C12-PeCDF 123	1.085	1.57	25:59 33:59	29:59	1.0000	1.116	-0.031	-2.8%
13C12-PeCDD 123	0.664	1.62	26:59 34:59	30:59	1.0000	0.665	-0.001	-0.1%
13C12-HxCDF 678	1.454	0.53	29:32 37:32	33:32	1.0000	1.477	-0.023	-1.6%
13C12-HxCDD 678	0.962	1.24	33:13 35:13	34:13	1.0000	1.039	-0.077	-7.4%
13C12-HpCDF 678	0.805	0.48	34:26 40:26	36:26	1.0000	1.050	-0.245	-23.3%
13C12-HpCDD 678	0.665	1.07	36:28 38:28	37:28	1.0000	0.809	-0.144	-17.8%
13C12-OCDD	0.439	0.93	40:55 41:15	41:05	1.0000	0.547	-0.108	-19.7%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-1234-TCDD	1.000	0.82	24:45 28:45	26:35	0.9936	1.000	0.000	0.0%
13C12-HxCDD 789	1.000	1.27	33:13 35:13	34:31	1.0088	1.000	0.000	0.0%

QC Front End Check: 2.1500 TetraRS/HexaRS: 1.383

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Compound/ M_Z....	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
TCDF		0.65-0.89							
304-306	22:57		0.74	1,573.11	669.14	903.97	0.880	1368-TCDF	AN
	25:40		0.75	1,713.13	734.61	978.52	0.985	1278-TCDF	AN
	26:05		0.77	1,555.11	675.63	879.48	1.000	2378-TCDF	AN
304-306		3 Peaks							
13C12-TCDF		0.65-0.89							
316-318	26:04		0.81	13,620.11	6,091.69	7,528.42	1.000	13C12-2378-TCDF	ISO
316-318		1 Peak							
---------- Above: TCDF / TCDD Follows ----------									
TCDD		0.65-0.89							
320-322	24:16		0.80	1,071.77	475.87	595.90	0.907	1368-TCDD	AN
	24:39		0.79	926.04	409.20	516.84	0.922	1379-TCDD	AN
	26:46		0.83	1,134.02	515.31	618.71	1.001	2378-TCDD	AN
320		3 Peaks							
37Cl-TCDD									
328	26:46			1,038.20	1,038.20		1.001	37Cl-TCDD	CLS
328-330		1 Peak							
13C12-TCDD		0.65-0.89							
332-334	26:35		0.82	9,165.61	4,125.90	5,039.71	0.994	13C12-1234-TCDD	RS1
	26:45		0.81	10,069.61	4,505.17	5,564.44	1.000	13C12-2378-TCDD	IS1
332-334		2 Peaks							
---------- Above: TCDD / PeCDF Follows ----------									
PeCDF		1.32-1.78							
340-342	30:00		1.59	5,880.48	3,614.37	2,266.11	1.001	12378-PeCDF	AN
	30:40		1.59	5,347.47	3,286.49	2,060.98	1.023	23478-PeCDF	AN
340-342		2 Peaks							
13C12-PeCDF		1.32-1.78							
352-354	29:59		1.57	9,942.68	6,078.80	3,863.88	1.000	13C12-PeCDF 123	IS2
	30:40		1.59	9,574.97	5,873.60	3,701.37	1.023	13C12-PeCDF 234	SUR1
352-354		2 Peaks							
---------- Above: PeCDF / PeCDD Follows ----------									
PeCDD		1.32-1.78							
356-358	31:01		1.56	3,269.38	1,994.67	1,274.71	1.001	12378-PeCDD	AN
356-358		1 Peak							
13C12-PeCDD		1.32-1.78							
368-370	30:59		1.62	6,089.24	3,769.52	2,319.72	1.000	13C12-PeCDD 123	IS3
368-370		1 Peak							
---------- Above: PeCDD / HxCDF Follows ----------									

Compound/ M_Z....	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
HxCDF		1.05-1.43							
374-376	33:27		1.24	4,587.86	2,540.26	2,047.60	0.998	123478-HxCDF	AN
	33:33		1.25	4,684.99	2,605.95	2,079.04	1.001	123678-HxCDF	AN
	34:02		1.22	4,173.69	2,294.69	1,879.00	1.015	234678-HxCDF	AN
	34:48		1.23	3,472.94	1,918.07	1,554.87	1.038	123789-HxCDF	AN
374-376		4 Peaks							
13C12-HxCDF		0.43-0.59							
384-386	33:27		0.53	7,795.66	2,687.16	5,108.50	0.998	13C12-HxCDF 478	SUR2
	33:32		0.53	7,753.71	2,688.16	5,065.55	1.000	13C12-HxCDF 678	IS4
	34:01		0.53	7,325.88	2,531.72	4,794.16	1.015	13C12-HxCDF 234	ALT2
	34:47		0.53	5,723.44	1,989.03	3,734.41	1.037	13C12-HxCDF 789	ALT1
384-386		4 Peaks							
---------- Above: HxCDF / HxCDD Follows ----------									
HxCDD		1.05-1.43							
390-392	34:08		1.25	2,602.13	1,443.22	1,158.91	0.997	123478-HxCDD	AN
	34:13		1.26	2,782.13	1,548.63	1,233.50	1.000	123678-HxCDD	AN
	34:32		1.26	2,746.75	1,532.05	1,214.70	1.009	123789-HxCDD	AN
390-392		3 Peaks							
13C12-HxCDD		1.05-1.43							
402-404	34:08		1.25	4,715.68	2,620.90	2,094.78	0.997	13C12-HxCDD 478	SUR3
	34:13		1.24	5,130.98	2,840.10	2,290.88	1.000	13C12-HxCDD 678	IS5
	34:31		1.27	5,332.81	2,982.99	2,349.82	1.009	13C12-HxCDD 789	RS2
402-404		3 Peaks							
---------- Above: HxCDD / HpCDF Follows ----------									
HpCDF		0.88-1.20							
408-410	36:26		1.02	2,669.03	1,346.13	1,322.90	1.000	1234678-HpCDF	AN
	37:59		1.02	1,978.73	1,001.09	977.64	1.043	1234789-HpCDF	AN
408-410		2 Peaks							
13C12-HpCDF		0.37-0.51							
418-420	36:26		0.48	4,292.28	1,386.48	2,905.80	1.000	13C12-HpCDF 678	IS6
	37:58		0.47	3,245.82	1,035.38	2,210.44	1.042	13C12-HpCDF 789	SUR4
418-420		2 Peaks							
---------- Above: HpCDF / HpCDD Follows ----------									
HpCDD		0.88-1.20							
424-426	37:29		1.00	1,699.58	849.77	849.81	1.000	1234678-HpCDD	AN
424-426		1 Peak							
13C12-HpCDD		0.88-1.20							
436-438	37:28		1.07	3,548.45	1,830.97	1,717.48	1.000	13C12-HpCDD 678	IS7
436-438		1 Peak							
---------- Above: HpCDD / Octa-CDD and CDF Follows ----									

Compound/ M_Z....	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
OCDF			0.76-1.02						
442-444	41:17		0.92	3,126.17	1,497.72	1,628.45	1.005	OCDF	AN
442-444			1 Peak						
OCDD			0.76-1.02						
458-460	41:05		0.90	2,486.34	1,181.12	1,305.22	1.000	OCDD	AN
458-460			1 Peak						
13C12-OCDD			0.76-1.02						
470-472	41:05		0.93	4,683.52	2,263.08	2,420.44	1.000	13C12-OCDD	IS8
470			1 Peak						

Column Description.....

M_Z - Nominal Ion Mass(es)
..RT. - Retention Time (mm:ss)
Rat.1 - Ratio of M/M+2 Ions
OK - RO=Ratio Outside Limits
Rel.RT - Relative Retention Time

*** End of Report ***

Date: 09/04/2002 TRIANGLE LABORATORIES, INC.

Continuing Calibration for U021317

Analysis Date....: 09/04/2002 Method.....: MIT3

Operator.....: JMM Instrument..: U

Init Calibration.: UF57092 Std.Conc....: 10.00

ICal Date.....: 07/09/2002

Analyte Summary Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
Total MCDF	0.000		6:06 20:06			0.000	0.000	100.0%
Total MCDD	0.000		6:48 20:48			0.000	0.000	100.0%
Total DCDF	0.000		13:06 21:06			0.000	0.000	100.0%
Total DCDD	0.000		13:48 21:48			0.000	0.000	100.0%
Total TriCDF	0.000		17:06 24:06			0.000	0.000	100.0%
Total TriCDD	0.000		18:48 24:48			0.000	0.000	100.0%
1368-TCDF	1.230	0.74	22:49 27:59	22:59	0.8805	1.150	0.080	7.0%
1278-TCDF	1.167	0.75		25:42	0.9847	1.156	0.011	1.0%
2378-TCDF	1.116	0.78		26:07	1.0008	1.128	-0.012	-1.1%
TOTAL TCDF	1.116	0.76				1.128	-0.012	-1.1%
1368-TCDD	1.177	0.76	24:08 27:57	24:18	0.9067	1.079	0.098	9.1%
1379-TCDD	0.988	0.78		24:42	0.9216	1.037	-0.049	-4.7%
2378-TCDD	1.304	0.78		26:50	1.0011	1.181	0.123	10.4%
TOTAL TCDD	1.304	0.77				1.181	0.123	10.4%
12378-PeCDF	1.160	1.59	27:52 31:51	30:01	1.0000	1.257	-0.097	-7.7%
23478-PeCDF	1.009	1.52		30:43	1.0233	1.233	-0.224	-18.1%
TOTAL PeCDF	1.085	1.56				1.245	-0.160	-12.9%
12378-PeCDD	1.174	1.67	29:06 31:41	31:03	1.0006	1.128	0.046	4.1%
TOTAL PeCDD	1.174	1.67				1.128	0.046	4.1%
123478-HxCDF	1.223	1.27	32:21 35:04	33:29	0.9973	1.142	0.081	7.1%
123678-HxCDF	1.275	1.25		33:35	1.0003	1.200	0.075	6.3%
234678-HxCDF	1.126	1.26		34:03	1.0143	1.046	0.080	7.6%

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123789-HxCDF	0.961	1.27		34:50	1.0375	0.862	0.099	11.5%
TOTAL HxCDF	1.146	1.26				1.063	0.083	7.8%
123478-HxCDD	1.097	1.25	32:49 34:41	34:10	0.9982	1.083	0.014	1.3%
123678-HxCDD	1.095	1.26		34:15	1.0006	1.106	-0.011	-1.0%
123789-HxCDD	1.156	1.27		34:34	1.0099	1.073	0.083	7.7%
TOTAL HxCDD	1.116	1.26				1.087	0.029	2.7%
1234678-HpCDF	1.487	1.06	36:19 38:11	36:29	1.0000	1.445	0.042	2.9%
1234789-HpCDF	1.071	1.07		38:01	1.0422	1.026	0.045	4.4%
TOTAL HpCDF	1.279	1.06				1.235	0.044	3.6%
1234678-HpCDD	1.009	1.04	36:36 37:41	37:31	1.0005	1.010	-0.001	-0.1%
TOTAL HpCDD	1.009	1.04				1.010	-0.001	-0.1%
OCDF	1.365	0.93	37:07 45:07	41:19	1.0049	1.490	-0.125	-8.4%
OCDD	0.992	0.86	37:07 45:07	41:08	1.0002	1.107	-0.115	-10.4%

Other Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
37Cl-TCDD	1.163		24:48 28:48	26:49	1.0007	1.063	0.100	9.4%
13C12-PeCDF 234	0.896	1.57	26:01 34:01	30:41	1.0220	1.003	-0.107	-10.7%
13C12-HxCDF 478	1.004	0.51	29:34 37:34	33:28	0.9970	1.003	0.001	0.1%
13C12-HxCDF 234	0.952	0.52		34:03	1.0143	0.920	0.032	3.5%
13C12-HxCDF 789	0.767	0.51		34:49	1.0372	0.731	0.036	4.9%
13C12-HxCDD 478	0.933	1.41	33:14 35:14	34:09	0.9977	0.904	0.029	3.2%
13C12-HpCDF 789	0.710	0.46	34:29 40:29	38:00	1.0417	0.703	0.007	1.0%

Internal Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-2378-TCDF	1.672	0.81	25:06 27:06	26:06	1.0000	1.603	0.069	4.3%
13C12-2378-TCDD	1.174	0.81	24:48 28:48	26:48	1.0000	1.129	0.045	4.0%

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13C12-PeCDF 123	0.965	1.58	26:01 34:01	30:01	1.0000	1.116	-0.151	-13.5%
13C12-PeCDD 123	0.520	1.58	27:02 35:02	31:02	1.0000	0.665	-0.145	-21.8%
13C12-HxCDF 678	1.548	0.51	29:34 37:34	33:34	1.0000	1.477	0.071	4.8%
13C12-HxCDD 678	0.937	1.20	33:14 35:14	34:14	1.0000	1.039	-0.102	-9.8%
13C12-HpCDF 678	0.936	0.48	34:29 40:29	36:29	1.0000	1.050	-0.114	-10.8%
13C12-HpCDD 678	0.674	1.09	36:30 38:30	37:30	1.0000	0.809	-0.135	-16.7%
13C12-OCDD	0.420	0.89	40:57 41:17	41:07	1.0000	0.547	-0.127	-23.3%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-1234-TCDD	1.000	0.83	24:48 28:48	26:37	0.9933	1.000	0.000	0.0%
13C12-HxCDD 789	1.000	1.29	33:14 35:14	34:33	1.0093	1.000	0.000	0.0%

QC Front End Check: 2.7368 TetraRS/HexaRS: 1.576

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Compound/ M_Z....	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
TCDF		0.65-0.89							
304-306	22:59		0.74	2,850.97	1,212.60	1,638.37	0.881	1368-TCDF	AN
	25:42		0.75	2,705.57	1,158.87	1,546.70	0.985	1278-TCDF	AN
	26:07		0.78	2,585.83	1,133.24	1,452.59	1.001	2378-TCDF	AN
304-306		3 Peaks							
13C12-TCDF		0.65-0.89							
316-318	26:06		0.81	23,174.70	10,337.50	12,837.20	1.000	13C12-2378-TCDF	IS0
316-318		1 Peak							

---------- Above: TCDF / TCDD Follows ----------

TCDD		0.65-0.89							
320-322	24:18		0.76	1,915.99	829.38	1,086.61	0.907	1368-TCDD	AN
	24:42		0.78	1,608.31	705.03	903.28	0.922	1379-TCDD	AN
	26:50		0.78	2,122.35	927.88	1,194.47	1.001	2378-TCDD	AN
320		3 Peaks							
37Cl-TCDD									
328	26:49			1,892.01	1,892.01		1.001	37Cl-TCDD	CLS
328-330		1 Peak							
13C12-TCDD		0.65-0.89							
332-334	26:37		0.83	13,863.18	6,296.33	7,566.85	0.993	13C12-1234-TCDD	RS1
	26:48		0.81	16,272.23	7,297.22	8,975.01	1.000	13C12-2378-TCDD	IS1
332-334		2 Peaks							

---------- Above: TCDD / PeCDF Follows ----------

PeCDF		1.32-1.78							
340-342	30:01		1.59	7,761.30	4,762.22	2,999.08	1.000	12378-PeCDF	AN
	30:43		1.52	6,753.72	4,073.98	2,679.74	1.023	23478-PeCDF	AN
340-342		2 Peaks							
13C12-PeCDF		1.32-1.78							
352-354	30:01		1.58	13,381.75	8,187.16	5,194.59	1.000	13C12-PeCDF 123	IS2
	30:41		1.57	11,989.59	7,321.55	4,668.04	1.022	13C12-PeCDF 234	SUR1
352-354		2 Peaks							

---------- Above: PeCDF / PeCDD Follows ----------

PeCDD		1.32-1.78							
356-358	31:03		1.67	4,230.43	2,643.59	1,586.84	1.001	12378-PeCDD	AN
356-358		1 Peak							
13C12-PeCDD		1.32-1.78							
368-370	31:02		1.58	7,204.70	4,408.04	2,796.66	1.000	13C12-PeCDD 123	IS3
368-370		1 Peak							

---------- Above: PeCDD / HxCDF Follows ----------

Compound/ M_Z....	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
HxCDF			1.05-1.43						
374-376	33:29		1.27	6,704.29	3,745.51	2,958.78	0.997	123478-HxCDF	AN
	33:35		1.25	6,990.94	3,888.27	3,102.67	1.000	123678-HxCDF	AN
	34:03		1.26	6,169.99	3,434.53	2,735.46	1.014	234678-HxCDF	AN
	34:50		1.27	5,266.85	2,941.61	2,325.24	1.038	123789-HxCDF	AN
374-376			4 Peaks						
13C12-HxCDF			0.43-0.59						
384-386	33:28		0.51	11,006.20	3,733.45	7,272.75	0.997	13C12-HxCDF 478	SUR2
	33:34		0.51	10,963.72	3,695.58	7,268.14	1.000	13C12-HxCDF 678	IS4
	34:03		0.52	10,438.71	3,557.85	6,880.86	1.014	13C12-HxCDF 234	ALT2
	34:49		0.51	8,405.97	2,847.63	5,558.34	1.037	13C12-HxCDF 789	ALT1
384-386			4 Peaks						
---------- Above: HxCDF / HxCDD Follows ----------									
HxCDD			1.05-1.43						
390-392	34:10		1.25	3,639.81	2,020.32	1,619.49	0.998	123478-HxCDD	AN
	34:15		1.26	3,630.66	2,025.64	1,605.02	1.001	123678-HxCDD	AN
	34:34		1.27	3,834.05	2,148.04	1,686.01	1.010	123789-HxCDD	AN
390-392			3 Peaks						
13C12-HxCDD			1.05-1.43						
402-404	34:09		1.41	6,191.85	3,617.67	2,574.18	0.998	13C12-HxCDD 478	SUR3
	34:14		1.20	6,634.21	3,612.65	3,021.56	1.000	13C12-HxCDD 678	IS5
	34:33		1.29	7,081.83	3,994.84	3,086.99	1.009	13C12-HxCDD 789	RS2
402-404			3 Peaks						
---------- Above: HxCDD / HpCDF Follows ----------									
HpCDF			0.88-1.20						
408-410	36:29		1.06	4,931.04	2,532.53	2,398.51	1.000	1234678-HpCDF	AN
	38:01		1.07	3,551.08	1,833.33	1,717.75	1.042	1234789-HpCDF	AN
408-410			2 Peaks						
13C12-HpCDF			0.37-0.51						
418-420	36:29		0.48	6,632.07	2,140.80	4,491.27	1.000	13C12-HpCDF 678	IS6
	38:00		0.46	4,710.02	1,487.61	3,222.41	1.042	13C12-HpCDF 789	SUR4
418-420			2 Peaks						
---------- Above: HpCDF / HpCDD Follows ----------									
HpCDD			0.88-1.20						
424-426	37:31		1.04	2,406.27	1,228.67	1,177.60	1.001	1234678-HpCDD	AN
424-426			1 Peak						
13C12-HpCDD			0.88-1.20						
436-438	37:30		1.09	4,771.12	2,487.76	2,283.36	1.000	13C12-HpCDD 678	IS7
436-438			1 Peak						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----									

Compound/ M_Z....	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
OCDF			0.76-1.02						
442-444	41:19		0.93	4,058.85	1,953.51	2,105.34	1.005	OCDF	AN
442-444			1 Peak						
OCDD			0.76-1.02						
458-460	41:08		0.86	2,948.34	1,366.25	1,582.09	1.000	OCDD	AN
458-460			1 Peak						
13C12-OCDD			0.76-1.02						
470-472	41:07		0.89	5,945.71	2,801.97	3,143.74	1.000	13C12-OCDD	IS8
470			1 Peak						

Column Description.....

M_Z - Nominal Ion Mass(es)
..RT. - Retention Time (mm:ss)
Rat.1 - Ratio of M/M+2 Ions
OK - RO=Ratio Outside Limits
Rel.RT - Relative Retention Time

*** End of Report ***

Date: 09/04/2002 TRIANGLE LABORATORIES, INC.

Continuing Calibration for P023216

Analysis Date....: 09/04/2002 Method.....: C2NF
Operator.....: JWL Instrument..: P
Init Calibration.: PF56152 Std.Conc....: 10.00
ICal Date.....: 06/15/2002
Analysis Time....: 20:42 GC Column...: DB-225

Analyte Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
2378-TCDF	1.013	0.79	17:54 24:54	22:37	1.0009	1.120	-0.107	-9.5%
TOTAL TCDF	1.013	0.79				1.120	-0.107	-9.5%
2378-TCDD	1.058	0.82	18:45 24:10	21:13	1.0000	1.131	-0.073	-6.4%
TOTAL TCDD	1.058	0.82				1.131	-0.073	-6.4%

Other Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
37Cl-TCDD	0.964		19:13 23:13	21:13	1.0000	1.037	-0.073	-7.1%

Internal Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-2378-TCDF	1.392	0.77	21:36 23:36	22:36	1.0000	1.519	-0.127	-8.4%
13C12-2378-TCDD	0.997	0.80	19:13 23:13	21:13	1.0000	1.075	-0.078	-7.3%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-1234-TCDD	1.000	0.81		21:28	1.0118	1.000	0.000	0.0%

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Compound/ M_Z....	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
TCDF		0.65-0.89							
304-306	22:37		0.79	97.62	43.08	54.54	1.001	2378-TCDF	AN
304-306		1 Peak							
13C12-TCDF		0.65-0.89							
316-318	22:36		0.77	963.40	420.18	543.22	1.000	13C12-2378-TCDF	IS0
316-318		1 Peak							
---------- Above: TCDF / TCDD Follows ----------									
TCDD		0.65-0.89							
320-322	21:13		0.82	73.01	32.81	40.20	1.000	2378-TCDD	AN
320		1 Peak							
37Cl-TCDD									
328	21:13			66.46	66.46		1.000	37Cl-TCDD	*SUR1*
328-330		1 Peak							
13C12-TCDD		0.65-0.89							
332-334	21:13		0.80	689.77	305.55	384.22	1.000	13C12-2378-TCDD	IS1
	21:28		0.81	692.10	309.75	382.35	1.012	13C12-1234-TCDD	RS1
332		2 Peaks							

Column Description.....

M_Z - Nominal Ion Mass(es)
..RT. - Retention Time (mm:ss)
Rat.1 - Ratio of M/M+2 Ions
OK - *RO=Ratio Outside Limits*
Rel.RT - Relative Retention Time

*** End of Report ***